

GoTo North America Focused Delivery Program Hydraulics



Hydraulics GoTo Catalog

Bosch Rexroth is pleased to present our Hydraulics GoTo Product catalog as part of our GoTo Focused Delivery Program.

The GoTo Focused Delivery Program streamlines everything to make it easier for you to get a selection of our most popular Rexroth products faster. You'll benefit from quicker access to product information, reliable lead times that meet or beat the expectations of the market, and enhanced customer service.

The same GoTo product portfolio is now available in the United States, Canada, and Mexico. With the same quantities and lead times (from order acceptance to shipment in business days), GoTo is even easier to use.

For additional information on the GoTo Program and a complete list of other quality Rexroth products available in the Focused Delivery Program just go to:

USA: www.boschrexroth-us.com/GoTo

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**Focused
Delivery
Program**

GoTo Focused Delivery Program

Your local GoTo contact:

GoTo Program Delivery Conditions

- Current GoTo program content and guidelines are specified at: www.boschrexroth-us.com/goto or www.boschrexroth.ca/goto or www.boschrexroth.com.mx/goto
- How to Order: Please state clearly for each line item on the purchase order that GoTo lead times are required.
- Orders for products exceeding the current program quantity limits may be acknowledged with extended delivery.
- Items listed in this catalog will be shipped from a distributor or Bosch Rexroth location within the time frame stated in this catalog. For urgent delivery requirements, please check with your local sales office.

All items subject to prior sale. It is advisable to confirm critical delivery requirements at time of order. All sales subject to Bosch Rexroth Terms & Conditions of sales for your country, which you can read at:

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www.boschrexroth.ca or
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Bosch Rexroth reserves the right to make program changes at any time without notice.

WARNING!

Failure, improper selection or improper use of the products and/or systems described herein or of related items may cause personal injury or property damage.

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The products described herein, including without limitation, product features, specifications, designs and pricing are subject to change at anytime without notice.

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Liability:

In no event can the manufacturer accept warranty claims or liability claims for damages resulting from improper use or misuse of the equipment or as a result of changes made to the equipment other than those authorized by the manufacturer. The manufacturer will accept no claim in which non-original spare parts have been used.

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

A10V(S)O & (A)A10VSO (Series 31)



Variable displacement axial piston pump (A)A10V(S)O, Series 31 in swashplate design is available for open circuit applications. It can be used in both mobile and industrial applications. Flow is proportional to the drive speed and the displacement. By adjusting the position of the swashplate, it is possible to steplessly vary the flow. Multiple forms of pressure, flow or electrohydraulic controls are available.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 10 to 140
- Axial piston swashplate design
- Open circuit
- Series 31 (sizes 18, 28, 45, 71, 100, 140), Series 52 (sizes 10, 28, 45, 60, 85)
- Combination of pumps of up to the same size can be mounted to the through-drive (not with size 10)

Detailed information:

- RA92701
- RA92711

Technical Data

Size			18	28	45	71	100	140
Nominal pressure	p_N	bar (PSI)	280 (4000)	280 (4000)	280 (4000)	280 (4000)	280 (4000)	280 (4000)
Peak pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)	350 (5100)	350 (5100)	350 (5100)
Displacement	$V_{g\ max}$	cm ³ (in ³)	18 (1.10)	28 (1.71)	45 (2.75)	71 (4.33)	100 (6.10)	140 (8.54)
Speed ¹⁾	n_{max}	rpm	3300	3000	3000	2200	2000	1800
Flow	at n_{max}	$q_{V\ max}$ l/min (GPM)	59 (15.59)	84 (22.19)	117 (31)	156 (41)	200 (53)	252 (67)
Power	$\Delta p = 280\ bar$ (4000 PSI)	P_{max} kW	28	39	55	73	93	118
Torque	$\Delta p = 280\ bar$ (4000 PSI)	T_{max} Nm (lb-ft)	80 (59)	125 (92)	200 (148)	316 (233)	445 (328)	623 (460)
Weight (approx.)	m	kg (lbs.)	12 (26)	15 (33)	21 (46)	33 (73)	45 (99)	60 (132)

1) The values are valid at an absolute pressure of 1 bar (14.50 PSI) in suction port S.

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

A10V(S)O (Series 52)



Variable displacement axial piston pump A10V(S)O, Series 52 in swashplate design is available for hydrostatic drives in an open circuit. The flow is proportional to the drive speed and displacement of the pump. Flow can be steplessly varied by adjusting the swashplate angle. Long service life, low noise, and a favorable power-to-weight ratio make it ideal for mobile and industrial applications requiring a compact drive.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 10 to 85 cc
- Axial piston swashplate design
- Open circuit
- Series 52
- Combination of pumps of up to same size can be mounted to the thru-drive (not with size 10)

Detailed information:

- RA92703

Technical Data


Size			18	28	45	60	85	
Nominal pressure	p_N	bar (PSI)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	
Peak pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)	315 (4600)	315 (4600)	
Displacement	$V_{g,max}$	cm ³ (in ³)	10.5 (0.64)	28 (1.71)	45 (2.75)	60 (3.66)	85 (5.18)	
Speed ¹⁾	n_{max}	rpm	3600	3000	2600	2700	2500	
Flow	at n_{max}	$q_{V,max}$	l/min (GPM)	38 (10.04)	84 (22)	117 (31)	163 (43)	212 (55)
Power	$\Delta p = 250$ bar (3600 PSI)	P_{max}	kW	16	35	49	68	89
Torque	$\Delta p = 250$ bar (3600 PSI)	T_{max}	Nm (lb-ft)	42 (31)	111 (82)	179 (132)	238 (176)	338 (247)
Weight (approx.)	m	kg (lbs.)	8 (18)	14 (31)	18 (40)	22 (49)	34 (75)	

1) The values are valid at an absolute pressure of 1 bar (14.50 PSI) in suction port S.

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

A10VSO (Series 32)

	<p>Variable displacement axial piston pump A10VSO, Series 32 in swash-plate design is available for hydrostatic drives in an open circuit. The flow is proportional to the drive speed and displacement of the pump. It contains a port for pressure transducers in the pump outlet and is highly resistant to sudden drops and spikes in pressure, contributing to maximum efficiency. Generally used in industrial applications, the Series 32 has a low-noise design and features a Universal through-drive with coverplate.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTopumps</p>
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Features

- Sizes 180 cc
- Axial piston swashplate design
- Open circuit
- Series 32

Detailed information:
• RA92714

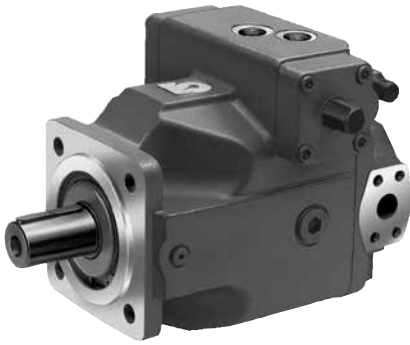
Technical Data

Size			180
Nominal pressure	p_N	bar (PSI)	280 (4000)
Peak pressure	p_{max}	bar (PSI)	350 (5100)
Displacement	$V_{g\ max}$	cm ³ (in ³)	180 (10.98)
Speed ¹⁾	n_{max}	rpm	1800
Flow at n_{max}	$q_{V\ max}$	l/min (GPM)	324 (85.6)
Power $\Delta p = 280\ \text{bar}$ (4000 PSI)	P_{max}	kW	151
Torque $\Delta p = 280\ \text{bar}$ (4000 PSI)	T_{max}	Nm (lb-ft)	802 (589)
Weight (approx.)	m	kg (lbs.)	78 (171)

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

(A)A4VSO (Series 10 & 30)



Variable displacement axial piston pump (A)A4VSO in swashplate design is available for open circuit applications. Sizes 40 & 71 are available in Series 10; sizes 125-250 are available in Series 30 and have the U99 Universal through-drive with coverplate. The flow is proportional to the input drive speed and displacement. By adjusting the swashplate angle, it is possible to infinitely vary the output flow. This rugged, low-noise pump is generally used in industrial 24/7 applications. A version with special bearings (code "F") for water-content fluids up to 5000 psi and 1800 rpm is also available.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 40 to 250 cc
- Axial piston swashplate design
- Open circuit
- Series 10 & 30
- Combination of pumps of up to same size can be mounted to the thru-drive

Detailed information:

- RA92050
- RA92053
(HFC Fluids)

Technical Data

Size			40	71
Nominal pressure	p_N	bar (PSI)	350 (5100)	350 (5100)
Peak pressure	p_{max}	bar (PSI)	400 (5800)	400 (5800)
Displacement	$V_{g\ max}$	cm ³ (in ³)	40 (2.44)	71 (4.33)
Speed ¹⁾	n_{max}	rpm	2600	2200
Flow at n_{max}	$q_{V\ max}$	l/min (GPM)	104 (27.5)	156 (41.2)
Power $\Delta p = 350$ bar (5100 PSI)	P_{max}	kW	61	91
Torque $\Delta p = 350$ bar (5100 PSI)	T_{max}	Nm (lb-ft)	223 (165)	395 (292)
Weight (approx.)	m	kg (lbs.)	39 (86)	53 (117)


Size			125	180	250
Nominal pressure	p_N	bar (PSI)	350 (5100)	350 (5100)	350 (5100)
Peak pressure	p_{max}	bar (PSI)	400 (5800)	400 (5800)	400 (5800)
Displacement	$V_{g\ max}$	cm ³ (in ³)	125 (7.63)	180 (11.0)	250 (15.26)
Speed ¹⁾	n_{max}	rpm	1800	1800	1500
Flow at n_{max}	$q_{V\ max}$	l/min (GPM)	225 (59.4)	324 (85.6)	375 (99)
Power $\Delta p = 350$ bar (5100 PSI)	P_{max}	kW	131	189	219
Torque $\Delta p = 350$ bar (5100 PSI)	T_{max}	Nm (lb-ft)	696 (516)	1002 (744)	1391 (1032)
Weight (approx.)	m	kg (lbs.)	1391 (1032)	102 (225)	184 (406)

See index Page 202 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

A15VSO (Series 10)

	<p>Variable displacement axial piston pump A15VSO, Series 10 in swash-plate design is for hydrostatic drives in an open circuit. The pump is typically used in stationary applications where efficiency and compact design are required. It can work either as self-priming or with a charge pump. Other notable features include low noise operation, fast control response, overcenter operation and Universal through-drive with coverplate. The A15VSO is competitively priced compared to other industrial high-pressure designs.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTopumps</p>
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Features

- Sizes 145 to 280 cc
- Axial piston swashplate design
- Open circuit
- Series 10
- Typical used for stationary applications

Detailed information:
• RA92800

Technical Data

Size			145	175	210	280	
Nominal pressure	p_N	bar (PSI)	350 (5100)	350 (5100)	350 (5100)	350 (5100)	
Peak pressure	p_{max}	bar (PSI)	420 (6090)	420 (6090)	420 (6090)	420 (6090)	
Displacement	$V_{g\ max}$	cm ³ (in ³)	145 (8.8)	175 (10.7)	210 (12.8)	280 (17.1)	
Speed ¹⁾	n_{max}	rpm	2600	2500	2500	2300	
Flow	at n_{max}	qV_{max}	l/min (GPM)	334 (88.2)	376 (99.3)	441 (116.5)	504 (133.1)
Power	$\Delta p = 350\ \text{bar}$ (5100 PSI)	P_{max}	kW	195	219	257	294
Torque	$\Delta p = 350\ \text{bar}$ (5100 PSI)	T_{max}	Nm (lb-ft)	808 (596)	975 (719)	1170 (863)	1560 (1151)
Weight (approx.)	m	kg (lbs.)	79 (174)	97 (214)	111 (245)	143 (315)	

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

AA4VG (Series 32)



Variable displacement axial piston pump AA4VG, Series 32 in swashplate design is for hydrostatic closed circuit transmissions. The flow is proportional to drive speed and displacement which is infinitely variable depending on the swashplate angle. The pump is equipped with two pressure relief valves on the high pressure ports to protect the transmission from overload.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 56 to 125 cc
- Axial piston swashplate design
- Closed circuit
- Series 32
- Integrated boost pump acts as feed and oil control pump

Detailed information:

- RA92003


Technical Data

Size			56	71	90	125	
Nominal pressure	p_N	bar (PSI)	400 (5800)	400 (5800)	400 (5800)	400 (5800)	
Peak pressure	p_{max}	bar (PSI)	450 (6500)	450 (6500)	450 (6500)	450 (6500)	
Displacement	$V_{g\ max}$	cm ³ (in ³)	56 (3.42)	71 (4.33)	90 (5.49)	125 (7.63)	
Speed ¹⁾	n_{max}	rpm	3600	3300	3050	2850	
Flow at n_{max}	$q_{V\ max}$	l/min (GPM)	202 (53.4)	234 (61.8)	275 (72.5)	356 (94.1)	
Power	$\Delta p = 400\ \text{bar}$ (5800 PSI)	P_{max}	kW	134	156	183	237
Torque	$\Delta p = 400\ \text{bar}$ (5800 PSI)	T_{max}	Nm (lb-ft)	356 (263)	451 (333)	572 (422)	795 (587)
Weight (approx.)	m	kg (lbs.)	38 (84)	50 (110)	60 (145)	80 (176)	

GoTo Focused Delivery Program: Pumps

Variable displacement pumps

AA10VG (Series 10)

	<p>Variable displacement axial piston pump AA10VG, Series 10 in swash-plate design is available for hydrostatic closed circuit transmissions. The flow is proportional to the drive speed and displacement and is infinitely variable depending on the swashplate angle. The pump is equipped with two pressure relief valves on the high pressure ports to protect the transmission from overload.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTopumps</p>
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Features

- Sizes 18 to 45 cc
- Axial piston swashplate design
- Closed circuit
- Series 10
- Pressure relief valves also function as boost valves

Detailed information:
 • RA92750

Technical Data

Size			18	28	45	
Nominal pressure	p_N	bar (PSI)	300 (4350)	300 (4350)	300 (4350)	
Peak pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)	
Displacement	$V_{g\ max}$	cm ³ (in ³)	18 (1.10)	28 (1.71)	46 (2.81)	
Speed ¹⁾	n_{max}	rpm	4000	3900	3300	
Flow	at n_{max}	qV_{max}	l/min (GPM)	72 (19)	109 (28.8)	152 (40.2)
Power	$\Delta p = 300\ \text{bar}$ (4350 PSI)	P_{max}	kW	36	54.6	75.9
Torque	$\Delta p = 300\ \text{bar}$ (4350 PSI)	T_{max}	Nm (lb-ft)	86 (63.5)	134 (99)	220 (162)
Weight (approx.)	m	kg (lbs.)	14 (31)	25 (55)	27 (60)	

GoTo Focused Delivery Program: Pumps

External gear pump

AZPF and AZPN



Bosch Rexroth has been involved with the design, development and manufacture of gear pumps for many decades. Well-proven designs, the use of specially developed materials, constant testing and sophisticated mass production techniques ensure products of the very highest quality.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- AZPF – sizes 4 to 28 cc; AZPN – sizes 20 to 36 cc
- Plain bearings for high loads
- Drive shafts according to ISO or SAE and customer-specific standards
- Combination of several pumps possible
- Line connections: connecting flanges or female threads

Detailed information:

- RA10097

Technical Data

AZPF – Size			4	5	8	11	14	16	19	22	25	28
Displacement	$V_{g \max}$	cm ³ (in ³)	4.1 (0.26)	5.6 (0.35)	8.2 (0.51)	11.3 (0.71)	14.3 (0.89)	16.5 (1.03)	19.5 (1.22)	22.9 (1.43)	25.4 (1.59)	28.5 (1.78)
Operating pressure, continuous	$p_{1 \max}$	bar (PSI)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	250 (3600)	210 (3045)	180 (2610)	200 (2900)	170 (2500)
Operating pressure, intermittent	p_3	bar (PSI)	280 (4100)	280 (4100)	280 (4100)	280 (4100)	280 (4100)	280 (4100)	230 (3335)	210 (3045)	220 (3200)	190 (2800)
Max. speed at p_1	n	rpm	3500	3500	3500	3000	2500	2500	2500	2000	2000	2000
Min. speed at p_1	n	rpm	600	500	500	500	500	500	500	500	500	500

Note:

- Applicable to an oil viscosity of 25 mm²/s (116 SUS) and an oil temperature of 55 °C (131 °F) with HLP 46.
- The pressure in the suction port is 0.7 bar (10.2 PSI) min and 3 bar (43.5 PSI) max absolute.

AZPN – Size		20	22	25	28	32	36
Displacement	cm ³ /rev (in ³ /rev)	20.4 (1.24)	23.1 (1.41)	25.8 (1.57)	28.4 (1.73)	32.4 (1.98)	36.4 (2.22)
Inlet pressure	bar (PSI)	min. 0.7; max. 3 (min. 10.2; max 43.5) [absolute]					
Max. continuous pressure	p_1 bar (PSI)	230 (3335)	230 (3335)	230 (3335)	210 (3045)	180 (2610)	160 (2610)
Max. intermittent pressure	p_2 bar (PSI)	250 (3625)	250 (3625)	250 (3625)	230 (3335)	200 (2900)	180 (2610)
Max. peak pressure	p_3 bar (PSI)	270 (3915)	270 (3915)	270 (3915)	250 (3625)	220 (3190)	200 (2900)
Min. rotational speed ≤ 100	rpm	500	500	500	500	500	500
Max. rotational speed	p_1 rpm	2500	2500	2500	2300	2300	2100
	p_2 rpm	3000	3000	3000	2800	2800	2600

See index Pages 203–204 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps

Internal gear pumps

PGH



The PGH is a fixed displacement internal gear pump with an extremely versatile design, that's increasing in popularity within many variable speed drive applications. Along with its high pressure rating and low-noise and pulsation levels, the PGH reduces energy consumption and boosts overall system efficiency by providing only the flow and pressure as the system demands.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 5cc through 250cc
- Wide speed range, excellent for variable speed applications
- Radial and axial gap pressure compensation
- Larger sizes have built-in gauge / bleed port
- Flexible combination concept, all pumps have through drive

Detailed information:

- Frame size 2 and 3: RE10223
- Frame size 4 and 5: RE10227

Technical Data

Frame Size	2				3			4					
Displacement	V_g	cm ³	5	6	8	11	13	16	20	25	32	40	50
Allowable speed	n	rpm	600 - 3000						200 - 3000				
Maximum continuous operating pressure (std fluids)	p_n	psi	4568										3625
Permitted viscosity range		cSt	10 to 300 (restricted to 100 cSt for high speed 3000 rpm operation)										
Fluid temperature (std fluids)		°F	14 to 176										
Weight	m	lbs	9.5	9.7	10.1	10.6	11	11.7	30.9	32	33.1	35.3	37.5

Frame Size	5									
Displacement	V_g	cm ³	63	80	100	125	160	200	250	
Allowable speed	n	rpm	200 - 3000							
Maximum continuous operating pressure (std fluids)	p_n	psi	4568				3045	2465	1958	
Permitted viscosity range		cSt	10 to 300 (restricted to 100 cSt for high speed 3000 rpm operation)							
Fluid Temperature (std fluids)		°F	14 to 176							
Weight	m	lbs	92.6	95.9	100.3	105.8	114.6	122.4	133.4	

GoTo Focused Delivery Program: Pumps

Fixed displacement vane pumps

PVV



Rexroth PVV product is a fixed displacement vane pump based on the cartridge principle. PVV pumps can be used in a wide spectrum of applications, from low pressure filter / cooler loops to higher pressure systems such as presses and injection molding machines. PVV fixed vane pumps are just one of the many pump options available from the extensive Rexroth portfolio of products.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- 20 different displacement sizes ranging from 18cc/rev (1.1 cu-in/rev) to 193cc/rev (11.8 cu-in/rev)
- Hydraulically balanced design provides long bearing life
- Cartridge replacement simplifies service and repair
- Cartridges are interchangeable with competitive designs
- Displacement changes can be easily performed by swapping cartridges
- Rotational flexibility of port locations optimizes customer interface
- PVV pumps can be coupled to other Rexroth vane, piston and gear products

Detailed information:
• RE10335

Technical Data

Mounting style	Flange mounting to SAE J744										
Pipe connections	SAE flange version (fixing threads: UNC)										
Direction of rotation	Clockwise and counter-clockwise										
Drive	Direct, co-axial drive; radial and axial forces cannot be taken up										
Build sizes 1 and 2 (pump cartridge)	BS1					BS2					
Nominal size ($\approx V$ in cm^3)	NS	18	27	36	40	46	40	45	55	60	68
Max. flow at $n = 1500 \text{ min}^{-1}$, $p = 0.7 \text{ bar (10 PSI)}$ and $v = 25 \text{ mm}^2/\text{s}$	l/min (GPM)	25 (6.6)	39 (10.3)	53 (14.0)	59 (15.6)	70 (18.5)	59 (15.6)	66 (17.4)	80 (21.1)	89 (23.5)	100 (26.4)
Outlet continuous for PVV	p_{max} bar (PSI)	210 (3000)			160 (2300)	140 (2000)	175 (2500)				
Weight	kg (lb)	12 (26.4)					14.8 (32.6)				
Speed at 1 bar (14.5 PSI)	RPM	600–1800									
Build sizes 4 and 5 (pump cartridge)	BS4					BS5					
Nominal size ($\approx V$ in cm^3)	NS	69	82	98	113	122	139	154	162	183	193
Max. flow at $n = 1500 \text{ min}^{-1}$, $p = 0.7 \text{ bar (10 PSI)}$ and $v = 25 \text{ mm}^2/\text{s}$	l/min (GPM)	101 (26.7)	120 (31.7)	141 (37.2)	167 (44.1)	177 (46.8)	203 (53.6)	223 (58.9)	234 (61.8)	267 (70.5)	285 (75.3)
Outlet continuous for PVV	p_{max} bar (PSI)	175 (2500)					175 (2500)				
Weight	kg (lb)	23 (50.7)					34 (74.9)				
Speed at 1 bar (14.5 PSI)	RPM	600–1800									

See index Pages 204–205 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pumps

Vane pumps

VPV



Rexroth continues to offer advanced variable vane pump technology. Market conditions favor hydraulic components that operate at low noise levels without sacrificing efficiency or durability. VPV pumps feature an outstanding response to the needs of the market today and for the future.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 16 to 164
- Flows from 30 to 287 L/min (7.6 to 75.8 GPM) in single pumps
- Available in combination with other VPV pumps and Rexroth gear pumps
- Through-drive horsepower transfer is 100% to the second pump
- VPV pumps are available with through-shaft versions for quick combinations
- Pressures to 210 bar (3050 PSI)
- Continuous speeds from 1000 to 1800 rpm
- A variety of fluids can be used: mineral oil, phosphate ester, and environmentally friendly fluids
- Controls include standard pressure compensation, remote pressure compensation, load sense, solenoid 2-pressure, and solenoid vented

Detailed information:

- 9535233724
- 9535233782
- * 9535233785

Technical Data

Size	in ³ /rev (cc/rev)	1.0 (16)	1.5 (25)	2.0 (32)	2.75 (45)	3.84 (63)	4.88 (80)	6.0 (100)	7.93 (130)	10.0 (164)
Flow ¹⁾	L/min GPM	30 (7.6)	43 (11.4)	57 (15.1)	79 (20.8)	110 (29.1)	140 (37.0)	172 (45.4)	227 (60.0)	287 (75.8)
Max. Pressure	bar (PSI)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)	210 (3000)
Speed range	1000 to 1800 rpm									
Mounting	Flange to ISO 3019/1									
Mount Position	Any									
Rotation	RH									
Sound Pressure Level ²⁾		67	69	69	68	69	71	74	76	77

1) 1750 rpm in GPM.

2) dB(A) at 3000 PSI, 1750 rpm, full flow in a hemi-anechoic chamber with microphone placed 1 meter away at 7 discrete locations. Sound pressure levels are spatially and time weighted averaged.

GoTo Focused Delivery Program: Pumps

Variable vane pumps, direct operated PV7



PV7 direct operated vane pumps are a pressure compensated design that improves system performance and efficiency vs. fixed displacement pumps. PV7 pumps can be used for lower pressure applications where low noise and pulsation are critical circuit demands.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- 4 displacements ranging from 10-25cc
- Maximum flow adjustment option is standard
- Compensator setting is lockable
- Multiple pressure options for each displacement

Detailed information:

- RE10522

Technical Data

Frame Size		06		20	
Displacement size	cm ³ (in ³)	10 (0.61)	14 (0.85)	20 (1.22)	25 (1.53)
Flow	L/min (GPM)	14.5 (3.8)	20 (5.3)	29 (7.7)	36 (9.5)
Max. Pressure (absolute)	Inlet bar (PSI)	0.8 to 2.5 (11.6 to 36.25)			
	Outlet	100 (1450)	70 (1015)	100 (1450)	
Permitted viscosity range	cSt	16 to 160			
Weight	lbs	13.9		25.1	
Fluid temperature	°F	14 to 158			
Speed range	rpm	900 to 1800			
Installation position		Optional			

GoTo Focused Delivery Program: Pumps

Variable vane pumps, pilot operated PV7



The PV7 is a variable displacement vane pump used quite extensively for low to mid-pressure applications for numerous market segments such as machine tool and packaging industries. The PV7 pump utilizes a journal bearing design and pivoting control pistons to provide a low noise and durable product for the industrial hydraulic market.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- 8 displacement sizes ranging from 14-150cc.
- All pumps are supplied with through drive capable shaft that is capped off with an aluminum rear cover
- PV7 pumps can be incorporated into combinations with many other Rexroth products including internal and external gear pumps, radial piston pumps, fixed and variable vane pumps and axial piston pumps.
- Multiple control options are available such as pressure control, flow control, solenoid unloading control, lockable controls, etc.
- PV7 design is European based, 4-bolt DIN mounting pilot and metric shaft

Detailed information:

- RE10515

Technical Data

Size		10		16		25		40		63		100	
Size	cm ³ (in ³)	14 (0.85)	20 (1.22)	20 (1.22)	30 (1.83)	30 (1.83)	45 (2.75)	45 (2.75)	71 (4.27)	71 (4.27)	94 (5.74)	118 (7.20)	150 (9.15)
Flow	L/min (GPM)	21 (5.5)	29 (7.7)	29 (7.7)	43.5 (11.5)	43.5 (11.5)	66 (17.4)	66 (17.4)	104 (27.5)	108 (28.5)	136 (35.9)	171 (45.2)	218 (57.6)
Max. Pressure (absolute)													
Inlet	bar (PSI)	0.8 to 2.5 (11.6 to 36.26)											
Outlet	bar (PSI)	160 (2320)	100 (1450)	160 (2320)	80 (1160)	160 (2320)	80 (1160)	160 (2320)	80 (1160)	160 (2320)	80 (1160)	160 (2320)	80 (1160)
Speed range		900 to 1800 rpm											
Direction of rotation		Clockwise (viewed to shaft end)											

GoTo Focused Delivery Program: Pumps

Radial piston pump, fixed displacement

R4



Hydraulic pumps of type R4 are integral check valve-controlled, self-priming radial piston pumps with fixed displacement. R4 pumps are designed for high pressure operation and long life.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopumps

Features

- Sizes 1.6 to 20
- Radial piston pump with 3, 5 or 10 pistons
- Self-priming, valve-controlled
- Long bearing life due to hydro-dynamically lubricated plain bearings
- Optional combination with variable displacement vane and axial piston pumps

Detailed information:

- RA11263

Technical Data

Technical Data

Size			1.6	2.0	2.5	3.15	4.0	6.3	8.0	
Displacement	$V_{g \max}$	cm ³ (in ³)	1.51 (0.09)	2.14 (0.13)	2.59 (0.16)	3.57 (0.22)	4.32 (0.26)	7.14 (0.44)	8.63 (0.53)	
Operating pressure	p_{\max}	bar (PSI)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	700 (10,150)	
Power ¹⁾	P	kW (HP)	2.9 (3.89)	4.1 (5.50)	4.9 (6.57)	6.8 (9.12)	8.1 (10.86)	13.6 (18.24)	16.1 (21.59)	
Speed	n	rpm	1000 to 2000							
Weight (approx.)	m	kg (lbs)	9.2 (20.3)	9.2 (20.3)	9.2 (20.3)	12.4 (27.3)	12.4 (27.3)	16.4 (36.1)	16.4 (36.1)	


Size			3.15	5.0	6.3	8.0	10.0	16.0	20.0	
Displacement	$V_{g \max}$	cm ³ (in ³)	3.39 (0.21)	4.82 (0.29)	5.83 (0.36)	8.03 (0.49)	9.71 (0.59)	16.07 (0.98)	19.43 (1.19)	
Operating pressure	p_{\max}	bar (PSI)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	500 (7250)	
Power ¹⁾	P	kW (HP)	4.7 (6.30)	6.7 (8.98)	7.9 (10.59)	10.9 (14.62)	12.9 (17.30)	21.2 (28.43)	25.3 (33.93)	
Speed	n	rpm	1000 to 2000							
Weight (approx.)	m	kg (lbs)	9.2 (20.3)	9.2 (20.3)	9.2 (20.3)	12.4 (27.3)	12.4 (27.3)	16.4 (36.1)	16.4 (36.1)	

1) At maximum continuous operating pressure and $n = 1450$ rpm.

GoTo Focused Delivery Program: Pumps

Radial piston pump, fixed displacement

R4-Mini

	<p>Hydraulic pumps of type R4 "mini" are integral check valve-controlled, self-priming radial piston pumps with fixed displacement. R4 mini pumps are designed for low flow, high pressure operation and long life.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTopumps</p>
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Features

- Sizes 0.4 to 2.0
- Radial piston pump with 3 pistons
- Very compact build
- Self-priming, valve-controlled
- Long service life due to hydro-dynamically lubricated plain bearings
- Optional combination with variable displacement vane pumps

Detailed information:
 • RA11260

Technical Data

Size			0.4	0.63	1	1.6	2
Displacement	$V_{g \max}$	cm ³ (in ³)	0.4 (0.024)	0.63 (0.038)	1 (0.061)	1.6 (0.098)	2 (0.122)
Operating pressure	p_{\max}	bar (PSI)	700 (10,150)	700 (10,150)	450 (6500)	250 (3600)	175 (2500)
Power ¹⁾	P	kW (HP)	0.66 (0.89)	1.15 (1.54)	1.14 (1.53)	1.06 (1.42)	0.86 (1.15)
Speed	n	rpm	3400	3000	2000	2000	2000
Weight (approx.)	m	kg (lbs)	2.6 (5.73)	2.6 (5.73)	2.6 (5.73)	2.6 (5.73)	2.6 (5.73)

1) At maximum continuous operating pressure and n = 1450 rpm.

GoTo Focused Delivery Program: Motors

Variable displacement motors

(A)A6VM



Variable displacement motor (A)A6VM in axial tapered piston rotary group of bent-axis design is available for open and closed circuit applications. It can be used in both mobile and industrial applications. The output speed is dependent on the flow of the pump and the displacement of the motor. The output torque increases with the pressure differential between the high-pressure and low-pressure side and with increasing displacement.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 80, 107, 160
- Series 6
- Axial tapered piston, bent-axis design
- For use in mobile and stationary applications
- Wide control range, high speeds and torque

- Compact, robust motor with long service life
- Cost savings through elimination of gear shifts and possibility of using smaller pumps
- Wide selection of control devices; good starting characteristics

Detailed information:

- Series 6:
RE91604

Technical Data

Size		80	107	160	
Nominal pressure	bar (PSI)	400 (5800)	400 (5800)	400 (5800)	
Peak pressure	bar (PSI)	450 (6500)	450 (6500)	450 (6500)	
Displacement ¹⁾	$V_{g \max}$	$\text{cm}^3 (\text{in}^3)$	80 (4.88)	107 (6.53)	160 (9.76)
	$V_{g 0}$	$\text{cm}^3 (\text{in}^3)$	0 (0)	0 (0)	0 (0)
Max. speed ²⁾ (while adhering to the maximum permissible flow)	n_{\max} at $V_{g \max}$	rpm	3900	3550	3100
	n_{\max} at $V_g < V_{g x}$	rpm	6150	5600	4900
	$V_{g x} = 0.63 \times V_{g \max}$	$\text{cm}^3 (\text{in}^3)$	51 (3.11)	68 (4.15)	101 (6.16)
	n_{\max} at $V_{g 0}$	rpm	7350	6300	5500
Max. flow	$q_{V \max}$	L/min (GPM)	312 (82)	380 (100)	496 (131)
Max. torque	T_{\max} at $V_{g \max}$ ³⁾	Nm (lb-ft)	509 (375)	681 (502)	1019 (752)
Rotary stiffness					
$V_{g \max}$ to $V_{g/2}$	C_{\min}	Nm/rad (lb-ft/rad)	15500 (11432)	21000 (15489)	35300 (26036)
$V_{g/2}$ to 0 (interpolated)	C_{\max}	Nm/rad (lb-ft/rad)	47900 (35329)	65200 (48089)	105000 (77444)
Moment of inertia for rotary group	JTW	$\text{kgm}^2 (\text{lb-ft}^2)$	0.0080 (0.190)	0.0127 (0.301)	0.0253 (0.600)
Maximum angular acceleration	a	rad/s^2	24000	19000	11000
Filling capacity	V	L (Gal)	1.2 (0.32)	1.5 (0.40)	2.4 (0.63)
Mass (approx.)	m	kg (lbs.)	34 (75)	47 (104)	64 (141)

1) The minimum and maximum displacement are infinitely adjustable, see ordering code, page 3.
(default settings for sizes 250 to 1000 unless specified in the order: $V_{g \min} = 0.2 \cdot V_{g \max}$, $V_{g \max} = V_{g \max}$).

2) $V_{g x} = 0.75 \times V_{g \max}$ (appr.)

3) Sizes 28 to 200: $\Delta p = 400$ bar (5800 PSI); sizes 250 to 1000: $\Delta p = 350$ bar (5100 PSI)


Caution: Exceeding the permissible limit values may result in a loss of function, a reduction in service life or in the destruction of the axial piston unit. Other permissible limit values with respect to speed variation, reduced angular acceleration as a function of the frequency and the permissible startup angular acceleration (lower than the maximum angular acceleration) can be found in data sheet RE90261.

See index Page 206 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Motors

Variable plug-in motors

A6VE

	<p>Variable motor A6VE with an axial tapered piston rotary group of bent-axis design for hydrostatic drives is available for open and closed circuits. It can be used in both mobile and stationary application areas. The wide control range enables the variable motor to satisfy the requirement for high speed and high torque. The displacement is infinitely variable from $V_{g \max}$ to $V_{g \min} = 0$. The output speed depends on the flow of the pump and the displacement of the motor. The output torque increases with the pressure differential between the high and low pressure side and with increasing displacement.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTomotors</p>
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Features

- Series 63, Size 107
- Variable plug-in motor with axial tapered piston rotary group of bent-axis design
- Open and closed circuits
- For use especially in mobile applications
- The displacement can be infinitely changed from $V_{g \max}$ to $V_{g \min} = 0$

Detailed information:

- Series 63:
RA91606

Technical Data

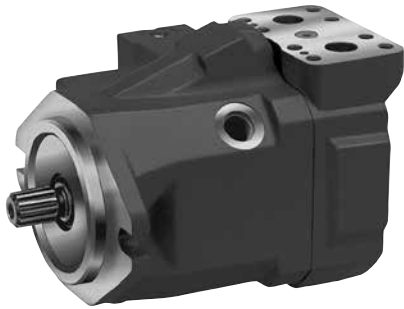
Size		107		
Nominal pressure	p_{nom}	bar (PSI)	400 (5801.6)	
Maximum pressure	p_{max}	bar (PSI)	450 (6526.8)	
Displacement geometric ¹⁾ , per revolution	$V_{g \max}$	cm ³ (in ³)	140 (8.54)	
	$V_{g \min}$	cm ³ (in ³)	0 (0)	
	$V_{g x}$	cm ³ (in ³)	68 (4.15)	
Max. speed ²⁾ (while adhering to max. permissible flow)	at $V_{g \max}$	n_{nom}	rpm	3550
	at $V_{g} < V_{g x}$	n_{max}	rpm	5600
Input flow ³⁾	at n_{nom} and $V_{g \max}$	qV_{max}	l/min (GPM)	380 (100)
Torque ⁴⁾	at $V_{g \max}$ and $\Delta p = 400$ bar (5801 PSI)	T	Nm (lb-ft)	681 (502)
	at $V_{g \max}$ and $\Delta p = 350$ bar (5076 PSI)	T	Nm (lb-ft)	596 (440)
Weight (approx.)	m	kg (lbs.)	53 (117)	

- 1) The minimum and maximum displacement are infinitely adjustable.
(standard setting for size 250 if not specified in the order: $V_{g \min} = 0.2 \cdot V_{g \max}$, $V_{g \max} = V_{g \max}$).
- 2) The values are valid:
 - for the optimum viscosity range from $\nu_{opt} = 36$ to 16 mm²/s
 - with hydraulic fluid based on mineral oils
- 3) Restriction of input flow with counterbalance valve
- 4) Torque without radial force

GoTo Focused Delivery Program: Motors

Variable displacement motors

A10VM



Variable dual displacement motor A10VM in axial swashplate design is available for both open and closed circuit applications. Output speed is directly proportional to inlet flow and inversely proportional to motor displacement and output torque increases proportional to the pressure difference between high and low pressure sides and increasing displacement. Heavy duty design allows for high output speeds, long service life, and high power to weight ratio.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Size 45 & 63
- Axial piston swashplate design
- Open and closed circuit
- High permissible output speeds

Detailed information:

- RA91703

Technical Data

Size			45	63	
Displacement	$V_{g \max}$	cm ³ (in ³)	45 (2.75)	62 (3.78)	
Speed	n_{\max}	rpm	4000	3300	
Flow	at n_{\max}	qv_{\max}	l/min (GPM)	47.5 (180)	205 (54)
Power	$\Delta p = 280$ bar (4000 psi)	p_{\max}	kW	84	95
Torque	$\Delta p = 280$ bar (4000 psi)	T_{\max}	Nm (lb/ft)	200 (146)	276 (200)
Weight (approx.)	m	kg (lbs.)	18 (39.7)	26 (57.3)	

GoTo Focused Delivery Program: Motors

Fixed displacement motors (A)A2FM



Fixed motor with axial tapered piston rotary group of bent axis design A(A)2FM, is available for hydrostatic drives in open and closed circuits. For use in mobile and stationary application areas, the output speed is dependent on the flow of the pump and the displacement of the motor. The output torque increases with the pressure differential between the high and low pressure sides. Careful selection of the displacements offered, permit sizes to be matched to practically every application.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Series 6, Sizes 16 to 180
- Fixed motor with axial tapered piston rotary group of bent axis design
- Open and closed circuits
- High power density and overall efficiency
- Compact design

Detailed information:

- Series 6:
RE91001

Technical Data

Size			16	28	32	45	56	63	
Displacement	V_g	cm ³ (in ³)	16 (0.98)	28.1 (1.71)	32 (1.95)	45.6 (2.78)	56.1 (3.42)	63 (3.84)	
Max. speed ¹⁾	n_{max}	rpm	8000	6300	6300	5600	5000	5000	
	n_{max} intermit. ¹⁾	rpm	8800	6900	6900	6200	5500	5500	
Max. flow	qV_{max}	l/min (GPM)	128 (33.9)	176 (46.6)	201 (52.2)	255 (67.4)	280 (74.0)	315 (83.1)	
Torque	$\Delta p = 5100$ PSI (350 bar)	T	Nm (lb-ft)	88 (66)	156 (115)	178 (132)	254 (188)	312 (231)	350 (259)
	$\Delta p = 5800$ PSI (400 bar)	T	Nm (lb-ft)	100 (75)	178 (131)	213 (150)	290 (213)	356 (263)	400 (295)
Weight (approx.)	m	kg (lbs.)	5.4 (12)	9.5 (21)	9.5 (21)	13.5 (30)	18 (40)	18 (40)	

Size			80	90	107	125	160	180	
Displacement	V_g	cm ³ (in ³)	4.91 (80.4)	5.49 (90)	6.51 (106.7)	7.63 (125)	9.79 (160.4)	10.98 (180)	
Max. speed ¹⁾	n_{max}	rpm	4500	4500	4000	4000	3600	3600	
	n_{max} intermit. ¹⁾	rpm	5000	5000	4400	4400	4000	4000	
Max. flow	qV_{max}	GPM (l/min)	360 (95.6)	405 (106.9)	427 (112.7)	500 (132.1)	577 (152.5)	646 (171.1)	
Torque	$\Delta p = 5100$ PSI (350 bar)	T	Nm (lb-ft)	445 (332)	501 (371)	595 (440)	697 (516)	889 (662)	1001 (742)
	$\Delta p = 5800$ PSI (400 bar)	T	Nm (lb-ft)	508 (377)	572 (422)	680 (500)	796 (587)	1016 (753)	1144 (844)
Weight (approx.)	m	kg (lbs.)	23 (51)	23 (51)	32 (71)	32 (71)	45 (99)	45 (99)	

1) Intermittent maximum speed: overspeed at discharge and over-running travel operations, $t < 5$ s and $\Delta p < 2200$ psi (150 bar)

GoTo Focused Delivery Program: Motors

Fixed displacement motors

A10FM



Fixed displacement axial piston motor A10FM in swashplate design is available for both open and closed circuit applications. For use in a wide-array of mobile and industrial applications, the well-proven A10-rotary group design boasts a high power to weight ratio along with long service life and low noise levels. The output speed is proportional to the inlet flow and torque increases with the pressure differential between the high and low pressure sides.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 23 to 63
- Axial piston swashplate design
- Open and closed circuit
- High permissible output speeds

Detailed information:

- RE91172

Technical Data

Size			23	28	37	45	58	63	
Displacement	$V_{g \max}$	cm ³ (in ³)	23.5 (1.43)	28.5 (1.73)	36.7 (2.24)	44.5 (2.71)	58 (3.53)	63.1 (3.84)	
Speed	n_{\max}	rpm	4900	4700	4200	4000	3600	3400	
Flow	at n_{\max}	qv_{\max}	l/min (GPM)	115 (30.4)	134 (35.4)	154 (40.7)	178 (47)	209 (55.2)	215 (56.8)
Power	$\Delta p = 280$ bar (4000 psi)	p_{\max}	kW	53.6	62.5	71.8	83.1	97.4	100.1
Torque	$\Delta p = 280$ bar (4000 psi)	T_{\max}	Nm (lb/ft)	105 (77.4)	127 (93.7)	163 (120)	198 (146)	258 (190)	281 (207)
Weight (approx.)	m	kg (lbs.)	12 (26.5)	12 (26.5)	17 (37.5)	17 (37.5)	22 (48.5)	22 (48.5)	

GoTo Focused Delivery Program: Motors

External gear motors AZMF



Bosch Rexroth has been involved with the design, development and manufacture of gear motors for many decades. Well-proven designs, the use of specially developed materials, constant testing and sophisticated mass production techniques ensure products of the very highest quality.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 8 to 22 cc
- High pressures with small installation space and low weight
- Wide speed ranges
- Wide viscosity and temperature ranges
- Reversible motors for 2- and 4-quadrant operation
- Plain bearings for high loads
- Consistently high quality owing to large-scale production
- Many design variants available

Detailed information:
• RA14025

Technical Data

Size		008	011	014	016	019	022
Displacement	cm ³ /rev (in ³ /rev)	8.2 (0.50)	11.3 (0.69)	14.3 (0.87)	16.5 (1.01)	19.5 (1.19)	22.9 (1.40)
Max. continuous pressure	p_1 bar (PSI)	210 (3045)	210 (3045)	210 (3045)	210 (3045)	180 (2610)	180 (2610)
Max. starting pressure	p_2 bar (PSI)	280 (4060)	280 (4060)	280 (4060)	280 (4060)	210 (3045)	210 (3045)
Min. rotational speed	p_1 min ⁻¹	500	500	500	500	500	500
Max. rotational speed		4000	3500	3000	3000	3000	3000
Motor outlet pressure Leakage-oil line pressure	p_A bar p_L (PSIA)						

*) Short-term when starting 10 bar (145 PSI)

GoTo Focused Delivery Program: Motors

Radial piston motors

MCR



The MCR radial piston motors are low-speed high-torque hydraulic motors which operate according to the multiple-stroke principle. The relationship between roll diameter and cam profile is optimized inside the central power unit. This results in the best possible balance of forces between piston and cam path and simultaneously extends the service life. The step-piston power unit or high-displacement power unit yields a very compact drive unit with high power density. MCR motors can be used both in open as well as in closed circuits.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Sizes 365, 400, 820
- Compact, robust design
- Uniform concentric running, even at very low speeds
- Reversible
- High Radial forces permissible on the output shaft
- Sealed tapered roller bearing

Detailed information:

- MCR 03:
RE15205
- MCR 05:
RE15206

Technical Data

Frame Size 3	Size		365	400
Swept Volume	$V_{g \max}$	cm ³	365	400
Torque	T_{\max}	Nm	2105	2307
Speed, intermittent	n_{\max}	rpm	280	260
Pressure Difference	Δp_{\max}	bar	400	400
Weight	m	kg	20	20

Frame Size 5	Size		820
Swept Volume	$V_{g \max}$	cm ³	820
Torque	T_{\max}	Nm	4860
Speed, intermittent	n_{\max}	rpm	220
Pressure Difference	Δp_{\max}	bar	400
Weight	m	kg	39

See index Page 208 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Motors

High torque vane motors

Rineer MV015 Series



Bosch Rexroth Rineer MV015 Series Hydraulic Vane Motors provide high torque at start & stall, medium speed, and reliability in demanding applications. The patented Vane-Crossing-Vane design allows for high power-to-weight ratio, improved mechanical & volumetric efficiency. The rotating group is hydraulically balanced internally, resulting in no significant loads induced on the motor bearings which contribute to long service life. A variety of displacements & configurations are available on the GoTo Program.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Patented Vane-Crossing-Vane design
- High torque at start & stall
- Speed to 2000 rpm continuous & 2600 rpm intermittent
- Operating pressure to 207 bar continuous
- Can conform to SAE C mounting specification
- High power-to-weight ratio
- Reliability in heavy duty & demanding applications
- Variety of displacements

Detailed information:

- RA10540

Technical Data

Code 61 Series	Displacement cm ³ /rev (in ³ /rev)	Pressure		Speed		Torque @ 207 bar
		Continuous bar (psi)	Intermittent bar (psi)	Continuous (rpm)	Intermittent (rpm)	Continuous Nm (lb-ft)
R986V00875	213 (13)	207 (3000)	241 (3500)	1500	2000	580 (428)
R986V00894	246 (15)	207 (3000)	241 (3500)	1500	2000	690 (509)
R986V00905	246 (15)	207 (3000)	241 (3500)	1500	2000	690 (509)
R986V00909	246 (15)	207 (3000)	241 (3500)	1500	2000	690 (509)
R986V00941	98 (6)	207 (3000)	241 (3500)	2000	2600	248 (183)
R986V00974	131 (8)	207 (3000)	241 (3500)	1800	2600	372 (274)
R986V00983	156 (9.5)	207 (3000)	241 (3500)	1700	2300	418 (308)

GoTo Focused Delivery Program: Motors

High torque vane motors

Rineer MV037 Series



Bosch Rexroth Rineer MV037 Series Hydraulic Vane Motors provide high torque at start & stall, medium speed, and reliability in demanding applications. The patented Vane-Crossing-Vane design allows for high power-to-weight ratio, improved mechanical & volumetric efficiency. The rotating group is hydraulically balanced internally, resulting in no significant loads induced on the motor bearings which contribute to long service life. A variety of displacements & configurations are available on the GoTo Program.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomotors

Features

- Patented Vane-Crossing-Vane design
 - High torque at start & stall
 - Speed to 1000 rpm continuous & 1200 rpm intermittent
 - Operating pressure to 310 bar continuous
 - Can conform to SAE D mounting specification
 - High power-to-weight ratio
 - Reliability in heavy duty & demanding applications
 - Variety of displacements
- Detailed information:**
- RA10550

Technical Data

Code 61 Series	Displacement cm ³ /rev (in ³ /rev)	Pressure		Speed		Torque @ 207 bar
		Continuous bar (PSI)	Intermittent bar (PSI)	Continuous (rpm)	Intermittent (rpm)	Continuous Nm (lb-ft)
R986V00435	328 (20)	207 (3000)	241 (3500)	1000	1200	979 (722)
R986V00441	328 (20)	207 (3000)	241 (3500)	1000	1200	979 (722)
R986V00451	426 (26)	207 (3000)	241 (3500)	800	1000	1247 (920)
R986V00452	426 (26)	207 (3000)	241 (3500)	800	1000	1247 (920)
R986V00454	426 (26)	207 (3000)	241 (3500)	800	1000	1247 (920)
R986V00469	524 (32)	207 (3000)	241 (3500)	700	950	1550 (1143)
Code 62 Series						
R986V00693	328 (20)	310 (4500)	345 (5000)	1000	1200	1497 (1104)
R986V00696	328 (20)	310 (4500)	345 (5000)	1000	1200	1497 (1104)
R986V00697	328 (20)	310 (4500)	345 (5000)	1000	1200	1497 (1104)

GoTo Focused Delivery Program: Check Valves

Check valves

S



S model check valves are direct operated, line contact seat, guided poppet check valves. Guided poppets vs a “ball” provide more stable operation, more assurance for a line contact seat, and reductions in flow noise. The line contact seat is an interference fit where the seat areas are at slight differential angles to permit a true line contact seat vs a matched mating surface.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10 to 30
- For threaded connection
- Leak-free isolation in one direction
- Port connection: SAE 8 – SAE 24

Detailed information:
• RE20375

Technical Data

General					
Size		10	15	25	30
Weight	kg (lbs)	0.3 (0.66)	0.5 (1.1)	2.0 (4.4)	2.5 (5.5)
Hydraulic					
Maximum operating pressure	bar (PSI)	315 (4600)			
Opening pressure		See characteristic curves in data sheet RE20375			
Maximum flow		See characteristic curves in data sheet RE20375			
Hydraulic fluid		Mineral oil (HL, HLP) according to DIN 51524; Fast bio-degradable hydraulic fluids according to VDMA 24568 (see also RE90221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic esters); other hydraulic fluids on inquiry			
Hydraulic fluid temperature range	°C (°F)	-30 to +80 (-22 to +176)			
Viscosity range	mm ² /s (SUS)	2.8 to 500 (12.99 to 2317)			
Max. permissible degree of contamination of the hydraulic fluid, cleanliness class to ISO 4406 (c)		Class 20/18/15 ¹⁾			

GoTo Focused Delivery Program: Check Valves

Check valves, cartridge type

M-SR



M-SR check valves are cartridge assemblies for use in manifold applications. Flow capacities of 8 GPM – 106 GPM over six cartridge sizes permit a broad application potential. Both the right angle version “KE” or straight through version “KD” feature guided poppets with varying biasing spring options. M-SR check valves can be secured in a manifold utilizing a BSP or SAE plug (pressure limits applicable). The cavity is a relatively straight bore, therefore complicated tooling is not required.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10 to 30
- For block installations:
 - Right-angled valve (“KE”)
 - Straight valve (“KD”)
- Leak-free isolation in one direction
- Plug screw with pipe thread or metric ISO thread
- Various cracking pressures

Detailed information:

- RE20380

Technical Data

Size	8	10	15	25	30
Operating pressure p_{\max} bar (PSI)	315 (4600)	315 (4600)	315 (4600)	315 (4600)	315 (4600)
Cracking pressure bar (PSI)	Without spring: 0.2 (2.90); 0.5 (7.25); 1.5 (21.76); 3.0 (43.51); 5.0 (72.52)				
Flow “KE” $q_{V \max}$ l/min (GPM)	35 (9.20)	50 (13.21)	120 (31.70)	300 (79.25)	400 (105.67)
“KD” $q_{V \max}$ l/min (GPM)	35 (9.20)	50 (13.21)	120 (31.70)	300 (79.25)	400 (105.67)

GoTo Focused Delivery Program: Check Valves

Filling valve – sandwich plate

ZSF



The valve type ZSF is a pilot operated check valve in sandwich plate design. It is used for the leakage-free isolation of pressurized working circuits (e.g. pressing cylinders). Due to its favorable flow characteristics and the low cracking pressure of the main poppet, it is particularly suitable on presses.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 32 to 200
- Pilot operated check valve in sandwich plate design
- With or without pre-opening, optional
- Control by built-on directional spool valve or directional seat valve, optional
- Integrated high-pressure connection (size 32 to 160)
- Integrated throttle check valve (size 200)

Detailed information:

- RE20478

Technical Data

Size			30
Maximum operating pressure	– Port B, P	bar (PSI)	350 (5100)
	– Port X	bar (PSI)	150 (2175)
	– Port A	bar (PSI)	16 (232)
Control pressure		bar (PSI)	~0.12 (~1.74)

GoTo Focused Delivery Program: Check Valves

Check valve, hydraulically pilot operated SV & SL



The SV and SL valves are hydraulic pilot operated check valves of poppet type design which may be opened to permit flow in the reverse direction. These valves are used for the isolation of operating circuits which are under pressure, i.e. as a safe guard against the lowering of a load when a line break occurs or against creeping movement of hydraulically locked actuators. The valve basically comprises of the housing, the poppet, a compression spring, the control spool as well as optional decompression feature as a ball poppet valve.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10 to 30
- For subplate mounting
- Connection location to ISO 5781
- With internal SV or external SL pilot oil drain
- With or without decompression feature, optional
- Version with decompression feature for dampened decompression (minimizing possible pressure shocks)

Detailed information:

- RE21468


Technical Data

Size	10	20	30
Maximum operating pressure p_{max} bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Control pressure bar (PSI)	5 to 315 (72.5 to 4600)	5 to 315 (72.5 to 4600)	5 to 315 (72.5 to 4600)

GoTo Focused Delivery Program: Check Valves

Check valves – sandwich module design

Z1S

	<p>Valve type Z1S is a direct operated check valve of sandwich plate design. They provide line contact closure in one direction and allows free flow in the opposite direction. The check function can be in one of several ports, or dual ports. The check function orientation can also be defined by model coding.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTocheck</p>
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Features

- Size 6 and 10
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Various isolating functions
- Various cracking pressures
- Check valve made of carbon fiber-reinforced plastic
- Excellent compatibility with various hydraulic fluids

Detailed information:

- Size 6: RE21534
- Size 10: RE21537

Technical Data

Size	6		10	
Operating pressure p_{max} bar (PSI)	350 (5100)		315 (4600)	
Cracking pressure bar (PSI)	0.5 (7.25), 1.5 (21.75), 3.0 (43.5), 5.0 (72.5)		0.5 (7.25), 3.0 (43.5), 5.0 (72.5)	
Flow qV_{max} l/min (GPM)	40 (10.6)		100 (26.4)	

GoTo Focused Delivery Program: Check Valves

Piloted-to-open check valves – sandwich module Z2S



Models Z2S are pilot operated check valves in a sandwich plate design. They provide line contact closure in one or two actuator ports, even during idle periods. Piloted to open, utilizing a pressure signal from the opposite actuator port provides a self-contained function.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 6 to 22
- Porting pattern according to ISO 4401-3, 5, 7, 8; NFPA T3.5.1M R1, and ANSI B93.7 D 03, D 05, D 07, D 08
- For the leak-free isolation of one or two actuator ports
- Various cracking pressures

Detailed information:

- Size 6: RE21548
- Size 10: RE21553
- Size 16: RE21558
- Size 22: RE21564

Technical Data

Size	6	10	16	22
Component series	6X	3X	5X	5X
Operating pressure p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Cracking pressure	bar (PSI)	1.5, 3, 7 (22, 42, 102)	1.5, 3, 6, 10 (22, 42, 87, 145)	3, 5, 7.5, 10 (42, 92.5, 109, 145)
Flow qV_{max}	l/min (GPM)	60 (15.9)	120 (31.7)	300 (79.3)

GoTo Focused Delivery Program: Check Valves

Pilot operated check valves – sandwich module Z2SRK



Models Z2SRK are pilot operated check valves in a sandwich plate design. They provide line contact closure in one or two actuator ports, even during idle periods. Piloted to open, utilizing a pressure signal from the opposite actuator port provides a self-contained function. The Z2SRK has a maximum operating pressure of 3000 PSI.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sandwich plate valve
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1 and ANSI B93.7 D 03
- For the leak-free closure of two actuator ports

Detailed information:

- Size 6: RE21543
- Size 10: RE21549

Technical Data

Size			6	10
Operating pressure	p_{max}	bar (PSI)	210 (3100)	210 (3100)
Flow	qV_{max}	l/min (GPM)	40 (10.6)	80 (21.1)

GoTo Focused Delivery Program: Directional Valves

Directional poppet valves, direct operated, solenoid actuation SED & SEW



Directional control valves, model SED and SEW, are direct (SED) or lever (SEW) actuated directional poppet valves with solenoid actuation. They control the start, stop, and direction of fluid flow. Poppet valves, or seat valves, provide a line contact closure for applications where spool valve leakage or silting is not desirable.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Size 6 and 10
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Blocked port is leak-free when completely shifted
- Solenoids with detachable coil
- Pressure-tight chamber does not have to be opened for changing the coil (type SED)
- Reliable switching when under pressure over longer periods of standstill

Detailed information:

Size 6:

- SED: RE22049
- SEW: RE22058

Size 10:

- SED: RE22045
- SEW: RE22075


Technical Data

Type SED				
Size			6	10
Operating pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)
Flow	qV_{max}	l/min (GPM)	25 (6.6)	40 (10.6)

Type SEW				
Size			6	10
Operating pressure	p_{max}	bar (PSI)	420/630 (6100/9100)	420/630 (6100/9100)
Flow	qV_{max}	l/min (GPM)	25 (6.6)	40 (10.6)

GoTo Focused Delivery Program: Directional Valves

Directional spool valves, direct operated with manual actuation 4WMM & 4WMR



Directional valves type WMM are lever operated directional spool valves. They control the start, stop, and direction of a flow. These directional valves basically consist of housing; lever; control spool; return springs. A full array of spools are possible with variations for detented operation on both 2-position or 3-position functions. Flow and pressure rates from 4000 PSI to 5000 PSI and 16 GPM to 32 GPM cover a wide range of applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Size 6 and 10
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Operation by means of manual lever or roller/plunger

Detailed information:

- Size 6: RE22280
- Size 10: RE22331

Technical Data

Size			6	10
Operating pressure	p_{max}	bar (PSI)	350 (5100)	315 (4600)
Flow	$q_{V max}$	l/min (GPM)	60 (16)	120 (32)

GoTo Focused Delivery Program: Directional Valves

Directional valves with fluid actuation WP & WH



Valves of type WP and WH are directional spool valves with fluid actuation. They control the start, stop, and direction of flow. A full array of spools are available for both the WH and WP operator.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Size 6
- Direct operated directional spool valve
- Types of actuation:
 - Pneumatic (WP)
 - Hydraulic (WH)
- Porting pattern according to DIN 24340 form A (**without** locating hole)
- Porting pattern according to ISO 4401-03-02-0-05 and NFPA T3.5.1 R2-2002 D03 (**with** locating hole)

Detailed information:

- RE22282

Technical Data

Size			6X (WP)	5X (WH)
Maximum operating pressure	p_{\max}	bar (PSI)	315 (4600)	315 (4600)
Flow	$q_{v \text{ nom}}$	l/min (GPM)	60 (15.8)	60 (15.8)

GoTo Focused Delivery Program: Directional Valves

Directional spool valves, direct operated with solenoid actuation WE



Directional valves type WE are solenoid operated directional spool valves. They control the start, stop, and direction of a flow. These directional valves basically consist of housing; one or two solenoids; control spool; and no, one, or two return springs. A full array of spools are possible with variations in voltage and electrical connection, all within the program. Flow and pressure rates from 4000 PSI to 5000 PSI and 21 GPM to 32 GPM cover a wide range of applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 6 to 10
- For subplate mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Wet-pin AC or DC solenoids
- Solenoids with detachable coil
- Electrical connection as individual or central connection
- Optional spool position monitoring (RE24830)
- Smooth switching characteristics ³⁾

Detailed information:

- Size 6: RE23178 ²⁾
- Size 10: RA23183 ³⁾
RE23327 ⁵⁾
RE23351 ⁶⁾

Technical Data

Size			6			
Version			1)	2)	3)	4)
Operating pressure	p_{max}	bar (PSI)	315 (4600)	350 (5100)	350 (5100)	315 (4600)
Flow	$q_{v nom}$	l/min (GPM)	60 (15.8)	80 (21)	60 (15.8)	60 (15.8)

Size			10		
Version			3)	5)	6)
Operating pressure	p_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Flow	$q_{v nom}$	l/min (GPM)	100 (26.4)	120 (32)	120 (32)

- 1) Standard valve, size 6 (DC solenoid only)
- 2) Heavy duty valve
- 3) Soft switch valves
- 4) Reduced electrical power consumption
- 5) Standard valve, size 10
- 6) 5-chamber version (DC solenoid only)

"=AN": solenoid identity is to ANSI guidelines, wherein "A" solenoid energized produces flow from "P→A"

"SO 407": indicates the solenoid power consumption is 8 watts

"K72L": defines an M12 molded electrical connection on each solenoid vs a single connection to a conduit/central box arrangement

See index Pages 211–223 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Directional Valves

Directional spool valves, pilot operated with solenoid actuation 4WEH



Directional valves type WEH are solenoid operated directional spool valves. They control the start, stop, and direction of a flow. These pilot operated directional valves consist of a pilot control valve and main stage with spring or hydraulic centering options. Additionally, the pilot and drain configuration may be selected. A full array of spools are possible with variations in voltage and electrical connection, all within the program. Flow and pressure rates from 4000 PSI to 5000 PSI and 42 GPM to 120 GPM cover a wide range of applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 10 to 22
- Porting pattern according to DIN 24340 form A and ISO 4401-5, 7, 8; NFPA T3.5.1M R1, and ANSI B93.7 D 05, D 07, D 08
- Wet-pin AC or DC solenoids
- Spring and/or pressure return of the main spool to its initial position
- Spring centering (size 10, 16 & 25)
- Spring or pressure centering (sizes 16 & 25)
- Electrical connection as individual connection or central connection
- Optional switching time adjustment
- Stroke limitation of the main spool, optional

Detailed information:

- RE24751

Technical Data

Size			10	16	22
Operating pressure	p_{\max}	bar (PSI)	350/280 (5100/4060)	350/280 (5100/4060)	350/280 (5100/4060)
Flow	$q_{V \max}$	l/min (GPM)	160 (42.3)	300 (79.3)	450 (118.9)

GoTo Focused Delivery Program: Directional Valves

Directional shut-off valves, internally pilot operated, externally pilot operated

Z4WEH



Valve type Z4WEH are directional spool valves with electrohydraulic actuation. They control the start and stop of a flow, and function as an emergency on-off isolating valve or on-off isolating/bypass valve, primarily used for servo/proportional systems.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 10
- Directional spool valve, pilot operated
- 2 types of actuation:
 - Electrohydraulic (type WEH)
 - Hydraulic (type WH) – available
- Function as shut-off through-valve or shut-off/through valve/short-circuit valve
- Free flow in P and T in every spool position
- Porting pattern to ISO 4401-05-04-0-05
- Wet-pin DC or AC voltage solenoids, optional
- Manual override, optional
- Electrical connection as individual or central connection
- Switching time adjustment, optional
- Stroke adjustment of main spool, optional
- Inductive position switch and proximity sensors

Detailed information:
• RE24753

Technical Data

Size	10		
Maximum operating pressure	p_{max}	bar (PSI)	315 (4600)
Flow	$q_{V max}$	l/min (GPM)	160 (42)

GoTo Focused Delivery Program: Directional Valves

Logic valves for direction functions

LC + LFA



Logic valves consist of a cartridge (LC) and cover (LFA) which are ordered separately. The directional valve cartridges have area ratios to suit application needs. LC..A has a 50% or (2:1) area ratio. LC..B has a 7% (14.3:1) area ratio. Cracking pressure is determined by spring code (ex: 00 = no spring, 10 = 1 bar). The LC without damping nose has option E. The LC with damping nose has option D. The LFA for direction functions have many configurations (D, WEA, GWA, KWA) with various options. When the cover accepts a directional pilot valve, this (4WE6, SEW, SED) must be specified separately. The standard LFA includes metric fasteners.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 16, 25, 32, 40, 50
- Mounting cavity and connections to DIN ISO 7368
- LC has 2 area ratios, various springs, optional damping nose
- Control cover with remote control port
- Control cover for mounting directional spool or poppet valve

Detailed information:
 • RE21010 (LC..A, B)

Technical Data

Size		16	25	32	40	50
Maximum pressure without directional valve	bar	420				
Maximum pressure ports A, B, X, Z1, Z2**	bar	315, 350, 420 (according to build-on)				
Maximum pressure ports Y**	bar	(according to build-on)				
Max. Flow @10 bar delta-p (w/o damping nose)*	Lpm	320	800	1300	2200	2800
Max. Flow @10 bar delta-p (with damping nose)*	Lpm	300	600	1000	1750	2300

* see flow curves on data sheet

** pressure according to built-on valve (WE, SEW, SED)

GoTo Focused Delivery Program: Directional Valves

Logic valves for pressure functions

LC + LFA



Logic valves consist of a cartridge (LC) and cover (LFA) which are ordered separately. The LC..DB is a pressure relief cartridge. Cracking pressure is determined by spring code (ex: 40 = 4 bar). The LC without damping nose has option E. The LC with damping nose has option D. The LFA for pressure functions have many configuration. LFA..DB includes a manual relief valve. LFA..DBEM has mounting provision for a proportional relief valve. The standard LFA includes metric fasteners.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTodirectional

Features

- Sizes 16, 25, 32, 40
- Mounting cavity and connections to DIN ISO 7368
- LC has optional damping nose
- Control cover with DB relief cartridge
- Control cover for mounting DBET proportional relief valve

Detailed information:

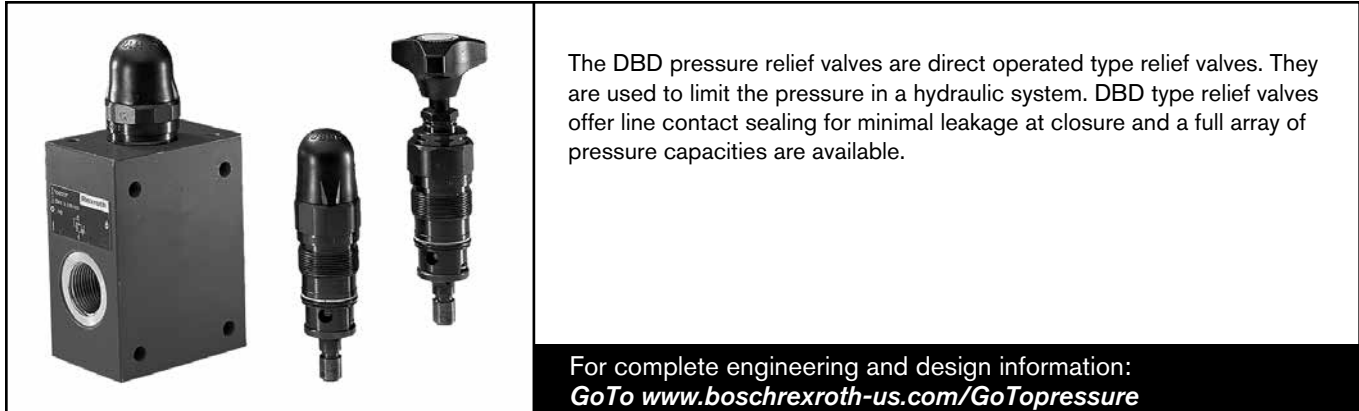
- RA21050 (LC..DB)

Technical Data

Size		16	25	32	40
Maximum pressure LC without pilot valve	bar	420			
Pressure limit, determined by pilot valve	bar	50, 100, 200, 315, 350, 420			
Maximum Flow (w/o damping nose E)	Lpm	300	450	600	1000
Maximum Flow (with damping nose D)	Lpm	175	300	450	700

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valves, direct operated DBD



Features

- Sizes 6 to 20
- For threaded connection ("G")
- As cartridge valve ("K")
- Optional adjustment types:
 - Screw with hexagon socket and protective cap
 - Rotary knob / hand wheel

Detailed information:

- RE25402


Technical Data

Size		6	10	20
Version		"G, K"	"G, K"	"G, K"
Operating pressure	p_{\max} bar (PSI)	100 (1450) 400 (5800)	100 (1450) 630 (9150)	400 (5800)
Flow	$q_{V \max}$ l/min (GPM)	50 (13)	120 (32)	250 (66)
Version "G" port size	SAE	-4; 7/16-20	-8; 3/4-16	-16; 1-5/8-12

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valves

DZT

	<p>Type DZT pressure relief valves are seat design remote control valves and allow for the limitation of the system pressure. These valves are basically used as pilot control valves for the indirect control of major flow</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTopressure</p>
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Features

- Sizes 6
- Directly operated valve for the limitation of the system pressure
- Application as pilot control valve
- For plate and control panel mounting

Detailed information:
 • RE25724

Technical Data

Size			6
Maximum operating pressure	p_{max}	bar (PSI)	350 (5100)
Maximum flow	qV_{max}	l/min (GPM)	3 (0.79)

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valves – sandwich module, pilot operated

ZDB(K) & Z2DB



Pressure relief valve types ZDB(K) und Z2DB are pilot sandwich type pressure controls. ZDB versions offer single port pressure control, while Z2DB models offer dual port pressure control. Z2DB models can be configured as either port relief or cross port relief. The ZDB program offers multiple spring options.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToPressure

Features

- Sizes 6
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D05
- Four pressure ratings: 50 bar (725 PSI), 100 bar (1450 PSI), 200 bar (2900 PSI), and 315 bar (4600 PSI)
- Five pressure relief functions:
 - A → T; P → T; B → T; A → T as well as A+B → T; A → B and B → A
- Adjustment type:
 - Hex screw with protective cap

Detailed information:

- Size 6
ZDB & Z2DB:
RE25751
Size 10
ZDB & Z2DB:
RE25761
- Size 6
ZDBK:
RE25754

Technical Data

ZDB & Z2DB			Size	6	10
Operating pressure	p_{max}	bar (PSI)		315 (4600)	350 (4600)
Flow	qV_{max}	l/min (GPM)		60 (15.9)	100 (26.4)

ZDBK			Size	6	10
Operating pressure	p_{max}	bar (PSI)		210 (3000)	210 (3000)
Flow	qV_{max}	l/min (GPM)		40 (10.5)	80 (21)

GoTo Focused Delivery Program: Pressure Control Valves

Pressure relief valve, pilot operated DB & DBW



Pressure control valves of type DB are pilot operated pressure relief valves. They are used for the limitation of the operating pressure. Pressure relief valves basically consist of a main valve with main spool insert and pilot valve with pressure adjustment element.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 10, 20, & 30
- For mounting:
 - – Porting pattern according to ISO 6264-AT-10-2-A

Detailed information:

- RE25802

Technical Data

Size			10	20	30
Operating pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)
Flow	$q_{V max}$	l/min (GPM)	250 (66)	500 (132)	650 (172)

GoTo Focused Delivery Program: Pressure Control Valves

Pressure reducing valve, direct operated

DR



The valve type DR 6 DP is a direct operated pressure reducing valve in 3-way design, i.e. with pressure limitation of the secondary circuit.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- For subplate mounting
- Porting pattern according to DIN 24340 form A
- Porting pattern according to ISO 4401-03-02-0-05 and NFPA T3.5.1 R2-2002 D03 (with locating hole)
- 4 adjustment types for pressure adjustment, optionally:
 - Rotary knob
 - Hex screw with protective cap
 - Lockable rotary knob with scale
 - Rotary knob with scale
- 5 pressure ratings
- Check valve, optional

Detailed information:

- RE26564

Technical Data

DR			
Weight		kg (lbs)	1.2 (2.64)
Ambient temperature range		°C (°F)	-30 to +80 (-22 to +176) [NBR seals] -20 to +80 (-4 to +176) [FKM seals]
Maximum operating pressure	– Port P	bar (PSI)	315 (4600)
Maximum secondary pressure	– Port A	bar (PSI)	150 (2175)
Maximum backpressure	– Port T (Y)	bar (PSI)	160 (2300)
Maximum flow		l/min (GPM)	60 (15.9)

See index Page 227 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Pressure Control Valves

Pressure-reducing valves – sandwich module, direct operated ZDR



Models ZDR are 3-way direct operated pressure reducing-relieving valves. They maintain a “reduced” pressure in a branch circuit and permit “relieving” pressure spike occurrences in the reduced branch circuit. Options for pressure ranges and operator adjustment options are within the scope of the modular reducing valve portfolio.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6 and 10
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M Ra, and ANSI B93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-05, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Pressure reduction in channel A, B or P
- Four pressure ratings:
 - 25 bar (360 PSI), 75 bar (1100 PSI), 150 bar (2175 PSI), 210 bar (3050 PSI)
- Adjustment type:
 - Hex screw with protective cap
- Check valve, optional

Detailed information:

- ZDR
- Size 6:
RE26570
 - Size 10:
RE26585
RA26861

Technical Data

ZDR	Size	6	10
Component series		4X	5X
Operating pressure	p_{max} bar (PSI)	210 (3050)	210 (3050)
Flow	qV_{max} l/min (GPM)	50 (13.2)	80 (21.1)

GoTo Focused Delivery Program: Pressure Control Valves

Pressure-reducing valves – sandwich module, direct operated ZDRK



Models ZDRK are 3-way direct operated pressure reducing-relieving valves. They maintain a “reduced” pressure in a branch circuit and permit “relieving” pressure spike occurrences in the reduced branch circuit. Options for pressure ranges and operator adjustment options are within the scope of the modular reducing valve portfolio.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopressure

Features

- Sizes 6
- Sandwich plate valve
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M Ra, and ANSI B93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-05, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Pressure reduction in P1
- Pressure gauge connection port
- Adjustment type:
 - Hex screw with protective cap

Detailed information:


- ZDRK
- RA26572

Technical Data

ZDRK	Size	6
Component series		1X
Maximum operating pressure	p_{max} bar (PSI)	210 (3050)
Maximum secondary pressure	bar (PSI)	100 (1450)
Maximum back pressure	bar (PSI)	160 (2300)
Flow	qV_{max} l/min (GPM)	40 (10.5)

GoTo Focused Delivery Program: Pressure Control Valves

Pressure-reducing valves – pilot operated ZDRY

	<p>Type ZDRY pressure valves are pilot operated 3-way pressure reducing valves in modular design, with pressure safeguard for the secondary circuit.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoToPressure</p>
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Features

- Size 10
- For mounting:
 - Porting pattern according to ISO 4401-05-04-0-05
- Adjustment method:
 - Sleeve with hexagon socket
 - Rotary knob, lockable, with scale

Detailed information:
• RE26868

Technical Data

ZDRK		Size	10
Operating pressure	p_{max}	bar (psi)	315 (4600)
Flow	qv_{max}	L/min (GPM)	120 (31.7)
Viscosity range		cSt	10...500
Fluid temperature range		°C (°F)	-20 to 80 (-4 to 176)

GoTo Focused Delivery Program: Flow Control Valves

Throttle valves and throttle check valves

MG



Valve model MG is a pressure and viscosity dependent throttle valve. Model MG (throttle valve) throttles in both flow directions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocheck

Features

- Sizes 10
- For in-line installation
- Related to pressure and viscosity
- Throttling in both directions of flow

Detailed information:

- RA27219

Technical Data

Size	10		
Operating pressure	p_{max}	bar (PSI)	315 (4600)
Flow	qV_{max}	l/min (GPM)	50 (13.21)

GoTo Focused Delivery Program: Flow Control Valves

Double throttle check valves – sandwich module Z2FS(K)



Flow control valves, Model Z2FS(K), are double throttle/check sandwich type valves. They restrict flow to or from actuator ports (A & B) of a directional valve. Two throttle/check valves, symmetrically arranged in the housing, restrict flow with adjustable throttles in one direction while providing free flow in the opposite direction.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToflow

Features

- Sizes 6 to 22
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
 - Size 16: Porting pattern according to ISO 4401-7, NFPA T3.5.1M R1, and ANSI B93.7 D 07
 - Size 22: Porting pattern according to ISO 4401-8, NFPA T3.5.1M R1, and ANSI B93.7 D 08
- For limiting the main or pilot flow of one or two actuators
- Meter-in or meter-out throttling
- Adjustment type:
 - Softscrew with locknut

Detailed information:

- Z2FS Size 6: RA27506
- Z2FSK Size 6: RE27510
- Z2FS Size 10: RE27518
- Z2FSK Size 10: RA27524
- Z2FS Size 16: RE27526
- Z2FS Size 22: RE27536

Technical Data

Z2FS	Size	6	10	16	22
Operating pressure	p_{max} bar (PSI)	315 (4600)	315 (4600)	350 (5100)	350 (5100)
Flow	$q_{v nom}$ l/min (GPM)	80 (21)	160 (42)	250 (66)	360 (95)

Z2FSK	Size	6	10
Operating pressure	p_{max} bar (PSI)	210 (3000)	210 (3000)
Flow	$q_{v nom}$ l/min (GPM)	40 (10.5)	80 (21)

GoTo Focused Delivery Program: Flow Control Valves

2-way flow control valves, pressure compensated

2FRM



Pressure compensated flow controls Model 2FRM are two-way restrictive-style flow regulators. They accurately control flow, independent of changes in fluid viscosity or pressure drop across the valve. This valve maintains a constant actuator speed independent of changes in load induced pressure. Sharp edged throttle openings reduce the influence of flow variations from temperature change.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToflow

Features

- Sizes 6, 10, and 16
- For subplate mounting:
 - Size 6: Porting pattern according to ISO 6263-03 and NFPA T3.5.1M R1 2 FO 3
 - Size 10: Porting pattern according to ISO 6263-06-2 and NFPA T3.5.1M R1 2 FO 6
 - Size 16: Porting pattern according to ISO 6263-07-2 and NFPA T3.5.1M R1 2 FO 7
- Manual dial adjustment
- With external closure of the pressure compensator, optional (size 6)
- Check valve, optional (size 6)
- Pressure compensator stroke limitation for reducing start-up jumps, optional (size 10)

Detailed information:

- Size 6: RE28163
- Size 10 & 16: RA28389

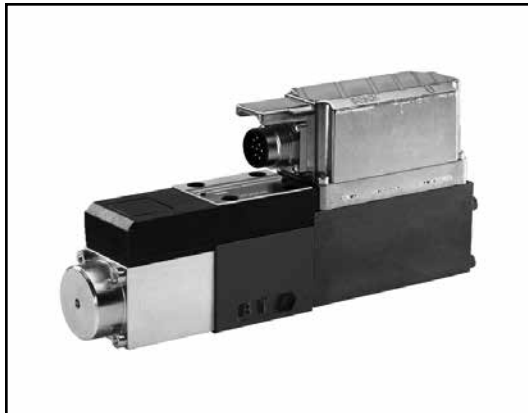
Technical Data

Size			6	10	16
Operating pressure ¹⁾	P_{max}	bar (PSI)	315 (4600)	315 (4600)	315 (4600)
Pilot pressure	p_{St}	bar (PSI)	–	315 (4600)	315 (4600)
Flow	$q_{V max}$	l/min (GPM)	32 (8.45)	50 (13.21)	160 (42.27)

GoTo Focused Delivery Program: Proportional Valves

Proportional directional valves, direct operated with electrical position feedback

4WRP & 4WRPE



The 4/2 and 4/3 proportional valves are directly controlled components of subplate mounting design. They are actuated by proportional solenoids with an integrated linear feedback to assure accurate positioning related to a command signal. The valves are available with either external control electronics (model WRP) or by integrated valve electronics (model WRPE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 and 10
- For subplate mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Actuation through control solenoid
- Position sensing of the control spool via an inductive position transducer
- Series with/without integrated electronics
- Characteristic curves with and without inflection

Detailed information:

- RE29020
- RE29025

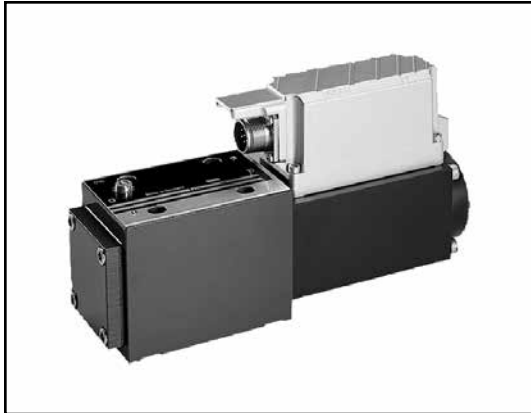
Technical Data

Size				6	10
Operating pressure	Ports P, A, B	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Flow		$q_{V max}$	l/min (GPM)	40 (10.57)	100 (26.42)
Maximum hysteresis			%	≤0.2	≤0.2
Actuating time	0 to 100 %		ms	12	25
Operating voltage	OBE	U	V	24	24
Comm. value signal	OBE	U	V	0 to 10/±10	0 to 10/±10
		I	mA	4 to 20	4 to 20
Control electronics	Type 4WRP...EA		Card, analog	VT-VRPA1-527...QV	VT-VRPA1-537...QV
	Type 4WRP...E...W		Card, analog	VT-VRPA2-527	VT-VRPA2-537

GoTo Focused Delivery Program: Proportional Valves

High-response directional valves, direct operated with electrical position feedback

4WRPH & 4WRPEH



4WRPH and 4WRPEH type proportional directional valves offer fast response, minimal hysteresis, and are excellent performers in closed loop applications. Available with or without on-board electronics, these valves may be used in a variety of applications and environments. The robust design is also applicable to circuits where vibration may be a concern.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 and 10
- For subplate mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Use for position, velocity and pressure control
- Actuation through control solenoid
- Position sensing of the control spool via an inductive position transducer
- Characteristic curves with and without inflection
- Spool and sleeve in servo-type quality
- Integral electronics (OBE) for type 4WRPEH

Detailed information:

- Size 6
- Model 4WRPH: RE29028
 - Model 4WRPEH: RE29035
- Size 10
- Model 4WRPH: RE29032
 - Model 4WRPEH: RE29037

Technical Data

Size				6	10
Operating pressure		p_{\max}	bar (PSI)	315 (4500)	315 (4500)
Nominal flow	$\Delta p = 70 \text{ bar (1000 PSI)}$	$q_{V \text{ nom}}$	l/min (GPM)	2 to 40 (0.5 to 11)	50 to 100 (13 to 26)
Maximum hysteresis			%	<0.2	<0.2
Frequency	Phase response: -90°	f	Hz	120	60
Operating voltage	OBE	U	V	24	24
Comm. value signal	OBE	U	V	0 to 10 / ± 10	0 to 10 / ± 10
		I	mA	4 to 20	4 to 20
Control electronics	Type 4WRPH		Card, analog	VT-VRRA1-527	VT-VRRA1-537

See index Pages 229–230 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

High-response directional control valves, direct operated with electrical position feedback and OBE

4WRREH



4WRREH type proportional directional valves offer fast response and minimal hysteresis with control electronics integrated into the valve. In the case of control deviations, the double-stroke solenoid is activated which adjusts the control spool by means of changed solenoid force. For use in electrohydraulic controls in production and test systems.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- For subplate mounting
 - Porting pattern according to ISO 4401-03-02-0-05
- Gate valve, directly operated, with steel sleeve
- Actuation through proportional double-stroke solenoid with position control
- Spool and sleeve in servo quality

Detailed information:
• RE29041

Technical Data

Size			6
Operating pressure	p_{max}	bar (psi)	315 (4500)
Nominal flow	$\Delta p = 70 \text{ bar}$	$q_{v \text{ nom}}$ L/min (GPM)	4 to 40 (1 to 11)
Maximum hysteresis		%	≤ 0.2
Frequency	Phase response: -90°	f Hz	250
Operating voltage	OBE	U V	24
Actual value signal	OBE	$LVDT$ V	± 10
		I mA	up to 20

GoTo Focused Delivery Program: Proportional Valves

Proportional directional valve, direct operated without electrical feedback

4WRA & 4WRAE



The WRA(E) direct operated proportional valve without integral feedback is available with or without on-board electronics (OBE). Individual valve amplifiers are available for the non-OBE version. Postive overlap spools reduce leakage at center and OBE models can be configured to either a voltage or current command.

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 6 and 10
- For subplate mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Spring-centered control spool
- Different spool overlaps possible
- Integral electronics (OBE) for type 4WRAE

Detailed information:

- RE29055

Technical Data

Size			6	10	
Operating pressure	Ports A, B, P	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Nominal flow	$\Delta p = 10$ bar (145 PSI)	$q_{V\ nom}$	l/min (GPM)	7, 15, 30 (1.8, 4, 8)	30, 60 (8, 16)
Maximum hysteresis			%	5	5
Step response	0 to 90 %	$T_u + T_g$	ms	< 40	< 140
Operating voltage	OBE	U	V	24	24
Comm. value signal	OBE	U	V	0 to 10 / ± 10	0 to 10 / ± 10
		I	mA	4 to 20	4 to 20
Control electronics	Type 4WRA	Card, analog		VT-VSPA2-1	
		Card, digital		VT-VSPD-1	
		Module, analog		VT-MSPA2-1	

GoTo Focused Delivery Program: Proportional Valves

Proportional directional control valves, direct operated 4WRA(E)B



4WRAB6 type direct operated proportional valves are available with or without on-board electronics (OBE). Suitable for open loop applications, the WRAB6 does not have integral feedback; however, provides proportional flow output dependant on a commanded value. The WRAB6 may also be used with a DC switching signal, if the application requires throttled shifting without full proportional control.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Direct operated proportional directional control valves, which control both the direction and volume of a fluid flow
- Mounts on standard ISO 4401-3, NFPA T3.5.1MR1 D 03 and ANSI B 93.7 D 03 interface
- Two piece solenoid design with removable coils
- Integrated electronics available
- For subplates, see RE45052

Detailed information:

- RA29057

Technical Data

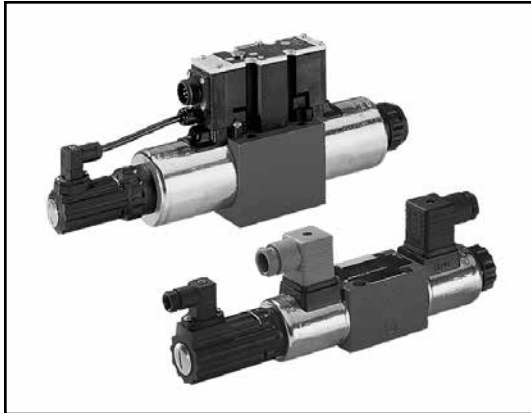
Size				6
Operating pressure	Ports A, B, P	p_{max}	bar (PSI)	350 (5100)
	Port T	p_{max}	bar (PSI)	210 (3100)
Maximum flow				30 (8)
Maximum hysteresis				3.5
Step response	0 to 100%	$T_u + T_g$	ms	40
Supply voltage				12V ($\pm 10\%$)
Associated electronic amplifier cards (some restrictions apply)				MDSD*

* The MDSD1 or MDSD will operate the 4 WRA B./G12 with 14 to 28 vdc from the power supply. The MDSD can be used with 10 to 14 vdc power, but valve performance may be affected. At higher temperatures, increased solenoid resistance may reduce the available flow. An amplifier is not required when using the 4 WRA B./G12 as a non-proportional (switching) valve at 12 vdc $\pm 10\%$.

GoTo Focused Delivery Program: Proportional Valves

Proportional directional valve, direct operated with electrical position feedback

4WREE



WRE(E) direct operated proportional directional control with integral feedback are available with on-board electronics (OBE). Positive overlap spools reduce leakage at center, while underlap spools can be utilized for closed-loop functions. Individual amplifiers are available, while OBE models are possible with either a voltage or current command.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Sizes 6 to 10
- For mounting:
 - Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B 93.7 D 03
 - Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 05
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Spring-centered control spool
- Different spool overlaps possible
- Integrated control electronics (OBE) for type 4WREE

Detailed information:

- RE29061

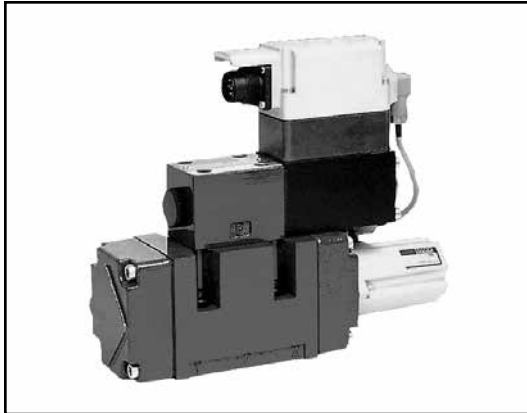
Technical Data

Size				6	10
Operating pressure	Ports A, B, P	p_{max}	bar (PSI)	315 (4600)	315 (4600)
Nominal flow	$\Delta p = 10 \text{ bar (145 PSI)}$	$q_{v \text{ nom}}$	l/min (GPM)	8, 16, 32 (2.1, 4.2, 8.5)	25, 50, 75 (6.6, 13.2, 19.8)
Maximum hysteresis			%	0.1	0.1
Step response	0 to 90%	$T_u + T_g$	ms	20	40
Operating voltage		U	V	24	24
Comm. value signal (alternative)	Type 4WREE	U	V	± 10	± 10
		I	mA	4 to 20	4 to 20

GoTo Focused Delivery Program: Proportional Valves

High-response directional valves, pilot operated with electrical position feedback

4WRVE



Pilot operated proportional directional valve type 4WRVE offers integral position feedback on both pilot and mainstage for dynamic response plus greater accuracy. On-board electronics (OBE) and 12-pin connectors permit power and command all to be accomplished on the valve. Underlapped main spools and high performance pilot permit the WRVE to be an excellent candidate into applications requiring closed loop control of pressure, force, and velocity.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 16
- Porting pattern according to ISO 4401-7, NFPA T3.5.1M R1, and ANSI B93.7 D 07
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Integrated control electronics (OBE)

Detailed information:
 • RE29077

Technical Data

Size				16
Operating pressure		p_{max}	bar (PSI)	350 (5100)
Nominal flow	$\Delta p = 10 \text{ bar}$	$q_{V \text{ nom}}$	l/min (GPM)	120, 200 (32, 53)
Maximum hysteresis			%	0.1
Frequency	Phase response -90°	f	Hz	100
Operating voltage	OBE	U	V	24
Comm. value signal	OBE	U	V	± 10

GoTo Focused Delivery Program: Proportional Valves

High-response proportional directional valves, pilot operated 4WRKE



The 4WRKE is a pilot operated proportional directional valve with position feedback on the main stage. The onboard electronics (OBE) has a standard 7-pin connector for command, spool feedback, and 24V power. Overlapped spools have a spring centered fail-safe position. 4WRKE is normally used for open loop applications where higher repeatability is more important, also for lift, transfer, or clamping applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 25
- Porting pattern to ISO 4401-8; NFPA T3.5.1M R1; ANSI B93.7 D09
- Controls direction and magnitude of flow by analog command
- Spool position feedback on main stage for low hysteresis
- Overlapped spool
- Integrated amplifier

Detailed information:

- RE29075

Technical Data

Size	25	
Nominal Flow @10 bar delta-p	Lpm	350
Maximum Flow @10 bar delta-p	Lpm	870
Operating pressure P, A, B	bar	350
Operating pressure T (pilot drain internal)	bar	≤ 10
Hysteresis	%	≤ 1
Command value (A1 electronics)	VDC	±10

GoTo Focused Delivery Program: Proportional Valves

High-response directional valves, pilot operated with electrical position feedback

4WRLE



Pilot operated proportional directional valve type 4WRLE offers integral position greater feedback on both pilot and mainstage for dynamic response plus greater accuracy. On-board electronics (OBE) and 7-pin connectors permit power and command all to be accomplished on the valve. Overlapped main spools and high-performance pilot permit application into various circuits including those requiring closed-loop control of pressure, force, or velocity.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Sizes 10, 16, and 25
- Porting pattern according to ISO 4401-5, 7, 8; NFPA T3.5.1M R1; and ANSI B93.7 D 05, D 07, D 08
- Control of the direction and magnitude of a flow
- Use for force control, position control, velocity control and pressure control purposes
- Pilot control valve and main stage are position-controlled
- Characteristic curves with and without inflection
- Integral electronics (OBE) for type 4WRLE

Detailed information:

- RE29088
- RE29089

Technical Data

Size			10	16	25
Operating pressure	p_{max}	bar (PSI)	350 (5100)	350 (5100)	350 (5100)
Nominal flow	$\Delta p = 10 \text{ bar (145 PSI)}$	$q_{V \text{ nom}}$	55, 80 (14.5, 21)	120, 200 (32, 53)	370 (98)
Maximum hysteresis		%	0.1	0.1	0.1
Frequency	Phase response -90°	f	45	45	50
Operating voltage	OBE	U	24	24	24
Comm. value signal	OBE	U	± 10	± 10	± 10
		I	4 to 20	4 to 20	4 to 20

GoTo Focused Delivery Program: Proportional Valves

4/3 directional high-response control valves, direct operated, with integrated control electronics (OBE) 4WRSE



These 4/3 directional high-response valves are direct operated components. They are actuated by control solenoids. The solenoids are controlled by integrated control electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Sizes 10
- Direct operated directional high-response control valve with integrated control electronics (OBE) for controlling the direction and magnitude of flow
- Suitable for position and velocity control
- Porting pattern to DIN 24340 form A and ISO 4401

Detailed information:

- RE29067

Technical Data

Size		10
Operating pressure	Ports P, A, B	bar (PSI)
	Port T	bar (PSI)
Max. permissible flow	$q_{V \text{ nom}} \pm 10 \% \text{ at } \Delta p = 10 \text{ bar}$	l/min (GPM)
Hysteresis	%	≤ 0.05

GoTo Focused Delivery Program: Proportional Valves

4/2, 4/3 proportional directional valves, pilot operated, without electrical position feedback

4WRZE



Valves of type 4WRZE are pilot operated 4-way directional valves with operation by proportional solenoids. They control the direction and magnitude of flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Sizes 16
- Pilot operated 2-stage proportional directional valves with integrated electronics (OBE)
- Control the direction and magnitude of flow
- Manual override
- Spring-centered control spool

Detailed information:

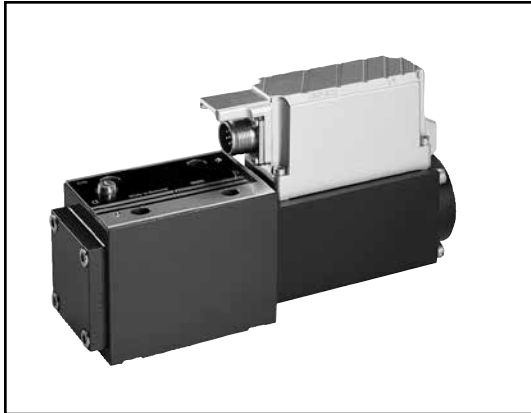
- RE29115

Technical Data

Size		16
Operating pressure	bar (PSI)	up to 350 (5100)
Return flow pressure	– Port T (Port R) (external pilot oil drain)	bar (PSI) up to 250 (3600)
	– Port T (internal pilot oil drain)	bar (PSI) up to 30 (1300)
	– Port Y	bar (PSI) up to 30 (1300)
Flow of the main valve	l/min (GPM)	up to 460 (121.5)

GoTo Focused Delivery Program: Proportional Valves

5/3 high-response directional valves, direct operated, with integrated control electronics (OBE) 5WRPE



The 5WRPE 5/3 high-response directional control valve is a directly operated component. The valve is actuated by control solenoids with integral position feedback and on-board electronics. Electronics are factory-calibrated.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 10
- Directly operated servo solenoid valve, with 5/3-way symbol in servo quality
- Actuated on one side, A-T fail-safe position when switched off
- Suitable for electrohydraulic controllers in production and testing systems
- Mounts on standard ISO 4401-5, NFPA T3.5.1MR1 and ANSI B93.7 D 05 interface

Detailed information:
• RE29045

Technical Data

Size			10
Operating pressure	Port P, A, B	bar (psi)	210 (3045)
	Port T	bar (psi)	50 (725)
Max permissible flow	$\Delta p = 11 \text{ bar}$	$q_{v \text{ nom}}$ L/min (GPM)	70 (18.49)
Maximum hysteresis		%	≤ 0.3

GoTo Focused Delivery Program: Proportional Valves

Proportional cartridge throttle valve, with inductive position transducer

FESX



Model FESX proportional throttle valves are pilot operated and in “cartridge” design. This results in their compact form despite high flow rates. The electronics, which take the form of an external valve amplifier in Europe card format, trigger the solenoid of the pilot valve and thus control the position of the main stage. Hysteresis is <0/2% and a position accuracy of >0.5% is achieved.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Sizes 16...50
- Pilot operated throttle valves with inductive position transducer
- Design: cartridge type DIN 24342, ISO/DIS 7368, control oil external X and Y
- Adjustable via the position-controlled main stage by means of the position transducer and the external valve electronics
- Hysteresis < 0.2%, positioning accuracy < 0.5%

Detailed information:
 • RE29215

Technical Data

Size	16	25	32	40	50	
Pressure fluid	Hydraulic oil to DIN 51524...535					
Pressure fluid temperature range °C (°F)	-20 to +80 (-4 to +176)					
Maximum permitted degree of contamination of pressure fluid – Purity class to ISO 4406 (c)	Class 18/16/13					
Max. operating pressure	Ports A, B, X bar (PSI)		315 (4600)			
	Port Y bar (PSI)		100 (1450)			
Nominal flow rate at $\Delta p = 5 \text{ bar (72.5 PSI)}$ per edge	l/min (GPM)	125 (33)	210 (55.5)	320 (84.5)	500 (132.1)	980 (258.9)
Weight	kg (lbs)	2.8 (6.2)	3.9 (8.6)	5.1 (11.2)	7.1 (15.7)	9.7 (21.4)
Q_{max}	l/min (GPM)	350 (92.5)	600 (158.5)	1000 (264.2)	1500 (396.3)	3000 (792.5)

GoTo Focused Delivery Program: Proportional Valves

Proportional cartridge throttle valve, with on-board electronics (OBE) and inductive position transducer FESXE



Model FESXE proportional throttle valves are pilot operated and in “cartridge” design. This results in their compact form despite high flow rates. The position of the main spool is closed-loop controlled by the on-board electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 16...50
- Pilot operated throttle valves with on-board electronics (OBE) and inductive position transducer
- Design: cartridge type DIN 24342, ISO/DIS 7368, control oil external X and Y
- Hysteresis < 0.2%

Detailed information:

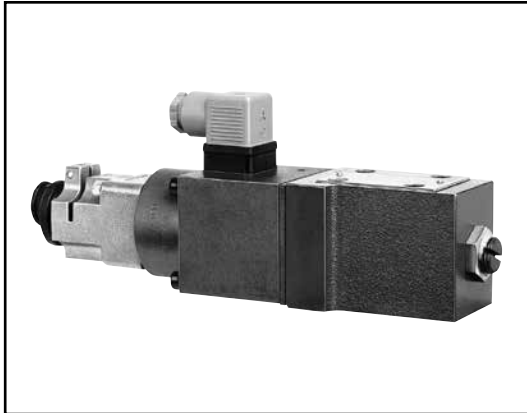
- RE29216

Technical Data

Size			16	25	32	40	50
Max. operating pressure	Ports A, B, X	bar (PSI)	315 (4600)				
	Port Y	bar (PSI)	100 (1450)				
Nominal flow rate		l/min (GPM)	125 (33)	210 (55.5)	320 (84.5)	500 (132)	980 (258.9)
Weight		kg (lbs.)	3.5 (7.7)	4.6 (10.1)	5.8 (12.8)	7.9 (17.4)	10.5 (23.1)
Q_{max}		l/min (GPM)	350 (92.5)	600 (158.5)	1000 (264.2)	1500 (396)	3000 (792.5)
Hysteresis		%	≤ 0.2				

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves with position feedback (LvdT AC/AC) DBETBX



DBETBX proportional pressure relief valves limit pressure for piloting applications requiring high performance. Pressure is directly controlled by changing the proportional solenoid position.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Directly operated valves with position feedback for limiting system pressure
- Adjustable through the position of the armature against the compression spring
- Position-controlled at a high magnetic force, minimal hysteresis <0.3%
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:

- RE29150

Technical Data

Size			6
Maximum set pressure (at $Q = 1 \text{ l/min [0.26 GPM]}$)		bar (PSI)	180 (2600)
Minimum pressure (at $Q = 1 \text{ l/min [0.26 GPM]}$)		bar (PSI)	4 (58)
Note: At $Q_{max} = 3 \text{ l/min (GPM)}$ the pressure levels stated here increase			
Maximum working pressure (at $Q = 1 \text{ l/min [0.26 GPM]}$)	Port P	bar (PSI)	315 (4600)
Maximum pressure	Port T	bar (PSI)	≤ 2 (29)
Maximum solenoid current		I_{max}	3.7
Coil resistance R_{20}		Ω	2.5
Hysteresis		%	≤ 0.3

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves, direct operated with position feedback

DBETBEX



DBETBEX proportional pressure relief valves limit pressure for piloting applications requiring high performance. Pressure is directly controlled by changing the proportional solenoid position with on-board electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Proportional solenoid operation
- Adjustable by specifying the position of the solenoid armature
- Integral electronics (OBE)

Detailed information:

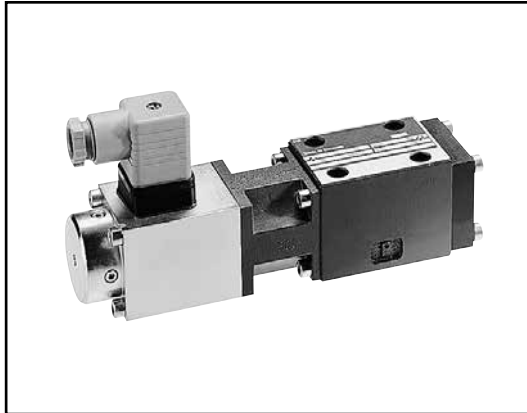
- RE29151

Technical Data

Size				6
Type				DBETBEX
Operating pressure	Port P	p_{\max}	bar (PSI)	315 (4600)
	Port T	p_{\max}	bar (PSI)	250 (3600)
Flow		qV_{\max}	l/min (GPM)	2 (0.53)
Maximum hysteresis				≤ 0.2
Operating voltage	OBE	U	V	24
Command value signal	OBE	U	V	0 to 10
		I	mA	4 to 20

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated DBE6X



Type DBE6X proportional pressure relief valves are pilot operated pressure relief valves. The valves are actuated by means of a proportional solenoid. With these valves, the system pressure that needs to be limited can be infinitely adjusted in relation to the solenoid current.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Pilot operated valves (pilot valves) for limiting system pressure (pilot oil internal only)
- Adjustable by means of the solenoid current
- Solenoid versions $I_{max} = 0.8 \text{ A}$
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:

- RE29156

Technical Data

Size			6
Maximum set pressure (at $Q = 1 \text{ l/min [0.26 GPM]}$)		bar (PSI)	315 (4600)
Minimum pressure (at $Q = 1 \text{ l/min [0.26 GPM]}$)		bar (PSI)	10 (145)
Maximum working pressure	Port P	bar (PSI)	315 (4600)
Maximum pressure	Port T	bar (PSI)	250 (3600)
Maximum flow		l/min (GPM)	40 (10.6)
Valve with solenoid type			0.8 A
Maximum solenoid current		I_{max}	0.8 A
Coil resistance R_{20}		Ω	22
Hysteresis		%	≤ 4

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated DBEE6



The pilot operated proportional pressure relief valves of the type DBEE are operated by means of a proportional solenoid. These valves are used to limit a system pressure. With these valves it is possible to steplessly adjust the system pressure to be limited depending on the electrical command value.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated valve for limiting a system pressure
- Operation by means of proportional solenoids
- Proportional solenoid with rotatable and detachable coil
- For subplate mounting
- Porting pattern according to ISO 4401-03-02-0-05 and DIN 24340

Detailed information:

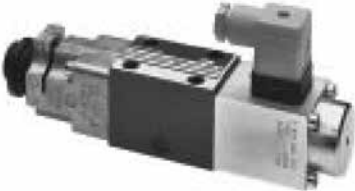
- RE29258

Technical Data

Size			6
Maximum operating pressure	Port P; P1 – P2; A1 – A2; B1 – B2	bar (PSI)	350 (5100)
	Port T	bar (PSI)	50 (725)
Maximum setting pressure	Pressure rating 315 bar	bar (PSI)	315 (4600)
Maximum flow		l/min (GPM)	30 (7.9)
Hysteresis		%	±3 of the maximum setting pressure
Repeatability		%	< ±2 of the maximum setting pressure
Supply voltage	Nominal voltage	VDC	24
Inputs	Voltage	V	0 to 10

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves, with linear curve (LvdT AC/AC) DBETFX

	<p>DBETFX proportional pressure relief valves are direct operated valves with position feedback for limiting system pressure. The position of the valve cone is measured by the LvdT AC/AC position transducer, and the position of the cone-solenoid position is controlled by external trigger electronics, resulting in a linear curve.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoToProportional</p>
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Features

- Size 6
- Directly operated valves with position feedback for limiting system pressure
- Adjustable through the set position of the cone against main spring
- Position-controlled, linear curve with minimal hysteresis
- Pressure limitation to a safe level even with faulty electronics
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:
• RE29152

Technical Data

Size			6
Maximum set pressure (at $\Omega = 1$ l/min [0.26 GPM])	bar (PSI)		250 (3600)
Minimum pressure (at $\Omega = 1$ l/min [0.26 GPM])	bar (PSI)		5 (72.5)
Maximum working pressure (at $\Omega = 1$ l/min [0.26 GPM])	Port P	bar (PSI)	315 (4600)
Maximum pressure	Port T	bar (PSI)	200 (2900)
Maximum solenoid current		I_{max}	2.7
Coil resistance		Ω	3
Hysteresis		%	≤ 1

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve

DBETX



DBETX proportional pressure relief valves limit pressure for piloting applications. Pressure is limited by changing current to the proportional solenoid from an external amplifier.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFFA T3.5.1M R, and ANSI B93.7 D 03
- Directly operated valves (pilot valves) for limiting system pressure
- Adjustable by means of the solenoid current
- Solenoid versions $I_{\max} = 0.8 \text{ A}$ or $I_{\max} = 2.5 \text{ A}$
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{\max}$)

Detailed information:

- RE29161

Technical Data

Size				6
Type				DBETX
Operating pressure	Port P	p_{\max}	bar (PSI)	315 (4600)
	Port T	p_{\max}	bar (PSI)	250 (3600)
Flow		$q_{V \max}$	l/min (GPM)	1 (0.26)
Maximum hysteresis				%
Control electronics	Plug			VT-SSPA1-525 VT-SSPA1-508
	Module			VT-MSPA1-525 VT-MSPA1-508
	Card			VT-VSPA1-525 VT-VSPA1-508

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve

DBETA



DBETA proportional pressure relief valves are for high performance applications up to 5 Lpm. Combine DBETA with logic valves (like LC + LFA.. DB) for high flow pressure circuits. Pilot remote pressure control on axial piston pumps (DRG control A4V, A10V, A15V).

The integral pressure transducer is factory calibrated to on-board electronics with a standard 7-pin analog interface. DBETA is a closed loop pressure design for outstanding linearity and accuracy, even while fluid viscosity and flows change. Sensor fault detection switches valve to a 0v condition. Simple installation, no user software or bus.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Nominal Pressure 200, 350 Bar
- Maximum Flow 5 Lpm
- Integral pressure sensor, controller, and amplifier

Detailed information:
 • RE29262

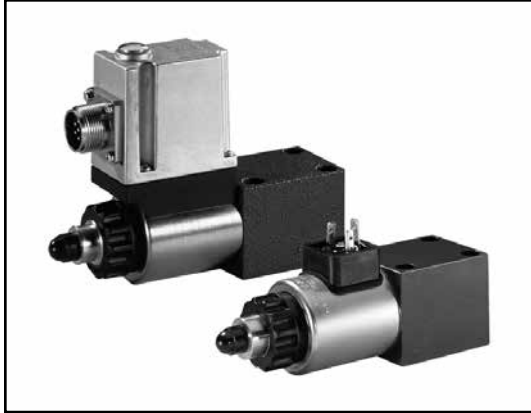
Technical Data

Nominal Rated Pressure		200	350
Maximum pressure	bar	500	
Maximum flow	Lpm	5	
Hysteresis	% *	< 1 nom p	
Response sensitivity	% *	< 0.25 nom p	
Linearity	% *	± 1 nom p	
Step response (0.8 Lpm 20 cm3)	10% – 90%	ms	165
	90% – 10%	ms	88
Supply voltage	VDC	24	
Input command	VDC	0 to 10	

(* flow > 0.2 Lpm and command > 10%)

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valves, direct operated DBET & DBETE



DBET proportional pressure relief valves for piloting applications. Pressure is limited by changing current to the proportional solenoid from an external amplifier or internal electronics (DBETE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Valve for limiting a system pressure
- Proportional solenoid operation
- For subplate mounting
- Linearized pressure/command value characteristic curve
- Integral electronics (OBE) for type DBETE

Detailed information:

- RE29162

Technical Data

Size		6	
Operating pressure	p_{\max}	bar (PSI)	420 (6100)
Flow	$q_{V \max}$	l/min (GPM)	2 (0.5)
Maximum hysteresis		%	<4
Step response	0 to 100 %	T_u+T_g	ms
	100 to 0 %	T_u+T_g	ms
Operating voltage	OBE	U	V
Comm. value signal	OBE	U	V
		I	mA
Control electronics	Type DBET	Card, analog	VT-VSPA1-2-1X
		Card, digital	VT-VSPD-1-2X
		Module, analog	VT-MSPA1-1-1X
		Plug, analog	VT-SSPA1-1-1X

See index Page 233 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated with electrical position feedback and OBE

DBEBE6X



Type DBEBE6X proportional pressure relief valves are pilot operated that are used to limit system pressure. The valves are actuated by means of a position-controlled proportional solenoid with on-board electronics.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Position-controlled, minimal hysteresis
- Rapid response times
- Adjustable through the position of the armature against compression spring
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94 (see RE 45053, separate order)

Detailed information:
 • RE29159

Technical Data

Size			
Max operating pressure	Port P	bar (psi)	315 bar (4600)
	Port T	bar (psi)	250 (3625)
Max flow		L/min (GPM)	40 (11)
Maximum hysteresis		%	≤ 1
Response time	100% signal change	ms	70
	10% signal change	ms	15
Supply voltage		V	24
External fuse		A	2.5
Connection type	Plug-in connector 6P+PE, DIN 43563		

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure relief valve, pilot operated

DBEME



DBE(M)E, series 7X proportional pressure relief valves limit pressure in hydraulic systems, where higher flow may be required.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 10
- Pilot operated for limiting system pressure
- Operation by means of proportional solenoid
- Valve and control electronics from a single source
- Type DBEME with integrated electronics (OBE)
- For subplate mounting:
 - Porting pattern according to ISO 6264

Detailed information:

- RE29361

Technical Data

Hydraulic	Size	10	
Weight	kg (lbs)	4.7 (10.4)	
Installation orientation		Any	
Ambient temperature range	°C (°F)	–20 to +50 (–4 to +122)	
Operating pressure	– Ports A, B and X	bar (PSI)	350 (5100)
	– Port T	bar (PSI)	315 (4500)
	– Port Y		Separately and to the tank at zero pressure
Max. set pressure (at 315 bar [4500 PSI])	bar (PSI)	315 (4500)	
Maximum pressure relief function (at 315 bar [4500 PSI])		350 (5100)	
Max. flow	l/min (GPM)	275 (72.6)	
Hydraulic fluid temperature range	°C (°F)	–20 to +80 (–4 to +176)	
Hysteresis	%	≤ 5 of max. set pressure	
Tolerance of command value	%	± 1.5 of max. set pressure	
Linearity	%	± 3.5 of max. set pressure	
Electrical			
Supply voltage	V	24 DC	

See index Page 234 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valve DRE(E)



The valve type DRE(E) is an electrically pilot operated 3-way pressure reducing valve with pressure limitation of the actuator. They are used for reducing system pressure.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Pilot operated pressure reducing valve in ports A and P1 with pressure limitation
- Operation by means of proportional solenoid
- For subplate mounting or sandwich plate design:
 - Porting pattern according to DIN 24340 form A6 and ISO 4401-03-02-0-05

Detailed information:

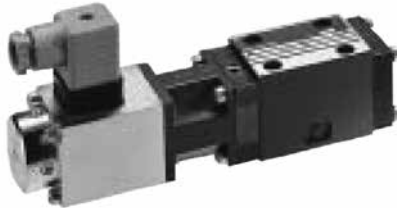
- RE29175

Technical Data

Size			6
Maximum operating pressure	Port P or PA	bar (PSI)	315 (4600)
	Port P1, A, and B	bar (PSI)	210 (3045)
	Port T	bar (PSI)	Separately and to the tank at zero pressure
Maximum setting pressure in channel P1 and A	Pressure rating 100 bar (1450 PSI)	bar (PSI)	100 (1450)
Maximum flow		l/min (GPM)	3 (0.8)
Hysteresis		%	±2.5 of the maximum setting pressure
Repeatability		%	< ±2 of the maximum setting pressure
Minimum control current		mA	100
Maximum control current		mA	1600

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, pilot operated DRE6X



Model DRE6X proportional pressure reducing valves are pilot operated with a 3-way main stage. The pilot valve (pressure relief valve pilot stage) is supplied internally with a controlled flow of pilot oil. The valves are actuated by a proportional solenoid acting against a spring. The solenoid armature is cushioned to aid stability.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 6
- Pilot operated valves for reducing system pressure at the consumer (pilot oil internal only)
- 3-way version (P–A/A–T), $p_{\min} = p$ in T
- Adjustable by means of the solenoid current
- Solenoid type $I_{\max} = 0.8$ A
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{\max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94
- Plug-in connector to DIN 43650-AM2 included in scope of delivery
- External trigger electronics with ramps and valve calibration (order separately)

Detailed information:

- RE29177

Technical Data

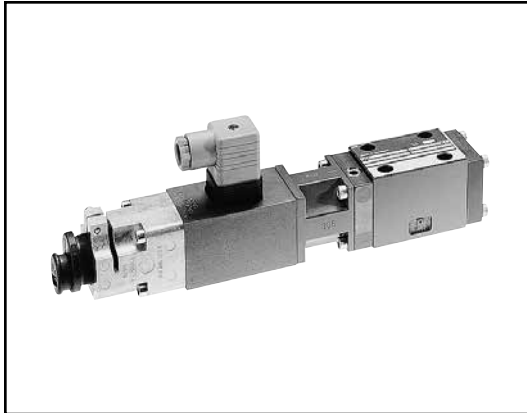
Size		6
Ambient temperature range	°C (°F)	–20 to +50 (–4 to +122)
Weight	kg (lbs.)	2.3 (5.1)
Pressure fluid temperature range	°C (°F)	–20 to +80 (–4 to +176)
Max. set pressure in A (at $Q_{\min} = 1$ L/min (0.26 GPM))	bar (PSI)	175 (2540)
Minimum pressure in A	bar (PSI)	0 (relative) or pressure in T
Minimum inlet pressure in P	bar (PSI)	$p_P = p_A + \geq 5$
Maximum working pressure	bar (PSI)	Port P: 315 (4600)
Maximum pressure	bar (PSI)	Port T: 250 (3626) [B sealed]
Maximum flow	L/min (GPM)	40 (10.6)
Maximum solenoid current	I_{\max}	0.8 A
Coil resistance R_{20}	Ω	22
Hysteresis	%	≤ 4
Manufacturing tolerance for p_{\max}	%	≤ 10

See index Page 234 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valve, pilot operated with inductive position transducer

DREB6X



Type DREB6X proportional pressure reducing valves are pilot operated with a 3-way main stage. The valves are actuated by a proportional solenoid, which is position-controlled against a spring. This ensures rapid response times and minimal hysteresis.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Pilot operated valves for reducing system pressure at the consumer (pilot oil internal only)
- 3-way version (P-A /A-T), $p_{min} = p_T$
- Adjustable through the position of the armature against the compression spring
- Position-controlled, minimal hysteresis < 1 %, rapid response times, see Technical data
- Pressure limitation to a safe level even with faulty electronics (solenoid current $I > I_{max}$)
- For subplate attachment, mounting hole configuration to ISO 4401-03-02-0-94

Detailed information:

- RE29182

Technical Data

Size	6	
Maximum set pressure (at $Q_{min} = 1 \text{ l/min [0.26 GPM]}$)	bar (PSI)	175 (2500)
Minimum pressure in A	bar (PSI)	0 (relative) or pressure in T
Minimum inlet pressure in P	bar (PSI)	$p_P = p_A + \geq 5$
Maximum working pressure	Port P bar (PSI)	315 (4600)
Maximum pressure	Port T bar (PSI)	250 (3600) [B sealed]
Maximum flow	l/min (GPM)	40 (10.6)
Maximum solenoid current	I_{max}	2.5 A
Coil resistance R_{20}	Ω	3
Hysteresis	%	≤ 1

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, pilot operated DREBE6X



DREBE6X is a pilot operated pressure reducing/relieving valve for high performance applications. Pressure in port A is controlled by a proportional solenoid using position feedback with on-board electronics (OBE).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Sizes 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Valve for reducing a system pressure
- Proportional solenoid operation
- Adjustable by specifying the position of the solenoid armature
- Integral electronics (OBE)

Detailed information:

- RE29195

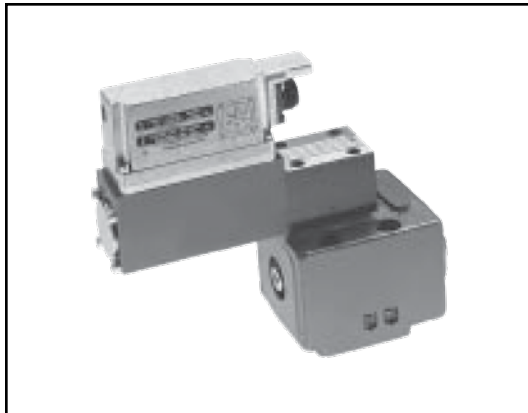
Technical Data

Size				6
Type				DREBE6X
Operating pressure	Port P	p_{\max}	bar (PSI)	315 (4600)
	Port T	p_{\max}	bar (PSI)	250 (3600)
Flow		$q_{V \max}$	l/min (GPM)	40 (10.6)
Maximum hysteresis				≤ 1
Operating voltage	OBE	U	V	24
Command value signal	OBE	U	V	0 to 10
		I	mA	4 to 20

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, pilot operated, with on-board electronics (OBE) and position feedback

DREBE10Z



Type DREBE10Z proportional pressure reducing valves are pilot operated and are used to reduce system pressure. They are actuated by means of a position-controlled proportional solenoid with on-board electronics. The valve body contains a logic element of the “normally open” type which is also pilot operated and in conical seat design.

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 10
- Pilot operated valve with integrated electronics for reducing system pressure (pilot oil internal only)
- Adjustable through the position of the armature against compression spring
- Pressure limitation to safe levels even with faulty electronics
- Rapid response times with position control
- For subplate mounting, port pattern according to ISO 5781-AG-06-2-A

Detailed information:

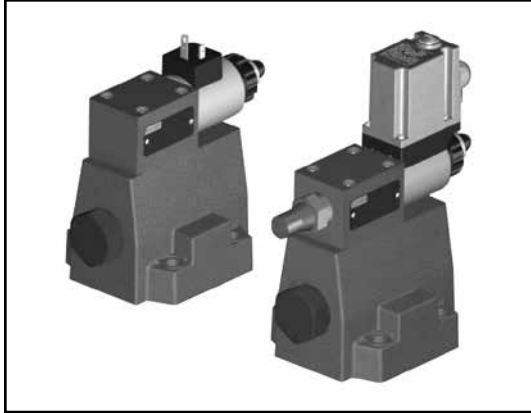
- RE29199

Technical Data

Size		10	
Maximum set pressure (at $Q_{min} = 1$ l/min [0.26 GPM])	bar (PSI)	315 (4500)	
Minimum set pressure (at $Q_{min} = 1$ l/min [0.26 GPM])	bar (PSI)	8 (120)	
Max. mechanical pressure limit level	bar (PSI)	<325 (4700)	
Maximum working pressure	Port A and B	bar (PSI)	315 (4500)
	Port Y	bar (PSI)	≤ 2 (30) external pilot oil drain
	Port X	bar (PSI)	315 (4500) relief port
Maximum flow	l/min (GPM)	120 (31.7)	
Operating voltage	V	24 DC	
Hysteresis	%	≤ 1	

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, pilot operated DRE(M) and DRE(M)E



Type DRE(M) and DRE(M)E valves are pilot operated pressure reducing valves, used to reduce operating pressure. Available without maximum pressure limitation (DRE.) or with maximum pressure limitation (DREM.) and with or without integrated control electronics. This valve reduces operating pressure by means of proportional solenoids.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 10
- Valve for reducing an operating pressure
- Proportional solenoid with rotatable and detachable coil
- Linearized command value-pressure characteristic curve
- Maximum pressure limitation optional
- For subplate mounting:
 - Porting pattern according to ISO 5781

Detailed information:

- RE29276

Technical Data

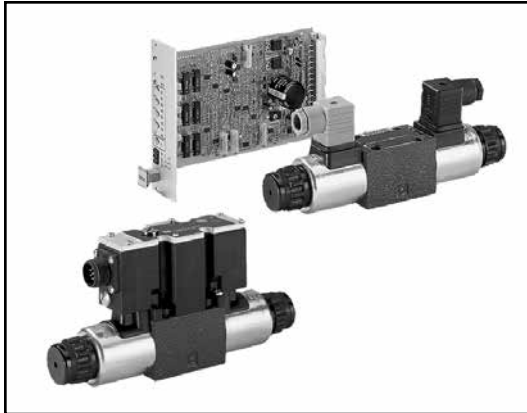
Size		10	
Maximum working pressure	Port A and B	bar (PSI)	
	Port Y	bar (PSI)	
		315 (4500)	
		Separately and to the tank at zero pressure	
Maximum set pressure in channel A	Pressure rating (bar [PSI]):	200 (2900)	315 (4500)
		bar (PSI)	200 (2900)
		315 (4500)	
Minimum set pressure (command value = 0)	bar (PSI)	2 (30)	
Maximum pressure limit	Pressure rating (bar [PSI]):	200 (2900)	315 (4500)
		bar (PSI)	230 (3300)
		350 (5100)	
Maximum flow	l/min (GPM)	200 (52.8)	
Operating voltage	V	24 DC	
Hysteresis	%	± 3.5 of the max. setting pressure	
Repeatability	%	< ± 2 of the max. setting pressure	
Linearity	%	± 2 of the max. setting pressure	

See index Page 234 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valves, direct operated

3DREP & 3DREPE



3DREP6 is a pressure reducing/relieving valve for very low pressures in special applications. The dual solenoid model-C regulates port A or port B. The most common application is 25 bar (360 PSI) on the 4WRZ(E) 10..32 proportional directional valve. Pressure is directly controlled by changing current to a proportional solenoid by external amplifier or by integrated electronics (3DREPE6).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToProportional

Features

- Size 6
- Porting pattern according to ISO 4401-3, NFPA T3.5.1M R, and ANSI B93.7 D 03
- Valve for reducing a system pressure
- Proportional solenoid operation
- For subplate mounting
- Integrated electronics (OBE) for type 3DREPE

Detailed information:

- RE29184

Technical Data

Size		6	
Operating pressure	p_{max}	bar (PSI)	100 (1450)
Flow	$q_{V max}$	l/min (GPM)	15 (4.0)
Maximum hysteresis		%	5
Operating voltage	OBE	U	V
Command value signal	OBE	U	V
		I	mA
Control electronics	Type 3DREP	Card, digital	VT-VSPD-1
		Module, analog	VT 11118

GoTo Focused Delivery Program: Proportional Valves

Proportional pressure reducing valve, pilot operated ZDREE



Valve of type ZDREE are pilot operated pressure reducing valves of sandwich plate design in 3-way variant, i.e. with pressure limitation of the actuator pressure. They are used for reducing a system pressure.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToproportional

Features

- Size 10
- Pilot operated valve for reducing a system pressure
- Actuation by proportional solenoid, which can be rotated
- Sandwich plate design
- Porting pattern to DIN 24340-A and ISO 4401
- Linear command value/pressure characteristic curve
- Integrated electronics (OBE) with type ZDREE, with low manufacturing tolerance of the command value/pressure characteristic curve

Detailed information:

- RE29279


Technical Data

Size			6
Maximum operating pressure	Port P1	bar (PSI)	315 (4600)
	Ports P2; A; B; X	bar (PSI)	350 (5100)
	Port T	bar (PSI)	250 (3600)
	Port Y or L	bar (PSI)	Line separately and at zero pressure to tank
Maximum set pressure in Port P1	Pressure rating to 200 bar (2900 PSI)	bar (PSI)	200 (2900)
Permissible maximum flow		l/min (GPM)	80 (21.1)
Hysteresis		%	±3 of maximum set pressure
Supply voltage	Nominal voltage	VDC	24
Required fuses		A	2, slow-blowing
Inputs	Voltage	V	0 to 10

See index Page 234 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Manifolds

Standard hydraulic manifolds



Industrial hydraulic manifolds are used to interconnect various components within a hydraulic system. Standard hydraulic manifolds include a variety of proven manifold designs for a wide range of industrial hydraulic applications. Standard manifolds may improve the assembly & test time of your system, save cost, reduce leak points and improve the serviceability and aesthetics of your system compared to alternate connection methods.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToManifolds

Features

- Size 6 (D03)
- Ductile iron pressure range to 5000 PSI
- Ductile iron manifolds blackened

Detailed information:

- RA09907

Technical Data

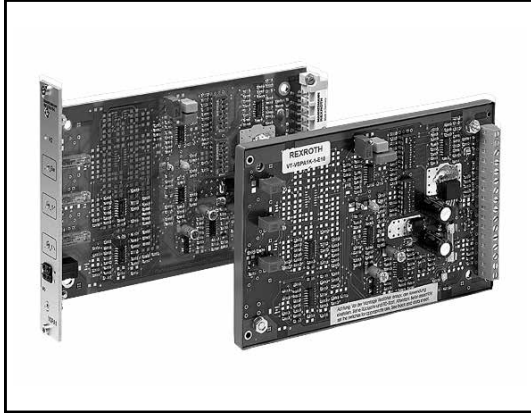
Model Code	ABM6PN-1X/02D2-01GM	ABM6PN-1X/04D2-01GM	CP6NN-XX/D-01
# of Stations	2	4	1
Description	Automotive bar manifold with bottom ported P & T		Cover Plate
Circuit	Parallel circuit, normal flow		Parallel Circuit, all ports blocked
Size	Size 6 (D03)		
Material	Ductile Iron (65-45-12)		
Max Pressure (PSI)	5000		
Ports	BSPP		N/A
Details	Metric mounting taps		

See technical data sheet RA 09907 for detailed technical data.

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves without electrical position feedback

VT-VSPA1-1-1X



The VT-VSPA proportional amplifier controls solenoid current to Rexroth proportional valves without LVDT position feedback. Single solenoid driver cards have additional features for more flexibility. The user may configure the analog input, extend ramp time, and change setup for pre-defined valve types.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Voltage stabilization, partially with raised measuring zero point
- Command value inputs for voltage and current
- Internal command value adjustment by means of 4 trimming potentiometers, call-up via relays, with LED indicator lamp (on some versions)
- Ramp generator, ramp times adjustable
- Jump function for quickly passing through overlaps of directional valves
- Enable input (on some versions)

Detailed information:

- RE30111

Technical Data

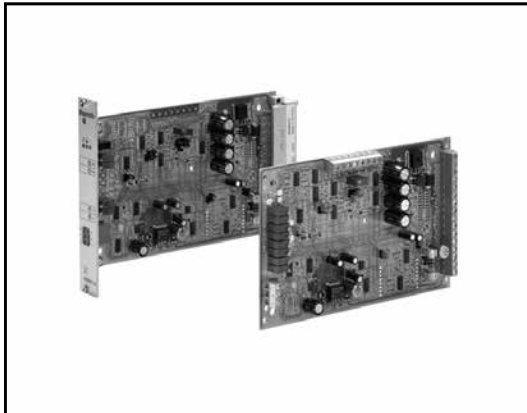
Operating voltage	U	VDC	24
Command value, depending on type	U	V	0 to 10, ± 10
	I	mA	4 to 20; 0 to 20
Output amplifier	Current-regulated, clocked		
Type of connection	32-pin form D (VT-VSPA1-1)		
Card dimensions	mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494	
Ambient temperature range	ϑ	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	0 to +50 [+70] (0 to +122 [158])

Type	Suitable for valve type
VT-VSPA1-1-1X	DBE(M), (Z)DBE, (Z)DRE10, 3DRE(M)

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves without electrical position feedback

VT-VSPA1-2-1X



This amplifier is suitable for controlling DBET-6X pressure valves or use as a universal amplifier. It has differential inputs for both voltage and current signals along with command call-ups.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential input (0 to +10 V)
- Current input (4 to 20 mA)
- 4 command value call-ups (only in conjunction with option A4)
- Ramp generator with separately adjustable ramp time for “up/down”

Detailed information:
• RE30115

Technical Data

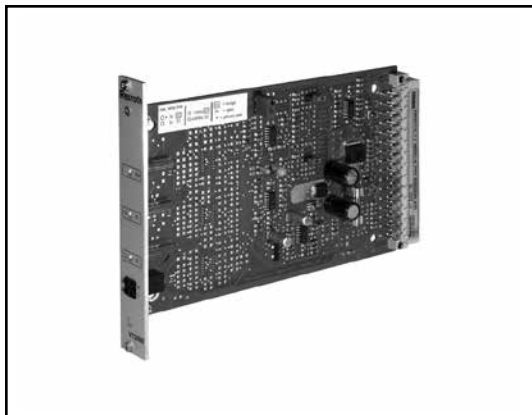
Operating voltage	U	VDC	24
Power consumption	P_S	VA	< 24 VA
Current consumption	I	V	< 2
Fuse	I_F	A	2 (medium time lag, replaceable)
Inputs:			
Analog			
Command values 1 to 4 (potentiometer inputs)	U_e	V	0 to +10, $R_e > 100\text{ k}\Omega$
Differential output	U_e	V	0 to +10, $R_e > 50\text{ k}\Omega$
Current input	I_e	mA	4 to 20, load $R_L = 100\ \Omega$
Type of connection	48-pin form F		
Permissible temperature range	ϑ	°C (°F)	0 to +50 (0 to +122)

Type	Suitable for valve type
VT-VSPA1-2-1X	DBET-6X

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional amplifier

VT 2000-5X/



The VT-2000 is a proportional amplifier suitable for controlling single solenoid proportional pressure control valves without electrical position feedback.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential input
- Additional command value input, 0 to +9 V
- Separately adjustable ramp generator for up and down ramps
- Card holder:
Model VT 3002-2X/32, see RE29928

Detailed information:
• RA29904

Technical Data

Operating voltage	VDC	24 + 40% – 5%
Inputs	U_i	0 to 9 (reference potential is M0)
	U_i	0 to +10; $R_i = 100\text{ k}\Omega$
Ramp time (adjustment range)	t	30 ms to approx. 1 s or 5 s (depending on setting of S1)
Outputs: Output stage – Solenoid current / resistance		800 mA + 10% – 5%; $R_{(20)} = 19.5\ \Omega$
Permissible operating temperature range	°C (°F)	0 to +50 (0 to +122)

Type	Suitable for valve types
VT 2000-5X	DBEP, DBE...-5X

GoTo Focused Delivery Program: Proportional Electronics

Plug-in proportional amplifier

VT-SSPA1-50



The plug-in amplifier is suitable for mounting onto a valve connection base according to EN 175301-803. By turning the plug insert and the electronics in the housing, the plug-in amplifier can be mounted on the solenoid in 90° increments. user can adjust ramp time, maximum current, and bias current.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Used for controlling solenoid operated pressure control and directional valves without closed-loop position control
- Differential input, optional current input
- Ramp generator, separate for up/down
- Zero potentiometer / biasing current
- Command value attenuator / maximum current
- Operating voltage 24 V

Detailed information:
• RE30116

Technical Data

Operating voltage 24 V	U_B	VDC	24
	$u(t)_{max}$	V	35
	$u(t)_{min}$	V	18
Current / power consumption (depending on solenoid data)	I	A	< 2.6
	P_{max}	A	< 60
Recommended back-up fuse	I	A	3, 15; slow-blow
Maximum current (adjustment range)	I_{max}	A	$I_g \dots 2.6$
Clock frequency at I_{max}	f	Hz	305
Command value input (voltage)	Proportional range	U	V 0...10
	Switching range	U	V 12 ... U_B
	Resistance	R	k Ω 20
Type of connection (M12 component connector)			Component connector, 4-pin, M12x1

Type	Suitable for valve type
VT-SSPA1-50-1X/V0/0-24	Universal; 2.5 A max output

GoTo Focused Delivery Program: Proportional Electronics

Plug-in proportional amplifiers for proportional valves without electrical position feedback

VT-SSPA1-5...



The plug amplifier is employed for actuating proportional valves without position control. It is plugged directly onto square solenoid valves. User can adjust ramp time, dither, and minimum and maximum output current.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifier in plug-in design for controlling proportional valves
- Differential input with optional current input
- Integrated ramp generator
- Proportional command value / current characteristic curve

Detailed information:

- RE30264

Technical Data

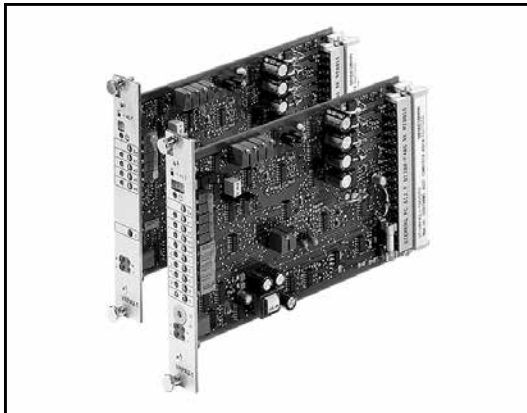
Operating voltage	U	VDC	10.2 to 31
Comm. value signal	U	V	0 to 10
	I	mA	4 to 20
Output amplifier	Current-regulated, clocked		
Type of connection	Screw terminals		
Ambient temperature range	ϑ	°C (°F)	-20 to +70 (-4 to +158)

Type	Suitable for valve type
VT-SSPA1-525...	DBETX-...-25, DBE6X-...-25, DRE6X-...-25, DBE10Z-...-25, DRE10Z-...-25, 2FREX6, 2FREX10, 3FREX6, 3FREX10, 4WRBA..EA
VT-SSPA1-508...	DBETX-...-8, DBE6X-...-8, DRE6X-...-8, DBE10Z-...-8, DRE10Z-...-8

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves without electrical position feedback

VT-VSPA2-1-2X



The VT-VSPA proportional amplifier controls solenoid current to Rexroth proportional valves without LVDT position feedback. Double solenoid driver cards have additional features for more flexibility. The user may configure the analog input, extend ramp time, and change setup for pre-defined valve types.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Voltage stabilization, partially with raised measuring zero point
- Command value inputs for voltage and current
- Internal command value adjustment by means of 4 trimming potentiometers, call-up via relays, with LED indicator lamp (on some versions)
- Ramp generator, ramp times adjustable
- Jump function for quickly passing through overlaps of directional valves
- Enable input (on some versions)

Detailed information:

- RE30110

Technical Data

Operating voltage	<i>U</i>	VDC	24
Command value, depending on type	<i>U</i>	V	0 to 10, ±10
	<i>I</i>	mA	4 to 20; 0 to 20
Output amplifier	Current-regulated, clocked		
Type of connection	48-pin male connector form F (VT-VSPA2-1)		
Card dimensions	mm (in.)		Eurocard 100 x 160 (3.93 x 6.29), DIN 41494
Ambient temperature range	ϑ	°C (°F)	0 to +50 [+70] (0 to +122 [158])

Type	Suitable for valve type
VT-VSPA2-1-2X	4WRA...2X; 4WRZ...7X

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifier module

VT 11118-1X/



The VT 11118 is suitable for controlling direct operated directional valves (model 4WRA, component series 1X only), pilot operated proportional directional valves (model .WRZ, from component series 5X) and proportional pressure reducing valves (model 3DREP 6) without electrical position feedback.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Selection of the valve type by means of change-over switch at the front
- Differential input for command value voltage ± 10 V
- Enable inputs
- Adjustable ramp generator
- 2 command value attenuators
- 2 output stages with fixed-frequency clocking
- LEDs: "power" – internal supply voltage (green)
"H1" – enable 1 (yellow)
"H2" – enable 2 (yellow)

Detailed information:
• RE30218

Technical Data

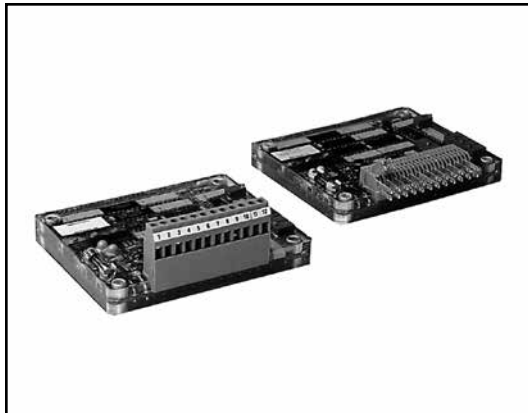
Operating voltage	U_o	24 V DC +40% (-10%)
Inputs Command value (differential input)	U_{Soll}	0 to ± 10 V; $R_e > 50$ k Ω
Outputs Solenoid current/resistance for 4WRA 6 (component series 1X) for 4WRA 10 (component series 1X) I_{max} for .WRZ (component series 5X & 6X) and 3DREP 6 (component series 1X) for .WRZ (component series 7X) and 3DREP 6 (component series 2X)	I_{max} I_{max} I_{max} I_{max}	1.75 A; $R_{(20)} = 5.4 \Omega$ 1.75 A; $R_{(20)} = 10 \Omega$ 1 A; $R_{(20)} = 19.5 \Omega$ 1.75 A; $R_{(20)} = 4.8 \Omega$
Clock-pulse frequency of the output stage for 4WRA 6 (component series 1X), .WRZ (component series 5X to 7X), 3DREP 6 (component series 2X) for 4WRA 10 (component series 1X) and 3DREP 6 (component series 1X)	f f	175 Hz ± 10 % 100 Hz ± 10 %
Type of connection		12 screw terminals
Type of mounting		Top hat rail TH 35-7.5 to EN 60715
Dimensions (W x H x D)	mm (in.)	40 x 79 x 85.5 (1.6 x 3.1 x 3.4)

Type	Suitable for valve types
VT 11118	4WRZ....-7X, 3DREP....-2X

GoTo Focused Delivery Program: Proportional Electronics

Mobile dual solenoid driver

MDSD



The MDSD is a high current amplifier that controls proportional valves with one or two force solenoids. Applications include the EL and EP controls on A2, A4, A7, A11 pumps and A6 motors. Also included are pressure and directional valves FT-DRE2K, DRE4K, DBE, DBET, MP, SM, SP, 4WRA, 4WRZ. All 12 Volt solenoids can be controlled over the entire 10 to 28 VDC power supply range to simplify design. Of course, 24 Volt solenoids can be used in 24 Volt power systems.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Wide supply voltage range: 10–28 VDC
- On board, replaceable fuse
- Reverse voltage protection
- Pulse Width Modulated (PWM) outputs
- PWM frequency adjustable from 75–275 Hz
- Max. and min. current separately adjustable for both solenoids
- High current driver, regulated to within 1.0%, continuous operation
- Infinite duration short circuit protection on both outputs
- Reference voltage provided for control via an external potentiometer (>1K Ohm)
- Differential inputs for external voltage sources (+/- 2.5 or +/- 5.0 VDC)
- Neutral position deadband for joysticks
- Ramp time 0.2 to 10.0 sec., separately adjustable for both solenoids (A = up/down; B = up/down)
- All adjustments are made via multi-turn potentiometers
- Temperature range: -13 to 176 °F (-25 to 80 °C)

- EMI/RFI resistant
- Rugged, environmental packaging

Detailed information:
 • RA29864

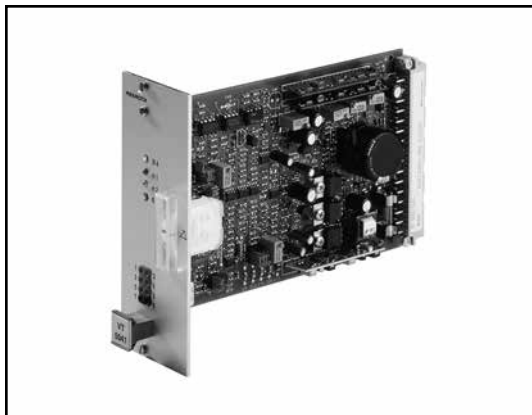
Technical Data

Power supply voltage	VDC	$V_{DC} = 10 \text{ to } 28$
Power requirement	W	$P = I_{max}^2 \cdot R_{SOL} \cdot 1.2$ (Refer to valve or pump data sheet for max. solenoid current and hot solenoid resistance)
Power supply current	Amp	$I = P / V_{DC}$
Ramp time	sec.	0.2 to 10 (standard); 1.2 to 60 (R60); 2.4 to 120 (R120)
Control potentiometer	KΩ	1 to 10
Pulse frequency	P7 Hz	75 to 275
Fuse – 5x20 mm fast acting	Amp	4
Ambient temperature	°F (°C)	-13 to +176 (-25 to +80)
Weight	lbs. (kg)	0.36 (0.16)

See index Page 235 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

External control electronics for the SYDFE1 control of A10VSO axial piston pumps, analog amplifier, configurable VT 5041-3X/



VT5041-3X analog amplifiers are designed as plug-in cards in Euro-format. They are external control electronics for the SYDFE1 control of A10VSO axial piston pumps analog amplifier.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential amplifier input
- Controller for valve spool position
- Minimum generator for pressure and swivel angle controller
- Self-clocking output stage
- Pressure-related leakage compensation (can be switched off)
- Polarity reversal protection for power supply
- Switchable actual pressure value input (current, voltage, range)

Detailed information:

- RE30242

Technical Data

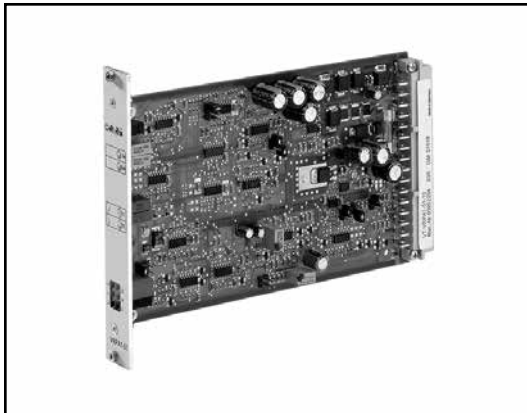
Operating voltage	U_O	VDC	24 + 40% – 10%
Power consumption	P_S	VA	35
Current consumption	I	A	0.6 ($I_{max} = 1.25 A$)
Type of connection	32-pin male connector, DIN 41612, form D		
Card dimensions	Euro-card 100 x 160 mm, DIN 41494		
Permissible operating temperature range	°C (°F)		0 to +50 (0 to +122)
Storage temperature range	°C (°F)		-20 to +70 (-4 to +158)

Type	Suitable for pump types
VT-5041-3X/1-0	SYDFE1 control of A10VSO
VT-5041-3X/3-0	SYDFE1 control of A10VSO with power limitation

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for proportional valves with electrical position feedback

VT-VRPA1-1...



The VT-VRPA1-100 proportional amplifier controls the DBETR proportional relief valves with position feedback. The VT-VRPA1-151 proportional amplifier controls 2FRE10 and 2FRE16 proportional flow control valves. The user may configure the analog input and extend ramp times.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Voltage stabilization, partially with raised measuring zero point
- Differential input – 0–10 V/0–20 mA/4–20 mA
- Ramp generator that can be switched off
- Oscillator/demodulator for electrical position feedback
- PID-controller for controlling the control spool position
- Cable break detection with LED indicator lamp for position transducer; in the event of a cable break, the output amplifier is de-energized
- Enable input

Detailed information:

- RE30118

Technical Data

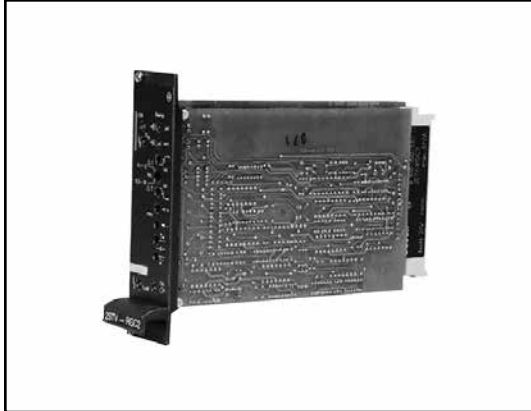
Operating voltage	U	VDC	24
Comm. value signal	U	V	0 to 6(9); 0 to 10; , ±10
	I	mA	0 to 20; 4 to 20
Output amplifier			Current regulated, clocked
Oscillator frequency	f	kHz	approx. 2.5
Type of connection			32-pin form D
Card dimensions (W x L x H)		mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494
Ambient temperature range	ϑ	°C (°F)	0 to +50 (0 to +122)

Type	Suitable for valve type
VT-VRPA1-100	DBETR
VT-VRPA1-151	2FRE10, 2FRE16

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional amplifier

VT-VRPA1...RTS-2STV



The VT-VRPA1 is suitable for controlling servo solenoid pilot operated two-stage valves. It has options for valve zero and gain. The ramps can be controlled by external voltage signals.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format for installation in 19" rack
- Output stage with closed-loop control
- Closed-loop position control with PID action
- Ramp functions:
External voltage-controlled ramp adjustment via differential inputs.
Ramp function can be deactivated

Detailed information:

- RE30044

Technical Data


Operating voltage	VDC	24
Plug connector		DIN 41612 – F32
Valve solenoid max.	A/VA	2.7/40 (Size 6)
Input signal	V	0 to ± 10
Card dimensions (W x L x H)	mm (in.)	Eurocard 100 x 160 x ~35 (3.93 x 6.29 x ~1.38)
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)

Type	Suitable for valve type
VT-VRPA1-527	4WRL, series 3X

GoTo Focused Delivery Program: Proportional Electronics

Electric amplifier for proportional cartridge throttle valves

VT-VRPA1-527...RTS-2/2V

	<p>The VT-VRPA1-527 controls throttle cartridge valves FESX with ramps.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoToelectronics</p>
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Features

- Analog amplifier in Europe card format for installation in 19 rack
- Closed-loop controlled output stage
- Outputs short-circuit-proof
- Open-circuit detection for feedback signal cable
- Closed-loop position control with PID action
- Ramp function:
 - External voltage-controlled ramp adjustment via differential inputs
 - Ramp function can be shut down

Detailed information:
 • RE30053

Technical Data

Card dimensions (W x L x H)	mm (in.)	100 x 160 x ~35 (3.93 x 6.29 x ~1.38) Eurocard format with front panel (7 modular spacing)
Plug connector		DIN 41612 – F32
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)
Power supply (U_B at $z_2 - b_2$)		Nominal 24 VDC; Battery voltage 21...40 V, rectified AC voltage $U_{eff} = 21...28$ V (single-phase, full-wave rectification)
Maximum valve solenoid	A/VA	2.7/40
Current rating	A	1.5
Power consumption (typical)	W	37

Type	Suitable for valve type
VT-VRPA1-527-2X/V0/RTS-2/2V	FESX

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional control amplifier

VT-VRPA1...PV-RTP



The VT-VRPA1-537-1X/V0/PV-RTP is used to control direct operated pressure control valves DBETBX. It has both zero and maximum adjustments to optimize the pressure range for the hydraulic circuit. Ramp times are controlled by potentiometer adjustment.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Output stage with closed-loop control
- Rapid energizing and de-energizing for fast response times
- Ramp can be adjusted and deactivated

Detailed information:

- RE30054

Technical Data

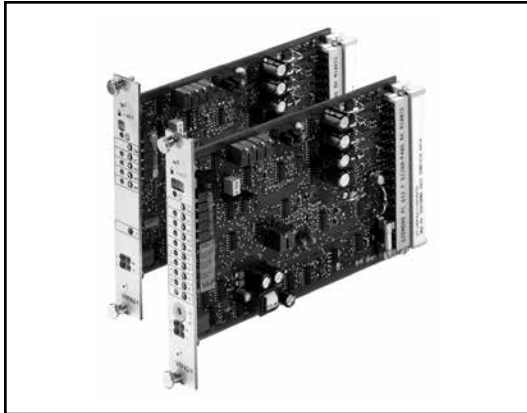
Operating voltage	VDC	24
Plug connector		DIN 41612 – F32
Valve solenoid max.	A/VA	3.7/50 (Size 6)
Input signal	V	0 to ± 10
Card dimensions	mm (in.)	Eurocard 100 x 160 x ~35 (3.93 x 6.29 x ~1.38)
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)

Type	Suitable for valve type
VT-VRPA1-537	DBETBX-1X

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifier card for 4/3 proportional directional valves of type 4WRE

VT-VRPA2-.../T1



The VT-VRPA2-1 controls direct operated proportional directional valves, type 4WRE6 series 2X. The VT-VRPA2-2 controls direct operated proportional directional valves, type 4WRE10 series 2X.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Designed as printed circuit board in Euro-format 100 x 160 mm and suitable for installation in a rack
- Command value inputs:
 - Differential input $\pm 10\text{ V}$
 - Four callable command value inputs $\pm 10\text{ V}$
 - Current input 4 to 20 mA
- Inversion of the internal command value signal via 24V input or by means of jumpers
- Selection of ramp time through quadrant recognition (24V input) or ramp time call-ups (24V inputs) (option T5)

Detailed information:
• RE30119

Technical Data

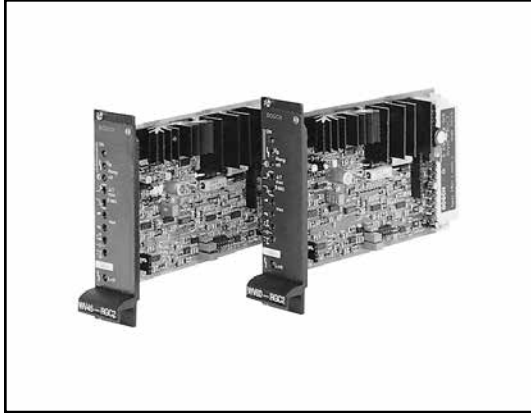
Operating voltage	VDC	24 + 40% – 20%
Power consumption	P_S	< 24 VA
Current consumption	I	< 2 A
Type of connection		48-pin male connector, DIN 41612, form F
Card dimensions (W x L x H)	mm (in.)	Eurocard 100 x 160 (3.93 x 6.29), DIN 41494

Type	Suitable for valve type
VT-VRPA2-1-1X/...T1	4WRE6 series 2X
VT-VRPA2-2-1X/...T1	4WRE10 series 2X

GoTo Focused Delivery Program: Proportional Electronics

Electrical proportional amplifier

VT-VRPA2-5...RTP



The VT-VRPA2-5.../RTP/ is suitable for controlling direct operated 4WRP valves. It offers both zero and maximum adjustments for both solenoids. Ramp times are set by potentiometer adjustments for both acceleration and deceleration.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Ramp generator can be deactivated
- Deadband compensation

Detailed information:

- RE30048

Technical Data

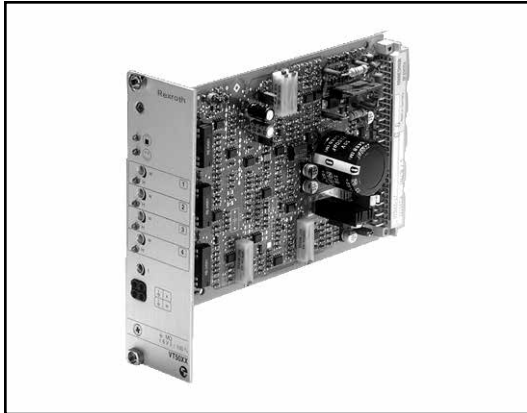
Operating voltage	VDC	24	
Plug connector		DIN 41612 – F32	
Valve solenoid max.	A/VA	2.7/25 (Size 6)	3.7/50 (Size 10)
Current rating	A	1.5	2.5
Power consumption (typical)	W	35	60
Input signal (setpoint)	V	0 to ± 10	
Card dimensions	mm (in.)	Eurocard 100 x 160 x ~35 (3.93 x 6.29 x ~1.38)	
Ambient temperature range	°C (°F)	0 to +70 (0 to +158)	

Type	Suitable for valve type
VT-VRPA2-527	4WRP 6, series 1X
VT-VRPA2-537	4WRP 10, series 1X

GoTo Focused Delivery Program: Proportional Electronics

Electrical amplifier for displacement control with proportional pumps

VT 5035-1X/



VT 5035 amplifiers are used for adjusting the flow of variable displacement pumps of types A4VSO and A4VSG with EO control (see RE92050, RE92076 and RE92100).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Differential input
- Enable input with LED indicator lamp
- “Ready for operation” signalled by LED
- Ramp generator
- Four command values that can be adjusted by means of a potentiometer; call-up is signalled by LEDs
- Controller for swivel angle
- Two clocked current output stages
- Oscillator and demodulator for inductive position measurement with cable break detection
- Reverse polarity protection for power supply

Detailed information:
• RE29955

Technical Data

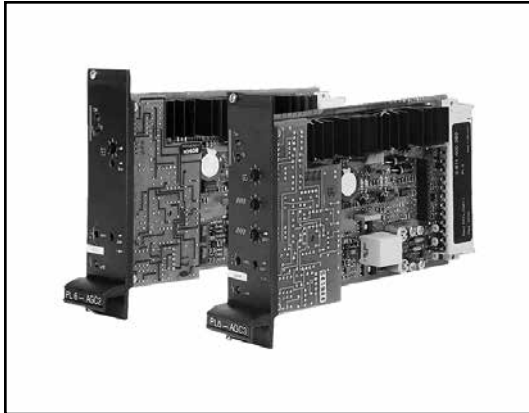
Operating voltage	U_O	VDC	24 + 40% – 5%
Power consumption	P_S	VA	< 50
Current consumption	I	A	< 2
Oscillator frequency	f	kHz	2.5 ± 10 %
Type of connection	32-pin male connector, DIN 41 612, form D		
Card dimensions	Euro-card 100 x 160 mm, DIN 41 494		
Permissible operating temperature range	°C (°F)	0 to +50 (0 to +122)	
Storage temperature range	°C (°F)	–25 to +85 (–13 to +185)	

Type	Suitable for pump types
VT-5035-1X	A4VSO and A4VSG

GoTo Focused Delivery Program: Proportional Electronics

Analog amplifiers for high-response valves

VT-VRRA



The amplifier VT-VRRA1 controls standard servo solenoid valves with DC-LVDT feedback for direct operated 4WRPH..L-2X and 2-stage 4WRL..-3X. These are basic amplifiers. Since these components are normally used in closed loop applications, other features like ramp, time, and spool compension (jump) are not needed.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Eurocard format
- Controlled output stage
- Enable input
- Short-circuit-proof outputs
- Adjustment options: Valve zero point
- Cable break detection for actual value cable
- Closed-loop position control with PID characteristics

Detailed information:

- RE30041
- RE30045

Technical Data

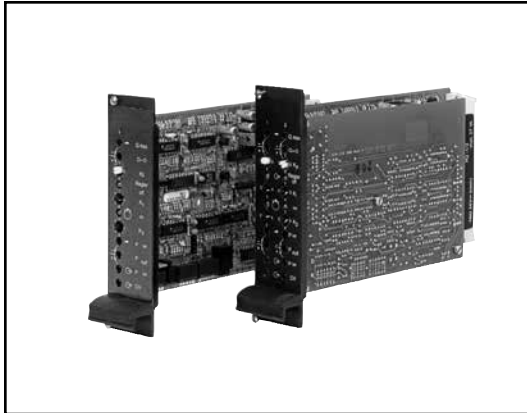
Operating voltage	U	VDC	24
Command value, depending on type	U	V	0 to 10, ±10
Type of connection			32-pin male connector, Form F
Card dimensions		mm (in.)	Eurocard 100 x 160 (3.4 x 6.3), DIN 41494
Ambient temperature range	∅	°C (°F)	0 to +70 (0 to +158)

Type	Suitable for valve type	Detailed information:
VT-VRRA1-527-2X/V0	4WRPH 6 ... L-2X	RE30041
VT-VRRA1-527-2X/V0/2STV	4WRL ... M-3X; 3WRCB, NG25 to 50	RE30045
VT-VRRA1-537-2X/V0	5WRPH10...L-2X	RE30041

GoTo Focused Delivery Program: Proportional Electronics

p/Q amplifier

VT-VARAP1



The p/Q amplifier is comprised of a base card with front panel containing the valve amplifier for 4WRPH6 with closed loop pressure controller. When used with the appropriate servo solenoid valves and pressure sensors, this unit can be employed for controlling flow and pressure in a closed-loop control circuit. The input parameters are the setpoints for pressure p and flow Q .

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Suitable for actuating directly operated and pilot operated servo solenoid valves
- Analog amplifiers in Eurocard format for installation in 19" rack
- Output stage with closed-loop control
- Rapid energizing and de-energizing for fast response times
- Enabling input
- Short-circuit-proof outputs
- External control shutoff
- Open-circuit detectin for feedback signal cable and pressure sensor
- Suitable for pressure sensors (1...6 V, 0...10 V, 4...20 mA)
- Closed-loop position control with PID action

Detailed information:
 • RE30058

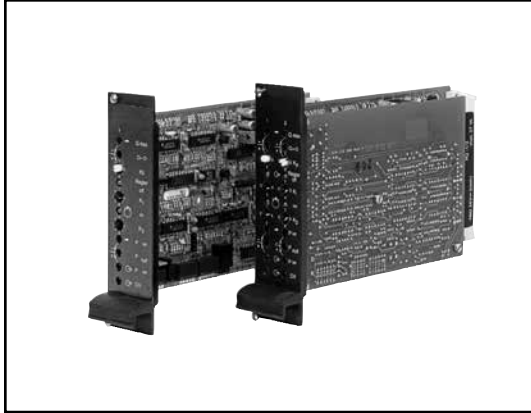
Technical Data

P.C.B. format (W x L x H)	mm (in.)	100 x 160 x ~35 (3.93 x 6.29 x ~1.38) Europe format with front panel (7 modular spacings)
Plug connector		Connector DIN 41612 – F 32
Power supply – U_B to Z2 – b2		24 V DC
Power consumption (typical)		37 W
Input signal (setpoint Q)		b 20: 0...+10 V; z 20: 0...+10 V – Difference amplifier ($R_i = 100 \text{ k}\Omega$)
Input signal (setpoint p)		z 12: 0...10 V; z 10: 0 V – Difference amplifier
Feedback signal from pressure sensor		z 14: 4...20 mA current input; b 16: 0...+10 V / 1...+6 V voltage input; b 18: 0 V reference

Type	Suitable for valve type
VT-VARAP1-527	4WRPH6

GoTo Focused Delivery Program: Proportional Electronics

p/Q controller VT-VACAP



The input parameters for the card comprise the setpoint value for valve position, the setpoint value for pressure, the actual (feedback) pressure and any control mode signals. The pressure sensors with voltage interface receive their voltage supply from the card (z6/z8). Cards are for the connection of pressure sensors with both voltage and current signals.

The setpoint value for pressure is selected via potentiometer. The potentiometers can be supplied from the card (z32/b12). Test connections in the front plate and on the card are available for monitoring and compensation tuning of the most important parameters.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Analog amplifiers in Europe card format for installation in 19 rack
- Suitable for servo solenoid valves with on-board electronics
- Closed-loop position control with PID action
- Short-circuit-proof outputs
- External deactivation for pressure controller
- Suitable for pressure sensors (1...6 V, 0...10 V, 4...20 mA)
- Supply for pressure sensors
- Detection of open circuit to pressure sensors
- For valves with on board electronics (OBE)

Detailed information:

- RE30134

Technical Data

P.C.B. format (W x L x H)	mm (in.)	100 x 160 x ~35 (3.93 x 6.29 x ~1.38) Europe format with front panel (7 modular spacings)
Plug connector		Connector DIN 41612 – F 32
Ambient temperature	°C (°F)	operating temperature: 0 to +70 (32 to +158), storage temperature: –20 to +70° (–4 to +158)
Current rating		0811405157 max. 160 mA

GoTo Focused Delivery Program: Proportional Electronics

Digital closed-loop control electronics

VT-HACD-3



The VT-HACD-3-2X closed-loop control electronics is a module that is installed on a top hat rail. A microcontroller controls the entire process, makes adjustments, establishes links and realizes the closed control loops. Data for configuration, command values and parameters are stored in a FLASH in a non-volatile form.

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Use as command value card for generating, linking and normalizing signals
- Use as controller card for closed loop control with PIDT1 controller and optional state feedback
- Alternating control possible (e.g. position control with superimposed pressure control)
- Configurable analog and discrete I/O
- Digital SSI or incremental position measuring system
- Possibility of sequence control through block call-ups with command values, ramp times and controller parameters
- PC software BODAC for configuration, parameterization and diagnostics
- Field bus systems: PROFIBUS DP or EtherNet IP

Detailed information:
 • RE30543

Technical Data

Operating voltage	VDC	24
Command value signal	V	0 to 10; +/-10
	mA	0 to 20; 4 to 20
Output signal	V	0 to 10; +/-10
	mA	0 to 20; 4 to 20
Scanning time	m/sec	2
Serial interface		RS 232
Installation		DIN Rail mount
Dimensions	mm (in.)	120 x 55 x 118 (4.72 x 2.17 x 4.65) compact module
Ambient temperature range	°C (°F)	0 to +50 (0 to +122)

GoTo Focused Delivery Program: Proportional Electronics

Analog positioning modules

VT-MACAS



Analog position controller type VT-MACAS supports simple position or velocity control loops for hydraulic motion systems, in combination with Bosch Rexroth servo cylinders and analog position measurement systems (potentiometers).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- DIN-rail mountable
- Open-circuit detection for feedback signal cable
- Short-circuit-proof interfaces
- Measurement taps on front panel
- Deadband compensation can be deactivated
- Position: PT1 control

Detailed information:
• RE30050


Technical Data

Operating voltage	U	VDC	24
Command value, depending on type	U	V	0 to 10; ± 10
	I	mA	4 to 20 (middle 12)
Compensation step	Can be switched off; effective in range of $\pm 4\%$		
Type of connection	Connectors + terminals		
Card dimensions	mm (in.)		86 x 110 x 95.5 (3.4 x 4.3 x 3.8)
Ambient temp. range	$^{\circ}\text{C}$ ($^{\circ}\text{F}$)		0 to +70 (32 to +158)

GoTo Focused Delivery Program: Proportional Electronics

Analog command value modules

VT-SWMA-1



Analog command value module type VT-SWMA-1 is used for controlling the hydraulic functions of valves with integrated electronics.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Supports realizing simple hydraulic functions via digital controlling
- Adjustment elements:
 - 1 potentiometer for zero point adjustment (command value offset)
 - 1 potentiometer for command value attenuation (for differential input)
 - 4 potentiometers for command value preselection
 - 5 potentiometers for ramp time adjustment
- 4 call-up possibilities each for command value and ramp time

Detailed information:
• RE29902

Technical Data

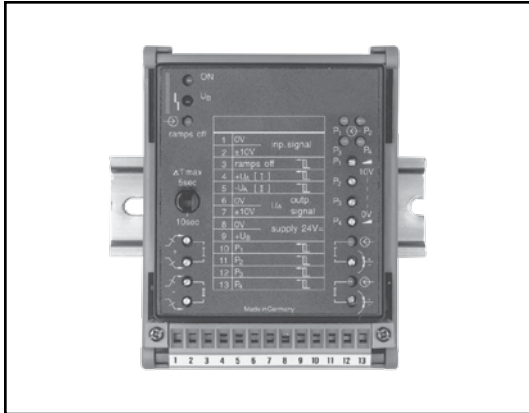
Operating voltage	U_o	VDC	24
Inputs			
Command value (differential input)	U_i	V	± 10
Quadrant operation	U_{4-Q}	V	8.5 to 35
Command value inversion	U_{inv}		
Command value call-ups 1 to 4	U		
Adjustment ranges (potentiometer)			
Zero balancing ("Z")			$\pm 30\%$
Amplitude attenuator ("G")			0% to ca. 110%
Command values ("w1" to "w4")			0% to ca. 110%
Ramp times ("t1" to "t5")			20 ms to 5 s
Outputs			
Control variable	U		± 0 to 10 V; ± 2 mA
Measuring socket for control variable "w"	U_w		± 0 to 10 V
Measuring socket for ramp time "t"	U_t		0.01 to +10 V
Type of connection			12 screw terminals
Dimensions		mm (in.)	40 x 79 x 85.5 (1.6 x 3.1 x 3.4)
Operating temperature range		$^{\circ}\text{C}$ ($^{\circ}\text{F}$)	0 to +50 (32 to 122)

See index Page 236 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

Command value and ramp modules

VT-SWMA3-5



Command value and ramp module type VT-SWMA3-5 is used to control proportional valves with integrated electronics.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- 4 internal command values
- Direction logic (+/-)
- Adjustable ramps
 - I for $+U_A$
 - II for $-U_A$
- Selector switch for ΔT_{max}
- Input for "Ramps OFF"

Detailed information:

- RE30288

Technical Data

Operating voltage	VDC	24
Signal input "UE" analog		Mode I or II: 0...+10 Mode I + II: 0...±10
Logic commands	V	24; loaded: 2...5 mA
Operating state (mode)	Unipolar	Mode I (cl. 4) for $U_A = +$ or Mode II (cl. 5) for $U_A = -$
	Bipolar	Mode I + II for $\pm U_E \rightarrow \pm U_A$
Zero point		Mode I or zero point $\rightarrow 0$ V Mode I + II zero point with +0.5 V or adjust -0.5 V U_E
Dimensions	mm (in.)	860 x 110 x 95.5 (33.9 x 4.3 x 3.8)
Ambient temperature range	°C (°F)	0 to +70 (32 to 158)

GoTo Focused Delivery Program: Proportional Electronics

Card holder

VT 3002



The VT-3002 card holder is available in either a 32-pin or 48-pin connection format (Form D or Form F). Individual screw terminals aid in robust field connections while the VT-3002 provides a stable platform to anchor field connections. Push buttons on each side permit releasing an amplifier board without incurring undue stress on an amplifier's faceplate.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Card holders allow the simple installation and wiring of individual electronic cards in Euro format, e.g. in switching cabinets
- Can be screwed on or snapped onto DIN rails
- Vertical mounting onto a DIN rail, possible with an additional adaptor (included within the scope of supply)
- Stable base
- Card locking and releasing by lever operation
- Connection via screw terminals

Detailed information:
 • RE29928

Technical Data

Terminal voltage to VDE 0110 C	<i>U</i>	VAC	Max. 48 VAC/DC
Current loading capacity	– VT 3002-1-2X/32D	<i>I</i>	A
	– VT 3002-1-2X/32F	<i>I</i>	A
	– VT 3002-1-2X/48F	<i>I</i>	A
Cross-section connection	<i>A</i>		Plug-in screw terminals max. 4 mm ²
Connection type: (socket connection)	– VT 3002-1-2X/32D		32-pin socket connector, form D, DIN 41612
	– VT 3002-1-2X/32F		32-pin socket connector, form F, DIN 41612
	– VT 3002-1-2X/48F		48-pin socket connector, form F, DIN 41612
Pin allocation:	– VT 3002-1-2X/32D		Even numbered, rows a/c
	– VT 3002-1-2X/32F		Even numbered, rows b/z
	– VT 3002-1-2X/48F		Even numbered, rows d/b/z
Permissible ambient temperature range	ϑ	°C (°F)	–20 to +70 (–4 to +158)
Weight	<i>m</i>	kg (lbs.)	0.5/0.8 (1.1/1.8)

GoTo Focused Delivery Program: Proportional Electronics

Plug-in switching amplifier

VT-SSBA1



The VT-SSBA1 switching amplifier is directly mounted on the valve's K4 connector. It is supplied with 24 V direct voltage. As a fast switching amplifier, the VT-SSBA1 considerably reduces the switching time of standard directional valves in connection with 12 V solenoid coils. As a power reducer, the switching amplifier considerably reduces the holding current when using 24 V standard directional valves.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Control of hydraulic on/off valves with 12 V solenoids which are to be switched fast (fast switching amplifier)
- Energy saving due to power reduction when controlling hydraulic on/off valves with 24 V solenoids (power reducer)
- Suitable for controlling on/off valves of type WE6 and WE10 with 12 V or 24 V DC solenoids
- Potted-in cable with open end
- 3-conductor connection, power supply and release separated
- Short-circuit proof output
- Status display of the switching status by LED
- CE mark

Detailed information:

- RE30362

Technical Data

Max. operating temperature	°C (°F)	-20 to +60 (-4 to +140)
Operating voltage (nominal voltage)	U_B	24 V ± 10%
Holding current	I_{max}	2 A
Control Voltage (release "IN")	- ON	U_{IN} 10 to 30 V
	- OFF	U_{IN} < 3.5 V
Switch-on repetition rate	f	≤ 1 Hz
Protection class according to EN 60529		IP 65, IP 67
Switch-on duration	- V001	t 100 to 115 ms
	- V002	t 300 to 315 ms
Pulse width modulation	- V001	% 40 ± 5% on
	- V002	% 60 ± 5% on

Type	Suitable for valve type
VT-SSBA1-PWM-1X/V001/5	
VT-SSBA1-PWM-1X/V002/5	WE6

See index Page 236 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Proportional Electronics

3/3 proportional directional valves direct operated, with electrical position feedback as pilot valves for control systems SY(H)DFE VT-DFP



The VT-DFP-A-2X/G24K0/0/V is the pilot control valve for the SYDFE1 system. In conjunction with amplifier VT5041, it controls the swashplate angle of the pump in either closed loop pressure or flow control. This valve is to be considered a part and not a complete control.

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Pilot valve for the pressure and flow control system SY(H)DFE
- Actuation by means of a proportional solenoid with electrical feedback
- Control electronics:
 - VT-DFP (for SY(H)DFE1) → external analog amplifier VT 5041-3X/

Detailed information:
 • RE29016

Technical Data

Type			VT-DFP
Operating pressure	Port A, P	bar (PSI)	350 (5100)
	Port T	bar (PSI)	100 (1450)
Control			External amplifier VT-5041-3X

GoTo Focused Delivery Program: Proportional Electronics

Service case with test unit for servo & proportional valves with integral electronics (OBE) VT-VETSY-1



For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToelectronics

Features

- The service case comprises a test unit, power supply unit 24 V, connecting cables and adapter cables (see ordering code)
- The test unit can be used to control and carry out functional tests on servo and proportional valves with integral electronics and operating voltages of ± 15 V or +24 V
- Simplifies commissioning and troubleshooting in hydraulic systems with servo and proportional valves

Detailed information:

- RE29685

Technical Data

Service case			
Dimensions		(W x H x D)	450 x 100 x 350 mm (17.72 x 3.94 x 13.78 in.)
Weight	empty	kg (lb-ft)	2 (4.41)
	complete	kg (lb-ft)	4.3 (9.48)
Power supply			
Output	24 VDC; 3.75 A		
Input	90–265 VAC; 47–63 Hz		

GoTo Focused Delivery Program: Proportional Electronics

Pressure transducer for hydraulic applications

HM20



The HM20 measures pressure and outputs voltage or current. It is suitable for closed loop (feedback) and most industrial applications.

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToelectronics

Features

- Measuring pressures in hydraulic systems
- Conversion of the measured pressure into a standardized electric analog signal
- Sensor with thick-film measuring cell
- Components that are in contact with the media are of stainless steel
- Operational reliability due to high bursting pressure, reverse polarity, overvoltage and short-circuit protection
- Compact design
- Very good temperature behavior
- Accuracy class 0.5
- 4-pin M12 connector at the housing
- Hydraulic port G1/4A
- Protection class IP65/IP67
- UL approval; CE approval

Detailed information:

- RE30270
- RE30272

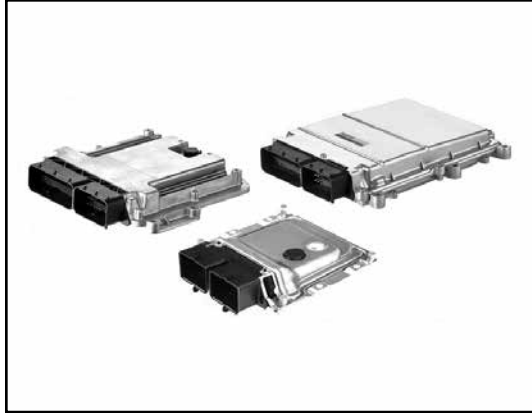
Technical Data

Operating voltage	U_S	16 to 36 VDC		
Residual ripple	U_{PP}	2.5 V (40 to 400 Hz)		
Current consumption	I_{max}	6 mA (with voltage output)		
Measurement range	$p_N - \text{bar (PSI)}$	100 (1450)	250 (3600)	400 (5800)
Output signal and admissible load R_A	I_{Sig} U_{Sig}	4 to 20 mA, two-wire, $R_A = (U_S - 8.5 \text{ V}) / 0.02 \text{ A}$ with R_A in Ω and U_S in V 0.1 to 10 V, three-wire, $R_A > 20 \text{ k}\Omega$		
Accuracy		<0.5% Related to the complete measurement range, including non-linearity, hysteresis, zero point and end value deviation (corresponds to the measuring deviation according to IEC 61298-2)		
Temperature coefficient (TK) in the nominal temperature range for zero point and range		< 0.1% / 10 K		
Hysteresis		< 0.15%		
Non-repeatability		< 0.10%		
Setting time (10 to 90%)	t	< 1 ms		
Service life		40 million load cycles or 40000 h		
Shock resistance, mechanical		15 g according to IEC 60068-2-27		
Vibration resistance in case of resonance		10 g according to IEC 60068-2-6		
Electromagnetic compatibility (EMC)		DIN EN 61326-2-3		

See index Page 236 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Mobile Electronics

BODAS RC Controllers



The BODAS controllers RC are used for the programmable control of proportional solenoids and additional switching functions. They can therefore be used for both simple and complex open- or closed-loop controls, e.g. for hydrostatic travel drives, working hydraulics or transmission control in mobile working machines. BODAS controllers RC were specially developed for use in mobile working machines, and satisfy the relevant safety requirements with regard to ambient temperature, moisture, resistance to shock and vibration, as well as electromagnetic compatibility (EMC).

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToMobileElectronics

Features

- Component of BODAS system for mobile applications
 - Robust design meeting specifications for mobile applications
 - High electromagnetic compatibility (EMC)
 - Inputs and outputs with fault detection
 - Safety features such as redundant inputs and central safety cut-off for all outputs
 - Pulse-width-modulated (PWM) solenoid currents for minimum hysteresis
 - Closed-loop control of solenoid currents, i.e. not dependent on voltage and temperature
 - Sturdy, sealed aluminum housing
- Detailed information:**
- RE95201 (RC2-2)
 - RE95205 (RC4-5)
 - RE95204 (RC12-10)


Technical Data

Type/Series	RC2-2/21	RC4-5/30	RC12-10/30
Nominal voltage	12 and 24 V		
Supply voltage	8 to 32 V		
Total inputs	16	30	75
Max. input functions			
Analog	8	28	55
Digital	16	29	74
Frequency	8	5	10
DSM	2	2	5
Temperature	4	4	4
Outputs			
Proportional solenoid (PWM)	3	4	12
Digital	2	5	10
Analog	—	1	5
Interfaces			
RS232	1	—	—
CAN 2.0 B	1	2	4
Operating temperature	-40 to +85 °C (-40 to +221 °F)		

See index Page 237 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Mobile Electronics

BODAS Tools

	<p>The BODAS-service PC software tool provides a convenient and user-friendly method of executing service functions for BODAS controllers from Rexroth. Parameters can be displayed and edited, process variables displayed, and their values graphically plotted and recorded. In addition, error messages and configurable diagnostics are provided.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoToMobileElectronics</p>
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Features

- User-friendly Windows user interface, freely configurable work flow and online help
- Simultaneous display of multiple parameters for modification settings
- Simultaneous display of multiple process variables in graphical or numeric form
- Printout of all settings and process variables for documentation purposes
- Clear and easy-to-understand display of error messages
- Easy-to-use data logger: Save measured values (process variables and parameters) to the hard disk
- Selectable and expandable program language
- Adjustable device language (relevant to controller data, up to 4 languages available)
- Diagnosis configurations for simplified troubleshooting

Detailed information:

- RE95086

Technical Data

- Operating System:
 - Windows Vista
 - Windows 7 (only for BODAS-service. Not available for FT2 and BO-DEM)
- One free serial or CAN interface (depending on selected communications interface)
- One free USB interface (for license key - USB dongle)
- Available hard disk capacity > 200 MB
- Java runtime environment (installation occurs automatically)

GoTo Focused Delivery Program: Mobile Electronics

BODAS Sensors



Rexroth BODAS sensors measure different variables such as temperature of fluids, circuit pressure, angle of rotation, and position which provide vital information to mobile hydraulic systems. As a component of the BODAS system, these elements are designed to withstand high ambient loads, external vibrations and impact, and harmful fluids that are encountered in mobile applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToMobileElectronics

Features

- Harmonized to BODAS controllers and hydraulic components
- High temperature range
- Resistant to shock and vibration
- High electromagnetic compatibility
- Robust casing with high IP degree of protection

Detailed information:

- RE95160 (PO1)
- RE95155 (PR3)
- RE95140 (WS1)
- RE95180 (TSF)

Technical Data

Type	Measures	Measurement range	Input current (max.)	Protection class (with mating plug)	Plug connection*	Application (typical)
TSF	Temperature	-40 °C to 150 °C	5 mA	IP64A	Jet connector, 2-pin	Enables the measurement of pressurized fluid temperatures of coolants, hydraulic oil or motor oil in vehicles.
PR3	Pressure	400–600 bar	5 mA	IP67 and IP69K	AMP Superseal, 3-pin	For the measurement of pressure within hydraulic circuits, ideally suited for mobile applications.
WS1	Angle	-45°...+45°	11 mA	IP69K	AMP MQS, 6-pin	For the measurement of rotary movements of an adjusting shaft or angle of levers to determine the setting of diesel injection pump levers.
PO1	Position	0 to 10 mm	20 mA	IP69K	AMP Superseal, 3-pin	Intended for position measurement up to 10 mm. Typically for use as part of an electro-hydraulic hitch control.

* Mating connectors can be found on p. xxx

See index Page 237 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Mobile Electronics

BODAS Display

Display DI3



The BODAS display DI3 series, offers freely configurable and high-resolution VGA color displays with powerful integrated 32-bit graphics processor for use in mobile working machines. These can be used for displaying alphanumeric elements, process variables and operating states, as well as static and dynamic graphic elements, such as pointer instrument and menus, for instance. Additional features for DI3 video include 2 video inputs and voltage supply for video sources, as well as picture-in-picture display.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomobileelectronics

Features

- Bright, high-contrast 6.5" VGA 640 x 480 pixel color display
- Powerful 32-bit graphics processor
- Ergonomic design
- 2X CAN bus interface 2.0A or 2.0B (configurable)
- Case designed for stand-alone mounting or for integration in the control panel
- Graphic display configuration tool for quick and flexible development of screen content
- Flash programmed through CAN bus
- Integrated real-time clock

Detailed information:

- RE95270
- RE95271

Technical Data

BODAS Video Display DI3	
Nominal voltage	12 V and 24 V
Supply voltage	9...32 V
Current consumption	800 mA / 500 mA
Power input	
During operation	10 W
Camera supply	12 W (max)
Standby	0.01 W
CAN 2.0 B interface	2
Video interface (PAL, NTSC)	2x
Operating temperature	-30 °C...+75 °C
Graphics configuration tool	BODAS DCT SW Tool

BODAS DCT SW Tool	
Device settings	✓
Graphic display pages	✓
Fonts	✓
Parameter settings	✓
Menus	✓
Dialog boxes	✓
Alarm messages	✓
Video pages	✓
Graphic library	✓

GoTo Focused Delivery Program: Mobile Electronics

BODAS Display

Color Video Camera



The BODAS color video camera, in combination with the BODAS DI3 display, facilitate the display of images from the work area or rearward area of a machine. Thanks to the high-quality optics and the CMOS image sensors, the BODAS cameras supply a high-quality and distortion-free image, even in the event of direct sunlight, and can be rendered reflected if necessary.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToMobileElectronics

Features

- Robust design for use in mobile equipment (IP69k)
- Flexible clamp for universal mounting
- Opening angle of 100° or 120°, horizontal
- High light sensitivity for use even at twilight
- Distortion-free picture display
- Integrated, self-activating heater

Detailed information:

- RE95280

Technical Data

CAM-PRO/10	
Image sensor	1/4" CMOS
Signal format	NTSC
Image reproduction	525 lines, 60 images/sec
Illumination (min.)	0.5 Lux
Resolution	> 300 lines
Lens	Standard optics w/ image correction
Horizontal opening angle	100°
Vertical opening angle	85°
Nominal voltage	12 V and 24 V
Supply voltage	9...36 V
Power input	
Heating off	Approx. 1 W
Heating on	Approx. 4 W
Operating temperature	-40 °C...+85 °C

See index Page 237 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Mobile Electronics

Analog Amplifier RA



The analog amplifier activates up to two proportional solenoids. The specified control voltage is processed in the amplifier as an input command signal. The analog amplifier provides a regulated electric current as an output signal for actuation of proportional solenoids.

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoToMobileElectronics

Features

- The electronic analog amplifier operates up to two proportional solenoids and a switching function:
- Optional interlock of actuation for proportional solenoids
- Supply voltage for external setpoint potentiometer
- Monitoring of setpoint potentiometer for cable breakage and short circuit
- Externally actuated switching output
- Error output
- Separately adjustable ramp times
- Overload protection, overvoltage protection, conditional short-circuit protection
- Separately adjustable I_{min} and I_{max} for every solenoid
- Externally adjustable PWM frequency

Detailed information:
 • RE95230

Technical Data

		RA2-1
Nominal Voltage	12 and 24 V	
Residual ripple (DIN 40839, Section 1)	max. ± 2 V	X
Supply voltage, perm, range	10 ... 32 V	
Current Consumption		
without load	mA	150
with load, max.	A	6
Fuse		
external: for switching and proportional solenoid outputs and for electronics	A T	7.5
Potentiometer Supply Voltage	0 V, 4.0 V	X
(for setpoint potentiometer 2 ... 5 kΩ)	7.2 V ... 8.4 V (depending on load)	
Voltage Input (differential amplifier)	4.0 V	2
(Setpoint voltage)		
Switch Input	> 5.0 V	1
Proportional Solenoid Outputs (PWM)		
Current range	0...2.3 A	2
Pulse frequency	100, 200 or 350 Hz	

See index Page 237 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Mobile Electronics

BODAS Connector & Wire Kits

GoTo www.boschrexroth-us.com/GoToMobileElectronics

BODAS Wire Kits

Material No.	Description	Contact type	Explanation
R978730359	BWK1-16-10-2BK	MATRIX 1.2	(2) 10 m black wire, 16 AWG
R978730358	BWK1-18-2-10BK	MATRIX 1.2	(10) 2 m black wire, 18 AWG
R978730360	BWK2-16-2-3RD	BDK 2.8	(3) 2 m red wire, 16 AWG
R978730362	BWK3-18-2-10BK	BCB 0.6 (RC4-5)	(10) 2 m black wire, 18 AWG
R978730363	BWK3-18-5-4BK	BCB 0.6 (RC4-5)	(4) 5 m black wire, 18 AWG
R978730364	BWK4-18-5-4BK2RD	MQS 1.5-CB (RC4-5)	(4) 5 m black & (2) 5 m red wire, 18 AWG

BODAS Connectors

Material No.	Description	Plug type	Explanation
R978730366	BCK1-58-R RC../30 not 4-5	Series 30 RC	58 contacts, right wire access
R978730365	BCK1-96-L RC../30 not 4-5	Series 30 RC	96 contacts, left wire access
R978730367	BCK2-56-R RC4-5/30 Only	Series 30 RC	56 contacts, right wire access
R902603622	RC../30 96+58 Mating Con. Kit	Series 30 RC	96 & 58 contact connector set
R902602414	RC 52 Pin Mating Connector	Series 20 RC	52 contact mating connector


BODAS Contact Kits

Material No.	Description	Connector	Explanation
R978057364	BCK1-58-CONTACTS	BCK1-58-R	58 un-crimped pins for Series 30 controller connector (except RC4-5)
R978057363	BCK1-96-CONTACTS	BCK1-96-L	96 un-crimped pins for Series 30 controller connector (except RC4-5)
R978057365	BCK2-56-CONTACTS	BCK2-56-R	56 un-crimped pins for RC4-5 Series 30 controller connector

GoTo Focused Delivery Program: Mobile Controls

Stackable single axis hydraulic pilot controllers

2TH6

	<p>Hydraulic pilot control units of the type 2TH6 operate on the basis of direct operated pressure reducing valves. Pressure in the relevant control port is proportional to the stroke of the control lever. This pressure control as a function of the control lever position and the characteristics of the control spring enables the proportional hydraulic control of directional valves and high response control valves for hydraulic pumps and motors.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTomacontrols</p>
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Features

- Precise and play-free control characteristics
- Low actuation force at the lever
- Rust-free plunger
- Stackable single axis controllers, up to 6 controllers in one assembly
- Lever operator available "L" spring center, "P" friction detent, or "M" 3-position detent available
- Standard die-cast aluminum base or cast iron base for marine or underground applications

Detailed information:
 • RE64552

Technical Data

2TH6		
Inlet pressure (max.)	bar (PSI)	50 (725)
Control flow (max.)	l/min (GPM)	16 (4.2)

GoTo Focused Delivery Program: Mobile Controls

Hydraulic remote controls

2TH7 and 4TH7



Hydraulic pilot controllers, 2 ported with foot pedal actuation, and 4 ported with independent side lever actuation. Accurate and smooth actuator control provides linear output for optimum machine control.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTomacontrols

Features

- Precise and play-free control characteristics
- Progressive, sensitive operation

Detailed information:

- RE64558


Technical Data

2TH7Q		
Inlet pressure (max.)	bar (PSI)	50 (725)
Output signal pressure range	bar (PSI)	5.8 – 19 (84 – 276)
Control flow (max.)	l/min (GPM)	up to 20 (5.3)
Torque (max. permissible) at pedals	Nm (lb-ft)	20 (14.75)
Weight	kg (lbs.)	6.2 (13.66)
4TH7J		
Inlet pressure (max.)	bar (PSI)	50 (725)
Output signal pressure range	bar (PSI)	5.8 – 19 (84 – 276)
Control flow (max.)	l/min (GPM)	up to 20 (5.3)
Torque (max. permissible) at levers	Nm (lb-ft)	8 (5.9)
Weight	kg (lbs.)	3.5 (7.71)

GoTo Focused Delivery Program: Mobile Controls

Hydraulic pilot control units for armrest installation

4TH6

	<p>Hydraulic 4 ported pilot controller with joystick actuation. Accurate and smooth actuator control provides linear output for optimum machine control. Robust ergonomic joystick handle featuring double and single contact thumb rocker switch and one single contact trigger rocker switch for control of electrical on/off auxiliary control devices.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTomacontrols</p>
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Features

- Progressive, sensitive operation
- Low actuation forces
- Several ergonomic grips with various E contacts
- All connections point downwards

Detailed information:
 • RE64555

Technical Data

4TH6		
Inlet pressure (max.)	bar (PSI)	up to 50 (725)
Output signal pressure range	bar (PSI)	5.8 – 19 (84 – 276)
Control flow (max.)	l/min (GPM)	up to 16 (4.2)
Torque (max. permissible) at lever	Nm (lb-ft)	10 (7.37) during operation
Weight	kg (lbs.)	2.6 (5.7)

GoTo Focused Delivery Program: Compact Hydraulics

Check, poppet type VUCN-08A & VUCN-10A



When pressure at 1 rises above the spring bias pressure, the poppet is lifted and flow allowed from 1 to 2. The valve is closed (checked) from 2 to 1. Precision machining and hardening processes allow virtually leak-free performance in the checked condition.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Common cavity
 - Size 08
 - Size 10

Detailed information:

- RE18318-89
- RE18318-90


Technical Data

		VUCN-08A (Size 08)	VUCN-10A (Size 10)
Max. operating pressure	bar (PSI)	420 (6000)	350 (5000)
Max. flow	l/min. (GPM)	50 (13)	80 (21)
Max. internal leakage	drops/min.	5	5
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)	
Installation torque	Nm (ft-lbs)	34–41 (25–30)	41–47 (30–35)
Weight	kg (lbs)	0.12 (0.27)	0.15 (0.33)
Cavity		CA-08A-2N	CA-10A-2N
		see data sheet RE18325-70	
Line bodies		See Accessories, page 140	
Seal kit	code material no.	RG08A2010520100 R901101437	RG10A2010520100 R901111363
Fluids		Mineral-based or synthetics with lubricating properties at viscosities: 5 to 800 mm ² /s (cSt)	Mineral-based or synthetics with lubricating properties at viscosities: 15 to 800 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Installation		No restrictions	
Other Technical Data		See data sheet RE18350-50	

GoTo Focused Delivery Program: Compact Hydraulics

Shuttle, ball type

SELB-08A

	<p>The single ball shuttle allows flow from the higher pressure of two work ports 1 and 3 to the 2 port.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTocompact</p>
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Features

- Common cavity
 - Size 10

Detailed information:
 • RE18319-80

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	See performance graph in data sheet
Nominal size		DN 3
Max. internal leakage	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	34–41 (25–30)
Weight	kg (lbs)	0.06 (0.13)
Cavity		CA-08A-3N See data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A3010520100 R930000861
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

GoTo Focused Delivery Program: Compact Hydraulics

Relief, direct acting guided poppet type

VSBN-08A & VSBN-10A



Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 2 to tank. Pressure at port 2 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Common cavity
 - Size 08
 - Size 10

Detailed information:

- RE18318-04
- RE18318-05


Technical Data

		VSBN-08A (Size 08)	VSBN-10A (Size 10)
Max. operating pressure port 1 (P)	bar (PSI)	350 (5000)	
Max. pressure permitted port 2 (T)	bar (PSI)	140 (2000)	350 (5000)
Max. flow	l/min (GPM)	20 (5.3)	50 (13)
Max. internal leakage (*)	drops/min.	15	
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)	
Installation torque	Nm (ft-lbs)	34–41 (25–30)	41–47 (30–35)
Weight	kg (lbs)	0.09 (0.2)	0.2 (0.44)
Cavity		CA-08A-2N	CA-10A-2N
		see data sheet RE18325-70	
Line bodies		See Accessories, page 140	
Seal kit	code material no.	RG08A2010520100 R901101437	RG10A2010530100 R901111366
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Installation		No restrictions	
Other Technical Data		See data sheet RE18350-50	

(*) Max. to 80% of nominal setting

GoTo Focused Delivery Program: Compact Hydraulics

Relief, direct acting poppet type differential area VSDN-10A

	<p>Flow is blocked from 2 to 1 until pressure increases to meet the selected valve setting, lifting the poppet from its seat and allowing relief flow through port 1 to tank. Pressure at port 1 is additive to the relief setting of the valve. The unique Bosch Rexroth Oil Control poppet design provides enhanced stability at all flows and pressures.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTocompact</p>
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Features

- Common cavity
 - Size 10

Detailed information:
• RE18318-03

Technical Data

Max. operating pressure port 2 (P)	bar (PSI)	350 (5000)
Max. pressure permitted port 1 (T)	bar (PSI)	140 (2000)
Max. flow	l/min (GPM)	120 (32)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight	kg (lbs)	0.2 (0.44)
Common cavity		CA-10A-2N see data sheet RE18325-70
Seal kit (**)	code material no.	RG10A2010520100 R901111363
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) at 80% of cracking pressure

(**) Only external seals for 10 valves

GoTo Focused Delivery Program: Compact Hydraulics

Relief, pilot operated spool type VSPN-10A & VSPN-16A



Flow is blocked from 1 to 2 until pressure increases to meet the selected valve setting, lifting the conical, pilot-stage poppet from its seat. This action exhausts oil above the main-stage piston (spool type), allowing it to shift and provide relief flow through 2 to tank. Pressure at 2 is additive to the relief setting of the valve.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Common cavity
 - Size 10
 - Size 16

Detailed information:

- RE18318-08
- RE18318-10

Technical Data

		VSPN-10A (Size 10)	VSPN-16A (Size 16)
Max. operating pressure port 1 (P)	bar (PSI)	420 (6000)	
Max. pressure permitted port 2 (T)	bar (PSI)	350 (5000) for version 03 210 (3000) for version 04	140 (2000)
Flow range	l/min (GPM)	3–120 (1–32)	8–300 (2–79)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	200 (12)	350 (21)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)	
Installation torque	Nm (ft-lbs)	41–47 (30–35)	108–122 (80–90)
Weight (**)	kg (lbs)	0.21 (0.46)	0.45 (0.99)
Cavity		CA-10A-2N	CA-16A-2N
		see data sheet RE18325-70	
Line bodies		See Accessories, page 140	
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Installation		No restrictions	
Other Technical Data		See data sheet RE18350-50	

(*) Measured at 200 bar (2900 PSI)

(**) Standard version X=03 type

GoTo Focused Delivery Program: Compact Hydraulics

Pressure reducing and relieving, direct acting spool type VRPR-10A



Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the valve acts to restrict input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity
 - Size 10

Detailed information:

- RE18318-53

Technical Data

Max. operating pressure port 2 (P)	bar (PSI)	350 (5000), 210 (3000) for version Z=01
Max. pressure permitted port 1 (T)	bar (PSI)	105 (1500)
Flow range	l/min (GPM)	30 (8)
Max. internal leakage (*)	cm ³ /min. (cu.in./min.)	50 (3)
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight (**)	kg (lbs)	0.26 (0.57)
Cavity		CA-10A-3N, see data sheet RE18325-70
Seal kit (***)	code material no.	RG10A3010520100 R901111369
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) 1–3 to 80% of pressure setting

(**) Standard version X=03 type

(***) Only external seals for 10 valves

GoTo Focused Delivery Program: Compact Hydraulics

Pressure reducing and relieving, pilot operated spool type VRPX-10A



Initially, flow passes freely from 2 to 1. When the pressure at 1 exceeds the pressure setting, the conical poppet in the upper, pilot stage is lifted from its seat. This allows the main-stage piston to shift, restricting input flow at 2. This increases the pressure drop through the valve and maintains consistent pressure at 1. The spring chamber is drained at 3 to prevent a build-up of back-pressure against the spool. Additionally, if pressure at 1 rises above the pressure setting, flow is relieved to 3 until the setting is re-attained.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Common cavity
 - Size 10

Detailed information:

- RE18318-56

Technical Data

Max. operating pressure port 2 (P)	bar (PSI)	350 (5000)
Max. pressure permitted port 1 (T)	bar (PSI)	280 (4000)
Max. flow	l/min (GPM)	60 (16)
Standard internal pilot orifice diameter	mm	0.6
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight (*)	kg (lbs)	0.2 (0.44)
Cavity		CA-10A-3N see data sheet RE18325-70
Seal kit (**)	code material no.	RG10A3010520100 R901111369
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50


(*) Standard version X=03 type

(**) Only external seals for 10 valves

GoTo Focused Delivery Program: Compact Hydraulics

Pilot operated check, pilot to open

VSON-08U

	<p>When pressure at 2 rises above the spring bias pressure, the poppet is pushed from its seat and flow is allowed from 2 to 1. The valve is normally closed (checked) from 1 to 2. When sufficient pilot pressure is present at port 3, the pilot piston acts to push the poppet from its seat and flow is allowed from 1 to 2. Precision machining and hardening processes allow virtually leak-free performance in the checked condition. Available with "manual override" option.</p>
<p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTocompact</p>	

Features

- SUN cavity interchange
 – T11A

Detailed information:
 • RE18319-39

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	60 (16)
Pilot ratio		3:2:1
Max. internal leakage	drops/min.	5
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	40–50 (30–37)
Weight	kg (lbs)	0.12 (0.27)
Cavity		SUN T-11A
Seal kit	code material no.	RG08U9020110100 R901193388
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, standard poppet type, differential area, counterclockwise adjustment

VBSN-08U-RS & VBSN-12U-RS



When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting - turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. Any back-pressure at 2 is additive to the pressure setting in all functions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange
 - T-11A (VBSN-08U)
 - T-2A (VBSN-12U)

Detailed information:

- RE18320-17
- RE18320-18

Technical Data

		VBSN-08U-RS (T-11A)	VBSN-12U-RS (T-2A)
Max. operating pressure	bar (PSI)	350 (5000)	
Max. flow	l/min (GPM)	60 (16)	120 (32)
Max. internal leakage (*)	drops/min.	15	
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)	
Installation torque	Nm (ft-lbs)	40-50 (30-37)	60-70 (44-52)
Weight	kg (lbs)	0.19 (0.42)	0.37 (0.82)
Cavity		SUN T-11A	SUN T-2A
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Installation		No restrictions	
Other Technical Data		See data sheet RE18350-50	

Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, standard guided poppet type, counterclockwise adjustment

VBSN-08UU-RS



When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting—turn clockwise to decrease setting), the direct-acting, relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The spring chamber is drained to 2, and any back-pressure at 2 is additive to the pressure setting in all functions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- SUN cavity interchange
– T-11A

Detailed information:
• RE18320-16

Technical Data

Max. operating pressure	bar (PSI)	280 (4000)
Max. flow	l/min (GPM)	30 (8)
Max. internal leakage (*)	drops/min.	15
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	40–50 (30–37)
Weight	kg (lbs)	0.18 (0.4)
Cavity		SUN T-11A
Seal kit	code material no.	RG08U9020110100 R901193388
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting

GoTo Focused Delivery Program: Compact Hydraulics

Counterbalance, relief compensated poppet type differential area, counterclockwise adjustment

VBSP-08U-RS & VBSP-12U-RS



When pressure at 2 rises above the spring bias pressure, the check seat is pushed away from the piston and flow is allowed from 2 to 1. When load pressure at 1 rises above the pressure setting (turn counterclockwise to increase setting – turn clockwise to decrease setting), the direct-acting, differential area relief function is activated and flow is relieved from 1 to 2. With pilot pressure at 3, the pressure setting is reduced in proportion to the stated ratio of the valve, until fully open with free-flow from 1 to 2. The valve applies a balanced piston design allowing relief operation at the valve setting independent of back-pressure at 2. However, the piloted opening of the valve remains subject to additive pressure at port 2.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- SUN cavity interchange
 - T-11A (VBSP-08U)
 - T-2A (VBSP-12U)

Detailed information:

- RE18320-20
- RE18320-21

Technical Data


		VBSP-08U-RS (T-11A)	VBSP-12U-RS (T-2A)
Max. operating pressure	bar (PSI)	350 (5000)	
Max. flow	l/min (GPM)	60 (16)	120 (32)
Max. internal leakage (*)	drops/min	15	
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)	
Installation torque	Nm (ft-lbs)	40–50 (30–37)	60–70 (44–52)
Weight	kg (lbs)	0.19 (0.42)	0.37 (0.82)
Cavity		SUN T-11A	SUN T-2A
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Installation		No restrictions	
Other Technical Data		See data sheet RE18350-50	

Pressure setting: at least 1.3 times the load induced pressure.

(*) At 70% of pressure setting

GoTo Focused Delivery Program: Compact Hydraulics

Flow control valve, cartridge restrictor VST-C-06 & VST-C-10

	<p>Increasing the orifice value from fully closed to fully open, flow is permitted and regulated bi-directional from 1 to 2 and from 2 to 1.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTocompact</p>
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Features

- Common cavity
 - Size 08
 - Size 10

- Detailed information:**
- RE18321-26 (Size 08)
 - RE18321-27 (Size 10)

Technical Data

		VST-C-06 (Size 08)	VST-C-10 (Size 10)
Max. operating pressure	bar (PSI)	350 (5000)	
Rated flow	l/min. (GPM)	40 (11)	70 (19)
Fluid temperature range	°C (°F)	-30 to 100 (-22 to 212)	
Installation torque	Nm (ft-lbs)	39–51 (29–38)	44–56 (33–41)
Weight	kg (lbs)	0.09 (0.2)	0.18 (0.4)
Cavity		CA-08A-2N	CA-10A-2N
		see data sheet RE18325-70	
Line bodies		See Accessories, page 140	
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm ² /s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Installation		No restrictions	
Other Technical Data		See data sheet RE18350-50	

GoTo Focused Delivery Program: Compact Hydraulics

Needle restrictor, free reverse flow STVU-10A



With flow from 2 to 1, the valve provides a fully adjustable orifice restriction. Free flow is permitted from 1 to 2, regardless of valve adjustment, by when pressure overcomes the spring bias of the valve's check function.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity
 - Size 10

Detailed information:

- RE18321-11

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	80 (22)
Max. internal leakage (*)	drops/min.	15 closed
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	41–47 (30–35)
Weight	kg (lbs)	0.2 (0.44)
Cavity		CA-10A-2N See data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG10A2010520100 R901111363
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Measured at 200 bar (2900 PSI)

GoTo Focused Delivery Program: Compact Hydraulics

Needle restrictor, free reverse flow, fine adjustment STFU-08A



With flow from 2 to 1, the valve provides a fully adjustable orifice restriction. Free flow is permitted from 1 to 2, regardless of valve adjustment, by when pressure overcomes the spring bias of the valve's check function. STFU, compared to STVU, is suitable for applications requiring fine adjustments.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity
 - Size 08

Detailed information:
• RE18321-09

Technical Data

Max. operating pressure	bar (PSI)	350 (5000)
Max. flow	l/min (GPM)	40 (11)
Max. internal leakage (*)	drops/min.	15 closed
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	34–41 (25–30)
Weight	kg (lbs)	0.16 (0.35)
Cavity		CA-08A-2N See data sheet RE18325-70
Line bodies		See Accessories, page 140
Seal kit	code material no.	RG08A2010520100 R901101437
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 5 to 800 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Installation		No restrictions
Other Technical Data		See data sheet RE18350-50

(*) Measured at 200 bar (2900 PSI)

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, spool 3-way / 2-position

VED-8I-32-06-SE & VED-7I-32-09-SE



Solenoid-operated, 3-way / 2-position, direct-acting, spool-type, cartridge valve. When de-energized, the valve permits bi-directional flow between ports 2 and 3, while blocking flow at port 1. When the coil is energized, the valve permits bi-directional flow between ports 2 and 1, while blocking flow at port 3.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Common cavity
 - Size 08
 - Size 10

Detailed information:

- RE00162-02
(1.31.050.U & 1.31.070.U)

Technical Data

		Size 08, VED-8I	Size 10, VED-7I
Max. operating pressure	bar (PSI)	210 (3000)	210 (3000)
Rated flow	l/min. (GPM)	10 (3)	20 (6)
Max. internal leakage	cm ³ /min (in ³ /min)	40 (2.5) @ 3000 PSI	80 (4.9) @ 3000 PSI
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	39–51 (29–37)	44–56 (33–41)
Weight	kg (lbs)	0.13 (0.286)	0.22 (0.485)
Cavity		CA-08A-3N	CA-10A-3N
Line bodies		See Accessories, page 140	
Seal kit	code material no.	RG08A301053010 R901101723	RG10A3010530100 R930000990
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14	
Mounting position		Unrestricted	
Other Technical Data		See data sheet RE18350-50	

Note: Coils must be ordered separately.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, spool 4-way / 3-position

VED-7I-43-09-CC & VED-7I-43-09-ABT



Solenoid-operated, 4-way / 3-position, direct-acting, spool-type, blocked center (CC) or motor-spool center (ABT), cartridge valve. Port 3 is to be connected to the pressure supply to the cartridge and port 1 must be connected to the tank or return line. When coil S1 is energized, the valve permits flow from port 3 to port 4 and from port 2 to port 1. When coil S2 is energized, the valve permits flow from port 3 to port 2 and from port 4 to port 1. When de-energized, the flow is blocked at all ports (CC) or blocked at port 3 and connects ports 1, 2, and 4 (ABT).

For complete engineering and design information:
 GoTo www.boschrexroth-us.com/GoTocompact

Features

- Common cavity
 - Size 10
- VED-7I-43-09-CC
 - Blocked center
 - Valve blocks flow at all ports when de-energized
- VED-7I-43-09-ABT
 - Motor-spool center
 - Valve blocks flow at port 3, connects ports 1, 2, and 4 when de-energized

Detailed information:

- RE00162-02
(1.43.070.U)
(1.43.170.U)

Technical Data

		VED-7I-43-09... (Size 10)
Max. operating pressure	bar (PSI)	210 (3000)
Rated flow	l/min. (GPM)	20 (6)
Max. internal leakage	cm ³ /min (in ³ /min)	120 (7.3) @ 3000 PSI
Fluid temperature range	°C (°F)	–30 to 100 (–22 to 212)
Installation torque	Nm (ft-lbs)	44–56 (33–41)
Weight	kg (lbs)	0.27 (0.595)
Cavity		CA-10A-3N
Line bodies		See Accessories, page 140
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)
Filtration		Nominal value max. 10µm (NAS 8) ISO 4406 19/17/14
Mounting position		Inrestricted
Other Technical Data		See data sheet RE18350-50

Note: Coils must be ordered separately.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally closed VEI-8A-...-NC



Solenoid-operated, 2-way / 2-position, normally closed, pilot operated, poppet-type, cartridge valve. When de-energized, flow is permitted across the check valve function from port 1 to 2, and blocks flow leak-free from port 2 to 1. When the coil is energized, the valve allows bi-directional flow between both ports.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Common cavity
 - Size 08
 - Size 10
 - Size 16

Detailed information:

- RE18323-02 (Size 08)
- RE18323-11 (Size 10)
- RE18323-17 (Size 16)

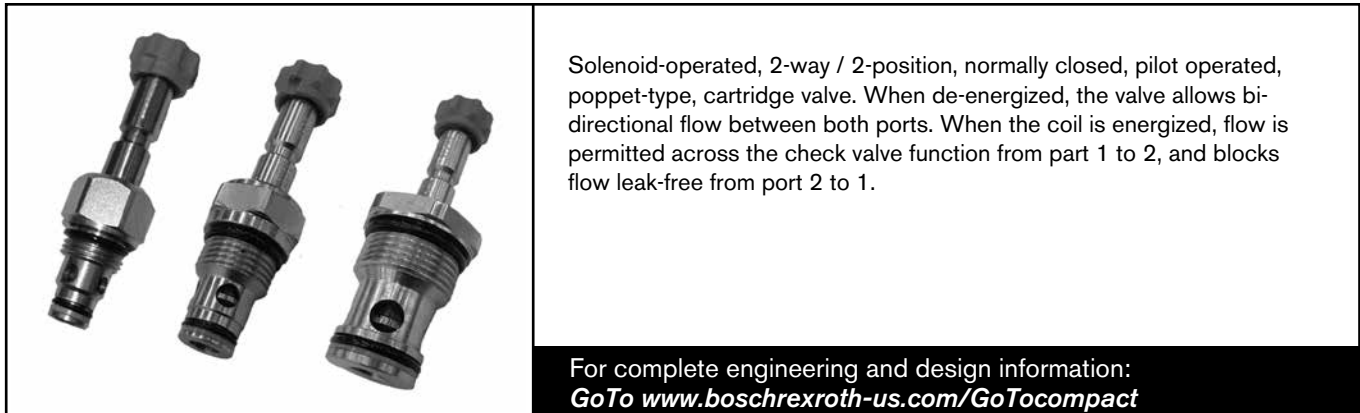
Technical Data

Model	VEI-8A-06 (Size 08)	VEI-8A-10 (Size 10)	VEI-8A-16A (Size 16)
Hydraulic			
Max. operating pressure	bar (psi)	350 (5000)	
Flow range	l/min. (gpm)	0.5-40 (0.1-11)	2-70 (0.5-18) 5-150 (1-40)
Max. internal leakage	drops/min.	20	
Fluid temperature range	°C (°F)	-20 to 80 (-4 to 178)	
Fluids		Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)	
Installation torque	Nm (ft-lbs)	39-51 (29-38)	44-56 (33-42) 80-100 (59-74)
Filtration		Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14	
Cavity		CA-08A-2N	CA-10A-2N CA-16A-2N
		See data sheet RE18325-75	
Line bodies		See Accessories section	
Other technical Data		See data sheet RE18350-50	
Electrical			
Coil type		S8-356, see Accessories section	
Supply voltage		See data sheet RE18325-90	
Nominal voltage		± 10%	
Power consumption	W	20	
Duty cycle coil	%	See performance graphs	
Type of protection		See data sheet RE18325-90	

See index Page 240 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Solenoid operated valves, pilot operated poppet type, 2-way normally open VEI-8A-...-NA



Features

- Common cavity
 - Size 08
 - Size 10
 - Size 16

- Detailed information:**
- RE18323-06 (Size 08)
 - RE18323-12 (Size 10)
 - RE18323-18 (Size 16)

Technical Data

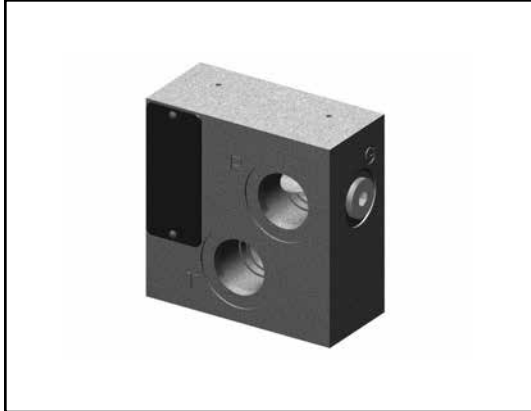
Model	VEI-8A-06 (Size 08)	VEI-8A-10 (Size 10)	VEI-8A-16A (Size 16)
Hydraulic			
Max. operating pressure	bar (psi) 350 (5000)		
Flow range	l/min. (gpm) 1.5-40 (0.4-11)	2-70 (0.5-18)	5-150 (1-40)
Max. internal leakage	drops/min. 20		
Fluid temperature range	°C (°F) -20 to 80 (-4 to 178)		
Fluids	Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm ² /s (cSt)		
Installation torque	Nm (ft-lbs) 39-51 (29-38)	44-56 (33-42)	80-100 (59-74)
Filtration	Nominal value max. 10 μm (NAS 8) ISO 4406 19/17/14		
Cavity	CA-08A-2N	CA-10A-2N	CA-16A-2N
Line bodies	See data sheet RE18325-75		
Other technical Data	See Accessories section		
	See data sheet RE18350-50		
Electrical			
Coil type	S8-356, see Accessories section		
Supply voltage	See data sheet RE18325-90		
Nominal voltage	± 10%		
Power consumption	W	20	
Duty cycle coil	%	See performance graphs	
Type of protection	See data sheet RE18325-90		

See index Page 240 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

Inlet plate – basic

TA-00



The inlet elements TA-00-__ are employed to connect the external P, T lines to the P, T channels inside the ED elements of the Directional Valve Assembly and to connect to the LS ports of the elements equipped with LS channels.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Port sizes: P and T – SAE 8; LS and G – SAE 4
- Includes a test point port “G” for pressure gauge connection
- Special plating and coating available, C.F.

Detailed information:

- RA18300-01

Technical Data

Maximum pressure	bar (PSI)	210 (3000)*
Maximum inlet flow	l/min (GPM)	60 (15)
Material		Aluminum
Seals		NBR
Fluid temperature	°C (°F)	-20 to +80 (-4 to +176)

*For higher pressure, C.F.

GoTo Focused Delivery Program: Compact Hydraulics

Inlet plate – relief

TA-04



The inlet elements TA-04- are employed to connect the external P, T lines to the P, T channels inside the ED elements of the Directional Valve Assembly and to connect to the LS ports of the elements equipped with LS channels. They incorporate a pressure relief cartridge which limits the maximum primary pressure in the P line and unloads any excess flow to the Tank.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes: P and T – SAE 8; LS and G – SAE 4
- Special plating and coating available, C.F.

Detailed information:
 • RA18300-02

Technical Data

Maximum pressure	bar (PSI)	210 (3000)*
Maximum inlet flow	l/min (GPM)	60 (15)
Material		Aluminum
Seals		NBR
Fluide temperature	°C (°F)	-20 to +80 (-4 to +176)

*For higher pressure, C.F.

GoTo Focused Delivery Program: Compact Hydraulics

Inlet plate – relief and dump

TA-05



The inlet elements TA-05-__ are employed to connect the external P and T lines to the P and T channels inside the ED elements of the Directional Valve Assembly. They incorporate a pressure relief cartridge which limits the primary pressure in the P line. The relief setting can be checked through the Test Point port G.

When fitted, the Normally Open Solenoid Unloading VEI Cartridge unloads to Tank all the P line flow; unloading stops when the cartridge coil is energized.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Port sizes: P and T – SAE 8; LS and G – SAE 4
- Ports LS and G are provided with plugs
- Special plating and coating available, C.F.

Detailed information:

- RA18300-05

Technical Data

Maximum pressure	bar (PSI)	210 (3000)*
Maximum inlet flow	l/min (GPM)	60 (15)
Material		Aluminum
Seals		Buna N (NBR)
Fluid temperature	°C (°F)	-20 to +80 (-4 to +176)

*For higher pressure, C.F.

GoTo Focused Delivery Program: Compact Hydraulics

Inlet plate – compensator

TA-06



The inlet elements TA-06- are employed to connect the external P, T lines to the P, T channels inside the ED elements of the Directional Valve Assembly and to connect to the LS ports of the elements equipped with LS channels. An LS controlled 3-way compensator provides pressure compensated flow to the ED elements of the Directional Valve Assembly. The same 3-way compensator is also controlled by a pilot relief cartridge and unloads to tank any excess flow in order to limit the primary pressure in the system.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes: P and T – SAE 8; LS and G – SAE 4
- Ports LS and G are provided with plugs
- Special plating and coating available, C.F.

Detailed information:
 • RA18300-06

Technical Data

Maximum pressure	bar (PSI)	210 (3000)*
Maximum inlet flow	l/min (GPM)	60 (15)
Material		Aluminum
Seals		Buna N (NBR)
Fluide temperature	°C (°F)	–20 to +80 (–4 to +176)

*For higher pressure, C.F.

GoTo Focused Delivery Program: Compact Hydraulics

Exit plate, basic

TC...



The exit plate TC... is employed as end plates to plug the P and T channels of the ED element of the Directional Valve Assembly, or to provide an extra port for P, T, or P and T.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Port sizes are available in SAE 6 and SAE 8

Detailed information:

- RA18301-60

Technical Data

General		
Weight (w/o ports & SAE 6)	kg (lbs)	0.3 (0.66)
Weight (SAE 8)	kg (lbs)	0.5 (1.10)
Ambient Temperature	°C (°F)	-20....+50 (-4....+120) [NBR seals]
Hydraulic		
Maximum pressure (TC0000)	bar (PSI)	250 (3600)*
Maximum pressure	bar (PSI)	210 (3000)*
Maximum flow	l/min (GPM)	60 (15)
Hydraulic fluid	General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example: Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.	
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) [NBR seals]
Permissible degree of fluid contamination	ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: classe 20/18/15 NAS 1638: classe 9	
Viscosity range	mm ² /s	5....420

*310 bar (4500 PSI) available. Consult factory.

See index Page 240 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 – 4/2 Directional valve elements with or without secondary relief valves, with or without LS connections

L8_10... (ED1-Z) & L8_11... (ED2-DZ)



The sandwich plate design directional valve elements L8_10... and L8_11... are compact direct operated solenoid valves which control the start, stop, and the direction of the oil flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Valve elements with solenoid operated directional spool
- Control spools operated by screwed-in solenoids with extractable coils
- In the de-energized condition, the control spool is held in the central position by return springs
- Wet pin tubes for DC coils, with push rod for mechanical override; nickel plated surface
- Coils can be rotated 360° around the tube; they can be energized by AC current through special connectors with rectifier (RAC)
- Manual override (push-button or screw type) available upon request
- Plug-in connectors available; EN 175301-803 (was DIN 43650); AMP Junior; DT04-2P (Deutsch), free leads

- Detailed information:**
- RA18301-01 (L8_10)
 - RA18301-02 (L8_11)

Technical Data

Model		L8_10...	L8_11...
General			
Valve element with 2 solenoids	kg (lbs)	1.55 (3.42)	1.95 (4.3)
Valve element with 1 solenoid	kg (lbs)	1.25 (2.76)	1.45 (3.2)
Valve element with 2 solenoid with lever override	kg (lbs)	1.9 (4.2)	2.2 (4.85)
Valve element with 1 solenoid with lever override	kg (lbs)	1.6 (3.5)	1.7 (3.75)
Hydraulic			
Maximum pressure at P, A, and B ports	bar (PSI)	310 (4500)	
Maximum dynamic pressure at T	bar (PSI)	180 (2610)	250 (3625)
Maximum dynamic pressure, with lever override at T	bar (PSI)	100 (1450)	
Maximum static pressure at T	bar (PSI)	210 (3045)	310 (4500)
Maximum inlet flow	l/min (GPM)	30 (7.9)	50 (13.2)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.	
Fluid Temperature	°C (°F)	-20...+80 (-4...+176) [NBR seals]	
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: class 20/18/15 NAS 1638: class 9	
Viscosity range	mm ² /s	5...420	

See index Page 240 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 – 4/2 Directional valve elements proportional controls and with or without LS connections

L8_80... (ED4-P)



The sandwich plate design directional valve elements L8080... are compact direct operated proportional solenoid valves which control the start, the stop, the direction and the quantity of the oil flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Valve element with direct proportional control of spool
- Control spool operated by screwed-in solenoid with extractable coil
- In the de-energized condition, the control spool is held in the central position by return springs.
- Wet pin proportional tubes for DC coils, with push rod for mechanical override; nickel plated surface
- Manual override (push-button or screw type) available upon request
- Plug-in connectors available: EN 175301-803 (Was DIN 43650) and DT04-2P (Deutsch)

Detailed information:

- RA18301-06

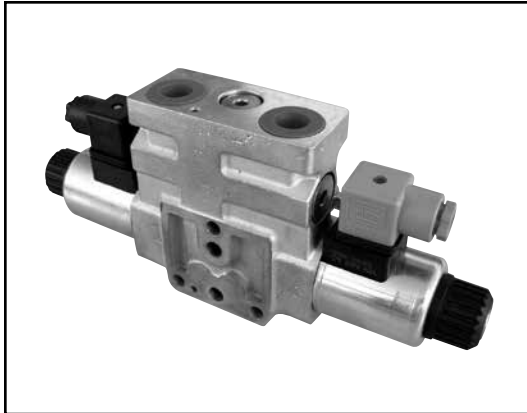
Technical Data

General		
Valve element with 2 solenoids	kg (lbs)	2.20 (4.85)
Valve element with 1 solenoid	kg (lbs)	1.70 (3.75)
Ambient Temperature	°C (°F)	-20...+50 (-4...+122) [NBR seals]
Hydraulic		
Maximum pressure at P	bar (PSI)	310 (4500)
Maximum dynamic pressure at T	bar (PSI)	210 (3050)
Maximum static pressure at T	bar (PSI)	250 (3625)
Maximum inlet flow	l/min (GPM)	45 (11.9)
Nominal flow with $\Delta P = 10$ bar	l/min (GPM)	10, 20, 30 (2.64, 5.28, 7.9)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	-20...+80 (-4...+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X = 12 \dots 15$ ISO 4406: class 20/18/15 NAS 1638: class 9
Viscosity range	mm ² /s	20...380 (optimal 30...46)

See index Page 240 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 – 4/2 Proportional directional valve elements with flow sharing control (LUDV) L8580... (EDC-P)



The sandwich plate design directional valve elements L8580... are compact direct operated pressure compensated proportional solenoid valves which control the start, the stop, the direction and the quantity of the oil flow, with a Flow Sharing principle.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Valve element with direct proportional flow sharing control
- It can achieve simultaneous activation of different actuators by distributing the available flow proportionally to the speeds selected by the operator
- Optional hand lever for dual electric and manual operation
- Manual override (push-button, screw type or lever) available upon request

Detailed information:

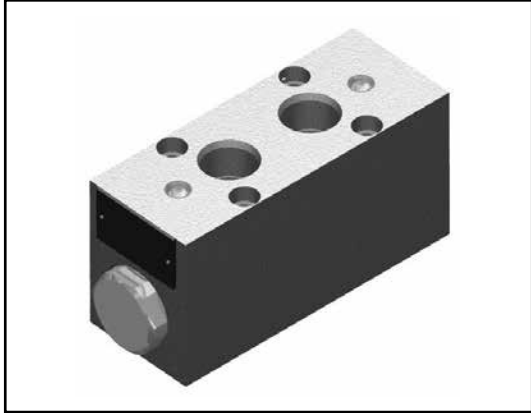
- RA18301-09

Technical Data

General		
Weight with two solenoids	kg (lbs)	3.95 (8.71)
Weight with one solenoid	kg (lbs)	3.6 (7.91)
Ambient temperature	°C (°F)	-20....+50 (-4....+122)
Hydraulic		
Maximum pressure at P, A and B ports	bar (PSI)	310 (4500)
Maximum pressure at T	bar (PSI)	210 (3045)
Maximum pressure with lever emergency at T	bar (PSI)	140 (2030)
Max regulated flow at 14 bar (203 psi)		40, 50 (10.5, 13.2)
Max regulated flow at 18 bar (261 psi)	°C (°F)	46, 58 (12.1, 15.3)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: class 20/18/15 NAS 1638: class 9
Viscosity range	mm ² /s	20....380 (optimal 30....46)

GoTo Focused Delivery Program: Compact Hydraulics

Stacking modules, pilot operated check EDM-PO



The secondary flangeable elements EDM-PO-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly.

They incorporate two Cross Piloted Check Valves which allow free flow toward the A and B outlet ports, and lock in a leak free mode the flow returning from the actuator, until sufficient pilot pressure is built up in the opposite line and the check valve is opened.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Hydraulic port sizes: A and B – SAE 8.
- Special coating and plating available, C.F.

Detailed information:

- RA18301-40

Technical Data

General		
Ambient Temperature	°C (°F)	-20...+50 (-4...+120)
Material		Aluminum
Hydraulic		
Maximum pressure	bar (PSI)	210 (3000)
Maximum flow	l/min (GPM)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	-20...+80 (-4...+176) [NBR]
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: classe 20/18/15 NAS 1638: classe 9
Viscosity range	mm ² /s	5...420

*310 bar (4500 PSI) available. Consult factory.

GoTo Focused Delivery Program: Compact Hydraulics

Stacking modules, cross-over relief EDM-CR



The secondary flangeable elements EDM-CR-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly.

The body consists of one direct acting pressure relief valve. The relief valve for line A releases the oil into line B and vice versa.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Port sizes: A and B – SAE 8
- Special coating and plating available, C.F.

Detailed information:

- RA18301-41

Technical Data

General				
Ambient Temperature	°C (°F)	-20....+50 (-4....+120)		
Material		Aluminum		
Hydraulic				
		AB	0A	0B
Maximum pressure	bar (PSI)	210 (3000)	210 (3000)	210 (3000)
Maximum flow	l/min (GPM)	60 (15)	50 (13)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.		
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) [NBR]		
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: classe 20/18/15 NAS 1638: classe 9		
Viscosity range	mm ² /s	5....420		

*310 bar (4500 PSI) available. Consult factory.

GoTo Focused Delivery Program: Compact Hydraulics

Stacking modules – Flow control

EDM-FC



The secondary flangeable elements EDM-FC-__ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly. They incorporate two unidirectional flow restrictors, and depending on the version selected, allow free flow $A1>A2$ and $B1>B2$, with controlled/restricted flow in the reverse directions $A2>A1$ and $B2>B1$, or vice-versa.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Hydraulic port sizes: A and B – SAE B
- Special coating and plating available, C.F.

Detailed information:

- RA18301-42

Technical Data

General		
Ambient Temperature	°C (°F)	-20....+50 (-4....+120)
Material		Aluminum
Hydraulic		
Maximum pressure	bar (PSI)	210 (3000)
Maximum flow	l/min (GPM)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) [NBR]
Permissible degree of fluid contamination		ISO 4572: $\beta_x \geq 75$ X=12...15 ISO 4406: classe 20/18/15 NAS 1638: classe 9
Viscosity range	mm ² /s	5....420

*310 bar (4500 PSI) available. Consult factory.

GoTo Focused Delivery Program: Compact Hydraulics

Stacking modules – Counterbalance

EDM-CB



The secondary flangeable elements EDM-CB_ can be interfaced and bolted on top of the A and B ports of the ED elements of the Directional Valve Assembly. They incorporate one or two cross piloted counterbalance valves which allow free flow toward the A and B outlet ports, and lock in a leak free mode the flow returning from the actuator. Pilot pressure in the opposite line reduces the pressure setting of the counterbalance valve in proportion to the pilot ratio until opening and allowing the flow return from the actuator.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- Hydraulic port sizes: A and B – SAE B
- Special coating and plating available, C.F.

Detailed information:
 • RA18301-43

Technical Data

General		
Ambient Temperature	°C (°F)	-20....+50 (-4....+120)
Material		Aluminum
Hydraulic		
Maximum pressure	bar (PSI)	210 (3000)
Maximum flow	l/min (GPM)	60 (15)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) [NBR]
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: classe 20/18/15 NAS 1638: classe 9
Viscosity range	mm ² /s	5....420

*310 bar (4500 PSI) available. Consult factory.

GoTo Focused Delivery Program: Compact Hydraulics

4/3 – 4/2 Directional valve elements with or without secondary relief valves or LS connections D8_5... (EDD-XZ)



The sandwich plate design directional valve elements D8_5 are compact direct operated solenoid valves which control the start, the stop and the direction of the oil flow.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Valve elements with solenoid operated directional spool
- Control spools directly operated by solenoids with removable coils
- In the de-energized condition, the control spool is held in the central position by return springs
- Manual override (push-button, screw type) available as option
- Optional anti-cavitation/relief function available

Detailed information:

- RA18301-12

Technical Data

General		
Weight with two solenoids	kg (lbs)	3.00 (6.61)
Weight with one solenoid	kg (lbs)	2.35 (5.18)
Ambient temperature	°C (°F)	-20....+50 (-4....+122)
Hydraulic		
Max pressure at P	bar (psi)	310 (4500)
Max pressure at A and B ports	bar (psi)	380 (5500)
Max pressure at T	bar (psi)	250 (3625)
Max inlet flow	l/min (GPM)	80 (21.1)
Hydraulic fluid General properties: it must have physical lubricating and chemical properties suitable for use in hydraulic systems such as, for example:		Mineral oil based hydraulic fluids HL (DIN 51524 part 1). Mineral oil based hydraulic fluids HLP (DIN 51524 part 2). For use of environmentally acceptable fluids (vegetable or polyglycol base) please consult us.
Fluid Temperature	°C (°F)	-20....+80 (-4....+176) [NBR seals]
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: class 20/18/15 NAS 1638: class 9
Viscosity range	mm ² /s	5....420

See index Page 241 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Compact Hydraulics

3/2 Flow diverter

L706_VS95



Line mounted directional valves L706... are 3-way/2-position compact direct operated solenoid valves which control the direction of the oil flow and are suitable for selector or unloading applications.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTocompact

Features

- 3 way 2 position valve
- Directional spool valve with direct solenoid control
- Upon request, hydraulic/pneumatic pilot, or manual push and twist control
- Wet pin tube for DC coil, with push rod for mechanical override in case of voltage shortage
- Unrestricted 360° orientation of DC coil
- Optional manual override (push-button or screw type)

Detailed information:
 • RE18302-03

Technical Data

Hydraulic	L706_VS95	
Maximum pressure with external drain	bar (PSI)	310 (4500)
Maximum pressure with internal drain	bar (PSI)	250 (3625)
Maximum flow	l/min (GPM)	140 (36.98)
Hydraulic fluid	Mineral oil based hydraulic fluids HL (DIN 51524 part 1) Mineral oil based hydraulic fluids HLP (DIN 51524 part 2)	
Fluid Temperature	°C (°F)	-20....+80 (-4....+176)
Permissible degree of fluid contamination	ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: class 20/18/15 NAS 1638: class 9	
Viscosity range	mm ² /s	5...420
Internal leakage w/ 100 bar (1450 psi) secondary pressure at C	15 to 40 (0.9 to 2.4)	
Weight	3.8 (8.4)	
Ambient temperature	-20...+50 (-4...+122)	

GoTo Focused Delivery Program: Compact Hydraulics

6/2 to 14/2 Flow diverters

L732_VS245F & L745_VS285F



VS245F & VS285F valves are 6-way/2-position compact direct operated solenoid valves which control the direction of the oil flow. They may be mounted individually as line-mounted diverters, or flanged together to create a multi-function valve bank assembly.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToCompact

Features

- Directional spool valve with direct solenoid control
- Upon request, hydraulic/pneumatic pilot, or manual push and twist control
- Line-mounted single valve or bankable multi-function installation
- Unrestricted 360° orientation of DC coil
- Optional manual override (push-button or screw type)

Detailed information:

- RE18302-09
- RE18302-10

Technical Data

Hydraulic		L732_VS245	LS745_VS285
Maximum pressure with external drain	bar (PSI)	310 (4500)	
Maximum pressure with internal drain	bar (PSI)	250 (3625)	
Max pressure with internal drain and 6F, 6G or 6H scheme	bar (PSI)	310 (4500)	
Maximum flow	l/min (GPM)	50 (13.2)	90 (24)
Hydraulic fluid		Mineral oil based hydraulic fluids HL (DIN 51524 part 1) Mineral oil based hydraulic fluids HLP (DIN 51524 part 2)	
Fluid Temperature	°C (°F)	-20...+80 (-4...+176)	
Permissible degree of fluid contamination		ISO 4572: $\beta_{x \geq 75} X=12...15$ ISO 4406: class 20/18/15 NAS 1638: class 9	
Viscosity range	mm ² /s	5...420	
Internal leakage w/ 100 bar (1450 psi) secondary pressure at C		15 to 40 (0.9 to 2.4)	
Weight		3.8 (8.4)	4.15 (9.15)
Mounting position		Unrestricted	
Ambient temperature		-20...+50 (-4...+122)	

See index Page 241 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Power packs, fixed displacement

PP



PP Standard Power Packs utilize external gear pumps with standard industrial keyed shaft. Motors can be run at 60Hz/1750RPM/208-230/460V or 50Hz/1425RPM/190-208/380-416V. Motors are NEMA frame with female shaft.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Powder coated steel reservoir
- System relief valve & Gauge
- One station D03 aluminum bar manifold
- PP5 = 10 μ absolute. PP10, 20 = 16 μ absolute – in-tank return filter/filler/breather
- Check valve in pressure line
- Spare in-tank return down-line

Detailed information:
• RA09788

Technical Data

Model Code	Reservoir Size G (l)	Pump Flow GPM (lpm)*	Max. Pressure PSI (bar)**	Motor HP (kw)
PP5/G2004/2/3BM1/H0/L0	5 (18.9)	1.9 (7.2)	1534 (106)	2.0 (1.5)
PP5/G2004/3/3BM1/H0/L0	5 (18.9)	1.9 (7.2)	2300 (159)	3.0 (2.2)
PP5/G2004/5/3BM1/H0/L0	5 (18.9)	1.9 (7.2)	3625 (250) [†]	5.0 (3.7)
PP5/G2005/2/3BM1/H0/L0	5 (18.9)	2.6 (9.8)	1121 (77)	2.0 (1.5)
PP5/G2005/3/3BM1/H0/L0	5 (18.9)	2.6 (9.8)	1681 (116)	3.0 (2.2)
PP5/G2005/5/3BM1/H0/L0	5 (18.9)	2.6 (9.8)	2802 (193)	5.0 (3.7)
PP10/G2005/2/3BM1/H0/L0	10 (37.9)	2.6 (9.8)	1121 (77)	2.0 (1.5)
PP10/G2005/3/3BM1/H0/L0	10 (37.9)	2.6 (9.8)	1681 (116)	3.0 (2.2)
PP10/G2005/5/3BM1/H0/L0	10 (37.9)	2.6 (9.8)	2802 (193)	5.0 (3.7)
PP10/G2008/2/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	767 (53)	2.0 (1.5)
PP10/G2008/3/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	1150 (79)	3.0 (2.2)
PP10/G2008/5/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	1917 (132)	5.0 (3.7)
PP10/G2008/7.5/3BM1/H0/L0	10 (37.9)	3.8 (14.4)	2875 (198)	7.5 (5.6)
PP20/G2011/3/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	841 (58)	3.0 (2.2)
PP20/G2011/5/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	1401 (97)	5.0 (3.7)
PP20/G2011/7.5/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	2101 (145)	7.5 (5.6)
PP20/G2011/10/3BM1/H0/L0	20 (75.7)	5.2 (19.7)	2802 (193)	10.0 (7.5)
PP20/G2016/5/3BM1/H0/L0	20 (75.7)	7.6 (28.8)	958 (66)	5.0 (3.7)
PP20/G2016/7.5/3BM1/H0/L0	20 (75.7)	7.6 (28.8)	1438 (99)	7.5 (5.6)
PP20/G2016/10/3BM1/H0/L0	20 (75.7)	7.6 (28.8)	1917 (132)	10.0 (7.5)

* Based on 1750 RPM, and 100% volumetric efficiency; actual flow will be lower.

** All max pressures reflect an 85% overall efficiency (1.15 SF not included in calculation).

† Limited by maximum continuous pressure of pump.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Close-coupled motor pump groups, fixed displacement MPGB-AZP



Close-Coupled Motor Pump Groups type MPGB-AZP come fully assembled from our factory. Pumps are external gear type, standard industrial keyed shaft. Motors are NEMA frame, femal shaft, and can be run at 60 Hz/1750 RPM/208–230/460 V or 50 Hz/1425 RPM/190–208/380–416 V.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Eliminate the need for multiple vendors by giving you one source of supply
- Closed-coupled feature dramatically reduces the overall length of the motor pump group
- Motor pump groups can be mounted horizontally or vertically

Detailed information:

- RA12750

Technical Data

Model Code	Pump Size in ³ /rev (cc/rev)	Pump Flow GPM (l/min)*	Max. Pressure PSI (bar)**	Motor		Connection sizes
				HP (kW)	Frame	
MPGB002HTYZ4DEOFS1HAZPF12004K1NN	0.24 (4.0)	1.9 (7.2)	1534 (106)	2.0 (1.5)	145TYZ	Suction = SAE-10 Pressure = SAE-8
MPGB003HTYZ4DEOFS1HAZPF12004K1NN	0.24 (4.0)	1.9 (7.2)	2300 (159)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12004K1NN	0.24 (4.0)	1.9 (7.2)	3625 (250) [†]	5.0 (3.7)	184TYZ	
MPGB002HTYZ4DEOFS1HAZPF12005K1NN	0.34 (5.5)	2.6 (9.8)	1121 (77)	2.0 (1.5)	145TYZ	Suction = SAE-10 Pressure = SAE-8
MPGB003HTYZ4DEOFS1HAZPF12005K1NN	0.34 (5.5)	2.6 (9.8)	1681 (116)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12005K1NN	0.34 (5.5)	2.6 (9.8)	2802 (193)	5.0 (3.7)	184TYZ	
MPGB002HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	767 (53)	2.0 (1.5)	145TYZ	Suction = SAE-12 Pressure = SAE-10
MPGB003HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	1150 (79)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	1917 (132)	5.0 (3.7)	184TYZ	
MPGB7.5HTYZ4DEOFS1HAZPF12008K1NN	0.49 (8.0)	3.8 (14.4)	2875 (198)	7.5 (5.6)	213TYZ	Suction = SAE-12 Pressure = SAE-10
MPGB003HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	841 (58)	3.0 (2.2)	145TYZ	
MPGB005HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	1401 (97)	5.0 (3.7)	184TYZ	
MPGB7.5HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	2101 (145)	7.5 (5.6)	213TYZ	Suction = SAE-16 Pressure = SAE-10
MPGB010HTYZ4DEOFS1HAZPF12011K1NN	0.67 (11.0)	5.2 (19.7)	2802 (193)	10.0 (7.5)	215TYZ	
MPGB005HTYZ4DEOFS1HAZPF12016K1NN	0.98 (16.0)	7.6 (28.8)	958 (66)	5.0 (3.7)	184TYZ	
MPGB7.5HTYZ4DEOFS1HAZPF12016K1NN	0.98 (16.0)	7.6 (28.8)	1438 (99)	7.5 (5.6)	213TYZ	Suction = SAE-16 Pressure = SAE-10
MPGB010HTYZ4DEOFS1HAZPF12016K1NN	0.98 (16.0)	7.6 (28.8)	1917 (132)	10.0 (7.5)	215TYZ	

* Based on 1750 RPM, and 100% volumetric efficiency; actual flow will be lower.

** All max pressures reflect an 85% overall efficiency (1.15 SF not included in calculation).


† Limited by maximum continuous pressure of pump.

See index Page 242 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Close-coupled motors

MTRB

	<p>Close-Coupled Motors are NEMA frame, female shaft to accommodate SAE A (2-bolt flange 82-2 A SAE J744) pumps. Can be run at 60 HZ/1750 RPM/208-230/460 V or 50 Hz/1425 RPM/190-208/380-416 V.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTopowerpacks</p>
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Features

- Close-coupled feature dramatically reduces the overall length of the motor pump group
- Eliminates the expense of a bellhousing
- Can be mounted horizontally or vertically

Detailed information:
 • RA12750

Technical Data

Model Code	HP (KW)	Frame
MTRB2H1450/1800R145TYZ50/60HZ F1 SAE A	2.0 (1.5)	145TYZ
MTRB3H1450/1800R145TYZ50/60HZ F1 SAE A	3.0 (2.2)	145TYZ
MTRB5H1450/1800R184TYZ50/60HZ F1 SAE A	5.0 (3.7)	184TYZ
MTRB7.5H1450/1800R213TYZ50/60HZ F1 SAE A	7.5 (5.6)	213TYZ
MTRB10H1450/1800R215TYZ50/60HZ F1 SAE A	10.0 (7.5)	215TYZ

GoTo Focused Delivery Program: Power Packs and Motor Pump Groups

Pre-assembled filter/cooler module MFC3



The MFC3 is a compact off-line filtration/ cooling package, which provides numerous mounting and configuration options. The design allows for multiple selections of AC motors, pumps, filter elements, and auxiliary components. The modular design concept permits field upgrades concerning oil flow, filtration, or configuration with minimal labor and cost.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTopowerpacks

Features

- Off line does not interrupt production
- Versatile / Simple Modular design concept
- Space saving vertical designs
- Durable common base construction
- Multiple mounting and configurations
- Multiple pump, and filter element selections
- Dual frequency motor windings standard
- Stainless Steel, plate style heat exchangers
- Single supply source
- Extensive international distribution and service

Detailed information:

- RA50127


Technical Data

See data sheet RA50127 for detailed Technical Data. All part numbers listed in RA50127 are included in **GoTo**.

GoTo Focused Delivery Program: Accumulators

Bladder-type accumulators

HAB

	<p>The HAB design is a hydro-pneumatic type accumulator with compressed nitrogen separated from hydraulic fluid by means of an elastomeric bladder. The current generation of bladder accumulators from Bosch Rexroth carries the HAB-5X designation. The HAB product line is available in many different configurations needed to meet the stringent demands of today's market.</p>
<p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoToaccumulators</p>	

Features

- Hydraulic accumulator according to ASME Section VIII pressure vessel code
- Bladder materials for different applications
- Two piece gas valve design on 2.5 gallon and larger units improves serviceability

Use:

- Energy storing in systems with intermittent operation
- Energy reserve for emergencies
- Compensation for leakage losses
- Impact and vibration damping
- Compensation of flow in the case of changes in pressure and temperature

Detailed information:

- RA51350

“CRN”: Units have a Canadian Registration Number stamped into the shell indicating certification to Canadian pressure vessel regulations. The units also have the standard ASME certification & stamping.

Function & Performance Data

Bottom Repairable, 3K	Nominal volume (GAL)	1 QT	1 G	2.5 G	5 G	10 G	15 G
	Effective gas volume (L)	1.2	3.8	9.8	19.7	37.0	56.4
	Max operating pressure (PSI)	3000	3000	3000	3000	3000	3000
Operating Temperature	Nitrile, Buna-n (NBR)	5 °F to 212 °F					
Flow Output (Standard SAE fluid port, max. flow rate dependant on fluid viscosity and accumulator orientation.)	Nominal volume (GAL)	1 QT	1 G	2.5 G	5 G	10 G	15 G
	Max flow rate (GPM)	30	80	160	160	160	160
Pre-Charge Ratio Limitation	Maximum ratio of system pressure to pre-charge pressure, 4:1						
Installation Position	Recommended vertical with gas side up, other positions may reduce accumulator performance and bladder life						
Fluid	Mineral oils to DIN 51524, HFC to ISO 12922, other fluids compatible with bladder compounds listed.						
Gas	Nitrogen gas with typical purity 99.99%						

Accumulator Charge Kit & Clamps

For detailed information, see RA51350.

R978046091	ACCUM CHARGE KIT HAB-5X	Supplied with two pressure gauges, 2000 PSI and 5000 PSI.
R978044766	ACCUM CLAMP HAB-5X 10-50L 3K PSI	
1531316021	CLAMPING BANDTIGHT 110-120 MM	
1531316022	CLAMPING BANDTIGHT 160-170 MM	

See index Page 244 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accumulators

Diaphragm-type accumulators

HAD



The HAD design is a hydro-pneumatic type accumulator that utilizes compressed nitrogen to supply fluid to the hydraulic system. The nitrogen and hydraulic fluid are separated by means of an elastomeric membrane. HAD units are the diaphragm welded non-repairable type that can be supplied in both non-rechargeable and chargeable versions.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccumulators

Features

- Hydraulic accumulator according to Pressure Equipment Directive 97/23/EC
- HAD sizes range from 0.075L to 3.5L
- HAD pressure rating 250 bar on most sizes, with special options available up to 350 bar.
- HAD units are economical solutions for pulsation dampening and energy storage applications where only a small volume of usable fluid is required.
- Very compact design allows for the use of the HAD product in the smallest of locations, industrial or mobile hydraulic in nature.
- Multiple elastomer options for many different fluid and temperature driven applications.
- Multiple fluid port options are available such as UNF, NPT, BSPP, and metric M threaded designs.
- Two gas valve options are available for pre-charging, the standard Schrader valve type common for the US market (7/8"-14UNF connection) and the European standard M28 threaded connection.

Detailed information:

- RE50150

Function & Performance Data

Capacity	Liters (cu-in)	0.075 (5)	0.16 (10)	0.35 (21)	0.5 (30)	0.7 (43)	1.0 (61)	1.4 (85)	2.0 (122)	2.8 (171)	3.5 (214)					
Maximum pressure	bar (PSI)	250 (3626)	250 (3626)	210 (3045)	160 (2320)	250 (3626)	180 (2610)	250 (3626)	200 (2900)	140 (2030)	250 (3626)	100 (1450)	250 (3626)	70 (1015)	250 (3626)	250 (3626)
Weight	kg (lbs.)	0.65 (1.4)	1.0 (2.2)	1.3 (2.9)	1.6 (3.5)	2.0 (4.4)	2.6 (5.7)	3.2 (7.1)	3.5 (7.7)	4.9 (10.8)	6.2 (13.7)	4.0 (8.8)	9.5 (20.9)	5.5 (12.1)	10.0 (22.0)	14.0 (30.9)
Mounting type	With clamps or threaded connection															
Installation position	Optional, preferably fluid connection piece pointing downward															
Hydraulic temp. range*	°C (°F)	-10 to +80 (+14 to +176) – NBR diaphragm -35 to +80 (-31 to +176) – ECO diaphragm														
Charge gas	Use only nitrogen with typical purity 99.99%															

* Specific to elastomer type

Accumulator Charge Kit


0538103013	Accum charge kit for HAD units with gas valve type 2
1530221042	Rubber back ring
1531316005	Accumulator clamp
153134008	Bracket

See index Page 244 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Tank mounted return line filters and replacement filter elements

10 TEN 0040 to 1000

	<p>The tank mounted return line filters are designed for installation on fluid tanks. They serve the separation of solid materials from the whole fluid flowing back to the tanks.</p> <p>Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTofilters</p>
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Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings: 3...100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function

Detailed information:
 • RE51424

Technical Data


General									
Installation position		Vertical							
Ambient temperature range		°C [°F]	-30 to +100 (-22 to +212)						
Weight	Size	0040	0063	0100	0160	0250	0400	0630	1000
	kg (lbs)	1.4 (3.1)	1.6 (3.5)	1.8 (4.0)	4.5 (9.9)	5.0 (11)	8.0 (17.6)	10.0 (22)	18.0 (40)
Material	Filter cover	Carbon fiber reinforced plastic (sizes 0040...0100), Aluminum (sizes 0160...1000)							
	Filter head	Aluminum							
	Filter bowl	Carbon fiber reinforced plastic (sizes 0040...0630), Coated steel (size 1000)							
	Optical maintenance indicator (V2,2)	Aluminum							
	Electronic switching element	Plastic PA6							
	Pressure gauge	Plastic							
Hydraulic									
Maximum operating pressure	bar (PSI)	10 (145)							
Cracking pressure of the bypass valve	bar (PSI)	3.5 ± 0.35 (50.7 ± 5)							
Response pressure of the maintenance indicator	bar (PSI)	2.2 ± 0.25 [31.9 ± 3.6]							
Type of pressure measurement of the maintenance indicator		Backpressure							
Hydraulic fluid temperature range	°C (°F)	-10 to +100 (+14 to +212)							
Fatigue strength according to ISO 10771	Load cycles	> 10 ⁵ with max. operating pressure							


See index Page 245 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Inline filter with filter element

50 LE 0130, 0150





Inline filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for attachment in pipelines.

The 50LE(N) inline filters are suitable for direct installation into pressure lines. They are mostly installed upstream open-loop or closed-loop control units to be protected.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Adsorption of very fine particles across a broad pressure differential range
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 μm to 100 μm
- By default equipped with mechanical optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design.

Detailed information:

- RE51447

Technical Data


General				
Installation position		Vertical		
Ambient temperature range		°C [°F] –30 to +100 (–22 to +212)		
Weight	Size	0130	0150	
	kg (lbs)	1.91 (4.2)	2.06 (4.5)	
Volume	l (US gal)	0.89 (0.23)	1.10 (0.29)	
Material	Filter head	Aluminum		
	Filter bowl	Aluminum		
	Optical maintenance indicator	V1.5; V2.2	Aluminum	
		V5.0	Brass	
Electronic switching element	Plastic PA6			
Hydraulic				
Maximum operating pressure		bar (PSI) 50 (725)		
Hydraulic fluid temperature range		°C (°F) –10 to +100 (+14 to +212)		
Minimum conductivity of the medium		pS/m 300		
Fatigue strength according to ISO 10771		Load cycles > 10 ⁶ with max. operating pressure		
Assignment: Response pressure of the maintenance indicator / cracking pressure of the bypass valve	Load cycles	Response pressure of the maintenance indicator	Cracking pressure of the bypass valve	
		bar (PSI)	1.5 ± 0.2 (21.8 ± 2.9)	2.5 ± 0.25 (36.3 ± 3.6)
	bar (PSI)	2.2 ± 0.3 (31.9 ± 4.4)	3.5 ± 0.35 (50.8 ± 5.1)	
	bar (PSI)	5.0 ± 0.5 (72.5 ± 7.3)	7.0 ± 0.5 (101.5 ± 7.3)	

See index Page 245 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Inline filter with filter element

110 LEN 0040 to 0400; 110 LE 0150



Inline filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for attachment in pipelines.

The 110LE(N) inline filters are suitable for direct installation into pressure lines. They are mostly installed upstream openloop or closed-loop control units to be protected.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Filtration of very fine particles across a broad pressure differential range
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- By default equipped with mechanical optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
 • RA51448

Technical Data

General									
Installation position		Vertical							
Ambient temperature range		°C (°F)	-30 to +100 (-22 to +212)						
Weight	Size	kg (lbs)	0040	0063	0100	0150	0160	0250	0400
			1.1 (2.4)	1.2 (2.9)	1.5 (3.3)	2.6 (5.7)	3.5 (7.7)	4.0 (8.8)	4.9 (10.8)
Volume		l (US gal)	0.3 (0.08)	0.4 (0.11)	0.6 (0.16)	1.1 (0.29)	1.3 (0.34)	1.9 (0.50)	2.9 (0.77)
Material	Filter head	Aluminum							
	Filter bowl	Aluminum							
	Optical maintenance indicator	V1.5; V2.2	Aluminum						
		V5.0	Brass						
	Electronic switching element	Plastic PA6							
Hydraulic									
Maximum operating pressure		bar (PSI)	110 (1595)						
Hydraulic fluid temperature range		°C (°F)	-10 to +100 (+14 to +212)						
Minimum conductivity of the medium		pS/m	300						
Fatigue strength according to ISO 10771		Load cycles	> 10 ⁶ with max. operating pressure						
Assignment: Response pressure of the maintenance indicator / cracking pressure of the bypass valve	Load cycles		Response pressure of the maintenance indicator				Cracking pressure of the bypass valve		
		bar (PSI)	1.5 ± 0.2 (21.8 ± 2.9)				2.5 ± 0.25 (36.3 ± 3.6)		
		bar (PSI)	2.2 ± 0.3 (31.9 ± 4.4)				3.5 ± 0.35 (50.8 ± 5.1)		
		bar (PSI)	5.0 ± 0.5 (72.5 ± 7.3)				7.0 ± 0.5 (101.5 ± 7.3)		

See index Page 246 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Line mounted filters and replacement filter elements

245 LE(N) 0040 to 400



Line filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for installation into pipelines.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:

- RE51421

Technical Data


General					
Installation position		vertical			
Ambient temperature range	°C (°F)	-30 to +100 (-22 to +212)			
Weight	Size	0040	0063	0100	0130
	kg (lbs)	3.2 (7.1)	3.8 (8.4)	4.2 (9.3)	6.95 (15.3)
Weight	Size	0150	0160	0250	0400
	kg (lbs)	7.25 (16.0)	11.5 (25.4)	12.2 (26.9)	13.8 (30.4)
Material	Filter head	GGG			
	Filter bowl	Steel			
	Optical maintenance indicator	Brass			
	Electronic switching element	Plastic PA6			
Hydraulic					
Maximum operating pressure	bar (PSI)	250 (3628)			
Hydraulic fluid temperature range	°C (°F)	-10 to +100 (+14 to +212)			
Fatigue strength according to ISO 10771	Load cycles	> 10 ⁶ with max. operating pressure			
Cracking pressure of the bypass valve	bar (PSI)	7 ± 0.5 (100 ± 7)			
Type of pressure measurement of the maintenance indicator		Pressure differential			
Response pressure of the maintenance indicator	bar (PSI)	5 ± 0.5 (72 ± 7)			

See index Page 246 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Line mounted filters and replacement filter elements

350 LE(N) 0040 to 1000

	<p>Line filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for installation into pipelines.</p> <p>The 350LE(N) line filters are suitable for direct installation into pressure lines. They are mostly installed upstream open-loop or closed-loop control units to be protected.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTofilters</p>
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Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized version due to 3D computer-supported design

Detailed information:
 • RE51422

Technical Data

General						
Installation position		Vertical				
Ambient temperature range	°C (°F)	-30 to +100 (-22 to +212)				
Weight	Size	0040	0063	0100	0130	0150
	kg (lbs)	4.4 (9.7)	5.0 (11.0)	5.9 (13.0)	10.5 (23.1)	11.2 (24.7)
Weight	Size	0160	0250	0400	0630	1000
	kg (lbs)	17.2 (30.0)	19.5 (43.1)	23.0 (50.8)	45.0 (99.5)	93.0 (205.6)
Material	Filter head	GGG				
	Filter bowl	Steel				
	Optical maintenance indicator	Brass				
	Electronic switching element	Plastic PA6				
Hydraulic						
Maximum operating pressure	bar (PSI)	350 (5100)				
Hydraulic fluid temperature range	°C (°F)	-10 to +100 (+14 to +212) [shortly -30 (-22)]				
Fatigue strength according to ISO 10771	Load cycles	> 10 ⁶ with max. operating pressure				
Cracking pressure of the bypass valve	bar (PSI)	7 ± 0.5 (100 ± 7)				
Type of pressure measurement of the maintenance indicator		Pressure differential				
Response pressure of the maintenance indicator	bar (PSI)	5 ± 0.5 (72 ± 7)				

See index Pages 246–247 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Manifold mount pressure filter and replacement filter elements

245 PSF(N) 0040 to 0400



Manifold mounted filters are designed to be mounted directly on the pump outlet or control manifolds. They are installed upstream to protect open-loop and closed-loop control systems.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:

- RE51418

Technical Data


General					
Installation position		Lateral			
Ambient temperature range	°C (°F)	-30 to +100 (-22 to +212)			
Weight	Size	0040	0063	0100	0130
	kg (lbs)	4.6 (10.1)	5.0 (11.0)	5.8 (12.8)	8.8 (19.4)
Weight	Size	0150	0160	0250	0400
	kg (lbs)	9.2 (20.3)	13.5 (29.8)	14.3 (31.5)	16.0 (35.3)
Material	Filter head	GGG			
	Filter bowl	Steel			
	Optical maintenance indicator	Brass			
	Electronic switching element	Plastic PA6			
Hydraulic					
Maximum operating pressure	bar (PSI)	250 (3626)			
Hydraulic fluid temperature range	°C (°F)	-10 to +100 (+14 to +212)			
Fatigue strength according to ISO 10771	Load cycles	> 10 ⁶ with max. operating pressure			
Cracking pressure of the bypass valve	bar (PSI)	7 ± 0.5 (100 ± 7)			
Type of pressure measurement of the maintenance indicator		Pressure differential			
Response pressure of the maintenance indicator	bar (PSI)	5 ± 0.5 (72 ± 7)			

See index Pages 247–248 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Manifold mount pressure filter and replacement filter elements

350 PSF(N) 0040 to 1000

	<p>Manifold mounted filters are designed to be mounted directly on the pump outlet or control manifolds. They are installed upstream to protect open-loop and closed-loop control systems.</p> <p>Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.</p> <p style="background-color: black; color: white; padding: 5px;">For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTofilters</p>
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Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:
• RE51419

Technical Data

General						
Installation position		Lateral				
Ambient temperature range	°C (°F)	-30 to +100 (-22 to +212)				
Weight	Size	0040	0063	0100	0130	0150
	kg (lbs)	5.5 (12.1)	6.2 (13.6)	7.0 (15.4)	13.0 (28.6)	13.9 (30.6)
Weight	Size	0160	0250	0400	0630	1000
	kg (lbs)	18.5 (40.7)	20.5 (45.1)	24.5 (53.9)	41.2 (90.6)	87.0 (191.4)
Material	Filter head	GGG				
	Filter bowl	Steel				
	Optical maintenance indicator	Brass				
	Electronic switching element	Plastic PA6				
Hydraulic						
Maximum operating pressure	bar (PSI)	350 (5100)				
Hydraulic fluid temperature range	°C (°F)	-10 to +100 (+14 to +212) [shortly -30 (-22)]				
Fatigue strength according to ISO 10771	Load cycles	> 10 ⁶ with max. operating pressure				
Cracking pressure of the bypass valve	bar (PSI)	7 ± 0.5 (100 ± 7)				
Type of pressure measurement of the maintenance indicator		Pressure differential				
Response pressure of the maintenance indicator	bar (PSI)	5 ± 0.5 (72 ± 7)				

GoTo Focused Delivery Program: Filtration Systems

Manifold mount pressure filter and replacement filter elements

450 PBFN 0040 to 1000



Manifold mounted filters are designed to be mounted directly on the pump outlet or control manifolds. They are installed upstream to protect open-loop and closed-loop control systems.

Replacement filter elements for Rexroth filters: Filter media for all applications made out of glassfiber-paper, filter-paper, wire mesh, non-wovens, and metal fiber.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Features

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Filter ratings of 3 µm to 100 µm
- As standard, each filter is equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

Detailed information:

- RE51417

Technical Data


General						
Installation position		Vertical				
Ambient temperature range	°C (°F)	-30 to +100 (-22 to +212)				
Weight	Size	0040	0063	0100	0130	0150
	kg (lbs)	5 (11.0)	5.5 (12.1)	6.4 (14.1)	11.9 (26.2)	12.9 (28.4)
Weight	Size	0160	0250	0400	0630	1000
	kg (lbs)	15.9 (35.1)	16.5 (36.3)	19.9 (43.8)	37.5 (82.5)	48 (105.8)
Material	Filter head	GGG				
	Filter bowl	Steel				
	Optical maintenance indicator	Brass				
	Electronic switching element	Plastic PA6				
Hydraulic						
Maximum operating pressure	bar (PSI)	450 (6530)				
Hydraulic fluid temperature range	°C (°F)	-10 to +100 (+14 to +212)				
Fatigue strength according to ISO 10771	Load cycles	> 10 ⁶ with max. operating pressure				
Cracking pressure of the bypass valve	bar (PSI)	7 ± 0.5 (100 ± 7)				
Type of pressure measurement of the maintenance indicator		Pressure differential				
Response pressure of the maintenance indicator	bar (PSI)	5 ± 0.5 (72 ± 7)				

See index Pages 248–249 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Desiccant air breathers

BFSK-2X

	<p>Highly efficient breather desiccant BFSK-2X filter provides true air filtration and dehumidification of incoming and outgoing air flow. The BFSK series filters capture very fine contaminant particles and provide high dirt holding capacity using a pleated, microglass element.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTofilters</p>
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Description

- Sizes 25, 40, 80, 125
- Micro-glass filter element (3 microns) material provides true depth filtration
- Check valve option to extend the life of the desiccant
- Sturdy construction uses metal center tubes
- Maintenance indicator option for improved monitoring
- Desiccant material is non-toxic and non-carcinogenic
- Desiccant pack is replaceable on sizes 40, 80, 125
- Air filter element can be replaced on all sizes

Detailed information:
 • RE51456


Technical Data

Size		25	40	80	125
Maximum pressure differential	PSIG	14.5			
Air filter – microglass	microns	3.0			
Weight	lbs	0.9	3.3	6.4	9
Silica gel (desiccant)	cm ³	100	600	1000	2000
Water absorption	ml	28	172	288	576
Check valve cracking pressure	PSIG	0.15			
Ambient temperature range	°F	-40 to 185			
Operating temperature	°F	-18 to 185			
Installation position		Vertical			

GoTo Focused Delivery Program: Filtration Systems

Breather filters:

BFS 7, BFS 20; BF 7 SL; FEF 0, FEF 1; TLF I, TLF III

	<p>Filtration and dehumidification of the intake air of industrial systems.</p> <p>Avoidance of initial damage in pumps and bearings, and system components.</p> <p>For complete engineering and design information: GoTo www.boschrexroth-us.com/GoTofilters</p>
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Design

Model BF 7 SL

Breather filter with threaded filter cartridge and 10 micron pleated filter element.
Flange connection (BF 7 SL...).

Detailed information:

- RE51413
- RE51514
- RE51415

BFS 7, BFS 20

Compact design male thread breather with 10 micron pleated paper filter element.
Materials as per spare parts list.

Models FEF 0, FEF 1

Combination filler breather with mounting flange and filling filter (screen basket 500 µm) and removable cap with bayonet lock. The internal breather filter element is 40 µm. The filter element is replaced by exchanging the whole metal cap. The breather cap is secured to the reservoir with a chain.

Materials as per spare parts list.

Models TLF I, TLF III

Removable filter breather housing with internal replaceable filter element. Filter element H10XL, H3XL up to a filtration rating of 10 µm and 3 µm with glass fiber material.

Materials as per spare parts list

Designs:

TLF I...: with female thread,

TLF III...: with male screw-in thread and filling filter (screen basket 130 µm).

GoTo Focused Delivery Program: Filtration Systems

GoTo Analysis Kit

GTAK



Fluid contamination is a major factor that can cause premature failures of hydraulic systems and components. An effective fluid analysis program can identify contamination and other problems not visible to the naked eye. Once high levels of contaminants are confirmed, corrective actions can be undertaken prior to the advent of costly catastrophic equipment failures. The GTAK fluid analysis kit can be used to obtain a complete and comprehensive laboratory analysis on a customer supplied fluid sample. The GTAK kits are supplied with pre-addressed labels for shipment to any one of multiple labs located throughout the United States. Results are quick and can be obtained via email or on the internet. Trend analysis is possible and easy to obtain for continuous monitoring of equipment.

For more information:
GoTo www.boschrexroth-us.com/fluidtest

Description

- 8 oz ISO CLEAN sample jar
- Sample submittal form
- Shipping container
- Prepaid laboratory analysis
- Quick results sent via E-mail
- On-line trend analysis via Horizon system

Technical Data

Laboratory analysis included with every kit
Elemental Metal Analysis (24) by ICP
Viscosity @ 40°C
Viscosity @ 100°C
Viscosity Index
Acid Number
Oxidation/Nitration by FTIR
ISO 4406 Particle Count
Karl Fischer Water %

GoTo Focused Delivery Program: Filtration Systems

Popular cross-over filter elements



Rexroth cross-over filter elements are designed to replace your existing products, even those manufactured by other companies. Rexroth filter elements present the highest quality option for separation of solid materials from the whole fluid flowing back into the tanks. All cross-over elements listed in this section have a maximum order quantity of five and will ship in one day.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoTofilters

Description

- Designed for optimum flow characteristics to achieve reduced pressure drop
- Finest materials and manufacturing processes used yield highest available beta efficiencies
- Compatible with different oil types, including rapidly biodegradable hydraulic oils
- Element lifetime increased due to materials and design - get more from your investment

Technical Data

Part Number	Description
R928005636	1.0045 G25-A00-0-M
R928005639	1.0045 H10XL-A00-0-M
R928005640	1.0045 H20XL-A00-0-M
R928005672	1.0060 G25-A00-0-M
R928045173	1.1401 G40-A00-0-M
R928045584	2.0005 G40-A00-0-V
R928006374	2.0020 G25-A00-0-M
R928006376	2.0020 H6XL-A00-0-M
R928006699	2.0063 H3XL-A00-0-M
R928006755	2.0100 H10XL-A00-0-M
R928006764	2.0100 H10XL-B00-0-M
R928006861	2.0250 H3XL-A00-0-M
R928006862	2.0250 H6XL-A00-0-M
R928006871	2.0250 H6XL-B00-0-M
R928019029	2.56 P10-A00-0-M
R928025500	2.90 H10XL-C00-0-M
R928022781	4.06 P10-A00-0-M
R928028012	4.10 G200-A00-0-M
R928017144	9.110LA H10XL-A00-0-M SO3000
R928022425	9.110LA H10XL-A00-0-V SO3000
R928017152	9.110LA H10XL-F00-0-MSO3000

Part Number	Description
R928017143	9.110LA H20XL-A00-0-MSO3000
R928017154	9.110LA H3XL-F00-0-M SO3000
R928017145	9.110LA H6XL-A00-0-M SO3000
R928017153	9.110LA H6XL-F00-0-MSO3000
R928025333	9.1320LA H6XL-F00-0-M
R928017210	9.160LA H10XL-A00-0-M SO3000
R928017218	9.160LA H10XL-F00-0-MSO3000
R928017217	9.160LA H20XL-F00-0-MSO3000
R928017220	9.160LA H3XL-F00-0-M SO3000
R928017211	9.160LA H6XL-A00-0-MSO3000
R928017219	9.160LA H6XL-F00-0-MSO3000
R928017221	9.240 G25-A00-0-M
R928017243	9.240LA H10XL-A00-0-M SO3000
R928017251	9.240LA H10XL-F00-0-M SO3000
R928017242	9.240LA H20XL-A00-0-MSO3000
R928017250	9.240LA H20XL-F00-0-MSO3000
R928017245	9.240LA H3XL-A00-0-MSO3000
R928017253	9.240LA H3XL-F00-0-M SO3000
R928017244	9.240LA H6XL-A00-0-MSO3000
R928017276	9.280LA H10XL-A00-0-M SO3000
R928017275	9.280LA H20XL-A00-0-M SO3000

continued on next page

See index Pages 249–252 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Filtration Systems

Popular cross-over filter elements (continued)

Technical Data (continued)

Part Number	Description	Part Number	Description
R928017277	9.280LA H6XL-A00-0-M SO3000	R928035218	10.330LA H10XL-A00-B6-M SO3000
R928017074	9.30LA H10XL-A00-0-MSO3000	R928017551	10.330LA H20XL-000-6-MSO3000
R928017086	9.30LA H10XL-F00-0-MSO3000	R928017553	10.330LA H6XL-000-6-MSO3000
R928017085	9.30LA H20XL-F00-0-M SO3000	R928017538	10.330P10-000-6-M
R928017088	9.30LA H3XL-F00-0-M SO3000	R928017575	10.500LA H10XL-A00-6-M SO3000
R928017309	9.330LA H10XL-A00-0-M SO3000	R928017574	10.500LAH20XL-000-6-MSO3000
R928017317	9.330LA H10XL-F00-0-M SO3000	R928017460	10.60LAH 10XL-000-6-MSO3000
R928017308	9.330LA H20XL-A00-0-MSO3000	R928017598	10.660LA H10XL-A00-6-M SO3000
R928017311	9.330LA H3XL-A00-0-MSO3000	R928017600	10.660LA H3XL-A00-6-MSO3000
R928017319	9.330LA H3XL-F00-0-M SO3000	R928017599	10.660LA H6XL-000-6-MSO3000
R928017310	9.330LA H6XL-A00-0-MSO3000	R928017621	10.850LA H10XL-000-6-MSO3000
R928017318	9.330LA H6XL-F00-0-M SO3000	R928017644	10.950LA H10XL-000-6-MSO3000
R928017374	9.500LA H20XL-A00-0-M SO3000	R928016662	16.7400/R H20XL-S00-0-M
R928048442	9.60 G25-A00-0-V-0024	R928016676	16.7500/R H10XL-S00-0-M
R928017111	9.60LA H10XL-A00-0-M SO3000	R928016674	16.7500/R H6XL-S00-0-M
R928017119	9.60LA H10XL-F00-0-M SO3000	R928019959	16.7500/R P10-S00-0-M
R928017121	9.60LA H3XL-F00-0-M SO3000	R928016677	16.7500/S H10XL-S00-0-M
R928017120	9.60LA H6XL-F00-0-MSO3000	R928016673	16.7500/S H3XL-S00-0-M
R928017408	9.660LA H10XL-A00-0-M SO3000	R928016675	16.7500/S H6XL-S00-0-M
R928017416	9.660LA H10XL-F00-0-M SO3000	R928016706	16.8300/S H10XL-S00-0-V
R928017407	9.660LA H20XL-A00-0-M SO3000	R928016716	16.8304/U H6XL-S00-0-M
R928017415	9.660LA H20XL-F00-0-MSO3000	R928016728	16.8304/U H6XL-S00-0-V
R928017418	9.660LA H3XL-F00-0-MSO3000	R928016729	16.8304/X H6XL-S00-0-V
R928017417	9.660LA H6XL-F00-0-M SO3000	R928016804	16.8700/R H10XL-S00-0-M
R928019176	9.990LA H10XL-F00-0-MSO3000	R928016827	16.8900/TH10XL-S00-0-M
R928017483	10.110LA H10XL-A00-6-M SO3000	R928016950	16.9600/T H6XL-E00-0-M
R928017647	10.1300 G25-000-6-M	R928046179	20.750 P25-S00-6-M
R928017667	10.1300LA H10XL-A00-6-M SO3000	R902603750	62.0056K H10XL-J00-0-V
R928017668	10.1300LA H6XL-A00-6-M SO3000	R902603298	62.0056K H20XL-J00-0-V
R928017506	10.160LA H10XL-A00-6-M SO3000	R902603243	62.0125K H20XL-J00-0-V
R928017505	10.160LA H20XL-000-6-MSO3000	R902603004	62.0180K H20XL-J00-0-V
R928017507	10.160LA H6XL-000-6-MSO3000	R928037484	80.130 H1XL-S00-0-M
R928017515	10.240 P10-000-6-M	R928019201	80.130 H6XL-S00-0-M
R928017529	10.240LA H10XL-A00-6-M SO3000	R928028010	80.30/20 P10-S00-0-V
R928017530	10.240LA H6XL-000-6-MSO3000	R928028019	80.45/21 VS60-S00-0-M
R928037731	10.2600LA H10XL-A00-0-M SO3000	R928016614	80.90 H10XL-S00-0-M
R928017692	10.2600LA H3XL-000-6-MSO3000	R928016612	80.90 P10-S00-0-M
R928017691	10.2600LA H6XL-000-6-MSO3000	R928028556	84.60 H10XL-S00-4-M
R928017437	10.30LA H10XL-000-6-MSO3000	R928022726	99.183677 MB15-C00-0-M
R928017552	10.330LA H10XL-A00-6-M SO3000		

GoTo Focused Delivery Program: Accessories

Hydro-electric pressure switch

HED 8



Hydro-electric pressure switches of model HED 8 are piston-type pressure switches used to monitor a pressure value in a circuit. As a pressure value is achieved (rising or falling), the HED micro-switch changes state, which can be used as an indicator for the next sequential operation or shutdown. The HED microswitch is not a current carrying device; it is an actuator/sensor.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Features

- For subplate mounting
- For in-pipe installation
- As vertical stacking element, position of ports to DIN 24340 form A
- In horizontal stacking assemblies
- Five pressure stages, optional
- Adjustment option:
 - Rotary knob with scale
- Cable socket with circuitry (indicator lamp) – separate order

Detailed information:

- RE50061

Technical Data

Operating pressure	p_{\max}	bar (PSI)	630 (9100)
Switching frequency		cycles/hour	7200

GoTo Focused Delivery Program: Accessories

Rotary angle sensor

VT-SWA-1



Rotary angle sensor for SYDFE. systems with integrated electronics (complete kit with sensor and evaluation electronics, magnet carrier and parts to be installed)

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

Features

- Suitable for use in SYDFEE and SYDFEC systems (systems with integrated electronics) for sensing the swivel angle of the A10V(S)O...DFE... pump and conversion of the measured value into an electrical signal
- Contact-free acquisition of a rotary angle using a Hall-effect sensor
- Consisting of magnet carrier and sensor with integral electronics in the housing

Detailed information:
• RE30268

Technical Data

Operating voltage	U_o	V	-10.0 (reference voltage)
Current consumption	I	mA	~25
Measuring range	α	°C	±18
Output signal	U	V	-2 to -8

GoTo Focused Delivery Program: Accessories

Electrical connectors, Bolt kits, and Subplates – applicable to GoTo directional valves

GoTo www.boschrexroth-us.com/GoToaccess

Electrical connectors

Material No.	Description	Notes	Explanation
R901017011	3P Z4 M SW	Metric, PG thd	right angle connector, color black*
R901017022	3P Z5L M12 240V	Metric, PG thd	right angle connector w/ light, color black*
R901017026	3P Z5L1 M24V SPEZ	M16 X 1.5	right angle connector w/ light and zener diode protection, color black*
R901017025	3P RZ5 M24 240V	Metric, PG thd	right angle connector w/ rectifier, color black*
R900011039	3P Z45 B GDM201	NPT, 1/2" thd	right angle connector, color black*
R900057453	3P Z55L 12-240V	NPT, 1/2" thd	right angle connector w/ light, color black*
R900842566	3P RZ55 24	NPT, 1/2" thd	right angle connector w/ rectifier, color black*
R900057455	3P RZ55L 24-2 SPEZ&	NPT, 1/2" thd	right angle connector w/ rectifier and light, color black*
R900064381	4P Z24 M12X1	M12 X 1	straight plug cable (3m) for HM20, QM proximity switch*
R900021267	7P Z31 BF6-3PG11DSPEZ	Metric, PG thd	7-pin plastic, solder
R900223890	7P Z31 BF63PG11M SPEZ	PG11	Straight metal connector, solder contacts

R978713598	MS CONNECTOR FOR OBE VALVES		
1834484142	11P+PE / PG16	Metric, PG16	Plastic mating connector for OBE valves (crimp technique)
1834482022	6P+PE / PG11	Metric, PG11	Plastic mating connector for OBE valves (soldering technique)
1834482026	6P+PE / PG11	Metric, PG11	Plastic mating connector for OBE valves (crimping technique)

* See RE08006

Bolt kits

Material No.	Description	Notes	Explanation
R978833365	BK-(4) 10X24X2	WE6, WRAB(E)6, WRA(E)6, WRE(E)6	Bolt Kit; 4pcs of 10-24 x 2" long bolts
R978833366	BK-(4) 1/4X20X1-1/2	WE10, WRA(E)10, WRE(E)10	Bolt Kit; 4pcs of 1/4-20 x 1-1/2" long bolts
R978833367	BK-(4) 1/4X20X1-3/4	WEH10, WRZ(H)10, WRL(E)10	Bolt Kit; 4pcs of 1/4-20 x 1-3/4" long bolts
R978833395	BK-(4) 3/8X16X2-1/4-(2)1/4X20X2-1/4 SHCS	WEH16, WRZ(H)16, WRL(E)16	Bolt Kit; 4pcs of 3/8-16 x 2-1/4" + 2pcs of 1/4-20x 2-1/4" long bolts
R978833387	BK-(6) 1/2X13X2-1/2	WEH22, 25, WRZ(H)25, WRL(E)25	Bolt Kit; 6pcs of 1/2-13 x 2-1/2" long bolts

Subplates

Material No.	Description	Notes	Port sizes	Reference
R900341065	G 341/12	subplates to ISO 4401-3 – Size 6	NFPA D03 pattern; SAE-6 ports	RA45052
R900455128	G 342/12	subplates to ISO 4401-3 – Size 6	NFPA D03 pattern; SAE-8 ports	RA45052

See index Page 253 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Coils & handnuts – applicable to GoTo directional valves

GoTo www.boschrexroth-us.com/GoToaccess

Coils & handnuts

Material No.	SAP/Portal Description	Notes	Explanation
R978839349	Coil Assembly WZ45-4-L110V50HZ+ 120V60HZ	110/120 vac	For use with DIN connection WE6-6X/EW.....K4* valves
R900545268	Valve Solenoid WZ45-4-MVN110V50/60+&	110/120 vac	For use with WE6/EW110K4
R900020175	Solenoid Coil WZ45-4-L110V-50/60HZ&	110/120 vac	For use with WE6/EW110K4
R900021464	Solenoid Coil WZ45-3 110V &	110/120 vac	For use with central box WE6-6X/EW.....D* valves
R900020169	Nut WZ45-.-M.N. SPEZ	all AC "WZ45"	Handnut for use with standard "N9" option AC valves, WE6-6X/EW
R901333224	Solenoid Coil 45-K4K-30G12 01	12 vdc	For use with DIN connection WE6-6X/EG.....K4* valves
R900021462	Solenoid Coil GZ45-3 12V	12 vdc	For use with central box WE6-6X/EG.....D* valves
R900021389	Solenoid Coil GZ45-4 24V	24 vdc	For use with DIN connection WE6-6X/EG.....K4* valves
R900021463	Solenoid Coil GZ45-3 24V	24 vdc	For use with central box WE6-6X/EG.....D* valves
R900029571	Nut GZ45-01M.N. SPEZ	all DC "GZ45"	Handnut for use with standard "N9" option DC valves, WE6-6X/EG
R900219602	Solenoid Coil WZ65-3 110V-50/ &	110/120 vac	For use with central box WE10-4X/CW.....D* valves
R900019816	Solenoid Coil WZ65-4-L110V-50/60HZ&	110/120 vac	For use with DIN connection WE10-3X/CW.....K4* valves
R900019801	Solenoid Coil WZ65-0-L110V-50/60HZ&	110/120 vac	For use with WE10-3X/CW110 D box
R900019840	Nut WZ65-.-LM.VN. SPEZ	all AC "WZ65"	Handnut for use with standard "N9" option AC valves, WE10-*X/CW
R900207929	Solenoid Coil GZ63-3 12V	12 vdc	For use with central box WE10-4X/CG.....D* valves
R900019792	Solenoid Coil GZ63-4 12V K4K	12 vdc	For use with DIN connection WE10-3X/CG.....K4* valves
R900217812	Solenoid Coil GZ63-3 24V	24 vdc	For use with central box WE10-4X/CG.....D* valves
R900019793	Solenoid Coil GZ63-4 24V	24 vdc	For use with DIN connection WE10-3X/CG.....K4* valves
R901232758	Solenoid Coil GZ63-K72L1-35G24 S00	24 vdc	For use with WE10-3X...K72L* valves
R900019841	Nut GZ63 M.VN.3K	all DC "GZ63"	Handnut for use with standard "N9" option DC valves, WE10-*X/CW
R901338900	Solenoid Coil 45-K4 -30G96 01	96 vdc	For use with DIN connection SED6+10 & SEW6+10.....K4* valves
R901333224	Solenoid Coil 45-K4K-30G12 01	12 vdc	For use with DIN connection SED6+10 & SEW6+10.....K4* valves
R900021389	Solenoid Coil GZ45-4 24V	24 vdc	For use with DIN connection SED6+10 & SEW6+10.....K4* valves
R900029574	Nut GZ45C-01 SPEZ	all DC "GZ45"	Handnut for use with standard "N9" option DC valves, SEW6+10/SED6+10

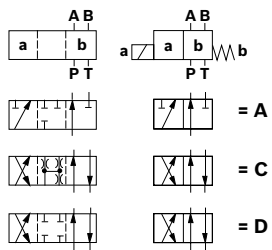
See index Pages 253–254 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

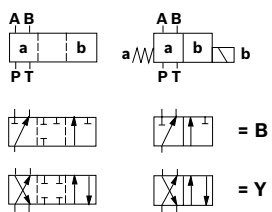
Symbols for directional control valves

2 Position – 3 and 4 Way Valves

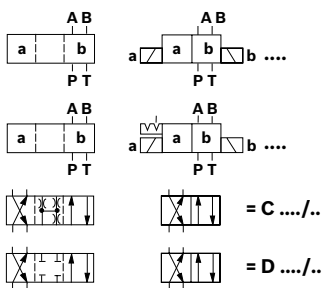
Operator “A” Spring Return



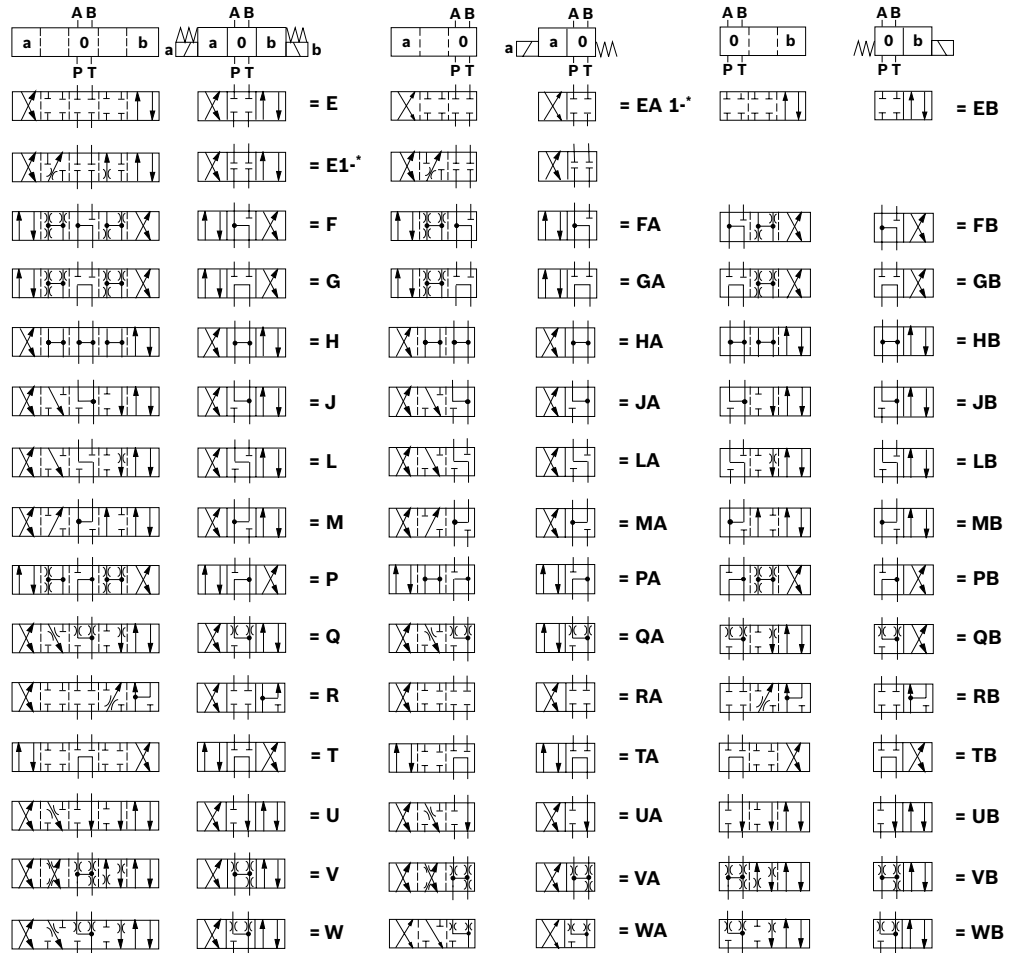
Operator “B” Spring Return



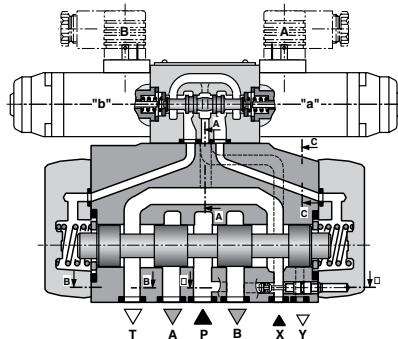
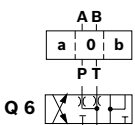
Double Operators



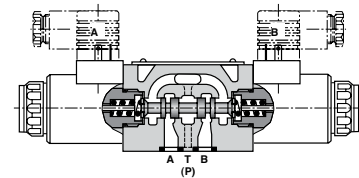
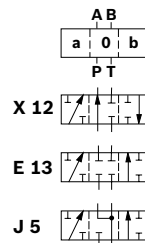
Position – 4 Way Valves and 2 Position – 4 Way Valves



WEH 22



WE 6



GoTo Focused Delivery Program: Accessories

Bodies & Mounting hardware – applicable to GoTo compact hydraulics

GoTo www.boschrexroth-us.com/GoToaccess

Bodies

Material No.	SAP / Portal Description	Notes	Explanation
R978032340	CB08-2N-A/S06	08-2 body, SAE-6, 3000 psi	For all Sz8, 2-ported cartridges
R978032344	CB08-2N-D/S06	08-2 body, SAE-6, 5000 psi	For all Sz8, 2-ported cartridges
R978032341	CB08-3N-A/S06	08-3 body, SAE-6, 3000 psi	For all Sz8, 3-ported cartridges, except short form (port 3 pilot)
R978032345	CB08-3N-D/S06	08-3 body, SAE-6, 5000 psi	For all Sz8, 3-ported cartridges, except short form (port 3 pilot)
R978032348	CB10-2N-A/S08	10-2 body, SAE-8, 3000 psi	For all Sz10, 2-ported cartridges
R978032352	CB10-2N-D/S08	10-2 body, SAE-8, 5000 psi	For all Sz10, 2-ported cartridges
R978032349	CB10-3N-A/S08	10-3 body, SAE-8, 3000 psi	For all Sz10, 3-ported cartridges, except short form (port 3 pilot)
R978032353	CB10-3N-D/S08	10-3 body, SAE-8, 5000 psi	For all Sz10, 3-ported cartridges, except short form (port 3 pilot)
R978032351	CB10-4N-A/S08	10-4 body, SAE-8, 3000 psi	For all Sz10, 4-ported cartridges
R978032355	CB10-4N-D/S08	10-4 body, SAE-8, 5000 psi	For all Sz10, 4-ported cartridges
R978032360	CB16-2N-A/S12	16-2 body, SAE-12, 3000 psi	For all Sz16, 2-ported cartridges
R978032362	CB16-2N-D/S12	16-2 body, SAE-12, 5000 psi	For all Sz10, 2-ported cartridges
R978041747	CBDT-11A-A/S08	T-11A dual body, SAE-8, 3000 psi	For all T11A counterbalance & PO check carts.
R978041748	CBDT-11A-D/S08	T-11A dual body, SAE-8, 5000 psi	For all T11A counterbalance & PO check carts.
R978041749	CBDT-2A-A/S10	T-2A dual body, SAE-10, 3000 psi	For all T2A counterbalance & PO check carts.
R978041750	CBDT-2A-D/S10	T-2A dual body, SAE-10, 5000 psi	For all T2A counterbalance & PO check carts.
R978012829	CBT-11A-A/S08	T-11A body, SAE-8, 3000 psi	For all T11A counterbalance & PO check carts.
R978012838	CBT-11A-D/S08	T-11A body, SAE-8, 5000 psi	For all T11A counterbalance & PO check carts.
R978041744	CBT-2A-A/S10	T-2A body, SAE-10, 3000 psi	For all T17A counterbalance & PO check carts.
R978041745	CBT-2A-D/S10	T-2A body, SAE-10, 5000 psi	For all T17A counterbalance & PO check carts.

Mounting Hardware

R987281101	BOLT KIT K-2221A MODULE	Single module bolt kit, M6	RA00159/10.11, RA18301-90/03.11, pg. 3
R933003730	KR-FF-M6-ED-06----- -----K-2215	Mounting bracket kit, M6	RA00159/10.11, RA18301-90/03.11, pg. 3
R933003722	KR-SC-M8-ED-06-02E----- -----K-2202	2 section tie rod kit, M8	RA00159/10.11, RA18301-90/03.11, pg. 2
R933003723	KR-SC-M8-ED-06-03E----- -----K-2203	3 section tie rod kit, M8	RA00159/10.11, RA18301-90/03.11, pg. 2
R933003724	KR-SC-M8-ED-06-04E----- -----K-2204	4 section tie rod kit, M8	RA00159/10.11, RA18301-90/03.11, pg. 2
R933003725	KR-SC-M8-ED-06-05E----- ---K-2205	5 section tie rod kit, M8	RA00159 / RA18301-90, pg. 2
R933002927	RESTRICTOR D7.5XD1.35XL4.2	Bankable flow restrictor, 1.35mm orifice	Use with EDB bankable directional valves
R933002936	RESTRICTOR D9.0XD0.0XL4.0	Bankable plug, series operation	Use with ED1 and ED2 bankable valves, A201 spool

See index Page 254 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Accessories

Coils – applicable to GoTo compact hydraulics

GoTo www.boschrexroth-us.com/GoToaccess

Coils

Material No.	SAP / Portal Description	Notes	Explanation
R933002776	C31-01-OB-12DC-20W-H-D12.7-----271-0450	12 VDC, DIN plug	Use on EDB-Y bankable directional valves
R933002777	C31-01-OC-24DC-20W-H-D12.7-----271-0451	24 VDC, DIN plug	Use on EDB-Y bankable directional valves
R933002778	C31-07-OB-12DC-20W-H-D12.7-----271-0452	12 VDC, Deutsch DT04-2P	Use on EDB-Y bankable directional valves
R933002779	C31-07-OC-24DC-20W-H-D12.7-----271-0453	24 VDC, Deutsch DT04-2P	Use on EDB-Y bankable directional valves
R933000044	C36-01-OB-12DC-26W-H-D14-----271-0510	12 VDC, DIN plug	Use on ED1 / EDB-Z bankable directional valves
R933000053	C36-01-OC-24DC-26W-H-D14-----271-0511	24 VDC, DIN plug	Use on ED1 / EDB-Z bankable directional valves
R933000048	C36-07-OB-12DC-26W-H-D14-----271-0510207	12 VDC, Deutsch DT04-2P	Use on ED1 / EDB-Z bankable directional valves
R933000058	C36-07-OC-24DC-26W-H-D14-----271-0511207	24 VDC, Deutsch DT04-2P	Use on ED1 / EDB-Z bankable directional valves
R933000026	C45-01-OB-12DC-33W-H-D19-----271-0417	12 VDC, DIN plug	Use on ED2 bankable directional valves
R933000034	C45-01-OC-24DC-33W-H-D19-----271-0418	24 VDC, DIN plug	Use on ED2 bankable directional valves
R933000030	C45-07-OB-12DC-33W-H-D19-----271-041717	12 VDC, Deutsch DT04-2P	Use on ED2 bankable directional valves
R933000032	C45-07-OC-24DC-33W-H-D19-----271-041719	24 VDC, Deutsch DT04-2P	Use on ED2 bankable directional valves
R933000063	C48-01-OB-12DC-36W-H-D19-271-0520	12 VDC, DIN plug	Use on EDD bankable valves, and VS245 diverter valves
R933000076	C48-01-OC-24DC-36W-H-D19-271-0521	24 VDC, DIN plug	Use on EDD bankable valves, and VS245 diverter valves
R933000068	C48-07-OB-12DC-36W-H-D19-271-052004	12 VDC, Deutsch DT04-2P	Use on EDD bankable valves, and VS245 diverter valves
R933000075	C48-07-OC-24DC-36W-H-D19-271-052009	24 VDC, Deutsch DT04-2P	Use on EDD bankable valves, and VS245 diverter valves
R933000100	C65-01-OB-12DC-44W-H-D25.7-281-0617	12 VDC, DIN plug	Use on VS95 and VS285 diverter valves
R933000107	C65-07-OB-12DC-44W-H-D25.7-281-06194	12 VDC, Deutsch DT04-2P	Use on VS95 and VS285 diverter valves

Continued on next page

GoTo Focused Delivery Program: Accessories

Coils – applicable to GoTo compact hydraulics (continued)

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Coils

Material No.	SAP / Portal Description	Notes	Explanation
R933000092	D15-01-OB-12DC-36W-H-D23-----271-8020210	12 VDC, DIN plug	Use on ED4-P and EDC bankable directional valves
R933000093	D15-01-OC-24DC-36W-H-D23-----271-8020220	24 VDC, DIN plug	Use on ED4-P and EDC bankable directional valves
R933000094	D15-07-OB-12DC-36W-H-D23-----271-8020230	12 VDC, Deutsch DT04-2P	Use on ED4-P and EDC bankable directional valves
R933002798	D15-07-OC-24DC-36W-H-D23-----271-8020240	24 VDC, Deutsch DT04-2P	Use on ED4-P and EDC bankable directional valves
R901094597	S7L36DTL 24VDC 30W DIOD OD02072230OC02	24 VDC, Deutsch DT04-2P	Use on Sz10 spool cartridges
R901094595	S7L36DTL12VDC30WDIOD CL.H OD02072230OB02	12 VDC, Deutsch DT04-2P	Use on Sz10 spool cartridges
R934003806	S7L36HRL 110VRAC 30W CL.H OD02070130OW02	110 VRAC, DIN plug (Req. rectifying connector)	Use on Sz10 spool cartridges
R901090824	S7L36HRL 12VDC 30W CLAS H OD02070130OB02	12 VDC, DIN plug	Use on Sz10 spool cartridges
R901090825	S7L36HRL 24VDC 30W CLAS H OD02070130OC02	24 VDC, DIN plug	Use on Sz10 spool cartridges
R901090821	S8.356HRL.12DC 20W CL.H OD02170130OB00	12 VDC, DIN plug	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901083065	S8.356HRL.24DC 20W CL.H OD02170130OC00	24 VDC, DIN plug	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901087981	S8.356HRL110RAC 20W CL.H OD02170130OW00	110 VRAC, DIN plug (Req. rectifying connector)	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901120671	S8356DTV12DC20W DIOD CL.H OD0217223POB00	24 VDC, Deutsch DT04-2P	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901114602	S8356DTV24DC20W DIOD CL.H OD0217223POC00	12 VDC, Deutsch DT04-2P	Use on all sizes of poppet cartridges & Sz8 spool cartridges
R901110014	S8.356DTV.12DC 20W CL.H OD0217203POB00	12 VDC, Deutsch DT04-2P	Use on all sizes of poppoet cartridges & Sz 8 spool cartridges

GoTo Focused Delivery Program: Accessories

VT Patch Cord



Type VT Patch cords are used for connecting between a VT card face-plate test jack and an analog/digital meter for the purpose of measuring voltage of the amplifier card. They are supplied with a 2 mm (0.0787 in) diameter plug on one end and a 4 mm (0.157 in) diameter plug on the other. They are connected by a 100 cm (40 in) length of silicone insulated wire (0.55 sq. mm/20 AWG). Available in both red and black colors.

For complete engineering and design information:
GoTo www.boschrexroth-us.com/GoToaccess

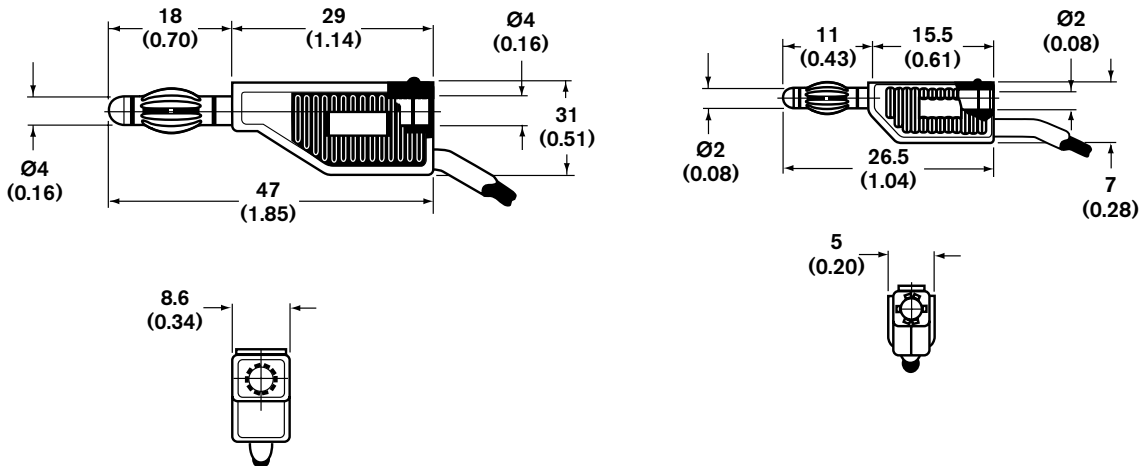
Features

- For servicing or troubleshooting
- Measures voltage of amplifier card via VT card test jack
- Can be used with Rexroth test point and system cards
- Red or black color

Detailed information:
• RA29785

Technical Data

Material No.	Description	Color
R978807707	VT PATCH CORD RED AK205/410 SIL 100CM	Red
R978807708	VT PATCH CORD BLK AK205/410 SIL 100CM	Black



GoTo Focused Delivery Program: Aftermarket Parts

Seal kits

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AZMF Seals

Part Number	Description
1510283065	ROTARY SHAFT LIP
1517010195	SEAL KIT

AZPF Seals

1517010152	SEAL KIT (BUNA)
1510283008	SHAFT SEAL (BUNA)

AZPN Seals

1510283023	ROTARY SHAFT LIP
1517010194	SEAL KIT

VPV Seal Kits

9511230597	SEAL KIT	VPV/25/32-210BAR	FKM SEALS
9511230605	SEAL KIT	VPV/16-210BAR	FKM SEALS
9511230658	SEAL KIT	VPV/45-80 210 BAR	FKM SEALS
9511230659	SEAL KIT	VPV/100-164 210 BAR	FKM SEALS
R978711814	VPV16 SAE COMBO PUMP KIT 210		
R978711842	KIT P1 VPV80 210 BAR PUMP REP.		
R978711849	KIT REPAIR VPV100/130 210BAR SAE		
R978711851	KIT REPAIR VPV100/130 210BAR SAE/P1		
R978711850	KIT REPAIR VPV164 210BAR SAE		
R978711852	KIT REPAIR VPV164 210BAR SAE/P1		
R978711838	KIT REPAIR VPV45/63 210BAR SAE		
R978711841	KIT REPAIR VPV45/63 210BAR SAE/P1		
R978711812	REPAIR KIT VPV16 SAE PUMP 210 9511230606		
R978711809	REPAIR KIT VPV25/32 SAE 210 9511230598		
R978711825	REPAIR KIT VPV25/32SAE P1 210 9511230623		
R978711840	REPAIR KIT VPV80 SAE 210 BAR 9511230641		

PV7 Seal Kits

R901169902	REGULATOR	V7-1A/...D0-16	BG
R900891699	SEAL KIT	PV7-1X/100M/K	
R900891704	SEAL KIT	PV7-1X/10M/K	
R900891703	SEAL KIT	PV7-1X/16M	
R900891702	SEAL KIT	PV7-1X/25M/K	
R900891701	SEAL KIT	PV7-1X/40M/K	
R900891700	SEAL KIT	PV7-1X/63M/K	

See index Pages 255–257 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Aftermarket Parts

Seal kits (continued)

GoTo www.boschrexroth-us.com/GoToaccess

A2F Seals

Part Number	Description
R987053790	SEAL KT A/AA2FM/O/E107-125/61-V
R987053791	SEAL KT A/AA2FM/O/E160-180/61-V
R987053779	SEAL KT A/AA2FM/O/E23-32/61-V
R987053787	SEAL KT A/AA2FM/O/E45/61-V
R987053788	SEAL KT A/AA2FM/O/E56-63/61-V
R987053789	SEAL KT A/AA2FM/O/E80-90/61-V
R987053786	SEAL KT A/AA2FM/O10-16/61-V

A4VG Seals

R987053882	SEAL KT AA4VG125/32-N
R987053887	SEAL KT AA4VG180/32-N
R987053936	SEAL KT AA4VG250/32-N
R987053885	SEAL KT AA4VG28/32-N
R987054641	SEAL KT AA4VG40/32-N
R987053884	SEAL KT AA4VG56/32-N
R987053886	SEAL KT AA4VG71/32-N
R987053883	SEAL KT AA4VG90/32-N

A4VS Seals

R902416678	SEAL KIT A4VS180/30-V pump only
R902416662	SEAL KIT .A4VS125/30-P pump only
R902416680	SEAL KIT .A4VS125/30-V pump only
R902416679	SEAL KIT .A4VS180/30-P pump only
R902416677	SEAL KIT .A4VS250/30-V pump only
R902416676	SEAL KIT A4VS250/30-P pump only

A6V Seals

R987054740	SEAL KT AA6VM107/63-V
R987053876	SEAL KT AA6VM160/63-V
R987053873	SEAL KT AA6VM55/63-V
R987053874	SEAL KT AA6VM80/63-V

GoTo Focused Delivery Program: Aftermarket Parts

Seal kits (continued)

GoTo www.boschrexroth-us.com/GoToaccess

Valve Seals

Part Number	Description
R900890976	SEAL KIT -10/3V (M7-22)
R961000472	SEAL KIT LC16A/B/DB/DR.-7X/
R900357571	SEAL KIT WE 6.5X/
R900306349	SEAL KIT WH 22.6X/7X/
R961000756	SEAL KIT HED8OA/OH/OP1X/
R961000473	SEAL KIT LC16A/B/DB/DR.-7X/V
R961003070	SEAL KIT LC25.-5X/6X/
R961000474	SEAL KIT LC25A/B/DB/DR.-7X/
R961000475	SEAL KIT LC25A/B/DB/DR.-7X/V
R961000476	SEAL KIT LC32A/B/DB/DR.-7X/
R961000744	SEAL KIT LC40A/B/DB/DR.-7X/
R900314055	SEAL KIT LC40A/B/DB/DR-5X/6X/
R961000684	SEAL KIT SEW6.3X/.V M-2/3*
R900357578	SEAL KIT WE 10.3X/C
R900357579	SEAL KIT WE 10.3X/C/V
R900357572	SEAL KIT WE 6.5X/V
R900357573	SEAL KIT WE 6.6X/E
R900357574	SEAL KIT WE 6.6X/E/V
R900309825	SEAL KIT WH 22.6X/7X/V

GoTo Focused Delivery Program: Aftermarket Parts

A10 service parts kits for AA10VSO series 30 and 31

GoTo www.boschrexroth-us.com/GoToaftermarket

Size 18

Part Number	Description
R910941171	SEAL KIT (VITON)
R910948589	BEARING KIT
R910948590	ROTARY GROUP RH – RIGHT HAND ROTATION
R910948591	ROTARY GROUP LH – LEFT HAND ROTATION

Size 28

R910932983	SEAL KIT (VITON)
R910942158	BEARING KIT
R910947781	ROTARY GROUP RH – RIGHT HAND ROTATION
R910947782	ROTARY GROUP LH – LEFT HAND ROTATION

Size 45

R910932984	SEAL KIT (VITON)
R902487515	SEAL KIT (VITON) - SERIES 53
R910963478	SEAL KIT (BUNA)
R910942248	BEARING KIT
R910947730	ROTARY GROUP RH – RIGHT HAND ROTATION
R910947789	ROTARY GROUP LH – LEFT HAND ROTATION

Size 71

R910932985	SEAL KIT (VITON)
R910942250	BEARING KIT
R910947801	ROTARY GROUP RH – RIGHT HAND ROTATION
R910947802	ROTARY GROUP LH – LEFT HAND ROTATION

Size 100

R910941168	SEAL KIT (VITON)
R910948602	BEARING KIT
R910948603	ROTARY GROUP RH – RIGHT HAND ROTATION
R910948604	ROTARY GROUP LH – LEFT HAND ROTATION

Size 140

R910941170	SEAL KIT (VITON)
R910948615	BEARING KIT
R910948617	ROTARY GROUP RH – RIGHT HAND ROTATION
R910948618	ROTARY GROUP LH – LEFT HAND ROTATION

See index Pages 257–258 for GoTo product and accessory part numbers.

GoTo Focused Delivery Program: Aftermarket Parts

Popular cross-over filter elements

GoTo www.boschrexroth-us.com/GoToaftermarket

Part Number	Description
R928005636	1.0045 G25-A00-0-M
R928005639	1.0045 H10XL-A00-0-M
R928005640	1.0045 H20XL-A00-0-M
R928005672	1.0060 G25-A00-0-M
R928045173	1.1401 G40-A00-0-M
R928045584	2.0005 G40-A00-0-V
R928006374	2.0020 G25-A00-0-M
R928006376	2.0020 H6XL-A00-0-M
R928006699	2.0063 H3XL-A00-0-M
R928006755	2.0100 H10XL-A00-0-M
R928006764	2.0100 H10XL-B00-0-M
R928006861	2.0250 H3XL-A00-0-M
R928006862	2.0250 H6XL-A00-0-M
R928006871	2.0250 H6XL-B00-0-M
R928019029	2.56 P10-A00-0-M
R928025500	2.90 H10XL-C00-0-M
R928022781	4.06 P10-A00-0-M
R928028012	4.10 G200-A00-0-M
R928017144	9.110LA H10XL-A00-0-M SO3000
R928022425	9.110LA H10XL-A00-0-V SO3000
R928017152	9.110LA H10XL-F00-0-MSO3000
R928017143	9.110LA H20XL-A00-0-MSO3000
R928017154	9.110LA H3XL-F00-0-M SO3000
R928017145	9.110LA H6XL-A00-0-M SO3000
R928017153	9.110LA H6XL-F00-0-MSO3000
R928025333	9.1320LA H6XL-F00-0-M
R928017210	9.160LA H10XL-A00-0-M SO3000
R928017218	9.160LA H10XL-F00-0-MSO3000
R928017217	9.160LA H20XL-F00-0-MSO3000
R928017220	9.160LA H3XL-F00-0-M SO3000
R928017211	9.160LA H6XL-A00-0-MSO3000
R928017219	9.160LA H6XL-F00-0-MSO3000
R928017221	9.240 G25-A00-0-M
R928017243	9.240LA H10XL-A00-0-M SO3000
R928017251	9.240LA H10XL-F00-0-M SO3000
R928017242	9.240LA H20XL-A00-0-MSO3000
R928017250	9.240LA H20XL-F00-0-MSO3000
R928017245	9.240LA H3XL-A00-0-MSO3000
R928017253	9.240LA H3XL-F00-0-M SO3000

Part Number	Description
R928017244	9.240LA H6XL-A00-0-MSO3000
R928017276	9.280LA H10XL-A00-0-M SO3000
R928017275	9.280LA H20XL-A00-0-M SO3000
R928017277	9.280LA H6XL-A00-0-M SO3000
R928017074	9.30LA H10XL-A00-0-MSO3000
R928017086	9.30LA H10XL-F00-0-MSO3000
R928017085	9.30LA H20XL-F00-0-M SO3000
R928017088	9.30LA H3XL-F00-0-M SO3000
R928017309	9.330LA H10XL-A00-0-M SO3000
R928017317	9.330LA H10XL-F00-0-M SO3000
R928017308	9.330LA H20XL-A00-0-MSO3000
R928017311	9.330LA H3XL-A00-0-MSO3000
R928017319	9.330LA H3XL-F00-0-M SO3000
R928017310	9.330LA H6XL-A00-0-MSO3000
R928017318	9.330LA H6XL-F00-0-M SO3000
R928017374	9.500LA H20XL-A00-0-M SO3000
R928048442	9.60 G25-A00-0-V-0024
R928017111	9.60LA H10XL-A00-0-M SO3000
R928017119	9.60LA H10XL-F00-0-M SO3000
R928017121	9.60LA H3XL-F00-0-M SO3000
R928017120	9.60LA H6XL-F00-0-MSO3000
R928017408	9.660LA H10XL-A00-0-M SO3000
R928017416	9.660LA H10XL-F00-0-M SO3000
R928017407	9.660LA H20XL-A00-0-M SO3000
R928017415	9.660LA H20XL-F00-0-MSO3000
R928017418	9.660LA H3XL-F00-0-MSO3000
R928017417	9.660LA H6XL-F00-0-M SO3000
R928019176	9.990LA H10XL-F00-0-MSO3000
R928017483	10.110LA H10XL-A00-6-M SO3000
R928017647	10.1300 G25-000-6-M
R928017667	10.1300LA H10XL-A00-6-M SO3000
R928017668	10.1300LA H6XL-A00-6-M SO3000
R928017506	10.160LA H10XL-A00-6-M SO3000
R928017505	10.160LA H20XL-000-6-MSO3000
R928017507	10.160LA H6XL-000-6-MSO3000
R928017515	10.240 P10-000-6-M
R928017529	10.240LA H10XL-A00-6-M SO3000
R928017530	10.240LA H6XL-000-6-MSO3000
R928037731	10.2600LA H10XL-A00-0-M SO3000

GoTo Focused Delivery Program: Aftermarket Parts

Popular cross-over filter elements (continued)

GoTo www.boschrexroth-us.com/GoToaftermarket

Part Number	Description
R928017692	10.2600LA H3XL-000-6-MSO3000
R928017691	10.2600LA H6XL-000-6-MSO3000
R928017437	10.30LA H10XL-000-6-MSO3000
R928017552	10.330LA H10XL-A00-6-M SO3000
R928035218	10.330LA H10XL-A00-B6-M SO3000
R928017551	10.330LA H20XL-000-6-MSO3000
R928017553	10.330LA H6XL-000-6-MSO3000
R928017538	10.330P10-000-6-M
R928017575	10.500LA H10XL-A00-6-M SO3000
R928017574	10.500LAH20XL-000-6-MSO3000
R928017460	10.60LAH 10XL-000-6-MSO3000
R928017598	10.660LA H10XL-A00-6-M SO3000
R928017600	10.660LA H3XL-A00-6-MSO3000
R928017599	10.660LA H6XL-000-6-MSO3000
R928017621	10.850LA H10XL-000-6-MSO3000
R928017644	10.950LA H10XL-000-6-MSO3000
R928016662	16.7400/R H20XL-S00-0-M
R928016676	16.7500/R H10XL-S00-0-M
R928016674	16.7500/R H6XL-S00-0-M
R928019959	16.7500/R P10-S00-0-M
R928016677	16.7500/S H10XL-S00-0-M
R928016673	16.7500/S H3XL-S00-0-M

Part Number	Description
R928016675	16.7500/S H6XL-S00-0-M
R928016706	16.8300/S H10XL-S00-0-V
R928016716	16.8304/U H6XL-S00-0-M
R928016728	16.8304/U H6XL-S00-0-V
R928016729	16.8304/X H6XL-S00-0-V
R928016804	16.8700/R H10XL-S00-0-M
R928016827	16.8900/TH10XL-S00-0-M
R928016950	16.9600/T H6XL-E00-0-M
R928046179	20.750 P25-S00-6-M
R902603750	62.0056K H10XL-J00-0-V
R902603298	62.0056K H20XL-J00-0-V
R902603243	62.0125K H20XL-J00-0-V
R902603004	62.0180K H20XL-J00-0-V
R928037484	80.130 H1XL-S00-0-M
R928019201	80.130 H6XL-S00-0-M
R928028010	80.30/20 P10-S00-0-V
R928028019	80.45/21 VS60-S00-0-M
R928016614	80.90 H10XL-S00-0-M
R928016612	80.90 P10-S00-0-M
R928028556	84.60 H10XL-S00-4-M
R928022726	99.183677 MB15-C00-0-M

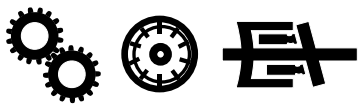
GoTo Focused Delivery Program: Aftermarket Parts

Rineer service part kits

GoTo www.boschrexroth-us.com/GoToaftermarket

BR Material #	Type of Kit	Description	
R986V02033	Spring Pack	M015 KT-SP-0150931	1 complete spring kit
R986V02035	Spring Pack	M037 KT-SP-0370936	1 complete spring kit
R986V02036	Spring Pack	M125 KT-SP-1250930	1 complete spring kit
R986V02037	Spring Pack	M125 KT-SP-1250993	1 complete spring kit
R986V04286	Service Kit	5/16 BALL CHECKS	12 pieces
R986V04287	Service Kit	M015 STD TIMING PLTS	2 pieces
R986V04288	Service Kit	M037 C62 TIMING PLTS	2 pieces
R986V04289	Service Kit	M125 PC TIMING PLTS	2 pieces
R986V02047	Service Kit	VANES 1250961PC	1 complete vane & spring kit
R986V02038	Service Kit	VANES V0150930	1 complete vane & spring kit
R986V02041	Service Kit	VANES V0371914PC	1 complete vane & spring kit
R986V02050	Service Kit	VANES V1251962-2S	1 complete vane & spring kit
R986V01643	Seal Kit	M015 KT-SE-0150004	1 complete seal kit
R986V01651	Seal Kit	M015 KT-SE-0150940	1 complete seal kit
R986V01687	Seal Kit	M037 KT-SE-0370973	1 complete seal kit
R986V01689	Seal Kit	M037 KT-SE-0370979	1 complete seal kit
R986V01690	Seal Kit	M037 KT-SE-0370982	1 complete seal kit
R986V01696	Seal Kit	M037 KT-SE-0371917	1 complete seal kit
R986V01747	Seal Kit	M125 KT-SE1250997	1 complete seal
R986V04301	Seal Kit	O-RINGS 2-160 NBR	12 pieces

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
	 Pumps and Motors			
	A10V(S)O & (A)A10VSO (Series 31) – Variable Displacement Pumps			
7	A10VSO 18 DR /31R-VKC62N00	R902502702	5	10
7	A10VSO 18 DFR /31R-VKC62N00	R902502736	5	10
7	A10VSO 18 DRG /31R-VKC62N00	R902502752	5	10
7	A10VSO 18 DFR /31R-VSC62N00	R902503236	5	10
7	A10VSO 18 DFR /31R-VUC62N00	R902504298	5	10
7	A10VSO 18 DFR /31R-VKC62N00	R910930740	5	10
7	A10VSO 18 DFR/31R-PUC62N00	R910928042	5	10
7	A10VSO 18 DFR1/31R-PPA12N00	R910945178	5	10
7	AA10VSO 28 DR /31R-VKC62N00	R902401464	5	10
7	AA10VSO 28 DFR /31R-VKC62K01	R902502185	5	10
7	AA10VSO 28 DRG /31L-VSC62N00	R902502364	5	10
7	A10VO 28 DFR /31R-VSC62N00	R902502726	5	10
7	AA10VSO 28 DFR /31R-VKC62N00	R902502732	5	10
7	AA10VSO 28 DRG /31R-VKC62N00	R902502734	5	10
7	A10VO 28 DFR1 /31R-VSC62N00	R902502735	5	10
7	A10VO 28 DFR /31L-VSC62N00	R902504304	5	10
7	AA10VSO 28 DFR /31R-VKC62N00	R902400492	5	10
7	A10VSO 28 DR /31R-PPA12N00	R910903163	5	10
7	AA10VSO 45 DFR /31R-VKC62K01	R902502188	5	10
7	A10VO 45 DFR /31R-VSC62N00	R902502703	5	10
7	A10VO 45 DFR /31R-VSC62K01	R902502728	5	10
7	AA10VSO 45 DFR /31R-VKC62N00	R902502733	5	10
7	AA10VSO 45 DRG /31R-VKC62N00	R902502737	5	10
7	AA10VSO 45 DR /31R-VKC62N00	R902502741	5	10
7	A10VO 45 DFR /31L-VUC62N00	R902504295	5	10
7	A10VO 45 DRG /31L-VSC62N00	R902504296	5	10
7	A10VO 45 DFR1 /31L-VSC62N00	R910910727	5	10
7	AA10VSO 45 DFR /31R-VKC62N00	R910918262	5	10
7	A10VO 45 DFR /31L-VSCV62N00	R910920155	5	10
7	A10VSO 45 DFR1 /31R-PPA12N00	R910908725	5	10
7	AA10VSO 71 DFR /31R-VKC92N00	R902400497	5	10
7	AA10VSO 71 DFR1 /31R-VKC92N00	R902502127	5	10
7	AA10VSO 71 DFR /31R-VKC92K01	R902502186	5	10
7	A10VO 71 DFR /31R-VSC92K68	R902502697	5	10
7	A10VO 71 DFR /31R-VSC92N00	R902502698	5	10
7	A10VO 71 DFR /31L-VSC91N00	R902502700	5	10
7	AA10VSO 71 DR /31R-VKC92N00	R902502701	5	10
7	A10VO 71 DFR /31L-VSC92N00	R902502710	5	10
7	A10VO 71 DR /31R-VSC92N00	R902502711	5	10
7	AA10VSO 71 DRG /31R-VKC92K03	R902502715	5	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
7	A10VO 71 DRG /31R-VSC92K68	R902502723	5	10
7	AA10VSO 71 DR /31R-VKC92K01	R902502980	5	10
7	AA10VSO 71 DR /31L-VKC92N00	R902502981	5	10
7	AA10VSO 71 DRG /31R-VKC92K40	R902502982	5	10
7	AA10VSO 71 DR /31R-VKC92K05	R902502984	5	10
7	AA10VSO 71 DRG /31R-VKC92N00	R902502985	5	10
7	EAA10VSO 71 DR /31R-VKC92N00	R902502986	5	10
7	A10VSO 71 DR /31R-VPA42N00	R902502988	5	10
7	A10VSO 71 DRG /31R-PPA12K01	R902502989	5	10
7	AA10VSO 71 DR /31R-VKC92K08	R902503042	5	10
7	A10VO 71 DFR1 /31R-VSC94N00	R902504299	5	10
7	LA10VO 100 DR /31R-VUC62N00	R902500164	5	10
7	AA10VSO 100 DFR /31R-VKC62N00	R902502730	5	10
7	AA10VSO 100 DRG /31R-VKC62N00	R902502990	5	10
7	AA10VSO 100 DR /31R-VKC62K38	R902502991	5	10
7	AA10VSO 100 DR /31R-VKC62K01	R902502992	5	10
7	AA10VSO 100 DFR /31R-VKC62K03	R902502994	5	10
7	AA10VSO 100 DFR /31R-VKC62K08	R902502995	5	10
7	A10VSO 100 DFR1 /31R-VPA12N00	R902502996	5	10
7	AA10VSO 100 DR /31R-VKC62N00	R902502997	5	10
7	A10VO 100 DFR1 /31L-VUC61N00	R902503597	5	10
7	A10VO 100 DFR /31L-VUC62N00	R902504293	5	10
7	A10VO 100 DFR /31R-VUC62N00	R902504294	5	10
7	A10VO 100 DFR /31R-VUC62K07	R902504300	5	10
7	A10VO 100 DFR1 /31R-VUC62K07	R902504303	5	10
7	A10VO 100 DFR /31L-PUC62N00	R910908135	5	10
7	AA10VSO 100 DFR /31R-VKC62N00	R910918441	5	10
7	AA10VSO 140 DR /31R-VKD62N00	R902502731	5	10
7	AA10VSO 140 DFR1 /31R-VKD62K01	R902502998	5	10
7	AA10VSO 140 DRG /31R-VKD62K08	R902502999	5	10
7	A10VSO 140 DFR1 /31R-VPB12N00	R902503000	5	10
7	AA10VSO 140 DFR /31R-VKD62K01	R902503002	5	10
7	AA10VSO 140 DR /31R-VKD62N00	R902503003	5	10
7	AA10VSO 140 DRG /31R-VKD62N00	R902503004	5	10
7	A10VO 140 DFR /31L-VSD62N00	R902504324	5	10
7	A10VO 140 DFR /31R-VSD62N00	R902504328	5	10
7	A10VO 140 DR /31R-VSD62N00	R902504331	5	10
7	A10VO 140 DR /31L-VSD62N00	R902504333	5	10
7	AA10VSO 140 DFR /31R-VKD62N00	R910940042	5	10
7	AA10VSO 140 DFR /31R-VKD62N00	R902503001	5	10
	A10V(S)O (Series 52) – Variable Displacement Pumps			
8	A10VSO 10 DFR /52R-VKC64N00 E	R902476345	5	10
8	A10VO 28 DFR /52R-VSC64N00	R902502740	5	10
8	A10VO 28 DFR /52L-VSC64N00	R902504312	5	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
8	A10VO 28 DR /52R-VSC64N00	R902504314	5	10
8	A10VO 28 DR /52L-VSC64N00	R902504317	5	10
8	A10VO 28 DR /52L-VRC64N00	R902504634	5	10
8	A10VO 28 DFR /52L-VRC64N00	R902504637	5	10
8	A10VO 28 DFR /52R-VRC64N00	R902504639	5	10
8	A10VO 28 DFR1 /52R-VSC64N00	R902504642	5	10
8	A10VO 28 DFR1 /52L-VSC64N00	R902504644	5	10
8	A10VO 28 DR /52R-VRC64N00	R902504645	5	10
8	A10VO 28 DFR1 /52L-VRC64N00	R902504647	5	10
8	A10VO 28 DFR1 /52R-VRC64N00	R902504651	5	10
8	A10VO 45 DFR /52R-VSC64N00	R902401405	5	10
8	HA10VO 45 DFR /52R-PSC62N00	R902406182	5	10
8	A10VO 45 DFR1 /52R-VSC64N00	R902502738	5	10
8	A10VO 45 DFR /52L-VSC64N00	R902502739	5	10
8	A10VO 45 DFR /52L-VUC64N00	R902504305	5	10
8	A10VO 45 DFR1 /52R-VUC64N00	R902504306	5	10
8	A10VO 45 DFR /52R-VUC64N00	R902504309	5	10
8	A10VO 45 DR /52R-VUC64N00	R902504310	5	10
8	A10VO 45 DFR1 /52L-VSC64N00	R902504652	5	10
8	A10VO 45 DFR1 /52L-VUC64N00	R902504653	5	10
8	A10VO 45 DR /52L-VSC64N00	R902504654	5	10
8	A10VO 45 DR /52L-VUC64N00	R902504656	5	10
8	A10VO 45 DR /52R-VSC64N00	R902504658	5	10
8	A10VO 45 DFR /52R-VSC62N00	R902504660	5	10
8	A10VO 45 DFR /52R-VUC62N00	R902504662	5	10
8	A10VO 45 DFR1 /52R-VSC62N00	R902504663	5	10
8	A10VO 45 DFR1 /52R-VUC62N00	R902504664	5	10
8	A10VO 45 DR /52R-VSC62N00	R902504666	5	10
8	A10VO 45 DR /52R-VUC62N00	R902504668	5	10
8	A10VO 45 DFR /52L-PUC64N00	R910970020	5	10
8	A10VO 60 DFR1 /52R-PSD62N00 -SO 97	R902401219	5	10
8	A10VO 60 DRG /52R-VUC62N00 -SO 97	R902501461	5	10
8	A10VO 60 DFR1 /52R-VSD61N00	R902502753	5	10
8	A10VO 60 DFR1 /52L-VSD62K04	R902504292	5	10
8	A10VO 60 DFR1 /52R-VSD62N00	R902504316	5	10
8	A10VO 60 DFR1 /52R-VUC61N00	R902504319	5	10
8	A10VO 60 DFR /52R-VSD61N00	R902504320	5	10
8	A10VO 60 DFR1 /52L-VSD61N00	R902504669	5	10
8	A10VO 60 DR /52R-VSD61N00	R902504671	5	10
8	A10VO 60 DR /52L-VSD61N00	R902504673	5	10
8	A10VO 60 DFR /52R-VUD61N00	R902504675	5	10
8	A10VO 60 DFR1 /52R-VUD61N00	R902504678	5	10
8	A10VO 60 DFR /52L-VUD61N00	R902504679	5	10
8	A10VO 60 DFR1 /52L-VUD61N00	R902504682	5	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
8	A10VO 60 DR /52L-VUD61N00	R902504685	5	10
8	A10VO 60 DFR /52R-VSC61N00	R902504687	5	10
8	A10VO 60 DFR1 /52R-VSC61N00	R902504689	5	10
8	A10VO 60 DFR /52L-VSC61N00	R902504690	5	10
8	A10VO 60 DFR1 /52L-VSC61N00	R902504692	5	10
8	A10VO 60 DR /52R-VSC61N00	R902504693	5	10
8	A10VO 60 DR /52L-VSC61N00	R902504695	5	10
8	A10VO 60 DFR /52R-VUC61N00	R902504697	5	10
8	A10VO 60 DFR /52L-VUC61N00	R902504698	5	10
8	A10VO 60 DFR1 /52L-VUC61N00	R902504700	5	10
8	A10VO 60 DR /52R-VUC61N00	R902504701	5	10
8	A10VO 60 DR /52L-VUC61N00	R902504703	5	10
8	A10VO 60 DFR /52R-VWD61N00	R902504705	5	10
8	A10VO 60 DFR1 /52R-VWD61N00	R902504708	5	10
8	A10VO 60 DFR /52L-VWD61N00	R902504709	5	10
8	A10VO 60 DFR1 /52L-VWD61N00	R902504712	5	10
8	A10VO 60 DR /52R-VWD61N00	R902504713	5	10
8	A10VO 60 DR /52L-VWD61N00	R902504715	5	10
8	A10VO 60 DFR /52R-VWC61N00	R902504717	5	10
8	A10VO 60 DFR1 /52R-VWC61N00	R902504720	5	10
8	A10VO 60 DFR /52L-VWC61N00	R902504721	5	10
8	A10VO 60 DFR1 /52L-VWC61N00	R902504723	5	10
8	A10VO 60 DR /52R-VWC61N00	R902504724	5	10
8	A10VO 60 DR /52L-VWC61N00	R902504726	5	10
8	A10VO 60 DFR /52R-VSD62N00	R902504727	5	10
8	A10VO 60 DFR1 /52L-VSD62N00	R902504728	5	10
8	A10VO 60 DR /52R-VSD62N00	R902504730	5	10
8	A10VO 60 DR /52L-VSD62N00	R902504732	5	10
8	A10VO 60 DFR /52R-VUD62N00	R902504733	5	10
8	A10VO 60 DFR1 /52R-VUD62N00	R902504735	5	10
8	A10VO 60 DFR /52L-VUD62N00	R902504736	5	10
8	A10VO 60 DFR1 /52L-VUD62N00	R902504738	5	10
8	A10VO 60 DR /52R-VUD62N00	R902504739	5	10
8	A10VO 60 DR /52L-VUD62N00	R902504741	5	10
8	A10VO 60 DFR /52R-VSC62N00	R902504743	5	10
8	A10VO 60 DFR1 /52R-VSC62N00	R902504745	5	10
8	A10VO 60 DFR /52L-VSC62N00	R902504746	5	10
8	A10VO 60 DFR1 /52L-VSC62N00	R902504748	5	10
8	A10VO 60 DR /52R-VSC62N00	R902504749	5	10
8	A10VO 60 DR /52L-VSC62N00	R902504751	5	10
8	A10VO 60 DFR1 /52R-VUC62N00	R902504753	5	10
8	A10VO 60 DFR /52L-VUC62N00	R902504755	5	10
8	A10VO 60 DR /52R-VUC62N00	R902504757	5	10
8	A10VO 60 DR /52L-VUC62N00	R902504759	5	10

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8	A10VO 60 DFR /52R-VWD62N00	R902504761	5	10
8	A10VO 60 DFR1 /52R-VWD62N00	R902504764	5	10
8	A10VO 60 DFR /52L-VWD62N00	R902504765	5	10
8	A10VO 60 DFR1 /52L-VWD62N00	R902504768	5	10
8	A10VO 60 DR /52R-VWD62N00	R902504769	5	10
8	A10VO 60 DR /52L-VWD62N00	R902504771	5	10
8	A10VO 60 DFR /52R-VWC62N00	R902504773	5	10
8	A10VO 60 DFR1 /52R-VWC62N00	R902504775	5	10
8	A10VO 60 DFR /52L-VWC62N00	R902504776	5	10
8	A10VO 60 DFR1 /52L-VWC62N00	R902504778	5	10
8	A10VO 60 DR /52R-VWC62N00	R902504779	5	10
8	A10VO 60 DR /52L-VWC62N00	R902504781	5	10
8	A10VO 60 DFR /52R-VSD62K04	R902504787	5	10
8	A10VO 60 DFR1 /52R-VSD62K04	R902504789	5	10
8	A10VO 60 DFR /52L-VSD62K04	R902504790	5	10
8	A10VO 60 DR /52R-VSD62K04	R902504791	5	10
8	A10VO 60 DR /52L-VSD62K04	R902504793	5	10
8	A10VO 60 DFR1 /52L-VSC62K04	R902504797	5	10
8	A10VO 60 DFR /52R-VSC62K04	R902504800	5	10
8	A10VO 60 DFR1 /52R-VSC62K04	R902504802	5	10
8	A10VO 60 DFR /52L-VSC62K04	R902504803	5	10
8	A10VO 60 DR /52R-VSC62K04	R902504804	5	10
8	A10VO 60 DR /52L-VSC62K04	R902504806	5	10
8	A10VO 60 DFR1 /52L-VSD62K68	R902504808	5	10
8	A10VO 60 DFR /52R-VSD62K68	R902504810	5	10
8	A10VO 60 DFR1 /52R-VSD62K68	R902504812	5	10
8	A10VO 60 DFR /52L-VSD62K68	R902504813	5	10
8	A10VO 60 DR /52R-VSD62K68	R902504814	5	10
8	A10VO 60 DR /52L-VSD62K68	R902504816	5	10
8	A10VO 60 DFR1 /52L-VSC62K68	R902504818	5	10
8	A10VO 60 DFR /52R-VSC62K68	R902504820	5	10
8	A10VO 60 DFR /52L-VSC62K68	R902504821	5	10
8	A10VO 60 DR /52R-VSC62K68	R902504822	5	10
8	A10VO 60 DR /52L-VSC62K68	R902504824	5	10
8	A10VO 60 DFR /52L-PUC61N00	R910984664	5	10
8	A10VO 85 DFR /52R-VUC62N00	R902504322	5	10
8	A10VO 85 DFR /52L-VUC62N00	R902504326	5	10
8	A10VO 85 DFR1 /52R-VUC62N00	R902504330	5	10
8	A10VO 85 DFR1 /52L-VUC62N00	R902504826	5	10
8	A10VO 85 DFR1 /52R-VUC61N00	R902501434	5	10
8	A10VO 85 DR /52L-VUC62N00	R902504828	5	10
8	A10VO 85 DR /52R-VUC62N00	R902504830	5	10
8	A10VO 85 DFR1 /52L-VUC61N00	R902504832	5	10
8	A10VO 85 DFR /52R-VUC61N00	R902504834	5	10

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8	A10VO 85 DFR /52L-VUC61N00	R902504835	5	10
8	A10VO 85 DR /52L-VUC61N00	R902504836	5	10
8	A10VO 85 DR /52R-VUC61N00	R902504838	5	10
	A10VSO (Series 32) – Variable Displacement Pumps			
9	A10VSO 180 DRF /32R-VSD72U00E	R902534337	3	10
9	A10VSO 180 DRG /32R-VKD72U00E E	R902497939	3	10
	(A)A4VSO (Series 10 & 30) – Variable Displacement Pumps			
10	AA4VSO 40 DR /10R-PKD63N00 E	R902406306	3	10
10	AA4VSO 71 DR /10R-PKD63N00 E	R902406401	3	10
10	AA4VSO 125 DR /30R-FKD75U99 E	R902446067	3	10
10	AA4VSO 125 DR /30R-VKD75U99 E	R902451164	3	10
10	AA4VSO 180 DR /30R-FKD75U99 E	R902446069	3	10
10	AA4VSO 180 DR /30R-VKD75U99 E	R902446024	3	10
10	AA4VSO 250 DR /30R-FKD75U99 E	R902445974	3	10
10	HAA4VSO 250DR/30R-VKD75U99 E	R902445975	3	10
10	HAA4VSO 250DRG/30R-VKD75U99 E	R902480613	3	10
	A15VSO (Series 10) – Variable Displacement Pumps			
11	A15VSO 145 DRS 0A0V/10ARVD4T11EU0000-0	R902536979	3	10
11	A15VSO 145 LRDRS 0A0V/10ARVD4T11EU0000-0	R902536981	3	10
11	A15VSO 175 DR S0A0V/10ARVE4T21EU0000-0	R902536791	3	10
11	A15VSO 175 LRDRS 0A0V/10ARVE4T21EU0000-0	R902536793	3	10
11	A15VSO 210 DRS 0A0V/10ARVE4T21EU0000-0	R902536795	3	10
11	A15VSO 210 LRDRS 0A0V/10ARVE4T21EU0000-0	R902536797	3	10
11	A15VSO 280 DRS 0A0V/10ARVE4T31EU0000-0	R902497156	3	10
11	A15VSO 280 LRDRS 0A0V/10ARVE4T31EU0000-0	R902497154	3	10
	AA4VG (Series 32) – Variable Displacement Pumps			
12	AA4VG 56 EP3 D1 /32L-NSC52F005DP	R902232806	5	10
12	AA4VG 56 EP3 D1 /32R-NSC52F005DP	R902232804	5	10
12	AA4VG 56 EP3 D1 /32R-NSC52F025DP-S	R902232808	5	10
12	AA4VG 56 EP4 D1 /32L-NSC52F005DP	R902232807	5	10
12	AA4VG 56 EP4 D1 /32R-NSC52F005DP	R902232805	5	10
12	AA4VG 56 EP4 D1 /32R-NSC52F025DP-S	R902232809	5	10
12	AA4VG 56 HD3 D1 /32L-NSC52F005D	R902232811	5	10
12	AA4VG 56 HD3 D1 /32R-NSC52F005D	R902232810	5	10
12	AA4VG 56 HD3 D1 /32R-NSC52F025D-S	R902232812	5	10
12	AA4VG 71 EP3 D1 /32L-NSF52F001DP	R902232814	5	10
12	AA4VG 71 EP3 D1 /32R-NSF52F001DP	R902232813	5	10
12	AA4VG 71 EP3 D1 /32R-NSF52F011DP-S	R902232815	5	10
12	AA4VG 71 EP4 D1 /32L-NSF52F001DP	R902232817	5	10
12	AA4VG 71 EP4 D1 /32R-NSF52F001DP	R902232816	5	10
12	AA4VG 71 EP4 D1 /32R-NSF52F011DP-S	R902232818	5	10
12	AA4VG 71 HD3 D1 /32L-NSF52F001D	R902232820	5	10
12	AA4VG 71 HD3 D1 /32R-NSF52F001D	R902232819	5	10
12	AA4VG 71 HD3 D1 /32R-NSF52F011D-S	R902232821	5	10

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12	AA4VG 90 EP3 D1 /32L-NSF52F001DP	R902232823	5	10
12	AA4VG 90 EP3 D1 /32R-NSF52F001DP	R902232822	5	10
12	AA4VG 90 EP4 D1 /32L-NSF52F001DP	R902232825	5	10
12	AA4VG 90 EP4 D1 /32R-NSF52F001DP	R902232824	5	10
12	AA4VG 90 HD3 D1 /32L-NSF52F001D	R902232827	5	10
12	AA4VG 90 HD3 D1 /32R-NSF52F001D	R902232826	5	10
12	AA4VG 125 EP3 D1 /32L-NSF52F001DP	R902232829	5	10
12	AA4VG 125 EP3 D1 /32R-NSF52F001DP	R902232828	5	10
12	AA4VG 125 EP4 D1 /32L-NSF52F001DP	R902232831	5	10
12	AA4VG 125 EP4 D1 /32R-NSF52F001DP	R902232830	5	10
12	AA4VG 125 HD3 D1 /32L-NSF52F001D	R902232833	5	10
12	AA4VG 125 HD3 D1 /32R-NSF52F001D	R902232832	5	10
	AA10VG (Series 32) – Variable Displacement Pumps			
13	AA10VG 18 EP31 /10L-NSC66F025SP-S	R902232792	5	10
13	AA10VG 18 EP31 /10R-NSC66F025SP-S	R902232791	5	10
13	AA10VG 18 HD31 /10L-NSC66F025S-S	R902232794	5	10
13	AA10VG 18 HD31 /10R-NSC66F025S-S	R902232793	5	10
13	AA10VG 28 EP3D1 /10L-NSC60F045 DP-S	R902232796	5	10
13	AA10VG 28 EP3D1 /10R-NSC60F015DP-S	R902232797	5	10
13	AA10VG 28 EP3D1 /10R-NSC60F045 DP-S	R902232795	5	10
13	AA10VG 28 HD3D1 /10L-NSC60F045 D-S	R902232799	5	10
13	AA10VG 28 HD3D1 /10R-NSC60F045 D-S	R902232798	5	10
13	AA10VG 45 EP3D1 /10L-NSC60F045 DP-S	R902232801	5	10
13	AA10VG 45 EP3D1 /10R-NSC60F045 DP-S	R902232800	5	10
13	AA10VG 45 HD3D1 /10L-NSC60F045 D-S	R902232803	5	10
13	AA10VG 45 HD3D1 /10R-NSC60F045 D-S	R902232802	5	10
	AZPF & AZPN – External Gear Pumps			
14	AZPF-11-008RH001MB	0510425027	3	10
14	AZPF-11-011RCB20MB	0510525009	3	10
14	AZPF-12-004RQR12MB	9510290021	3	10
14	AZPF-12-004RRR12MB	9510290015	3	10
14	AZPF-12-005RQR12MB	9510290022	3	10
14	AZPF-12-005RRR12MB	9510290005	3	10
14	AZPF-12-008RQR12MB	9510290023	3	10
14	AZPF-12-008RRR12MB	9510290017	3	10
14	AZPF-12-011-LRR12MB	9510290039	3	10
14	AZPF-12-011-RQR12MB	9510290024	3	10
14	AZPF-12-011-RRR12MB	9510290414	3	10
14	AZPF-12-014-LRR12MB	9510290040	3	10
14	AZPF-12-014-RQR12MB	9510290025	3	10
14	AZPF-12-014-RRR12MB	9510290004	3	10
14	AZPF-12-016RQR12MB	9510290122	3	10
14	AZPF-12-016RQR12MB-S0040 - OK	9510290026	3	10
14	AZPF-12-016RRR12MB	9510290056	3	10

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14	AZPF-12-019LRR12MB -S0040	9510290042	3	10
14	AZPF-12-019RQR12MB	9510290123	3	10
14	AZPF-12-019RRR12MB	9510290125	3	10
14	AZPF-12-022RQR12MB	9510290124	3	10
14	AZPF-12-022RQR12MB-S0040	9510290028	3	10
14	AZPF-12-022RRR12MB	9510290126	3	10
14	AZPF-22-025RQR12MB-S0040	9510290112	3	10
14	AZPF-22-025RRR12MB	9510290111	3	10
14	AZPF-22-028RQR12MB-S0040	9510290115	3	10
14	AZPF-22-028RRR12MB	9510290114	3	10
14	AZPN-12-020-RDC12MB	9510390001	3	10
14	AZPN-12-022-RDC12MB	9510390002	3	10
14	AZPN-12-025RDC12MB-S0040	9510390003	3	10
14	AZPN-12-028RDC12MB-S0040	9510390004	3	10
14	AZPN-12-028-RQC12MB-S0040	9510390052	3	10
14	AZPN-12-032RDC12MB-S0040	9510390005	3	10
14	AZPN-12-032RQC12MB-S0040	9510390053	3	10
14	AZPN-12-036RDC12MB-S0040	9510390006	3	10
14	AZPN-12-036RQC12MB	9510390054	3	10
	PGH – Internal Gear Pumps			
15	PGH2-2X/005RE07VU2	R900968999	3	10
15	PGH2-2X/006RE07VU2	R900951301	3	10
15	PGH2-2X/008RE07VU2	R900951302	3	10
15	PGH3-2X/011RE07VU2	R900951303	3	10
15	PGH3-2X/016RE07VU2	R900951305	3	10
15	PGH4-3X/020RE11VU2	R901147100	3	10
15	PGH4-3X/025RE11VU2	R901147101	3	10
15	PGH4-3X/032RE11VU2	R901147102	3	10
15	PGH4-3X/032RR11VU2	R901147112	3	10
15	PGH4-3X/040RE11VU2	R901147103	3	10
15	PGH4-3X/040RR11VU2	R901147113	3	10
15	PGH4-3X/050RE11VU2	R901147104	3	10
15	PGH4-3X/050RR11VU2	R901147114	3	10
15	PGH5-3X/063RE11VU2	R901147115	3	10
15	PGH5-3X/080RE11VU2	R901147116	3	10
15	PGH5-3X/080RR11VU2	R901147130	3	10
15	PGH5-3X/100RE11VU2	R901147117	3	10
15	PGH5-3X/100RR11VU2	R901147131	3	10
15	PGH5-3X/125RE11VU2	R901147118	3	10
	PVV – Fixed Displacement Vane Pumps			
16	PVV1-1X/027RJ15DMB	R900939075	3	10
16	PVV1-1X/036RJ15DMB	R900965314	3	10
16	PVV1-1X/046RJ15DMB	R900704430	3	10
16	PVV2-1X/040RA15UMB	R900931138	3	10

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16	PVV2-1X/055RA15UMB	R900928955	3	10
16	PVV2-1X/068RA15DMB	R900935466	3	10
16	PVV4-1X/069RA15DMC	R900936293	3	10
16	PVV4-1X/082RA15DMC	R900931548	5	10
16	PVV4-1X/098RA15DMC	R900936294	3	10
16	PVV4-1X/122RA15DMC	R900929542	3	10
16	PVV5-1X/154RA15DMC	R900936296	3	10
16	PVV5-1X/183RA15DMC	R900936297	3	10
16	PVV5-1X/193RA15DMC	R900929349	3	10
	VPV – Vane Pumps			
17	0513R18C3VPV100SM21HYB04	0513850216	3	10
17	0513R18C3VPV100SM21HYB04 P1	0513850214	3	10
17	0513R18C3VPV130SM21HYB04	0513860250	3	10
17	0513R18C3VPV130SM21HYB04P1	0513860258	3	10
17	0513R18C3VPV130SM21HZB04	0513860252	3	10
17	0513R18C3VPV130SM21HZB04 P1	0513860238	3	10
17	0513R18C3VPV164SM21HY B04	0513870226	3	10
17	0513R18C3VPV164SM21HYB04 P1	0513870216	3	10
17	0513R18C3VPV16SM21FYB03	0513300208	3	10
17	0513R18C3VPV16SM21FZB03	0513300202	3	10
17	0513R18C3VPV16SM21HYB03	0513300212	3	10
17	0513R18C3VPV16SM21HYB03 P1	0513300246	3	10
17	0513R18C3VPV25SM21FYB03	0513400208	3	10
17	0513R18C3VPV25SM21HYB03	0513400212	3	10
17	0513R18C3VPV32SM21FYB03	0513500216	3	10
17	0513R18C3VPV32SM21FZB03	0513500206	3	10
17	0513R18C3VPV32SM21HYB03	0513500220	3	10
17	0513R18C3VPV32SM21HYB03 P1	0513500254	3	10
17	0513R18C3VPV32SM21HZB03	0513500218	3	10
17	0513R18C3VPV45SM21HYB05	0513600214	3	10
17	0513R18C3VPV45SM21HYB05P1	0513600234	3	10
17	0513R18C3VPV45SM21HZB05	0513600240	3	10
17	0513R18C3VPV63SM21HYB05	0513700218	3	10
17	0513R18C3VPV63SM21HYB05P1	0513700242	3	10
17	0513R18C3VPV63SM21HZB05	0513700214	3	10
17	0513R18C3VPV80SM21HYB05	0513800248	3	10
17	0513R18C3VPV80SM21HYB05P1	0513800238	3	10
17	0513R18C3VPV80SM21HZB05	0513800236	3	10
17	PRESS REG VPV16-32 210 BAR F CONTROL SAE	9511230595	3	10
17	PRESS REG VPV16-32 210 BAR H CONTROL SAE	9511230601	3	10
17	PRESS REG VPV45-164 210 BAR H CONTROL SAE	9511230610	3	10
	PV7 – Variable Vane Pumps, Direct Operated			
18	PV7-1X/06-10RA01MA0-10	R900563233	3	10
18	PV7-2X/20-20RA01MA0-10	R900950953	3	10
18	PV7-2X/20-25RA01MA0-10	R900950955	3	10

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	PV7 – Variable Vane Pumps, Pilot Operated			
19	PV7-1X/10-14RE01MC0-16	R900580381	3	10
19	PV7-1X/100-118RE07MC0-16	R900506809	3	10
19	PV7-1X/16-20RE01MC0-16	R900580382	3	10
19	PV7-1X/25-30RE01MC0-16	R900580383	3	10
19	PV7-1X/40-45RE37MC0-16	R900580384	3	10
19	PV7-1X/63-71RE07MC0-16	R900506808	3	10
19	REGULATOR V7-1A/...C0-16 BG	R901169899	3	10
	R4 – Radial Piston Pumps			
20	PR4-3X/1,60-700RA12M01	R901093640	3	10
20	PR4-3X/10,00-500RA01M01	R901089173	3	10
20	PR4-3X/10,00-500RA12M01	R901093641	3	10
20	PR4-3X/2,00-700RA12M01	R901089758	3	10
20	PR4-3X/2,50-700RA12M01	R901093639	3	10
20	PR4-3X/3,15-500RA12M01	R901093871	3	10
20	PR4-3X/3,15-700RA12M01	R901094072	3	10
20	PR4-3X/4,00-700RA12M01	R901093868	3	10
20	PR4-3X/5,00-500RA12M01	R901093643	3	10
20	PR4-3X/8,00-700RA12M01	R901093864	3	10
	R4 Mini – Radial Piston Pumps			
21	PR4-1X/0,40-700WA01M01	R900485830	3	10
21	PR4-1X/0,63-700WA01M01	R900345609	3	10
21	PR4-1X/1,00-450WA01M01	R900490630	3	10
	(A)A6VM – Variable Displacement Motors			
22	AA6VM107HD1/63W-VSD52000-B	R902092169	5	10
22	AA6VM107HD1/63W-VSD520B	R902206693	5	10
22	AA6VM160HA1/63L-VSD51X00A-S	R902207286	5	10
22	AA6VM160HD1/63W-VSD520B-E	R902092085	5	10
22	AA6VM160HD2/63W-VSD520B	R902216582	5	10
22	AA6VM80EZ3/63W-VSC520B-E *AL*	R902092121	5	10
22	AA6VM80HA1/63W-VSC510A	R902214627	5	10
22	AA6VM80HD1/63W-VSC520B-E	R902092070	5	10
	A6VE – Variable Plug-in Motor		5	
23	A6VE107HA3T/63W-VZL22200B	R902227659	5	10
	A10VM – Variable Displacement Motors			
24	A A10VM63HZ/52W1-VWC60N000	R902429540	5	10
24	A A10VM63HZ/52W2-VWC60N000	R902503914	5	10
24	A A10V M 45 HZ /52W2-VRC66N007	R902505324	5	10
24	A A10V M 45 HZ /52W1-VRC66N000	R902505318	5	10
24	A A10V M 45 HZ /52W2-VRC66N000	R902505319	5	10
24	A A10V M 45 HZ /52W1-VRC66N007	R902505323	5	10
24	A A10V M 45 HZ /52W1-VWC66N007	R902505325	5	10
24	A A10V M 45 HZ /52W2-VWC66N007	R902505326	5	10
24	A A10V M 45 HZ /52W2-VWC60N000	R902505322	5	10
24	A A10V M 45 HZ /52W1-VWC60N000	R902505321	5	10


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	(A)A2FM – Fixed Displacement Motors			
25	AA2FM107/61W-VSD510	R902137843	5	10
25	AA2FM107/61W-VSD510	R902137823	5	10
25	AA2FM125/61W-VSD510	R902138182	5	10
25	AA2FM125/61W-VSD520	R902137733	5	10
25	AA2FM125/61W-VSD520	R902138093	5	10
25	AA2FM16/61W-VSC530	R902197791	5	10
25	AA2FM160/61W-VSD520	R902193516	5	10
25	AA2FM180/61W-VSD510	R902193869	5	10
25	AA2FM180/61W-VSD520	R902193712	5	10
25	AA2FM28/61W-VSD520	R902198240	5	10
25	AA2FM28/61W-VSD530	R902193517	5	10
25	AA2FM28/61W-VSD540	R902197566	5	10
25	AA2FM32/61W-VBD540	R902193710	5	10
25	AA2FM32/61W-VSD520	R902202055	5	10
25	AA2FM32/61W-VSD540	R902198042	5	10
25	AA2FM45/61W-VPD510	R902193533	5	10
25	AA2FM45/61W-VSD510	R902193514	5	10
25	AA2FM45/61W-VSD520	R902196957	5	10
25	AA2FM56/61W-VBD510	R902160543	5	10
25	AA2FM63/61W-VSD510	R902161224	5	10
25	AA2FM63/61W-VSD510	R902160540	5	10
25	AA2FM63/61W-VSD520	R902160055	5	10
25	AA2FM80/61W-VSD510	R902137826	5	10
25	AA2FM80/61W-VUDN520	R902137579	5	10
	A10FM – Fixed Displacement Motors			
26	A A10F M 23 /52W-VCC66N000	R902505308	5	10
26	A A10F M 28 /52W-VCC66N000	R902505313	5	10
26	A A10F M 37 /52W-VWC60N000	R910993193	5	10
26	A A10F M 37 /52W-VWC66N000	R902500025	5	10
26	A A10F M 37 /52W-VRC60N000	R902505302	5	10
26	A A10F M 37 /52W-VRC66N000	R902505309	5	10
26	A A10F M 37 /52W-VRC60N000	R902534861	5	10
26	A A10F M 45 /52W-VRC60N000	R910995633	5	10
26	A A10F M 45 /52W-VRC66N000	R902406027	5	10
26	A A10F M 45 /52W-VWC60N000	R902505311	5	10
26	A A10F M 45 /52W-VWC66N000	R902505312	5	10
26	A A10F M 58 /52W-VWC60N000	R902505314	5	10
26	A A10F M 58 /52W-VCC60N000	R902505315	5	10
26	A A10F M 63 /52W-VWC60N000	R902505316	5	10
26	A A10F M 63 /52W-VCC60N000	R902505317	5	10
	AZMF – External Gear Motors			
27	AZMF-12-008-UQR12ML-S0022	9511290013	3	10
27	AZMF-12-011-UQR12ML-S0022	9511290014	3	10

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27	AZMF-12-014-UQR12ML-S0018	9511290027	3	10
27	AZMF-12-014-UQR12ML-S0022	9511290015	3	10
27	AZMF-12-016-UQR12ML	9511290010	3	10
27	AZMF-12-019-UQR12ML-S0018	9511290029	3	10
27	AZMF-12-019-UQR12ML-S0022	9511290017	3	10
27	AZMF-12-022-UQR12ML-S0022	9511290018	3	10
	MCR – Radial Piston Motors			
28	MCR3, 400 CC wheel Motors with Wheel Studs, unbraked, single speed	R921807175	2	10
28	MCR3, 365cc, spline shaft, unbraked, single speed	R921811056	2	10
28	MCR3, 400cc wheel Motors w/brake, single speed	R921807578	2	10
28	MCR5, 820cc, keyed shaft, unbraked, single speed	R921805100	2	10
28	MCR3 CAM 160CC	R921175244	4	10
28	MCR3 CAM 225 & 325CC	R921176358	4	10
28	MCR3 CAM 255 & 365CC	R921175242	4	10
28	MCR3 CAM 280 & 400CC	R921178863	4	10
28	MCR3 LD ROTATING GROUP S/A	R921856417	4	10
28	MCR3F400F180Z32AOM2WL12SP1S0536A	R921811510	4	10
28	MCR3F400F180Z32B2M2WL12SP1S0536A	R921811511	4	10
28	Speed Sensor S/A P0 (speed sensor ready)	R921856740	4	10
	MV015 – High Torque Vane Motors			
29	MV015-M015-61-1S-006-31-B1-QB-000	R986V00941	5	10
29	MV015-M015-61-1S-008-31-B1-QB-000	R986V00974	5	10
29	MV015-M015-61-1S-009-30-B1-QB-000	R986V00983	5	10
29	MV015-M015-61-1S-013-30-B1-QB-000	R986V00875	5	10
29	MV015-M015-61-1S-015-30-B1-QB-000	R986V00894	5	10
29	MV015-M015-61-1S-015-31-B1-QB-000	R986V00909	5	10
29	MV015-M015-61-1S-015-31-B1-TB-000	R986V00905	5	10
	MV037 – High Torque Vane Motors			
30	MV037-M037-A2-1S-020-30-B1-TBB-000	R986V00435	5	10
30	MV037-M037-A2-1S-020-31-B1-TBB-000	R986V00441	5	10
30	MV037-M037-A2-1S-026-30-B1-QBB-000	R986V00452	5	10
30	MV037-M037-A2-1S-026-30-B1-TBB-000	R986V00451	5	10
30	MV037-M037-A2-1S-026-31-B1-TBB-000	R986V00454	5	10
30	MV037-M037-A2-1S-032-31-B1-TBB-000	R986V00469	5	10
30	MV037-M037-D2-2S-020-30-T1-TVD-127	R986V00697	5	10
30	MV037-M037-D2-2S-020-30-T1-TVD-141	R986V00696	5	10
30	MV037-M037-D2-2S-020-31-B1-TVD-112	R986V00693	5	10
	Check Valves			
	S – Check Valves			
31	S 10 A1.0/	R900420531	5	10
31	S 10 A1.0//12	R900497659	5	10
31	S 15 A1.0/	R900420537	5	10


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31	S 15 A1.0//12	R900455137	5	10
31	S 20 A0.0//12	R900343034	5	10
31	S 20 A1.0//12	R900470782	5	10
31	S 20 A2.0//12	R900353560	5	10
31	S 25 A1.0//12	R900455138	5	10
31	S 30 A1.0/	R900420519	5	10
31	S 30 A1.0//12	R900492887	5	10
31	S 30 A2.0//12	R900342882	5	10
	M-SR – Cartridge Type Check Valves			
32	M-SR 8 KE05-1X/V	R900357718	5	10
32	M-SR 8 KE30-1X/	R900348329	5	10
32	M-SR 10 KE02-1X/	R900345745	5	10
32	M-SR 10 KE05-1X/	R900344549	5	10
32	M-SR 10 KE05-1X/V	R900348632	5	10
32	M-SR 15 KE02-1X/	R900348943	5	10
32	M-SR 15 KE05-1X/	R900345372	5	10
32	M-SR 20 KE02-1X/	R900345744	5	10
32	M-SR 20 KE05-1X/	R900340979	5	10
32	M-SR 20 KE05-1X/V	R900350795	5	10
32	M-SR 25 KE02-1X/	R900357739	5	10
32	M-SR 25 KE05-1X/	R900344778	5	10
32	M-SR 30 KE02-1X/	R900345743	5	10
32	M-SR 30 KE05-1X/	R900344919	5	10
32	M-SR 30 KE05-1X/V	R900350797	5	10
32	M-SR 30 KE50-1X/	R900349973	5	10
	ZSF – Filling Valves			
33	ZSF 40 F1-1-1X/M/12	R900539730	5	10
33	ZSF 50 F1-1-1X/M/12	R900539731	5	10
33	ZSF 80 F1-1-1X/M/12	R900539733	5	10
33	ZSF 125 F1-1-2X/M/01	R901089756	5	10
	SV & SL – Check Valves			
34	SL 10 PA1-4X/	R900483371	5	10
34	SL 10 PB1-4X/	R900443419	5	10
34	SL 20 PA1-4X/	R900587559	5	10
34	SL 30 PA1-4X/	R900587560	5	10
34	SL 30 PA1-4X/V	R900500095	5	10
34	SL 30 PA2-4X/	R900599473	5	10
34	SV 10 GA1-4X//12	R900481097	5	10
34	SV 10 PA1-4X/	R900483369	5	10
34	SV 10 PA1-4X/V	R900463364	5	10
34	SV 20 PA1-4X/	R900587557	5	10
34	SV 30 PA1-4X/	R900587558	5	10
	Z1S – Check Valves			
35	Z1S 6 C05-4X/V	R901086081	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
35	Z1S 6 P05-4X/V	R901086051	5	10
35	Z1S 6 T05-4X/V	R901086058	5	10
35	Z1S 10 B05-2-4X/F	R901274766	5	10
35	Z1S 10 P05-1-4X/F	R901274759	5	10
35	Z1S 10 TA05-2TB9-4X/F	R901274760	5	10
	Z2S – Piloted-to-Open Check Valves			
36	Z2S 6-1-6X/	R900347495	5	10
36	Z2S 6-1-6X/V	R900347504	5	10
36	Z2S 6-2-6X/	R900347496	5	10
36	Z2S 6-2-6X/V	R900347505	5	10
36	Z2S 6A1-6X/V	R900347507	5	10
36	Z2S 6B1-6X/	R900347501	5	10
36	Z2S 6B1-6X/V	R900347510	5	10
36	Z2S 10-1-3X/	R900407394	5	10
36	Z2S 10-1-3X/V	R900407439	5	10
36	Z2S 10A1-3X/	R900407424	5	10
36	Z2S 10A1-3X/V	R900407440	5	10
36	Z2S 10B1-3X/V	R900407465	5	10
36	Z2S 16-1-5X/	R900328797	5	10
36	Z2S 16-1-5X/V	R900412459	5	10
36	Z2S 22-1-5X/	R900432915	5	10
36	Z2S 22-1-5X/V	R900436495	5	10
	Z2SRK – Pilot Operated Check Valves			
37	Z2SRK 6-1-1X/V	R900564519	5	10
37	Z2SRK 10-1-1X/V	R900564520	5	10
	Directional Valves			
	SED & SEW – Directional Poppet Valves			
38	M-3SED 6 CK1X/350CG24N9K4	R900052392	5	10
38	M-3SED 6 CK1X/350CG96N9K4	R900218734	5	10
38	M-3SED 6 UK1X/350CG24K4	R900223676	5	10
38	M-3SED 6 UK1X/350CG24N9K4	R900052621	5	10
38	M-3SED 6 UK1X/350CG96N9K4	R900207848	5	10
38	M-3SED 10 CK1X/350CG24N9K4	R900086685	5	10
38	M-3SED 10 UK1X/350CG24N9K4	R900051053	5	10
38	M-3SEW 6 C3X/420MG24N9K4	R900566273	5	10
38	M-3SEW 6 C3X/420MG24N9K4/V	R900049834	5	10
38	M-3SEW 6 C3X/420MG96N9K4	R900570252	5	10
38	M-3SEW 6 C3X/420MG96N9K4/V	R900206773	5	10
38	M-3SEW 6 C3X/630MG24N9K4/V	R900204628	5	10
38	M-3SEW 6 C3X/630MG96N9K4	R900051045	5	10
38	M-3SEW 6 U3X/420MG24N9K4	R900566283	5	10
38	M-3SEW 6 U3X/420MG24N9K4/V	R900570174	5	10
38	M-3SEW 6 U3X/420MG96N9K4	R900570744	5	10

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38	M-3SEW 6 U3X/420MG96N9K4/V	R900056442	5	10
38	M-3SEW 6 U3X/420MG24N9K4=CSA	R900203992	5	10
38	M-3SEW 6 U3X/630MG96N9K4	R900205344	5	10
38	M-3SEW 10 C1X/420MG24N9K4	R900075565	5	10
38	M-3SEW 10 C1X/420MG96N9K4/V	R900051908	5	10
38	M-3SEW 10 C1X/630MG24N9K4/V	R900222370	5	10
38	M-3SEW 10 U1X/420MG24N9K4	R900075563	5	10
38	M-3SEW 10 U1X/420MG96N9K4/V	R900051907	5	10
38	M-3SEW 10 U1X/630MG24N9K4/V	R900218367	5	10
38	M-3SEW 10 U1X/630MG96N9K4	R900213062	5	10
	4WMM & 4WMR – Directional Spool Valves			
39	4WMM 6 D5X/	R900468328	5	10
39	4WMM 6 D5X/F	R900469301	5	10
39	4WMM 6 D5X/F/V	R900409450	5	10
39	4WMM 6 E5X/	R900467936	5	10
39	4WMM 6 E5X/F	R900405611	5	10
39	4WMM 6 G5X/	R900471209	5	10
39	4WMM 6 G5X/F	R900469533	5	10
39	4WMM 6 J5X/	R900469302	5	10
39	4WMM 6 J5X/F	R900466583	5	10
39	4WMM 10 E3X/	R900589983	5	10
39	4WMM 10 E3X/F	R900589975	5	10
39	4WMM 10 J3X/	R900586919	5	10
39	4WMM 10 J3X/F	R900589954	5	10
39	4WMM 10 D3X/F	R900587838	5	10
39	4WMR 6 D5X/	R900465984	5	10
	WP & WH – Directional Valves w/ Fluid Actuation			
40	4WH6D5X//5	R900955873	5	10
40	4WH16D7X/	R900923871	5	10
40	4WH22J7X/	R900409848	5	10
40	4WH22Y7X/	R900491846	5	10
40	4WP6D6X/5	R978917418	5	10
40	4WP6D6X/N/5	R978918927	5	10
40	4WP6E6X/5	R978917419	5	10
40	4WP6E6X/N/5	R978919013	5	10
40	4WP6J6X/5	R978917421	5	10
40	4WP6J6X/N/5	R978919116	5	10
40	4WP10D3X//12	R900710167	5	10
40	4WP10G3X/12	R978870124	5	10
40	4WP10H3X//12	R900931178	5	10
	WE – Directional Spool Valves			
41	3WE10A3X/CG24N9K4	R900592014	5	10
41	3WE6A6X/EG24N9K4	R900561180	5	10
41	3WE6A6X/EW110N9K4/62	R978017790	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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41	3WE6A6X/EG24N9K4/62	R978017740	5	10
41	3WE6A6X/EG24N9K4/62=CSA	R978017865	5	10
41	3WE6A6X/EG24N9K4/V/62=CSA	R978021044	5	10
41	3WE6A6X/EW110N9K4/62=CSA	R978017859	5	10
41	3WE6A9-6X/EG24N9K4/62 CSA	R978917519	5	10
41	3WE6B6X/EG24N9K4/V/62 CSA	R978916768	5	10
41	3WE6B9-6X/EG24N9K4/62 CSA	R978906497	5	10
41	3WE6B9-6X/EW110N9K4/62=CSA	R978022500	5	10
41	4WE10C3X/CG12N9K4	R900938674	5	10
41	4WE10C3X/CG24N9K4	R900593277	5	10
41	4WE10C3X/CW110N9K4	R900906473	5	10
41	4WE10C3X/OFCG24N9K4	R900500925	5	10
41	4WE10C4X/CG12N9DA	R978910297	5	10
41	4WE10C4X/CG24N9DA	R978908877	5	10
41	4WE10C4X/CW110N9DA	R978908696	5	10
41	4WE10C4X/OFCG12N9DA	R978911140	5	10
41	4WE10D3X/CG12N9K4	R900922999	5	10
41	4WE10D3X/CG24N9K4	R900589933	5	10
41	4WE10D3X/CG24N9K4/V	R900593676	5	10
41	4WE10D3X/CG24N9K4=CSA	R900958087	5	10
41	4WE10D3X/CW110N9K4	R900598925	5	10
41	4WE10D3X/CW110N9K4=CSA	R900942175	5	10
41	4WE10D3X/OFCG12N9K4	R978911960	5	10
41	4WE10D3X/OFCG24N9K4	R900591664	5	10
41	4WE10D3X/OFCW110N9K4	R900594948	5	10
41	4WE10D3XCG24N9K72LAN	R901257363	5	10
41	4WE10D3XOFCG24N9K72LAN	R901257364	5	10
41	4WE10D4X/CG12N9DA	R978908826	5	10
41	4WE10D4X/CG24N9DA	R978908490	5	10
41	4WE10D4X/CG24N9DAL	R978908419	5	10
41	4WE10D4X/CW110N9DA	R978908566	5	10
41	4WE10D4X/CW110N9DAL	R900713654	5	10
41	4WE10D4X/CW110N9DAL=CSA	R900617543	5	10
41	4WE10D4X/OFCW110N9DA	R978910127	5	10
41	4WE10D4X/OFCW110N9DAL	R978908591	5	10
41	4WE10D4X/OFCW110N9DK25L	R978909383	5	10
41	4WE10D5X/EG24N9K4/M	R901278760	3	10
41	4WE10D5X/EG24N9K4/V	R901278783	3	10
41	4WE10D5X/OFEG24N9K4/M	R901278763	3	10
41	4WE10E3X/CG12N9K4	R900945576	5	10
41	4WE10E3X/CG24N9K4	R900588201	5	10
41	4WE10E3X/CG24N9K4=CSA	R900934305	5	10
41	4WE10E3X/CW110N9K4	R900597186	5	10
41	4WE10E3X/CW110N9K4=CSA	R900934306	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE10E4X/CG12N9DA	R978907461	5	10
41	4WE10E4X/CG24N9DA	R978908742	5	10
41	4WE10E4X/CG24N9DAL	R978909385	5	10
41	4WE10E4X/CW110N9DA	R978908567	5	10
41	4WE10E4X/CW110N9DA/V	R978909419	5	10
41	4WE10E4X/CW110N9DAL	R900979378	5	10
41	4WE10E4X/CW110N9DAL=CSA	R900700430	5	10
41	4WE10E4X/CW110N9DK25L	R900974964	5	10
41	4WE10E5X/EG24N9K4/M	R901278761	3	10
41	4WE10EA3X/CG24N9K4	R900595532	5	10
41	4WE10E4X/CW110N9DAL=CSA	R900700430	5	10
41	4WE10EA4X/CW110N9DA	R978910021	5	10
41	4WE10EA4X/CW110N9DAL	R978908810	5	10
41	4WE10EB3X/CG24N9K4	R900595533	5	10
41	4WE10EB4X/CW110N9DA	R978910173	5	10
41	4WE10G3X/CG12N9K4	R900503405	5	10
41	4WE10G3X/CG12N9K4 CSA	R978906366	5	10
41	4WE10G3X/CG24N9K4	R900594277	5	10
41	4WE10G3X/CW110N9K4	R900536428	5	10
41	4WE10G4X/CG12N9DA	R978908592	5	10
41	4WE10G4X/CG24N9DAL	R978909405	5	10
41	4WE10G4X/CW110N9DA	R978908695	5	10
41	4WE10G4X/CW110N9DAL	R978908815	5	10
41	4WE10G5X/EG24N9K4/M	R901278768	3	10
41	4WE10GA4X/CW110N9DA	R978910549	5	10
41	4WE10GA4X/CW110N9DAL	R978912744	5	10
41	4WE10H3X/CG24N9K4	R900597986	5	10
41	4WE10H3X/CW110N9K4	R900517315	5	10
41	4WE10H4X/CW110N9DA	R978908593	5	10
41	4WE10H4X/CW110N9DAL	R978909071	5	10
41	4WE10HA3X/CG24N9K4	R900598662	5	10
41	4WE10HA4X/CG12N9DAL	R978007214	5	10
41	4WE10J3X/CG12N9K4	R900930080	5	10
41	4WE10J3X/CG24N9K4	R900589988	5	10
41	4WE10J3X/CG24N9K4/V	R900593677	5	10
41	4WE10J3X/CG24N9K4=CSA	R900957006	5	10
41	4WE10J3X/CW110N9K4	R900592338	5	10
41	4WE10J3X/CW110N9K4=CSA	R900940565	5	10
41	4WE10J3XCG24N9K72LAN	R901253777	5	10
41	4WE10J4X/CG12N9DA	R978910621	5	10
41	4WE10J4X/CG24N9DA	R978909072	5	10
41	4WE10J4X/CG24N9DAL	R900732331	5	10
41	4WE10J4X/CG24N9DK25L	R900977484	5	10
41	4WE10J4X/CW110N9DA	R978908568	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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41	4WE10J4X/CW110N9DA/V	R978908908	5	10
41	4WE10J4X/CW110N9DAL	R900708880	5	10
41	4WE10J4X/CW110N9DAL=CSA	R900619145	5	10
41	4WE10J4X/CW110N9DK25L	R900963610	5	10
41	4WE10J5X/EG24N9K4/M	R901278744	3	10
41	4WE10J5X/EG24N9K4/MH	R901325488	3	10
41	4WE10J5X/EG24N9K4/M	R901278744	3	10
41	4WE10J5X/EG24N9K4/MH	R901325488	3	10
41	4WE10JA4X/CW110N9DAL	R978913850	5	10
41	4WE10JB3X/CG24N9K4	R900522760	5	10
41	4WE10JB4X/CW110N9DA	R978914148	5	10
41	4WE10JB4X/CW110N9DAL	R978909781	5	10
41	4WE10M4X/CW110N9DA	R978908808	5	10
41	4WE10M4X/CW110N9DAL	R900961858	5	10
41	4WE10R5X/EG24N9K4/M	R901278784	3	10
41	4WE10RB5X/EG24N9K4/M	R901349519	3	10
41	4WE10Y4X/CW110N9DA	R978908880	5	10
41	4WE10Y4X/CW110N9DAL	R978909074	5	10
41	4WE6 E73-6X/EG24N9K4/A12/62	R978017760	5	10
41	4WE6C6X/EG12N9DA/62	R978878225	5	10
41	4WE6C6X/EG12N9K4	R900903685	5	10
41	4WE6C6X/EG12N9K4/62 CSA	R978913831	5	10
41	4WE6C6X/EG24N9DA/62	R978878229	5	10
41	4WE6C6X/EG24N9DAL/62	R978017853	5	10
41	4WE6C6X/EG24N9K4	R900561272	5	10
41	4WE6C6X/EG24N9K4/62	R978017744	5	10
41	4WE6C6X/EG24N9K4/62=CSA	R978017849	5	10
41	4WE6C6X/EG24N9K4/A12	R900567535	5	10
41	4WE6C6X/EG24N9K4/V	R900905548	5	10
41	4WE6C6X/EG96N9K4/62	R978017829	5	10
41	4WE6C6X/EW110N9DA/62	R978874587	5	10
41	4WE6C6X/EW110N9DA/V/62	R978890314	5	10
41	4WE6C6X/EW110N9DAL/62	R978874588	5	10
41	4WE6C6X/EW110N9DAL/V	R900900065	5	10
41	4WE6C6X/EW110N9K4	R900901748	5	10
41	4WE6C6X/EW110N9K4/62	R978017780	5	10
41	4WE6C6X/EW110N9K4/62=CSA	R978017774	5	10
41	4WE6C6X/EW110N9K4/V	R900919729	5	10
41	4WE6C6X/OFEG12N9DA/62	R978890367	5	10
41	4WE6C6X/OFEG12N9K4/62	R978915962	5	10
41	4WE6C6X/OFEG24N9DAL/62	R978017773	5	10
41	4WE6C6X/OFEG24N9K4	R900564107	5	10
41	4WE6C6X/OFEG24N9K4/62	R978017758	5	10
41	4WE6C6X/OFEW110N9DA/62	R978875037	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6C6X/OFEW110N9DAL/62	R978875038	5	10
41	4WE6C6X/OFEW110N9K4	R900909140	5	10
41	4WE6C6X/OFEW110N9K4/62	R978017798	5	10
41	4WE6C6X/OFEW110N9K4/62 CSA	R978898363	5	10
41	4WE6D466X/OFEG24N9K72L-SO407=AN	R901275214	5	10
41	4WE6D6-6X/EG24N9K4	R900918382	5	10
41	4WE6D6X/EG12N9DA/62	R978878237	5	10
41	4WE6D6X/EG12N9DA/V/62	R978895300	5	10
41	4WE6D6X/EG12N9K4	R900913281	5	10
41	4WE6D6X/EG12N9K4/62	R978017812	5	10
41	4WE6D6X/EG12N9K4/62 CSA	R978905132	5	10
41	4WE6D6X/EG12N9K4/V	R900783170	5	10
41	4WE6D6X/EG12N9K4/V/62 CSA	R978917435	5	10
41	4WE6D6X/EG24N9DA/62	R978878241	5	10
41	4WE6D6X/EG24N9DAL	R900550589	5	10
41	4WE6D6X/EG24N9DAL/62	R978017732	5	10
41	4WE6D6X/EG24N9DAL/62=CSA	R978017862	5	10
41	4WE6D6X/EG24N9DK24L2/62	R978896201	5	10
41	4WE6D6X/EG24N9K4	R900561274	5	10
41	4WE6D6X/EG24N9K4/62	R978017922	5	10
41	4WE6D6X/EG24N9K4/62=CSA	R901105197	5	10
41	4WE6D6X/EG24N9K4/A12	R900929558	5	10
41	4WE6D6X/EG24N9K4/B10	R900915069	5	10
41	4WE6D6X/EG24N9K4/B10/62	R901262824	5	10
41	4WE6D6X/EG24N9K4/V	R900564105	5	10
41	4WE6D6X/EG24N9K4/V/62 CSA	R978908705	5	10
41	4WE6D6X/EG24N9K4=CSA	R900931341	5	10
41	4WE6D6X/EG24N9K72L SO407=AN	R901275215	5	10
41	4WE6D6X/EG24N9K72L=AN	R901235361	5	10
41	4WE6D6X/EG96N9K4	R900904957	5	10
41	4WE6D6X/EG96N9K4/62	R978017787	5	10
41	4WE6D6X/EG96N9K4/V/62=CSA	R978025630	5	10
41	4WE6D6X/EW110N9DA	R978020087	5	10
41	4WE6D6X/EW110N9DA/62	R978874053	5	10
41	4WE6D6X/EW110N9DA/V	R978032133	5	10
41	4WE6D6X/EW110N9DA/V/62	R978875901	5	10
41	4WE6D6X/EW110N9DAL	R900559677	5	10
41	4WE6D6X/EW110N9DAL/62	R978017739	5	10
41	4WE6D6X/EW110N9DAL/62=CSA	R978017775	5	10
41	4WE6D6X/EW110N9DAL/B10	R900710108	5	10
41	4WE6D6X/EW110N9DAL/B10/62	R978030511	5	10
41	4WE6D6X/EW110N9DAL/V	R900578560	5	10
41	4WE6D6X/EW110N9DAL/V/62	R978021153	5	10
41	4WE6D6X/EW110N9K4	R900551704	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6D6X/EW110N9K4/62	R978017734	5	10
41	4WE6D6X/EW110N9K4/62=CSA	R978017841	5	10
41	4WE6D6X/EW110N9K4/B10	R900906820	5	10
41	4WE6D6X/EW110N9K4/B10V	R900964575	5	10
41	4WE6D6X/EW110N9K4/B12	R900925868	5	10
41	4WE6D6X/EW110N9K4/V	R900911653	5	10
41	4WE6D6X/EW110N9K4/V/62	R978023806	5	10
41	4WE6D6X/EW110N9K4/V/62=CSA	R978019688	5	10
41	4WE6D6X/EW110N9K4/V=CSA	R900962492	5	10
41	4WE6D6X/OEG24N9K4/62	R978017766	5	10
41	4WE6D6X/OEW110N9DA/62	R978874049	5	10
41	4WE6D6X/OEW110N9K4/62	R978017838	5	10
41	4WE6D6X/OFEG12N9DA/62	R978890292	5	10
41	4WE6D6X/OFEG12N9K4	R900924018	5	10
41	4WE6D6X/OFEG12N9K4/62	R978017819	5	10
41	4WE6D6X/OFEG12N9K4/62 CSA	R978908958	5	10
41	4WE6D6X/OFEG12N9K4/B10	R978032032	5	10
41	4WE6D6X/OFEG12N9K4/B10/62	R978911678	5	10
41	4WE6D6X/OFEG12N9K4/V/62	R978916765	5	10
41	4WE6D6X/OFEG24N9DA/62	R978892546	5	10
41	4WE6D6X/OFEG24N9DA/V/62	R978892867	5	10
41	4WE6D6X/OFEG24N9DAL/62	R978017871	5	10
41	4WE6D6X/OFEG24N9DK24L2/62	R978896205	5	10
41	4WE6D6X/OFEG24N9K4	R900567512	5	10
41	4WE6D6X/OFEG24N9K4/62	R978017763	5	10
41	4WE6D6X/OFEG24N9K4/62=CSA	R978017826	5	10
41	4WE6D6X/OFEG24N9K4/B08V	R901147438	5	10
41	4WE6D6X/OFEG24N9K4/B10	R900568899	5	10
41	4WE6D6X/OFEG24N9K4/V	R900903465	5	10
41	4WE6D6X/OFEG24N9K72L=AN	R901235363	5	10
41	4WE6D6X/OFEG96N9K4	R900904958	5	10
41	4WE6D6X/OFEW110N9DA/62	R978873230	5	10
41	4WE6D6X/OFEW110N9DA/V/62	R978875810	5	10
41	4WE6D6X/OFEW110N9DAL	R900912994	5	10
41	4WE6D6X/OFEW110N9DAL/62	R978017810	5	10
41	4WE6D6X/OFEW110N9DAL/B10V	R901183229	5	10
41	4WE6D6X/OFEW110N9DAL/V	R900959714	5	10
41	4WE6D6X/OFEW110N9K4	R900552321	5	10
41	4WE6D6X/OFEW110N9K4/62	R978017735	5	10
41	4WE6D6X/OFEW110N9K4/62=CSA	R978017845	5	10
41	4WE6D6X/OFEW110N9K4/B08	R900925207	5	10
41	4WE6D6X/OFEW110N9K4/B10	R900949737	5	10
41	4WE6D6X/OFEW110N9K4/V	R900921614	5	10
41	4WE6D6X/OFEW110N9K4/V/62 CSA	R978907764	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6E6X/EG110N9K4/V	R900758399	5	10
41	4WE6E6X/EG12N9DA/62	R978878249	5	10
41	4WE6E6X/EG12N9DAL/62	R978878250	5	10
41	4WE6E6X/EG12N9K4	R900903906	5	10
41	4WE6E6X/EG12N9K4/62	R978017783	5	10
41	4WE6E6X/EG12N9K4/62 CSA	R978905130	5	10
41	4WE6E6X/EG12N9K4/A12/62	R978001259	5	10
41	4WE6E6X/EG12N9K4/V	R900774335	5	10
41	4WE6E6X/EG12N9K4/V/62 CSA	R978911234	5	10
41	4WE6E6X/EG12NK4	R900921107	5	10
41	4WE6E6X/EG12NK4/62	R901204482	5	10
41	4WE6E6X/EG24N9DA/62	R978878253	5	10
41	4WE6E6X/EG24N9DA/V/62	R978890211	5	10
41	4WE6E6X/EG24N9DAL	R900979840	5	10
41	4WE6E6X/EG24N9DAL/62	R978017870	5	10
41	4WE6E6X/EG24N9DAL/62=CSA	R978018869	5	10
41	4WE6E6X/EG24N9DAL/V	R900933968	5	10
41	4WE6E6X/EG24N9K4	R900561278	5	10
41	4WE6E6X/EG24N9K4/62	R978017750	5	10
41	4WE6E6X/EG24N9K4/62=CSA	R901105198	5	10
41	4WE6E6X/EG24N9K4/B10V	R900957917	5	10
41	4WE6E6X/EG24N9K4/B12	R900931613	5	10
41	4WE6E6X/EG24N9K4/V	R900903464	5	10
41	4WE6E6X/EG24N9K4/V/62	R978021268	5	10
41	4WE6E6X/EG24N9K4/V/62 CSA	R978916601	5	10
41	4WE6E6X/EG96N9K4	R900904959	5	10
41	4WE6E6X/EG96N9K4/62	R978017789	5	10
41	4WE6E6X/EW110N9DA/62	R978875049	5	10
41	4WE6E6X/EW110N9DA/V/62	R978877942	5	10
41	4WE6E6X/EW110N9DAL	R901001943	5	10
41	4WE6E6X/EW110N9DAL/62	R978873115	5	10
41	4WE6E6X/EW110N9DAL/62=CSA	R978017851	5	10
41	4WE6E6X/EW110N9DAL/V	R901067547	5	10
41	4WE6E6X/EW110N9DAL/V/62	R978875745	5	10
41	4WE6E6X/EW110N9K4	R900558641	5	10
41	4WE6E6X/EW110N9K4/62	R978017737	5	10
41	4WE6E6X/EW110N9K4/62=CSA	R978017842	5	10
41	4WE6E6X/EW110N9K4/B12/62	R978912723	5	10
41	4WE6E6X/EW110N9K4/V	R900931049	5	10
41	4WE6E6X/EW110N9K4/V/62	R978025719	5	10
41	4WE6E6X/EW110N9K4/V/62=CSA	R978019230	5	10
41	4WE6E6X/EW110N9K4=CSA	R900940567	5	10
41	4WE6E6X/EW110NK4/V/62 CSA	R978010949	5	10
41	4WE6E73-6X/EG12NK4/A12	R978026086	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6E73-6X/EG24N9K4/A12/62	R978017760	5	10
41	4WE6EA6X/EG12N9K4	R900928531	5	10
41	4WE6EA6X/EG12N9K4/62	R978024420	5	10
41	4WE6EA6X/EG24N9DAL	R900964681	5	10
41	4WE6EA6X/EG24N9K4	R900561280	5	10
41	4WE6EA6X/EG24N9K4/62	R978017752	5	10
41	4WE6EA6X/EG96N9K4/62=CSA	R978034580	5	10
41	4WE6EA6X/EW110N9DA/V/62	R978891959	5	10
41	4WE6EA6X/EW110N9DAL/62	R978875042	5	10
41	4WE6EA6X/EW110N9DAL/V/62	R978879878	5	10
41	4WE6EA6X/EW110N9K4	R900906670	5	10
41	4WE6EA6X/EW110N9K4/62	R978017796	5	10
41	4WE6EA6X/EW110N9K4/62=CSA	R978019231	5	10
41	4WE6EA6X/OFEW110N9DA	R978032138	5	10
41	4WE6EB6X/EG12N9K4	R900921992	5	10
41	4WE6EB6X/EG12N9K4/62 CSA	R978914474	5	10
41	4WE6EB6X/EG24N9K4	R900561281	5	10
41	4WE6EB6X/EG24N9K4/62	R978024421	5	10
41	4WE6EB6X/EW110N9DA/62	R978875045	5	10
41	4WE6EB6X/EW110N9K4	R900906671	5	10
41	4WE6EB6X/EW110N9K4/62	R978024422	5	10
41	4WE6EB6X/EW110N9K4/V/62	R978912396	5	10
41	4WE6EB6X/OFEW110N9K4	R901242185	5	10
41	4WE6F6X/EG24N9K4	R900933648	5	10
41	4WE6F6X/EG24N9K4/62	R978030173	5	10
41	4WE6F6X/EG24N9K4/V/62=CSA	R901318705	5	10
41	4WE6F6X/EW110N9DA/62	R978891103	5	10
41	4WE6F6X/EW110N9K4	R900908714	5	10
41	4WE6F6X/EW110N9K4/62=CSA	R901327984	5	10
41	4WE6G6X/EG12N9DA/62	R978878257	5	10
41	4WE6G6X/EG12N9DAL/62	R978017779	5	10
41	4WE6G6X/EG12N9K4	R900567497	5	10
41	4WE6G6X/EG12N9K4/62	R978017762	5	10
41	4WE6G6X/EG12N9K4/62 CSA	R978908129	5	10
41	4WE6G6X/EG12N9K4/A12/62	R978916692	5	10
41	4WE6G6X/EG24N9DA/62	R978878261	5	10
41	4WE6G6X/EG24N9K4	R900561282	5	10
41	4WE6G6X/EG24N9K4/62	R901224429	5	10
41	4WE6G6X/EG24N9K4/62 CSA	R978906689	5	10
41	4WE6G6X/EG24N9K4/62=CSA	R901105199	5	10
41	4WE6G6X/EG24N9K4/V	R900552009	5	10
41	4WE6G6X/EW110N9DA/62	R978872815	5	10
41	4WE6G6X/EW110N9DA/V/62	R978877999	5	10
41	4WE6G6X/EW110N9DAL/62	R978875060	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6G6X/EW110N9DAL/V/62	R978894256	5	10
41	4WE6G6X/EW110N9K4	R900558642	5	10
41	4WE6G6X/EW110N9K4/62	R978017738	5	10
41	4WE6G6X/EW110N9K4/62=CSA	R978017852	5	10
41	4WE6G6X/EW110N9K4/V/62	R978912932	5	10
41	4WE6GA6X/EG125N9K4/62 CSA	R978908959	5	10
41	4WE6GA6X/EG12N9DA/62	R978894725	5	10
41	4WE6GA6X/EG12N9DA/V/62	R978900420	5	10
41	4WE6GA6X/EG12N9K4	R900923844	5	10
41	4WE6GA6X/EG24N9DA/62	R978909420	5	10
41	4WE6GA6X/EG24N9DAL/62	R978903747	5	10
41	4WE6GA6X/EG24N9K4	R900561284	5	10
41	4WE6GA6X/EG24N9K4/62	R978024424	5	10
41	4WE6GA6X/EG24N9K4/V	R900939610	5	10
41	4WE6GA6X/EG24N9K4/V/62	R901298103	5	10
41	4WE6GA6X/EG24N9K4/V/62 CSA	R978009134	5	10
41	4WE6GA6X/EW110N9DA/62	R978875052	5	10
41	4WE6GA6X/EW110N9DAL/62	R978875053	5	10
41	4WE6GA6X/EW110N9K4	R900909139	5	10
41	4WE6GA6X/EW110N9K4/62	R978018469	5	10
41	4WE6GA6X/EW110N9K4/62 CSA	R978908357	5	10
41	4WE6GB6X/EG24N9K4/62 CSA	R978914690	5	10
41	4WE6GB6X/EG24N9K4/V	R900929635	5	10
41	4WE6GB6X/EW110N9K4	R900906930	5	10
41	4WE6GB6X/EW110N9K4/62 CSA	R978911236	5	10
41	4WE6H6X/EG12N9DA/62	R978878265	5	10
41	4WE6H6X/EG12N9DA/V/62	R978890853	5	10
41	4WE6H6X/EG12N9DAL/62	R978878266	5	10
41	4WE6H6X/EG12N9K4	R900903900	5	10
41	4WE6H6X/EG12N9K4/62	R978017782	5	10
41	4WE6H6X/EG12N9K4/62 CSA	R978907962	5	10
41	4WE6H6X/EG24N9DA/V/62	R978899193	5	10
41	4WE6H6X/EG24N9DAL	R900910276	5	10
41	4WE6H6X/EG24N9K4	R900561286	5	10
41	4WE6H6X/EG24N9K4/62	R978017754	5	10
41	4WE6H6X/EG24N9K4/62=CSA	R978017828	5	10
41	4WE6H6X/EG24N9K4/V	R900929366	5	10
41	4WE6H6X/EW110N9DA/62	R978875071	5	10
41	4WE6H6X/EW110N9DA/V/62	R978890842	5	10
41	4WE6H6X/EW110N9DAL/62	R978875072	5	10
41	4WE6H6X/EW110N9K4	R900906672	5	10
41	4WE6H6X/EW110N9K4/62	R978017797	5	10
41	4WE6H6X/EW110N9K4/62 CSA	R978905734	5	10
41	4WE6H6X/EW110N9K4/V	R900704185	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6HA6X/EG12N9K4	R900903992	5	10
41	4WE6HA6X/EG12N9K4/62 CSA	R978912645	5	10
41	4WE6HA6X/EG24N9K4	R900549534	5	10
41	4WE6HA6X/EG24N9K4/62	R978022019	5	10
41	4WE6HA6X/EG24N9K4/62=CSA	R978024230	5	10
41	4WE6HA6X/EG24N9K4/B10/62	R978918850	5	10
41	4WE6HA6X/EG24N9K4/V	R900554556	5	10
41	4WE6HA6X/EW110N9DA/62	R978875063	5	10
41	4WE6HA6X/EW110N9DAL/V/62	R978893575	5	10
41	4WE6HA6X/EW110N9K4	R900906460	5	10
41	4WE6HA6X/EW110N9K4/B10	R978031520	5	10
41	4WE6HA6X/EW110N9K4=CSA	R900916446	5	10
41	4WE6HB6X/EG24K4	R900947683	5	10
41	4WE6HB6X/EG24N9DA/62	R978893179	5	10
41	4WE6HB6X/EG24N9K4	R900553670	5	10
41	4WE6HB6X/EG24N9K4/A12/62	R978911060	5	10
41	4WE6HB6X/EG24N9K4/V	R900729410	5	10
41	4WE6HB6X/EW110N9K4	R900909144	5	10
41	4WE6J6X/EG110N9DA/62	R978892973	5	10
41	4WE6J6X/EG12N9DA	R978020086	5	10
41	4WE6J6X/EG12N9DA/62	R978878274	5	10
41	4WE6J6X/EG12N9DAL/62	R978878275	5	10
41	4WE6J6X/EG12N9K4	R900567496	5	10
41	4WE6J6X/EG12N9K4/62	R978017761	5	10
41	4WE6J6X/EG12N9K4/62 CSA	R978905419	5	10
41	4WE6J6X/EG12N9K4/B10	R900935677	5	10
41	4WE6J6X/EG12N9K4/B12/62/V	R978031709	5	10
41	4WE6J6X/EG12N9K4K/62	R901246196	5	10
41	4WE6J6X/EG12NK4/62	R901204483	5	10
41	4WE6J6X/EG24N9DA	R978020085	5	10
41	4WE6J6X/EG24N9DA/62	R978878278	5	10
41	4WE6J6X/EG24N9DAL	R900920381	5	10
41	4WE6J6X/EG24N9DAL/62	R978017815	5	10
41	4WE6J6X/EG24N9DAL/62=CSA	R978017863	5	10
41	4WE6J6X/EG24N9DAL/B10	R900979944	5	10
41	4WE6J6X/EG24N9DAL/N12/62	R978896729	5	10
41	4WE6J6X/EG24N9DK24L2/62	R978896206	5	10
41	4WE6J6X/EG24N9DK25L/62	R978017767	5	10
41	4WE6J6X/EG24N9K4	R900561288	5	10
41	4WE6J6X/EG24N9K4/62	R978017756	5	10
41	4WE6J6X/EG24N9K4/62=CSA	R901105200	5	10
41	4WE6J6X/EG24N9K4/A12	R900567271	5	10
41	4WE6J6X/EG24N9K4/B10	R900548271	5	10
41	4WE6J6X/EG24N9K4/B10=CSA	R900957815	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6J6X/EG24N9K4/V	R900548772	5	10
41	4WE6J6X/EG24N9K4/V/62	R978024425	5	10
41	4WE6J6X/EG24N9K72L-SO407=AN	R901261658	5	10
41	4WE6J6X/EG24N9K72L=AN	R901235359	5	10
41	4WE6J6X/EG96N4K4=CSA	R901028055	5	10
41	4WE6J6X/EG96N9K4	R900909593	5	10
41	4WE6J6X/EG96N9K4/62	R978017802	5	10
41	4WE6J6X/EG96N9K4/V	R900949273	5	10
41	4WE6J6X/EW110N9DA	R978019413	5	10
41	4WE6J6X/EW110N9DA/62	R978874065	5	10
41	4WE6J6X/EW110N9DA/V	R978018772	5	10
41	4WE6J6X/EW110N9DA/V/62	R978875805	5	10
41	4WE6J6X/EW110N9DAL	R900553481	5	10
41	4WE6J6X/EW110N9DAL/62	R978017736	5	10
41	4WE6J6X/EW110N9DAL/62=CSA	R978017820	5	10
41	4WE6J6X/EW110N9DAL/B10	R900902946	5	10
41	4WE6J6X/EW110N9DAL/N12V/62	R978878845	5	10
41	4WE6J6X/EW110N9DAL/V	R900578218	5	10
41	4WE6J6X/EW110N9DAL/V/62	R978021922	5	10
41	4WE6J6X/EW110N9DK25L/62	R978017785	5	10
41	4WE6J6X/EW110N9K4	R900551703	5	10
41	4WE6J6X/EW110N9K4/62	R978017733	5	10
41	4WE6J6X/EW110N9K4/62=CSA	R978017813	5	10
41	4WE6J6X/EW110N9K4/B08	R900908786	5	10
41	4WE6J6X/EW110N9K4/B10	R900912188	5	10
41	4WE6J6X/EW110N9K4/B10/62	R978021624	5	10
41	4WE6J6X/EW110N9K4/B10=CSA	R900956829	5	10
41	4WE6J6X/EW110N9K4/B10N10/62	R978908790	5	10
41	4WE6J6X/EW110N9K4/B10V	R900946083	5	10
41	4WE6J6X/EW110N9K4/N12/62	R978910843	5	10
41	4WE6J6X/EW110N9K4/V	R900910785	5	10
41	4WE6J6X/EW110N9K4/V/62	R978024426	5	10
41	4WE6J6X/EW110N9K4/V=CSA	R900962493	5	10
41	4WE6J6X/EW110N9K4=CSA	R900916703	5	10
41	4WE6JA6X/EG12N9K4	R900923495	5	10
41	4WE6JA6X/EG12N9K4/A12/62	R978910767	5	10
41	4WE6JA6X/EG24N9K4	R900561290	5	10
41	4WE6JA6X/EG24N9K4/62	R978017757	5	10
41	4WE6JA6X/EG24N9K4/V	R900554557	5	10
41	4WE6JA6X/EG24N9K4=CSA	R900957299	5	10
41	4WE6JA6X/EW110N9DA/62	R978874057	5	10
41	4WE6JA6X/EW110N9DAL/62	R978874058	5	10
41	4WE6JA6X/EW110N9DAL/V	R900964300	5	10
41	4WE6JA6X/EW110N9K4	R900905452	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6JA6X/EW110N9K4/62	R978024428	5	10
41	4WE6JA6X/EW110N9K4/B10V	R901111218	5	10
41	4WE6JA6X/EW110N9K4/V	R900918061	5	10
41	4WE6JB6X/EG24N9DA/62	R978892258	5	10
41	4WE6JB6X/EG24N9K4	R900561291	5	10
41	4WE6JB6X/EG24N9K4/62	R978024429	5	10
41	4WE6JB6X/EG24N9K4/V	R900932917	5	10
41	4WE6JB6X/EW110N9DA/62	R978874061	5	10
41	4WE6JB6X/EW110N9DAL	R978018512	5	10
41	4WE6JB6X/EW110N9K4	R900906202	5	10
41	4WE6JB6X/EW110N9K4/62	R978024431	5	10
41	4WE6L6X/EG24N9DAL/62	R978898130	5	10
41	4WE6L6X/EG24N9K4	R900901751	5	10
41	4WE6L6X/EG24N9K4/62	R978024432	5	10
41	4WE6L6X/EW110N9DAL/62	R978891157	5	10
41	4WE6L6X/EW110N9K4	R900906462	5	10
41	4WE6LA6X/EG12N9K4/A12/62	R978933518	5	10
41	4WE6LA6X/EW110N9K4	R900919093	5	10
41	4WE6LB6X/EG24N9K4=AN	R900763384	5	10
41	4WE6M6X/EG24N9DAL	R900765945	5	10
41	4WE6M6X/EG24N9K4	R900577475	5	10
41	4WE6M6X/EG24N9K4/62	R978017771	5	10
41	4WE6M6X/EG24N9K4/62 CSA	R978909824	5	10
41	4WE6M6X/EW110N9DA/62	R978878850	5	10
41	4WE6M6X/EW110N9DAL/62	R978879585	5	10
41	4WE6M6X/EW110N9K4	R900904559	5	10
41	4WE6M6X/EW110N9K4/62=CSA	R978017843	5	10
41	4WE6M6X/EW110N9K4/V	R900923360	5	10
41	4WE6M6X/EW110N9K4/V/62=CSA	R901328365	5	10
41	4WE6M6X/EW110N9K4=CSA	R900940568	5	10
41	4WE6MA6X/EG24N9K4	R900546939	5	10
41	4WE6MA6X/EG24N9K4/62	R978025541	5	10
41	4WE6MA6X/EW110N9DAL/V/62	R978909633	5	10
41	4WE6MA6X/EW110N9K4	R900959972	5	10
41	4WE6MB6X/EG24N9K4	R900577367	5	10
41	4WE6U6X/EG24N9K4/V/62=CSA	R978035381	5	10
41	4WE6W6X/EG12N9K4/62	R978898240	5	10
41	4WE6W6X/EG24N9K4	R900568233	5	10
41	4WE6W6X/EG24N9K4/62	R978017764	5	10
41	4WE6W6X/EG24N9K4/62=CSA	R978017868	5	10
41	4WE6W6X/EW110N9DAL/62	R978892081	5	10
41	4WE6Y6X/EG12N9DA/62	R978878282	5	10
41	4WE6Y6X/EG12N9K4	R900942273	5	10
41	4WE6Y6X/EG12N9K4/62 CSA	R978905637	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
41	4WE6Y6X/EG12N9K4/V	R901008606	5	10
41	4WE6Y6X/EG12N9K4/V/62=CSA	R978020055	5	10
41	4WE6Y6X/EG24N9DA/62	R978878286	5	10
41	4WE6Y6X/EG24N9DAL	R900935501	5	10
41	4WE6Y6X/EG24N9K4	R900561276	5	10
41	4WE6Y6X/EG24N9K4/62	R978017748	5	10
41	4WE6Y6X/EG24N9K4/62=CSA	R978017823	5	10
41	4WE6Y6X/EG24N9K4/B12	R900908877	5	10
41	4WE6Y6X/EG24N9K4/V	R900909636	5	10
41	4WE6Y6X/EG24N9K4/V/62	R901274620	5	10
41	4WE6Y6X/EG24N9K4/V/62 CSA	R978902121	5	10
41	4WE6Y6X/EG24N9K4=CSA	R900929714	5	10
41	4WE6Y6X/EG24N9K72L SO407=AN	R901342992	5	10
41	4WE6Y6X/EG96N9K4	R900909273	5	10
41	4WE6Y6X/EG96N9K4/62	R978017800	5	10
41	4WE6Y6X/EW110N9DA	R978032040	5	10
41	4WE6Y6X/EW110N9DA/62	R978874546	5	10
41	4WE6Y6X/EW110N9DA/V/62	R978891254	5	10
41	4WE6Y6X/EW110N9DAL	R900962944	5	10
41	4WE6Y6X/EW110N9DAL/62	R978017864	5	10
41	4WE6Y6X/EW110N9DAL/V/62	R978878937	5	10
41	4WE6Y6X/EW110N9K4	R900905896	5	10
41	4WE6Y6X/EW110N9K4/62	R978017791	5	10
41	4WE6Y6X/EW110N9K4/62=CSA	R978017846	5	10
41	4WE6Y6X/EW110N9K4/V	R900910847	5	10
41	4WE6Y6X/EW110N9K4/V/62 CSA	R978901065	5	10
41	4WE6Y6X/EW110N9K4=CSA	R900942177	5	10
	4WEH – Directional Spool Valves			
42	4WEH10D4X/6EG24N9ETK4/B10	R900943462	5	10
42	4WEH10E4X/6EG24N9ETK4/B10	R900952630	5	10
42	4WEH10J4X/6EG24N9ETK4/B10	R900948924	5	10
42	4WEH10J4X/6EW110N9ETK4/B10	R900717396	5	10
42	4WEH16D7X/6EG12N9ETK4/B10 SO388	R901225587	5	10
42	4WEH16D7X/6EG24N9ETK4/B10	R900924874	5	10
42	4WEH16D7X/6EG24N9K4	R900923989	5	10
42	4WEH16D7X/6EW110N9ETK4/B10	R900965804	5	10
42	4WEH16E7X/6EG24N9EK4/B10	R900978983	5	10
42	4WEH16E7X/6EG24N9ETDAL/B10	R901236007	5	10
42	4WEH16E7X/6EG24N9ETK4/B10	R900923971	5	10
42	4WEH16E7X/6EG24N9TK4/B10	R900933564	5	10
42	4WEH16E7X/6EW110N9EDAL/B10	R901225031	5	10
42	4WEH16E7X/6EW110N9ETDAL/B10	R901225039	5	10
42	4WEH16EA7X/6EW110N9ETK4/B10	R900705278	5	10
42	4WEH16EB7X/6EG24N9TK4	R900931973	5	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
42	4WEH16J7X/6EG24N9ETK4/B10	R900930431	5	10
42	4WEH16J7X/6EG24N9K4	R900925580	5	10
42	4WEH16J7X/6EG24N9K4/B10	R900972458	5	10
42	4WEH16J7X/6EG24N9TK4	R900927255	5	10
42	4WEH16J7X/6EW110N9EK4/B10	R900959609	5	10
42	4WEH16J7X/6EW110N9ETK4/B10	R900939187	5	10
42	4WEH16JB7X/6EW110N9EK4/B10	R901025600	5	10
42	4WEH22D7X/6EW110N9ETK4/B10	R900973561	5	10
42	4WEH22D7X/6EW110N9DA	R978899831	5	10
42	4WEH22D7X/6EW110N9EDAL/B10	R978913434	5	10
42	4WEH22D7X/6EW110N9ETDAL/B10	R978891600	5	10
42	4WEH22D7X/6EW110N9K4	R900935725	5	10
42	4WEH22D7X/OF6EW110N9K4/B10	R978010140	5	10
42	4WEH22E7X/6EG24N9EK4/B10	R900932659	5	10
42	4WEH22E7X/6EW110N9DA	R978892640	5	10
42	4WEH22E7X/6EW110N9EDAL/B10	R901225767	5	10
42	4WEH22E7X/6EW110N9ETDA/B10	R901225778	5	10
42	4WEH22E7X/6EW110N9ETDAL/B10	R901205276	5	10
42	4WEH22E7X/6EW110N9ETK4/B10	R901211089	5	10
42	4WEH22E7X/6EW110N9K4	R900911063	5	10
42	4WEH22E7X/6EW110N9TDA	R978907992	5	10
42	4WEH22G7X/6EG24N9K4	R978002840	5	10
42	4WEH22G7X/6EW110N9DA	R978892609	5	10
42	4WEH22G7X/6EW110N9EDA/B10	R901225800	5	10
42	4WEH22G7X/6EW110N9K4	R900939327	5	10
42	4WEH22H7X/6EG12N9TK4	R978910815	5	10
42	4WEH22J7X/6EG24N9EK4/B10	R900977313	5	10
42	4WEH22J7X/6EG24N9ETK4/B10	R900932049	5	10
42	4WEH22J7X/6EW110N9DA	R978896846	5	10
42	4WEH22J7X/6EW110N9EK4/B10	R900939179	5	10
42	4WEH22J7X/6EW110N9ETK4/B10	R900939186	5	10
42	4WEH22J7X/6EW110N9K4	R900912919	5	10
42	H-4WEH 25 J6X/6EG24N9ETK4/B10D3	R900932940	5	10
42	H-4WEH25G6X/6EW110N9DA	R978904865	5	10
	Z4WEH – Directional Shut-Off Valves			
43	Z4WE6E68-3X/EG24N9K4	R900941212	5	10
43	Z4WEH10E63-4X/6EG24NETK4/B10	R900977314	5	10
	LC + LFA – DIN Cartridge Valves			
44	LC 16 A00D7X/	R900912570	3	10
44	LC 16 A40D7X/	R900912573	3	10
44	LC 25 A00D7X/	R900912579	3	10
44	LC 25 A05D7X/	R900909251	5	10
44	LC 25 A05E7X/	R900912576	3	10
44	LC 25 A10D7X/	R900912578	3	10


1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
44	LC 25 A10E7X/	R900912577	5	10
44	LC 25 A20D7X/	R900912580	3	10
44	LC 25 A20E7X/	R900910270	3	10
44	LC 25 A40D7X/	R900912581	5	10
44	LC 25 A40E7X/	R900912574	5	10
44	LC 25 B05E7X/	R900909246	5	10
44	LC 32 A05E7X/	R900912585	3	10
44	LC 32 A10E7X/	R900912583	3	10
44	LC 32 A20D7X/	R900912589	3	10
44	LC 32 A20E7X/	R900906337	5	10
44	LC 32 A40E7X/	R900909662	3	10
44	LC 32 B05E7X/	R900909570	5	10
44	LC 40 A05E7X/	R900937996	3	10
44	LC 40 A20D7X/	R900937999	3	10
44	LC 40 A20E7X/	R900938000	5	10
44	LC 40 A40E7X/	R900927973	5	10
44	LC 40 B05E7X/	R900938002	5	10
44	LC 40 B20D7X/	R900938006	5	10
44	LC 40 B20E7X/	R900938007	5	10
44	LC 50 A05E7X/	R900938022	3	10
44	LC 50 A20D7X/	R900938026	5	10
44	LFA 16 D-7X/F	R900912625	3	10
44	LFA 25 D-7X/F	R900905302	3	10
44	LFA 25 D-7X/F/12	R900932362	5	10
44	LFA 25 GWA-7X//12	R900932363	5	10
44	LFA 25 H2-7X/F/12	R900932364	5	10
44	LFA 25 KWA-7X/A15	R900934806	3	10
44	LFA 25 WEA-7X/	R900910273	3	10
44	LFA 25 WEA-7X//12	R900932368	5	10
44	LFA 25 WEA-7X/A08T08	R901056232	3	10
44	LFA 25 WEA-7X/T10	R900701867	3	10
44	LFA 32 D-7X/F	R900905303	3	10
44	LFA 32 D-7X/F/12	R900932373	5	10
44	LFA 32 GWA-7X/	R900912708	3	10
44	LFA 32 KWA-7X/A15	R900932746	3	10
44	LFA 32 WEA-7X/	R900912712	3	10
44	LFA 32 WEA-7X/P20	R901229326	3	10
44	LFA 40 D-7X/F	R900938073	3	10
44	LFA 40 D-7X/F/12	R900938074	5	10
44	LFA 40 GWA-7X//12	R900956116	5	10
44	LFA 50 D-7X/F	R900938150	3	10
45	LC 16 DB20E7X/	R900912531	5	10
45	LC 16 DB40D7X/	R900912547	3	10
45	LC 16 DB40E7X/	R900912532	3	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
45	LC 25 DB20E7X/	R900912549	5	10
45	LC 25 DB40D7X/	R900912555	5	10
45	LC 25 DB40E7X/	R900912550	3	10
45	LC 32 DB20E7X/	R900912543	5	10
45	LC 32 DB40D7X/	R900912557	5	10
45	LC 32 DB40E7X/	R900910773	3	10
45	LC 40 DB20E7X/	R900938012	5	10
45	LC 40 DB40D7X/	R900938014	3	10
45	LC 40 DB40E7X/	R900927969	5	10
45	LC 50 DB20E7X/	R900938039	5	10
45	LC 50 DB40E7X/	R900938041	5	10
45	LFA 16 DB2-7X/315	R900912757	3	10
45	LFA 25 DB2-7X/315	R900912761	3	10
45	LFA 25 DBW2-7X/200/12	R900932360	5	10
45	LFA 32 DBEM-7X/315	R900912801	3	10
45	LFA 40 DBW2-7X/200/12	R900948914	5	10
45	LFA 40 DBW2-7X/315/12	R900961763	5	10
				
	Pressure Control Valves			
	DBD – Pressure Relief Valves			
46	DBD.6G1X/./12	R900347095	3	10
46	DBDH 10 K1X/100	R900423891	5	10
46	DBDH 10 K1X/200	R900424190	5	10
46	DBDH 6 G1X/200/12	R900345310	5	10
46	DBDH 6 G1X/315/12	R900458278	5	10
46	DBDH 6 G1X/400/12	R900385305	5	10
46	DBDH 6 K1X/100	R900424199	5	10
46	DBDH 6 K1X/200	R900424200	5	10
46	DBDH6K1X/315	R900424201	5	10
46	DBDH6K1X/400	R900424202	5	10
46	DBDS 10 G1X/200/12	R900341591	5	10
46	DBDS 10 G1X/315/12	R900377746	5	10
46	DBDS 10 K1X/200	R900424149	5	10
46	DBDS 10 K1X/25	R900420276	5	10
46	DBDS 10 K1X/315	R900424150	5	10
46	DBDS 10 K1X/315V	R900424151	5	10
46	DBDS 10 K1X/50	R900424153	5	10
46	DBDS 20 K1X/200	R900424269	5	10
46	DBDS 20 K1X/315	R900424271	5	10
46	DBDS 20 K1X/400	R900424203	5	10
46	DBDS 30 K1X/200	R900424286	5	10
46	DBDS 30 K1X/315	R900424288	5	10
46	DBDS 6 G1X/200/12	R900341066	5	10


1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
46	DBDS 6 G1X/315/12	R900352672	5	10
46	DBDS 6 K1X/100	R900423723	5	10
46	DBDS 6 K1X/200	R900423724	5	10
46	DBDS 6 K1X/315	R900423725	5	10
46	DBDS 6 K1X/315V	R900428388	5	10
46	DBDS 6 K1X/400	R900423726	5	10
46	DBDS 6 K1X/50	R900423727	5	10
46	DBDS10K1X/400	R900424152	5	10
	DZT – Pressure Relief Valves			
47	DZT-XA2-1X/160	0811104126	3	10
	ZDB(K) & Z2DB – Pressure Relief Valves			
48	ZDB 6 VA2-4X/200V	R900409886	5	10
48	ZDB 6 VB2-4X/100V	R900409936	5	10
48	ZDB 6 VB2-4X/200V	R900409854	5	10
48	ZDB 6 VB2-4X/315V	R900409896	5	10
48	ZDB 6 VP2-4X/200V	R900409844	5	10
48	ZDB 6 VP2-4X/315V	R900409898	5	10
48	ZDB 10 VA2-4X/200V	R900422189	5	10
48	Z2DB 6 VC2-4X/200V	R900411312	5	10
48	Z2DB 6 VC2-4X/315V	R900411318	5	10
48	Z2DB 6 VD2-4X/200V	R900411314	5	10
48	Z2DB 10 VD2-4X/200V	R900411358	5	10
48	ZDBK 6 VP2-1X/210V	R900564564	5	10
	DB & DBW – Pressure Relief Valves			
49	DB 10-2-5X/200/12	R900535928	3	10
49	DB 20-2-5X/315/12	R900511690	3	10
49	DB 30-2-5X/315/12	R900558107	3	10
49	DBW 10 A2-5X/200-6EG24N9K4/12	R978912159	3	10
49	DBW 10 A2-5X/200Y6EW110N9K4/12	R978030501	3	10
49	DBW 10 B2-5X/315-6EG24N9K4/12	R900955012	5	10
49	DBW 20 A2-5X/200-6EG24N9K4/12	R978010494	3	10
49	DBW 20 A2-5X/200-6EW110N9K4/12	R978910390	3	10
49	DBW 20 B2-5X/200-6EW110N9K4/12	R900925587	5	10
49	DBW 30 B2-5X/315-6EG24N9K4/12	R900941920	5	10
	DR – Pressure Reducing Valve			
50	DR6DP1-5X/150YM/12	R900554887	5	10
50	DR6DP2-5X/150Y/12	R900481941	5	10
50	DR6DP2-5X/150YM/12	R900479792	5	10
50	DR6DP2-5X/210YM/12	R900434477	5	10
50	DR10-5-5X/200YM/12	R900618736	5	10
50	DR20-5-5X/100Y/12	R900519810	5	10
50	DR20-5-5X/200YM/12	R900546289	5	10
	ZDR – Pressure Reducing Valve			
51	ZDR 6 DA2-4X/150Y	R900410849	5	10

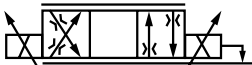
1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
51	ZDR 6 DA2-4X/150Y/12	R900427723	5	10
51	ZDR 6 DA2-4X/75Y	R900410813	5	10
51	ZDR 6 DA2-4X/75Y/12	R900430193	5	10
51	ZDR 6 DP2-4X/150YM	R900483787	5	10
51	ZDR 6 DP2-4X/150YM/12	R900404754	5	10
51	ZDR 6 DP2-4X/210YM	R900483788	5	10
51	ZDR 6 DP2-4X/210YM/12	R900433350	5	10
51	ZDR 6 DP2-4X/25YM/12	R900404346	5	10
51	ZDR 6 DP2-4X/75YM	R900483786	5	10
51	ZDR 6 DP2-4X/75YM/12	R900401216	5	10
51	ZDR 10 DP2-5X/150YM	R900410880	5	10
51	ZDR 10 DP2-5X/150YM/12	R900582108	5	10
51	ZDR 10 DP2-5X/210YM/12	R900582564	5	10
51	ZDR 10 DP2-5X/75YM/12	R900513528	5	10
51	ZDR 10 VP5-3X/200YM/12	R900512452	5	10
	ZDRK – Pressure Reducing Valve			
52	ZDRK 6 VP5-1X/100YMV/12	R900700999	5	10
52	ZDRK 6 VP5-1X/210YMV/12	R900566912	5	10
52	ZDRK 6 VP5-1X/50YMV/12	R900700998	5	10
	ZDRY – Pressure Reducing Valve			
53	ZDRY10VB5-1X/80YV	0811145192	5	10
53	ZDRY10VP5-1X/160YMV	0811145177	5	10
53	ZDRY10VP5-1X/315YMV	0811145178	5	10
53	ZDRY10VP5-1X/80YMV	0811145176	5	10
	Flow Control Valves			
	MG – Throttle Valves			
54	MG 10 G1X/V	R900422145	5	10
	Z2FS(K) – Double Throttle Check Valves			
55	Z2FS 6-2-4X/1Q	R900481621	5	10
55	Z2FS 6-2-4X/1QV	R900481623	5	10
55	Z2FS 6-2-4X/2Q	R900481622	5	10
55	Z2FS 6-2-4X/2QV	R900481624	5	10
55	Z2FS 6-2-4X/2QV/60	R900727967	5	10
55	Z2FS 10-3-3X/V	R900523737	5	10
55	Z2FS 10-5-3X/V	R900517812	5	10
55	Z2FS 16-8-3X/S	R900459203	5	10
55	Z2FS 16-8-3X/S2	R900457256	5	10
55	Z2FS 16-8-3X/S2V	R900473688	5	10
55	Z2FS 16-8-3X/SV	R900470529	5	10
55	Z2FS 22-3X/SV	R900474580	5	10
55	Z2FS 22-8-3X/S2	R900443176	5	10
55	Z2FS 22-8-3X/S2V	R900468786	5	10
55	Z2FSK 6-2-1X/2QV	R900564521	5	10
55	Z2FSK 10-2-1X/2QV	R900564522	5	10

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	2FRM – 2-Way Flow Control Valves			
56	2FRM 6 B36-3X/1.5QRV	R900205507	5	10
56	2FRM 6 B36-3X/10QRV	R900205509	5	10
56	2FRM 6 B36-3X/16QMV	R900205510	5	10
56	2FRM 6 B36-3X/16QRV	R900205511	5	10
56	2FRM 6 B36-3X/25QRV	R900205513	5	10
56	2FRM 6 B36-3X/3QRV	R900205517	5	10
56	2FRM 6 B36-3X/6QRV	R900205519	5	10
56	2FRM 6 B76-3X/6QRV	R900205528	5	10
56	2FRM 10-3X/10L	R900424887	5	10
56	2FRM 10-3X/10LV	R900427774	5	10
56	2FRM 10-3X/16L	R900423251	5	10
56	2FRM 10-3X/25L	R900423255	5	10
56	2FRM 10-3X/50L	R900420286	5	10
56	2FRM 10-3X/50LB	R900423261	5	10
56	2FRM 10-3X/50LV	R900427776	5	10
56	2FRM 16-3X/100L	R900424905	5	10
56	2FRM 16-3X/160L	R900424906	5	10
56	2FRM 16-3X/160LB	R900424902	5	10
56	2FRM 16-3X/60L	R900423271	5	10
				
	Proportional Valves			
	4WRP & 4WRPE – Proportional Directional Valves			
57	4WRP 10 E63S-1X/G24Z4/M	0811404001	5	10
57	4WRP 10 EA63S-1X/G24Z4/M	0811403001	5	10
57	4WRPE 6 E18SJ-2X/G24K0/A1M	0811404140	5	10
57	4WRPE 6 E32SJ-2X/G24K0/A1M	0811404141	5	10
57	4WRPE 6 EA32SJ-2X/G24K0/A1M	0811403128	5	10
57	4WRPE 6 W18SJ-2X/G24K0/A1M	0811404142	5	10
57	4WRPE 6 W32SJ-2X/G24K0/A1M	0811404143	5	10
57	4WRPE 10 E50SJ-2X/G24K0/A1M	0811404770	5	10
57	4WRPE 10 E80SJ-2X/G24K0/A1M	0811404771	5	10
57	4WRPE 10 EA80SJ-2X/G24K0/A1M	0811404750	5	10
57	4WRPE 10 V80M-2X/G24K0/A1M-837	0811404552	5	10
57	4WRPE 10 W50SJ-2X/G24K0/A1M	0811404772	5	10
57	4WRPE 10 W80SJ-2X/G24K0/A1M	0811404773	5	10
	4WRPH & 4WRPEH – High Response Directional Valve			
58	4WRPEH 6 C B40L-2X/G24K0/F1M	0811404640	5	10
58	4WRPEH 6 C3 B04L-2X/G24K0/A1M	0811404600	5	10
58	4WRPEH 6 C3 B04P-2X/G24K0/A1M	0811404605	5	10
58	4WRPEH 6 C3 B12L-2X/G24K0/A1M	0811404601	5	10
58	4WRPEH 6 C3 B12L-2X/G24K0/F1M	0811404632	5	10
58	4WRPEH 6 C3 B15P-2X/G24K0/A1M	0811404642	5	10

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58	4WRPEH 6 C3 B24L-2X/G24K0/A1M	0811404602	5	10
58	4WRPEH 6 C3 B24L-2X/G24K0/F1M	0811404633	5	10
58	4WRPEH 6 C3 B40L-2X/G24K0/A1M	0811404603	5	10
58	4WRPEH 6 C3 B40L-2X/G24K0/F1M	0811404634	5	10
58	4WRPEH 6 C4 B12L-2X/G24K0/A1M	0811404611	5	10
58	4WRPEH 6 C4 B24L-2X/G24K0/A1M	0811404612	5	10
58	4WRPEH 6 C4 B40L-2X/G24K0/A1M	0811404613	5	10
58	4WRPEH 10 C3 B100L-2X/G24K0/A1M	0811404801	5	10
58	4WRPEH 10 C3 B50L-2X/G24K0/A1M	0811404800	5	10
58	4WRPEH 10 C3 B100L-2X/G24K0/F1M	0811404817	5	10
58	4WRPEH 10 C4 B100L-2X/G24K0/A1M	0811404803	5	10
58	4WRPEH 10 C4 B50L-2X/G24K0/A1M	0811404802	5	10
58	4WRPH 6 C3 B12L-2X/G24Z4/M	0811404034	5	10
58	4WRPH 6 C3 B15P-2X/G24Z4/M	0811404047	5	10
58	4WRPH 6 C3 B24L-2X/G24Z4/M	0811404035	5	10
58	4WRPH 6 C3 B40L-2X/G24Z4/M	0811404036	5	10
58	4WRPH 6 C4 B40L-2X/G24Z4/M	0811404039	5	10
58	4WRPH 10 C4 B100L-2X/G24Z4/M	0811404061	5	10
58	4WRPH 10 C4 B50L-2X/G24Z4/M	0811404060	5	10
	4WRREH – High-Response Directional Valves			
59	4WRREH 6 V B 8L -1X/G24K0/B5M	0811404723	5	10
59	4WRREH 6 V B 40L -1X/G24K0/B5M	0811404720	5	10
	4WRA & 4WRAE – Proportional Directional Valves			
60	4WRA 6 E30-2X/G24N9K4/V	R900902940	5	10
60	4WRA 10 E30-2X/G24N9K4/V	R900921739	5	10
60	4WRA 10 E60-2X/G24N9K4/V	R900902097	5	10
60	4WRA 10 W60-2X/G24N9K4/V	R900907650	5	10
60	4WRAE 6 E15-2X/G24N9K31/A1V	R900909389	5	10
60	4WRAE 6 E30-2X/G24N9K31/A1V	R900558355	5	10
60	4WRAE 6 W30-2X/G24N9K31/A1V	R900900987	5	10
60	4WRAE 10 E60-2X/G24N9K31/A1V	R900558356	5	10
60	4WRAE 10 W60-2X/G24N9K31/A1V	R900900988	5	10
	4WRA(E)B – Proportional Directional Control Valves			
61	4WRAB6E03-1X/G12N9K4/MR	R978916804	5	10
61	4WRAB6E06-1X/G12N9K4/MR	R978910358	5	10
61	4WRAB6E12-1X/G12N9K4/MR	R978879705	5	10
61	4WRAB6E25-1X/G12N9K4/MR	R978898190	5	10
61	4WRAB6E25-1X/G24N9K4/MR	R978879339	5	10
61	4WRAB6EA12-1X/G12N9K4/MR	R978911432	5	10
61	4WRAB6W03-1X/G12N9K4/MR	R978911679	5	10
61	4WRAB6W12-1X/G12N9DA/MR	R978908145	5	10
61	4WRAB6W12-1X/G12N9K4/MR	R978891597	5	10
61	4WRAB6W25-1X/G12N9K4/MR	R978877472	5	10
61	4WRAEB6E12-1X/G24N9DK26/MR	R978879310	5	10

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61	4WRAEB6E25-1X/G24N9DK26/MR	R978878558	5	10
61	4WRAEB6EA25-1X/G24N9DK26/MR	R978890224	5	10
61	4WRAEB6W25-1X/G24N9DK26/MR	R978878559	5	10
61	4WRAEB6WA25-1X/G24N9DK26/MR	R978879793	5	10
	4WREE – Proportional Directional Valves			
62	4WRE 6 E16-2X/G24K4/V	R900954092	5	10
62	4WREE 6 E08-2X/G24K31/A1V	R900912156	5	10
62	4WREE 6 E16-2X/G24K31/A1V	R900920567	5	10
62	4WREE 6 E32-2X/G24K31/A1V	R900907114	5	10
62	4WREE 6 E32-2X/G24K31/F1V	R900925733	5	10
62	4WREE 6 EA16-2X/G24K31/A1V	R900913433	5	10
62	4WREE 6 V08-2X/G24K31/A1V	R900909367	5	10
62	4WREE 6 V1-16-2X/G24K31/A1V	R900931195	5	10
62	4WREE 6 V16-2X/G24K31/A1V	R900907440	5	10
62	4WREE 6 V32-2X/G24K31/A1V	R900911681	5	10
62	4WREE 6 V32-2X/G24K31/F1V	R900926747	5	10
62	4WREE 6 W08-2X/G24K31/A1V	R900923000	5	10
62	4WREE 6 W16-2X/G24K31/A1V	R900925657	5	10
62	4WREE 6 W32-2X/G24K31/A1V	R900911004	5	10
62	4WREE 10 E1-75-2X/G24K31/A1V	R900927232	5	10
62	4WREE 10 E50-2X/G24K31/A1V	R900927231	5	10
62	4WREE 10 E75-2X/G24K31/A1V	R900927230	5	10
62	4WREE 10 V50-2X/G24K31/A1V	R900927235	5	10
62	4WREE 10 V75-2X/G24K31/A1V	R900924607	5	10
62	4WREE 10 W1-75-2X/G24K31/A1V	R900927234	5	10
62	4WREE 10 W50-2X/G24K31/A1V	R900931371	5	10
62	4WREE 10 W75-2X/G24K31/A1V	R900927233	5	10
	4WRVE – High Response Directional Valves			
63	4WRVE 10 V55M-2X/G24K0/B5M	0811404690	5	10
63	4WRVE 10 V85M-2X/G24K0/B5M	0811404691	5	10
63	4WRVE 16 V200M-2X/G24K0/B5M	0811404291	3	10
63	4WRVE 25 V370M-2X/G24K0/B5M	0811404445	5	10
	4WRKE-High Response Directional Valves			
64	4WRKE 25 W8-350L-3X/6EG24K31/A1D3M	R900249554	3	10
	4WRLE – High Response Directional Valves			
65	4WRLE 10 E1-80SJ-3X/G24ETK0/A1M	0811404715	5	10
65	4WRLE 10 E1-80SJ-3X/G24K0/A1M	0811404701	5	10
65	4WRLE 10 E80SJ-3X/G24ETK0/A1M	0811404713	3	10
65	4WRLE 10 E80SJ-3X/G24K0/A1M	0811404700	5	10
65	4WRLE 10 V1-85M-3X/G24ETK0/A1M	0811404673	5	10
65	4WRLE 10 V55L-3X/G24ETK0/A1M	R901125218	5	10
65	4WRLE 10 V55M-3X/G24ETK0/A1M	0811404661	3	10
65	4WRLE 10 V55M-3X/G24K0/A1M	0811404652	5	10
65	4WRLE 10 V55M-3X/G24TK0/A1M	0811404659	5	10

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65	4WRLE 10 V85L-3X/G24ETK0/A1M	R901125217	5	10
65	4WRLE 10 V85M-3X/G24ETK0/A1M	0811404662	3	10
65	4WRLE 10 V85M-3X/G24K0/A1M	0811404653	5	10
65	4WRLE 10 W4-80SJ-3X/G24K0/A1M	0811404711	5	10
65	4WRLE 10 W80SJ-3X/G24ETK0/A1M	0811404707	3	10
65	4WRLE 16 EZ180SJ-3X/G24ETK0/A1M	0811404319	3	10
65	4WRLE 16 EZ180SJ-3X/G24K0/A1M	0811404305	3	10
65	4WRLE 16 Q4-200M-3X/G24ETK0/A1M	0811404270	5	10
65	4WRLE 16 Q4-200M-3X/G24K0/A1M	0811404276	5	10
65	4WRLE 16 V1-120M-3X/G24ETK0/A1M	0811404281	5	10
65	4WRLE 16 V1-200M-3X/G24ETK0/A1M	0811404282	5	10
65	4WRLE 16 V120L-3X/G24ETK0/A1M	R901128116	5	10
65	4WRLE 16 V120M-3X/G24K0/A1M	0811404250	3	10
65	4WRLE 16 V200L-3X/G24ETK0/A1M	R901128117	5	10
65	4WRLE 16 V200M-3X/G24ETK0/A1M	R901089293	5	10
65	4WRLE 16 V200M-3X/G24ETK0/A1V	R978714397	5	10
65	4WRLE 16 V200M-3X/G24K0/A1M	0811404251	3	10
65	4WRLE 16 W1-180SJ-3X/G24K0/A1M	R901102544	5	10
65	4WRLE 16 W1-200M-3X/G24EK0/A1WX02M-779	0811404273	5	10
65	4WRLE 16 W1Z180SJ-3X/G24K0/A1M	0811404308	5	10
65	4WRLE 16 W4Z180SJ-3X/G24ETK0/A1M	0811404328	5	10
65	4WRLE 16 W5-180SJ-3X/G24K0/A1M	0811404320	5	10
65	4WRLE 16 WZ180SJ-3X/G24K0/A1M	0811404307	3	10
65	4WRLE 25 EZ350SJ-3X/G24ETK0/A1M	0811404481	3	10
65	4WRLE 25 EZ350SJ-3X/G24K0/A1M	0811404454	3	10
65	4WRLE 25 V370M-3X/G24ETK0/A1M	0811404498	5	10
65	4WRLE 25 V370M-3X/G24K0/A1M	0811404430	5	10
65	4WRLE 25 W1Z350SJ-3X/G24K0/A1M	0811404457	5	10
65	4WRLE 25 W4Z350SJ-3X/G24K0/A1M	0811404472	5	10
65	4WRLE 25 WZ350SJ-3X/G24K0/A1M	0811404456	3	10
65	4WRLE 25 X370M-3X/G24EK0/A1M-812	0811404435	5	10
65	4WRLE 25 X370M-3X/G24ETK0/A1M-812	0811404434	5	10
65	4WRLE 27 Q4-430M-3X/G24ETK0/A1M	0811404438	3	10
65	4WRLE 27 Q4-430M-3X/G24K0/A1M	0811404441	5	10
65	4WRLE 27 Q4-430M-3X/G24TK0/A1M	0811404442	5	10
	4WRSE – High Response Directional Valves			
66	4WRSE 10 V80-3X/G24K0/A1V	R900579286	5	10
	4WRZE – 4/2, 4/3 Proportional Directional Valves			
67	4WRZ 16 E150-7X/6EG24N9EK4/D3V	R900947411	5	10
67	4WRZ 16 E150-7X/6EG24N9ETK4/D3V	R900944363	3	10
67	4WRZ 25 W8-325-7X/6EG24N9ETK4/D3V	R900945912	5	10
67	4WRZE 10 W6-50-7X/6EG24N9ETK31/F1D3V	R900952143	5	10
67	4WRZE 10 W6-85-7X/6EG24N9ETK31/A1D3V	R900932993	5	10
67	4WRZE 16 E150-7X/6EG24N9ETK31/A1V	R900945995	3	10


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67	4WRZE 25 E220-7X/6EG24N9ETK31/A1D3V	R900953095	5	10
67	4WRZE 25 W6-325-7X/6EG24N9ETK31/A1V	R900940842	5	10
	5WRPE – 5/3 Proportional Directional Valves			
68	5WRPE 10 F1B 70L -2X/G24K0/A1M	0811402107	5	10
	FESX – Proportional Cartridge Throttle Valves			
69	FESX 16CA-1X/125LZ4M	0811402452	5	10
69	FESX 25CA-1X/210LZ4M	0811402515	5	10
69	FESX 32CA-1X/320LZ4M	0811402614	5	10
69	FESX 40CA-1X/500LZ4M	0811402620	5	10
69	FESX 50CA-1X/980LZ4M	0811402633	5	10
	FESXE – Proportional Cartridge Throttle Valves			
70	FESXE 16CA-1X/125LK0B1M	0811402454	5	10
70	FESXE 25CA-1X/210LK0B1M	0811402517	5	10
70	FESXE 32CA-1X/320LK0B1M	0811402616	5	10
70	FESXE 40CA-1X/500LK0B1M	0811402622	5	10
70	FESXE 50CA-1X/980LK0B1M	0811402642	5	10
	DBETBX – Pressure Relief Valves			
71	DBETBX-1X/180G24-37Z4M	0811402003	5	10
	DBETBEX – Proportional Pressure Relief Valves			
72	DBETBEX-1X/180G24K31A1M	0811402071	5	10
72	DBETBEX-1X/250G24K31A1M	0811402073	5	10
72	DBETBEX-1X/315G24K31A1M	0811402070	5	10
	DBE6X – Proportional Pressure Relief Valves			
73	DBE 6X-1X/315G24-8NZ4M	0811402043	5	10
	DBEE6 – Proportional Pressure Relief Valves			
74	DBEE 6-2X/315G24K31A1M	R901323940	5	10
	DBETFX – Proportional Pressure Relief Valves			
75	DBETFX-1X/250G24-27NZ4M	0811402021	5	10
	DBETX – Proportional Pressure Relief Valves			
76	DBETX-1X/180G24-25NZ4M	0811402031	5	10
76	DBETX-1X/180G24-8NZ4M	0811402017	5	10
76	DBETX-1X/250G24-8NZ4M	0811402019	5	10
76	DBETX-1X/315G24-25NZ4M	0811402032	5	10
76	DBETX-1X/315G24-8NZ4M	0811402016	5	10
	DBETA – Proportional Pressure Relief Valves			
77	DBETA-6X/P200G24K31A1V	R901338404	3	10
77	DBETA-6X/P350G24K31A1V	R901352135	3	10
	DBET & DBETE – Proportional Pressure Relief Valves			
78	DBET-6X/200G24K4V	R901000846	5	10
78	DBET-6X/315G24K4V	R901000847	5	10
78	DBET-6X/350G24K4V	R901000848	5	10
78	DBETE-6X/200G24K31A1V	R901029968	5	10
78	DBETE-6X/315G24K31A1V	R901029969	5	10
78	DBETE-6X/350G24K31A1V	R901029970	5	10

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	DBEBE6X – Proportional Pressure Relief Valves			
79	DBEBE 6X-1X/315G24K31A1M	0811402076	5	10
	DBEME – Proportional Pressure Relief Valves			
80	DBEME 10-7X/315YG24K31A1V	R901363308	5	10
	DRE(E) – Proportional Pressure Reducing Valves			
81	DRE 6-1X/100MG24K4M	R900932943	5	10
	DRE6X – Proportional Pressure Reducing Valves			
82	DRE 6X-1X/175MG24-8NZ4M	0811402055	5	10
82	DRE 6X-1X/310MG24-8NZ4M	0811402058	5	10
	DREB6X – Proportional Pressure Reducing Valves			
83	DREB 6X-1X/175MG24-25Z4M	0811402051	5	10
	DREBE6X – Proportional Pressure Reducing Valves			
84	DREBE 6X-1X/175MG24K31A1M	0811402080	5	10
84	DREBE 6X-1X/175MG24K31F1M	0811402083	5	10
84	DREBE 6X-1X/310MG24K31A1M	0811402081	5	10
	DREBE10Z – Proportional Pressure Reducing Valves			
85	DREBE 10Z-1X/315XYMG24K31A1M	0811402152	5	10
	DRE(M) & DRE(M)E – Proportional Pressure Reducing Valves			
86	DREE 10-6X/200YMG24K31A1M	R901272516	5	10
86	DREE 10-6X/315YMG24K31A1M	R901278309	5	10
86	DREM 10-6X/315YMG24K4M	R901298578	5	10
	3DREP & 3DREPE – Proportional Pressure Reducing Valves			
87	3DREP 6 C-2X/25EG24N9K4/M	R900955887	5	10
87	3DREP 6 C-2X/25EG24N9K4/M-674	R901205987	5	10
87	3DREP 6 C-2X/25EG24N9K4/V	R900929529	5	10
87	3DREPE 6 A-2X/25EG24N9K31/A1V	R900925526	5	10
87	3DREPE 6 C-2X/25EG24N9K31/A1V	R900925484	5	10
87	3DREPE 6 C-2X/25EG24N9K31/F1M	R900958848	5	10
87	3DREPE 6 C-2X/25EG24N9K31/F1V	R900926984	5	10
	ZDREE – Proportional Pressure Reducing Valves			
88	ZDREE 10 VP2-2X/200XLMG24K31A1M	R901198302	3	10
	Standard Manifolds			
	Automotive Bar Manifold			
89	ABM6PN-1X/02D2-01GM	R978908745	3	10
89	ABM6PN-1X/04D2-01GM	R978908747	3	10
	Cover Plate			
89	CP6NN-XX/D-01	R978839953	5	10
	Proportional Electronics			
				
	VT-VSPA1-1-1X – Analog Amplifier			
90	VT-VSPA1-1-1X/	R900033823	5	10

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	VT-VSPA1-2-1X – Analog Amplifier			
91	VT-VSPA1-2-1X/V0/0	R900782310	5	10
	VT-2000-5X – Electrical Amplifier			
92	VT 2000-5X/	R900033828	5	10
	VT-SSPA1-50 – Plug-in Amplifier			
93	VT-SSPA1-50-1X/V0/0-24	R901005414	5	10
	VT-SSPA1-5 – Plug-in Amplifier			
94	VT-SSPA1-508-20/V0	0811405144	5	10
94	VT-SSPA1-525-20/V0	0811405143	5	10
94	VT-SSPA1-525-2X/V0/I	0811405145	5	10
	VT-VSPA2-1-2X – Analog Amplifier			
95	VT-VSPA2-1-2X/V0/T1	R901002090	5	10
95	VT-VSPA2-1-2X/V0/T5	R901002095	5	10
	VT 11118-1X – Analog Amplifier Module			
96	VT 11118-1X/	R900211788	5	10
	MDS – Mobile Dual Solenoid Driver			
97	MDS1-2X/0	R978886070	5	10
97	MDS1K-2X/0	R978886412	5	10
97	MDS1K-2X/1	R978886413	5	10
97	MDS1K-2X/2	R978839712	5	10
97	MDS1K-2X/3	R978886415	3	10
97	MDS1-2X/0	R978886065	5	10
97	MDS1-2X/2	R978886067	3	10
	VT-5041-3X – Analog Amplifier			
98	VT 5041-3X/1-0	R901236404	5	10
98	VT 5041-3X/3-0	R901196678	5	10
	VT-VRPA1-1 – Analog Amplifier			
99	VT-VRPA 1-527-10/V0	0811405095	5	10
99	VT-VRPA 1-527-20/V0/2/2V	0811405076	5	10
99	VT-VRPA 1-537-10/V0/PV	0811405097	5	10
99	VT-VRPA 1-537-10/V0/QV	0811405099	5	10
99	VT-VRPA1-151-1X/V0/0	R901057060	5	10
	VT-VRPA1...RTS – Electrical Amplifier			
100	VT-VRPA1-527-20/V0/RTS-2STV	0811405073	5	10
	VT-VRPA1-527...RTS-2/2V – Electrical Amplifier			
101	VT-VRPA1-527-20/V0/RTS-2/2V	0811405074	5	10
	VT-VRPA1...PV-RTP – Electrical Amplifier			
102	VT-VRPA1-537-10/V0/PV-RTP	0811405102	5	10
	VT-VRPA2-.../T1 – Analog Amplifier			
103	VT-VRPA2-1-1X/V0/T1	R900979887	5	10
103	VT-VRPA2-2-1X/V0/T1	R900979889	5	10
	VT-VRPA2-5...RTP – Electrical Amplifier			
104	VT-VRPA2-527-10/V0/RTP	0811405119	5	10
104	VT-VRPA2-537-10/V0/RTP	0811405120	5	10

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	VT-5035-1X – Electrical Amplifier			
105	VT 5035-1X/	R900579497	5	10
	VT-VRRA – Analog Amplifier			
106	VT-VRRA 1-527-20/V0	0811405060	5	10
106	VT-VRRA 1-527-20/V0/2STV	0811405063	5	10
106	VT-VRRA 1-537-20/V0	0811405061	5	10
	VT-VARAP1 – p/Q Amplifier			
107	VT-VARAP1-527-20/V0	0811405152	5	10
	VT-VACAP1 – p/Q Controller			
108	VT-VACAP-500-20/V0	0811405157	5	10
108	VT-VACAP-500-20/V0/2CH	0811405158	5	10
	VT-HACD-3 – Control Electronics			
109	VT-HACD-3-2X/0-I-00/000	R901239533	5	10
109	VT-HACD-3-2X/E-I-00/000	R901239535	5	10
109	VT-HACD-3-2X/P-I-00/000	R901227616	5	10
	VT-MACAS – Analog Positioning Modules			
110	VT-MACAS-500-10/V0	0811405139	5	10
	VT-SWMA-1 – Analog Command Value Modules			
111	VT-SWMA-1-1X/V0/0	R900942541	5	10
	VT-SWMA3-5 – Command Value and Ramp Modules			
112	VT-SWMA3-5-1X/V0/0	0811405108	5	10
	VT3002 – Card Holder			
113	VT 3002-1-2X/32D (card holder)	R900020153	5	10
113	VT 3002-1-2X/32F	1834486001	5	10
113	VT 3002-1-2X/48F (card holder)	R900020154	5	10
	VT-SSBA1 – Plug-in Switching Amplifier			
114	VT-SSBA1-PWM-1X/V002/5	R901290194	3	10
	VT-DFP – Pilot Control Valves			
115	VT-DFP-A-2X/G24K0/0/V	R900703811	5	10
115	VT-DFPE-A-2X/G24K0/0A1V/V	R900712200	5	10
	VT-VETSY-1 – Service Case			
116	VT-VETSY-1-1X/1-2-1-1-0/USA	R978050422	3	10
	HM20 – Pressure Transducer			
117	HM 20-2X/100-C-K35	R901342024	5	10
117	HM 20-2X/100-H-K35	R901342025	5	10
117	HM 20-2X/250-C-K35	R901342026	5	10
117	HM 20-2X/250-H-K35	R901342027	5	10
117	HM 20-2X/315-C-K35	R901342029	5	10
117	HM 20-2X/315-H-K35	R901342030	5	10
117	HM 20-2X/400-C-K35	R901342033	5	10
117	HM 20-2X/400-H-K35	R901342034	5	10

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	Mobile Electronics			
	BODAS RC Controllers			
118	Control Unit RC12-10/30	R917008181	4	10
118	RC2-2/21 Microcontroller	R902098200	1	5
118	RC4-5/30 (un-programmed)	R917008015	2	5
	BODAS Tools			
119	BODAS Cable	R902109422	1	5
119	BODAS Service Diagnostic Connector	R909831291	1	5
119	BODAS Service Tool Full	R902109416	1	5
	BODAS Sensors & Connectors			
120	PO1 Mating Connector Kit	R978...	2	10
120	PO12S05/20 Linear Position	R917002927	2	10
120	PR3 Mating Connector	R902602132	2	5
120	PR3-400GS05/10	R917008824	2	5
120	PR3-600GS05/10	R917008825	2	5
120	TSF Temperature Sensor	0538009252	2	5
120	WS1 Mating Connector	R902601914	2	10
120	WS1T90/10 Angle Position	R902602446	2	10
	BODAS Display – Display DI3			
121	BODAS DCT SW Tool	R902109631	1	5
121	BODAS Display DI3	R902109505	2	10
121	DI3 Mating Connector	R900877038	2	10
	BODAS Display – Color Video Camera			
122	CAM-PRO/10 Camera	R902603837	2	10
122	CAM-XXX/10 Mating Cable	R902603838	2	10
	Analog Amplifier – RA2-1			
123	RA Amplifier 25 Pin Mating Connector	R902603063	2	5
123	RA2-1/10 Dual Solenoid Amplifier	R902091800	2	5
	BODAS Connector & Wire Kits			
124	BCK1-58-R RC../30 not 4-5	R978730366	2	5
124	BCK1-96-L RC../30 not 4-5	R978730365	2	5
124	BCK2-56-R RC4-5/30 Only	R978730367	4	5
124	BWK1-16-10-2BK	R978730359	2	5
124	BWK1-18-2-10BK	R978730358	4	5
124	BWK2-16-2-3RD	R978730360	2	5
124	BWK3-18-2-10BK	R978730362	4	5
124	BWK3-18-5-4BK	R978730363	2	5
124	BWK4-18-5-4BK2RD	R978730364	2	5
124	RC 52 Pin Mating Connector	R902602414	1	5
124	RC../30 96+58 Mating Con. Kit	R902603622	2	5
124	BCK1-58-CONTACTS	R978057364	2	5
124	BCK1-96-CONTACTS	R978057363	2	5
124	BCK2-56-CONTACTS	R978057365	4	5

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	Mobile Controls			
	2TH6 – Hydraulic Pilot Controller			
125	1-2 TH6 L 06-10/M 05	R907225176	3	10
125	1-2 TH6 L 97-10/M 05	R908352025	3	10
125	1-2 TH6 L 06-1X/M05 SO418	R978728584	3	10
125	1-2 TH6 M 06-10/M 05	R907225383	3	10
125	1-2 TH6 M 97-10/M 05	R908352026	3	10
125	1-2 TH6 M 06-1X/M05 SO418	R978728585	3	10
125	1-2 TH6 P 06-10/M 05 S418	R907223668	3	10
125	1-2 TH6 P 97-10/M 05	R908352027	3	10
125	1-2 TH6 T 97-10/M 05	R908353005	3	10
125	2 TH6 L 06-10/M 05	R907223719	3	10
125	2 TH6 L 06-10/M 05 S418	R908351214	3	10
125	2 TH6 M 06-10/M 05	R907223721	3	10
125	2 TH6 P 06-10/M 05	R907223723	3	10
125	2 TH6 P 06-10/M 05 S418	R908351216	3	10
	2TH7 & 4TH7 – Hydraulic Pilot Controller			
126	2TH7Q06-1X/M05	R907142321	3	10
126	4TH7J06-1X/5M	R907143466	3	10
	4TH6 – Hydraulic Pilot Controller			
127	4TH6E06-1X/YU23/M05	R907229581	3	10
	Compact Hydraulics			
	VUCN – Check, poppet type			
128	VUCN-08A-00 043120005600000	R901007308	3	10
128	VUCN-08A-A0 0431200056A0000	R930006992	3	10
128	VUCN-10A-00 043123008500000	R901106596	3	10
	SELB – Shuttle, ball type			
129	049405005600000 SELB-08A	R901161981	3	10
	VSBN – Relief, direct acting guided poppet type			
130	VSBN-08A-S-35 041149735635000	R901113601	3	10
130	VSBN-10A-20 041155038520000	R901113610	3	10
130	VSBN-10A-35 041155038535000	R901115702	3	10
	VSDN – Relief, differential area direct acting poppet type			
131	VSDN-10A-10 041523038510000	R930005643	3	10
131	VSDN-10A-35 041523038535000	R930005644	3	10
	VSPN – Relief, pilot operated spool type			
132	VSPN-10A-20 041208038520000	R901097722	3	10
132	VSPN-10A-35 041208038535000	R901104103	3	10
132	VSPN-16A-20 041207032720000	R931001026	3	10
132	VSPN-16A-35 041207032735000	R931001027	3	10

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	VRPR – Pressure Reducing, direct acting spool type			
133	VRPR-10A-04-A 04950403850400A	R901102333	3	10
133	VRPR-10A-08-A 04950403850800A	R901109742	3	10
	VRPX – Pressure Reducing, pilot operated spool type			
134	VRPX-10A-10 049307038510000	R901104118	3	10
134	VRPX-10A-20 049307038520000	R901106468	3	10
	VSON – Check, pilot operated			
135	VSON-08U-G-00 043306102000000	R901104068	3	10
	VBSN – Counterbalance, differential area guided poppet type			
136	VBSN-08U-RS-1.5:1-P-20-A 045243312020000	R930006114	3	10
136	VBSN-08U-RS-1.5:1-P-35-A 045243312035000	R930006115	3	10
136	VBSN-08U-RS-3:1-10-A 045243032010000	R930006109	3	10
136	VBSN-08U-RS-3:1-20-A 045243032020000	R930006110	3	10
136	VBSN-08U-RS-3:1-35-A 045243032035000	R930006111	3	10
136	VBSN-08U-RS-8:1-20-A 045243102020000	R930006112	3	10
136	VBSN-08U-RS-8:1-35-A 045243102035000	R930006113	3	10
136	VBSN-12U-RS-2:1-P-20 045244428620000	R930006120	3	10
136	VBSN-12U-RS-2:1-P-35 045244428635000	R930006121	3	10
136	VBSN-12U-RS-4:1-20 045244038620000	R930006116	3	10
136	VBSN-12U-RS-4:1-35 045244038635000	R930006117	3	10
136	VBSN-12U-RS-8:1-20 045244108620000	R930006118	3	10
136	VBSN-12U-RS-8:1-35 045244108635000	R930006119	3	10
	VBSN - Counterbalance, guided poppet type			
137	VBSN-08UU-RS-4:1-20 045242102020000	R930006107	3	10
137	VBSN-08UU-RS-9:1-20-A 045242372020000	R930006108	3	10
	VBSP – Counterbalance, differential area relief compensated poppet type			
138	VBSP-08U-RS-3:1-20-A 045415032020000	R930006122	3	10
138	VBSP-08U-RS-3:1-35-A 045415032035000	R930006123	3	10
138	VBSP-12U-RS-4:1-20 045416038620000	R930006124	3	10
138	VBSP-12U-RS-4:1-35 045416038635000	R930006125	3	10
	VST-C – Flow Control, cartridge restrictor			
139	VSTXX06CA.18X03 OD21010356	R901109366	3	10
139	VSTXX09CA.36X03 OD210103360000	R901109830	3	10
	STVU – Needle Restrictor, free reverse flow			
140	040105038500000, STVU-10A	R930005606	3	10
	STFU – Needle Restrictor, fine adjustment free reverse flow			
141	040106035600000, STFU	R930001067	3	10
	VED – Solenoid Operated Valve, 3/2			
142	OD1310513000000 (Alt code OD1310511A0000)	R901126871	3	10
142	OD1310777000000 (Alt code OD1310771A0000)	R901113686	3	10
	VED – Solenoid Operated Valve , 4/3			
143	OD1431788000000 (Alt code OD1410782A0000)	R901113701	3	10
143	OD1432788000000 (Alt code OD1420782A0000)	R901113706	3	10


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	VEI – Solenoid Operated Valve, 2/2 normally closed			
144	VEI8A2A06.18K05.3ANCC218S OD1505183AS000	R901083058	3	10
144	VEI8A2A09.36K05.3ANCC222S OD1505363AS000	R901090947	3	10
144	VEI8A2A12.75K05.3ANCC225S OD1505753AS000	R901094745	3	10
144	VEI8A2T06.18K31.3ANCC218S OD1531183AS000	R901082015	3	10
	VEI – Solenoid Operated Valve, 2/2 normally open			
145	VEI8A2A06.18K06.1ANAC218S OD1506181AS000	R901091130	3	10
145	VEI8A2A09.36K06.1ANAC220S OD1506361AS000	R901080489	3	10
145	VEI8A2A12.75K06.1ANAC225S OD1506751AS000	R901095953	3	10
145	VEI8A2T06.18K32.1ANAC220S OD1532181AS000	R901091171	3	10
	TA-00 – Inlet Plate, basic			
146	TA0056	R987271816	10	10
	TA-04 – Inlet Plate, relief			
147	TA04562D	R987271818	10	10
	TA-05 – Inlet Plate, relief & dump			
148	TA05562P0000A	R987271843	10	10
	TA-06 – Inlet Plate, compensator			
149	TA06563D170	R978056725	10	10
	TC... – Exit Plate, basic			
150	TC-00-00-00-AL	R933003326	10	10
	L8 – Directional Valve Elements, 4/3, 4/2, proportional controls			
151	L8010A201000030	R933003502	10	10
151	L8010B201000030	R933002825	10	10
151	L8010E201000030	R933003504	10	10
151	L8011A201000030	R933003612	10	10
151	L8011B201000030	R933002824	10	10
151	L8011E201000030	R933003457	10	10
151	L8410B201000030	R933003509	10	10
151	L8410E201000030	R933003600	10	10
151	L8411B201000030	R933003616	10	10
151	L8411E201000030	R933003617	10	10
	L8 – Directional Valve Elements, 4/3, 4/2, proportional controls			
152	L8080B2S6000030	R933003627	10	10
152	L8080E2I6000030	R933009115	10	10
152	L8480B2S6000030	R933003633	10	10
152	L8480E2I6000030	R933009116	10	10
	L8 – Directional Valve Elements, 4/3, 4/2, proportional flow sharing			
153	L8580B2S8000030HA	R933009099	10	10
153	L8580B2S80000M0HA	R933008997	10	10
153	L8580B2S900003000	R933009060	10	10
153	L8580E2S900003000	R933009068	10	10

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	L8 – Stacking Modules			
154	L884A00AB010030 Pilot operated check	R987271883	10	10
155	L886A020AS20030 Cross-over relief	R987273979	10	10
155	L886A02ABS10030 Cross-over relief	R987273975	10	10
155	L886A02ABS20030 Cross-over relief	R987273976	10	10
156	L885A010A2K0030 Flow control	R987273965	10	10
157	L8835A20A20S330 Counterbalance	R987273961	10	10
157	L8835A2AB20S330 Counterbalance	R987273959	10	10
	D8 – Directional Valve Elements, 4/3, 4/2			
158	D845B2010000D000V1-KE.EDD-LS-XZ-SAE10-B&	R930051041	5	10
158	D845E2010000D000V1-KE.EDD-LS-XZ-SAE10-E&	R930051044	5	10
158	D805B2010000D00000	R930052734	5	10
158	D805B2010000DTT000	R930052730	5	10
158	D805E2010000D00000	R930052760	5	10
158	D805E2010000DTT000	R930052762	5	10
158	D845B2010000D00000	R930052744	5	10
158	D845B2010000DTT000	R930052751	5	10
158	D845E2010000D00000	R930052764	5	10
158	D845E2010000DTT000	R930052766	5	10
	L7 – Flow Diverter 3/2			
159	L706E143NIOB070	R933001723	10	10
	3/2 Flow Diverter			
160	L732C116BIOB010-S.VS245F1-SAE8-DZ-P1C1N&	R933000010	10	10
160	L745D136BIO0000-KS.VS285F1-SAE10-DZ-P1C&	R933000013	10	10
160	L745D136BIOB070	R933002063	10	10
				
	Power Packs and Motor Pump Groups			
	Power Packs, Fixed Displacement			
161	PP10/G2005/2BM1	R978931253	3	10
161	PP10/G2005/3BM1	R978931277	3	10
161	PP10/G2005/5BM1	R978931297	3	10
161	PP10/G2008/2BM1	R978931426	3	10
161	PP10/G2008/3BM1	R978931450	3	10
161	PP10/G2008/5BM1	R978931470	3	10
161	PP10/G2008/7.5BM1	R978931490	3	10
161	PP20/G2011/10BM1	R978932366	3	10
161	PP20/G2011/3BM1	R978932408	3	10
161	PP20/G2011/5BM1	R978932429	3	10
161	PP20/G2011/7.5BM1	R978932451	3	10
161	PP20/G2016/10BM1	R978932508	3	10
161	PP20/G2016/5BM1	R978932614	3	10
161	PP20/G2016/7.5BM1	R978932635	3	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
161	PP5/G2004/2BM1	R978932910	3	10
161	PP5/G2004/3BM1	R978932932	3	10
161	PP5/G2004/5BM1	R978932952	3	10
161	PP5/G2005/2BM1	R978933040	3	10
161	PP5/G2005/3BM1	R978933062	3	10
161	PP5/G2005/5BM1	R978933083	3	10
	Close-Coupled Motor Pump Groups			
162	MPGB002HTYZ4DEOFS1HAZPF12004K1NN	R978020520	3	10
162	MPGB002HTYZ4DEOFS1HAZPF12005K1NN	R978020524	3	10
162	MPGB002HTYZ4DEOFS1HAZPF12008K1NN	R978020530	3	10
162	MPGB003HTYZ4DEOFS1HAZPF12004K1NN	R978020521	3	10
162	MPGB003HTYZ4DEOFS1HAZPF12005K1NN	R978020525	3	10
162	MPGB003HTYZ4DEOFS1HAZPF12008K1NN	R978020531	3	10
162	MPGB003HTYZ4DEOFS1HAZPF12011K1NN	R978020537	3	10
162	MPGB005HTYZ4DEOFS1HAZPF12004K1NN	R978020522	3	10
162	MPGB005HTYZ4DEOFS1HAZPF12005K1NN	R978020526	3	10
162	MPGB005HTYZ4DEOFS1HAZPF12008K1NN	R978020532	3	10
162	MPGB005HTYZ4DEOFS1HAZPF12011K1NN	R978020538	3	10
162	MPGB005HTYZ4DEOFS1HAZPF12016K1NN	R978020542	3	10
162	MPGB010HTYZ4DEOFS1HAZPF12011K1NN	R978020732	3	10
162	MPGB010HTYZ4DEOFS1HAZPF12016K1NN	R978020544	3	10
162	MPGB7.5HTYZ4DEOFS1HAZPF12008K1NN	R978020533	3	10
162	MPGB7.5HTYZ4DEOFS1HAZPF12011K1NN	R978020731	3	10
162	MPGB7.5HTYZ4DEOFS1HAZPF12016K1NN	R978020543	3	10
	Close-Coupled Motors			
163	MTRB10H1450/1800R215TYZ50/60HZ F1 SAE A	R978020358	3	5
163	MTRB2H1450/1800R145TYZ50/60HZ F1 SAE A	R978020354	3	5
163	MTRB3H1450/1800R145TYZ50/60HZ F1 SAE A	R978020355	3	5
163	MTRB5H1450/1800R184TYZ50/60HZ F1 SAE A	R978020356	3	5
163	MTRB7.5H1450/1800R213TYZ50/60HZ F1 SAE A	R978020357	3	5
	Pre-assembled Filter/Cooler			
164	MFC3HLB1.0H4/DEOFAF/011030S/09003AJ	R978026410	3	5
164	MFC3HLB1.0H4/DEOFAF/011030S/09003JJ	R978026411	3	5
164	MFC3HLB1.0H4/DEOFAF/011030S/09010AJ	R978052055	3	10
164	MFC3HLB1.0H4/DEOFAF/011030S/09010JJ	R978052056	3	10
164	MFC3HLB1.0H4/DEOFAF/016030S/09003AJ	R978026412	3	5
164	MFC3HLB1.0H4/DEOFAF/016030S/09003JJ	R978026413	3	5
164	MFC3HLB1.0H4/DEOFAF/016030S/09010AJ	R978052057	3	10
164	MFC3HLB1.0H4/DEOFAF/016030S/09010JJ	R978052058	3	10
164	MFC3HLB2.0H4/DEOFAF/022030S/09003AJ	R978026418	3	5
164	MFC3HLB2.0H4/DEOFAF/022030S/09003JJ	R978026419	3	5
164	MFC3HLB2.0H4/DEOFAF/022030S/09010AJ	R978052061	3	10
164	MFC3HLB2.0H4/DEOFAF/022030S/09010JJ	R978052062	3	10


1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
164	MFC3HLB2.0H4/DEOF AF/028030S/09003AJ	R978026420	3	10
164	MFC3HLB2.0H4/DEOF AF/028030S/09003JJ	R978026421	3	10
164	MFC3HLB2.0H4/DEOF AF/028030S/09010AJ	R978052063	3	10
164	MFC3HLB2.0H4/DEOF AF/028030S/09010JJ	R978052064	3	10
164	MFC3HRB1.0H4/DEOF AF/011030S/09003AJ	R978026374	3	10
164	MFC3HRB1.0H4/DEOF AF/011030S/09003JJ	R978026375	3	10
164	MFC3HRB1.0H4/DEOF AF/011030S/09010AJ	R978052031	3	10
164	MFC3HRB1.0H4/DEOF AF/011030S/09010JJ	R978052032	3	10
164	MFC3HRB1.0H4/DEOF AF/016030S/09003AJ	R978026376	3	10
164	MFC3HRB1.0H4/DEOF AF/016030S/09003JJ	R978026377	3	10
164	MFC3HRB1.0H4/DEOF AF/016030S/09010AJ	R978052033	3	10
164	MFC3HRB1.0H4/DEOF AF/016030S/09010JJ	R978052034	3	10
164	MFC3HRB2.0H4/DEOF AF/022030S/09003AJ	R978026382	3	10
164	MFC3HRB2.0H4/DEOF AF/022030S/09003JJ	R978026383	3	5
164	MFC3HRB2.0H4/DEOF AF/022030S/09010AJ	R978052037	3	10
164	MFC3HRB2.0H4/DEOF AF/022030S/09010JJ	R978052038	3	10
164	MFC3HRB2.0H4/DEOF AF/028030S/09003AJ	R978026384	3	5
164	MFC3HRB2.0H4/DEOF AF/028030S/09003JJ	R978026385	3	5
164	MFC3HRB2.0H4/DEOF AF/028030S/09010AJ	R978052039	3	10
164	MFC3HRB2.0H4/DEOF AF/028030S/09010JJ	R978052040	3	10
164	MFC3VLB1.0H4/DEOF AF/011030S/09003AJ	R978026338	3	10
164	MFC3VLB1.0H4/DEOF AF/011030S/09003JJ	R978026339	3	10
164	MFC3VLB1.0H4/DEOF AF/011030S/09010AJ	R978052007	3	10
164	MFC3VLB1.0H4/DEOF AF/011030S/09010JJ	R978052008	3	10
164	MFC3VLB1.0H4/DEOF AF/016030S/09003AJ	R978026340	3	10
164	MFC3VLB1.0H4/DEOF AF/016030S/09003JJ	R978026341	3	10
164	MFC3VLB1.0H4/DEOF AF/016030S/09010AJ	R978052009	3	10
164	MFC3VLB1.0H4/DEOF AF/016030S/09010JJ	R978052010	3	10
164	MFC3VLB2.0H4/DEOF AF/022030S/09003AJ	R978026346	3	10
164	MFC3VLB2.0H4/DEOF AF/022030S/09003JJ	R978026347	3	10
164	MFC3VLB2.0H4/DEOF AF/022030S/09010AJ	R978052013	3	10
164	MFC3VLB2.0H4/DEOF AF/022030S/09010JJ	R978052014	3	10
164	MFC3VLB2.0H4/DEOF AF/028030S/09003AJ	R978026348	3	10
164	MFC3VLB2.0H4/DEOF AF/028030S/09003JJ	R978026349	3	10
164	MFC3VLB2.0H4/DEOF AF/028030S/09010AJ	R978052015	3	10
164	MFC3VLB2.0H4/DEOF AF/028030S/09010JJ	R978052016	3	10
164	MFC3VRB1.0H4/DEOF AF/011030S/09003AJ	R978026302	3	10
164	MFC3VRB1.0H4/DEOF AF/011030S/09003JJ	R978026303	3	10
164	MFC3VRB1.0H4/DEOF AF/011030S/09010AJ	R978051983	3	10
164	MFC3VRB1.0H4/DEOF AF/011030S/09010JJ	R978051984	3	10
164	MFC3VRB1.0H4/DEOF AF/016030S/09003AJ	R978026304	3	10
164	MFC3VRB1.0H4/DEOF AF/016030S/09003JJ	R978026305	3	10
164	MFC3VRB1.0H4/DEOF AF/016030S/09010AJ	R978051985	3	10


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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
164	MFC3VRB1.0H4/DEOF AF/016030S/09010JJ	R978051986	3	10
164	MFC3VRB2.0H4/DEOF AF/022030S/09003AJ	R978026310	3	10
164	MFC3VRB2.0H4/DEOF AF/022030S/09003JJ	R978026311	3	10
164	MFC3VRB2.0H4/DEOF AF/022030S/09010AJ	R978051989	3	10
164	MFC3VRB2.0H4/DEOF AF/022030S/09010JJ	R978051990	3	10
164	MFC3VRB2.0H4/DEOF AF/028030S/09003AJ	R978026312	3	10
164	MFC3VRB2.0H4/DEOF AF/028030S/09003JJ	R978026313	3	10
164	MFC3VRB2.0H4/DEOF AF/028030S/09010AJ	R978051991	3	10
164	MFC3VRB2.0H4/DEOF AF/028030S/09010JJ	R978051992	3	10
				
	Accumulators			
	Bladder-Type Accumulators			
165	ACCUM CHARGE KIT HAB-5X 3K AND 5K	R978046091	3	10
165	ACCUM CLAMP HAB-5X 10-50L 3K PSI	R978044766	3	10
165	ACCUM GAUGE BLK HAB-5X 10-50L ASME 3KPSI	R978048584	3	10
165	ACCUM GAUGE BLK HAB-5X 10-50L ASME 5KPSI	R978048583	3	10
165	CLAMPING BANDTIGHT 110-120 MM	1531316021	3	10
165	CLAMPING BANDTIGHT 160-170 MM	1531316022	3	10
165	HAB10-207-5X/1U09G-6N111-ASME	R978045724	3	10
165	HAB10-207-5X/1U09G-6N111-CRN	R978050333	3	10
165	HAB1-207-5X/1U14G-6N111-ASME	R978045719	3	10
165	HAB20-207-5X/1U09G-6N111-ASME	R978045736	3	10
165	HAB20-207-5X/1U09G-6N111-CRN	R978050334	3	10
165	HAB35-207-5X/1U09G-6N111-ASME	R978045748	3	10
165	HAB35-207-5X/1U09G-6N111-CRN	R978050335	3	10
165	HAB4-207-5X/1U08G-6N111-ASME	R978045721	3	10
165	HAB50-207-5X/1U09G-6N111-ASME	R978045766	3	10
165	HAB50-207-5X/1U09G-6N111-CRN	R978050332	3	10
	Diaphragm-Type Accumulators			
166	1530221042RUBBERBACKRING	1530221042	3	10
166	1531316005ACCUMULATORCLAMP	1531316005	3	10
166	1531334008BRACKET	1531334008	3	10
166	ACCUM CHARGE KIT FOR HAD UNITS WITH GAS VALVE TYPE 2	0538103013	3	10
166	HAD0,075-250-1X/0U12C-2N111-USA	0531610632	3	10
166	HAD0,16-250-1X/0F02A-2N111-USA	0531600600	3	10
166	HAD0,16-250-1X/0U12C1-2N111-USA	0531600611	3	10
166	HAD0,35-160-1X/0F08A-2N111-USA	0531601533	3	10
166	HAD0,35-160-1X/0U04A-2N111-USA	0531601549	3	10
166	HAD0,7-207-1X/0F08A-2N111-USA	0531602581	3	10
166	HAD0,35-207-1X/0U04A-2N111-USA	0531601572	3	10
166	HAD1,4-207-1X/0U04C-2N111-USA	0531603501	3	10
166	HAD2,8-207-1X/0F08C-2N111-USA	0531613500	3	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
				
	Filtration Systems			
	10 TEN – Return Line Filters & Filter Elements			
167	1.0040 H10XL-A00-0-M	R928005837	5	1
167	1.0063 H10XL-A00-0-M	R928005855	5	1
167	1.0063 H16XL-A00-0-M	R928028571	5	1
167	1.0100 H10XL-A00-0-M	R928005873	5	1
167	1.0100 H16XL-A00-0-M	R928028572	5	1
167	1.0160 H10XL-A00-0-M	R928005891	5	1
167	1.0250 H10XL-A00-0-M	R928005927	5	1
167	1.0400 H10XL-A00-0-M	R928005963	5	1
167	1.0630 H10XL-A00-0-M	R928005999	5	1
167	1.1000 H10XL-A00-0-M	R928006035	5	1
167	71.001 P5-S00-0-0	R928019705	5	1
167	10TEN0040-H10XLA00-V2.2-M-U4	R928040132	3	10
167	10TEN0040-H10XLA00-V2.2-M-U4-F	R928036298	3	10
167	10TEN0063-H10XLA00-V2.2-M-U9	R928040133	3	10
167	10TEN0063-H10XLA00-V2.2-M-U9-F	R928036321	3	10
167	10TEN0100-H10XLA00-V2.2-M-R4	R928019846	3	10
167	10TEN0100-H10XLA00-V2.2-M-U9	R928040134	3	10
167	10TEN0100-H10XLA00-V2.2-M-U9-F	R928036322	3	10
167	10TEN0160-H10XLA00-P2,2-M-U6	R928044981	3	10
167	10TEN0250-H10XLA00-P2,2-M-U6	R928046773	3	10
167	10TEN0400-H10XLA00-P2,2-M-S8	R928041281	3	10
167	10TEN0630-H10XLA00-P2,2-M-S9	R928041283	3	10
167	10TEN1000-H10XLA00-P2,2-M-S10	R928041285	3	10
167	ACC-R-10TEN0040-0100-R110 (Discharge tube 110 mm long)	R928038744	3	10
167	ACC-R-10TEN0040-0100-R150 (Discharge tube 150 mm long)	R928038745	3	10
167	ACC-R-10TEN0040-0100-R250 (Discharge tube 250 mm long)	R928038746	3	10
167	M010 0-6 BAR (Gauge)	R928019224	5	5
	50LE – Inline Filter with Filter Element			
168	2.0130 H10XL-A00-0-M	R928022276	5	1
168	2.0150 H10XL-A00-0-M	R928022285	5	1
168	2.0130 H3XL-A00-0-M	R928022274	5	1
168	2.0150 H3XL-A00-0-M	R928022283	5	1
168	50LE0130-H10XLA00-V5,0-M-U9	R928050745	3	10
168	50LE0130-H3XLA00-V5,0-M-U9	R928050772	3	10
168	50LE0150-H10XLA00-V5,0-M-U9	R928050824	3	10
168	50LE0150-H3XLA00-V5,0-M-U9	R928050852	3	10
168	WE-1SP-M12Z1	R928028409	3	5
168	WE-2SP-M12X1	R928028410	3	5
168	WE-2SPSU-M12X1	R928028411	3	5
168	Plug-in connector for WE type indicator	R900031155	3	5

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
	110LEN, 110LE – Inline Filter with Filter Element			
169	2.0040 H10XL-A00-0-M	R928006647	5	1
169	2.0063 H10XL-A00-0-M	R928006701	5	1
169	2.0100 H10XL-A00-0-M	R928006755	5	1
169	2.0160 H10XL-A00-0-M	R928006809	5	1
169	2.0250 H10XL-A00-0-M	R928006863	5	1
169	2.0400 H10XL-A00-0-M	R928006917	5	1
169	2.0150 H10XL-A00-0-M	R928022285	5	1
169	110LE0150-H10XLA00-V5,0-M-U9	R928046927	3	10
169	110LEN0040-H10XLA00-V5,0-M-U4	R928046923	3	10
169	110LEN0063-H10XLA00-V5,0-M-U4	R928046924	3	10
169	110LEN0100-H10XLA00-V5,0-M-U4	R928046925	3	10
169	110LEN0160-H10XLA00-V5,0-M-U6	R928050465	3	10
169	110LEN0250-H10XLA00-V5,0-M-U6	R928046929	3	10
169	110LEN0400-H10XLA00-V5,0-M-U6	R928046930	3	10
169	WE-1SP-M12Z1	R928028409	3	5
169	WE-2SP-M12X1	R928028410	3	5
169	WE-2SPSU-M12X1	R928028411	3	5
169	Plug-in connector for WE type indicator	R900031155	3	5
	245 LE(N) – Pressure Line Filters & Filter Elements			
170	2.0040 H10XL-A00-0-M	R928006647	5	1
170	2.0063 H10XL-A00-0-M	R928006701	5	1
170	2.0100 H10XL-A00-0-M	R928006755	5	1
170	2.0160 H10XL-A00-0-M	R928006809	5	1
170	2.0250 H10XL-A00-0-M	R928006863	5	1
170	2.0400 H10XL-A00-0-M	R928006917	5	1
170	2.0130 H10XL-A00-0-M	R928022276	5	1
170	2.0150 H10XL-A00-0-M	R928022285	5	1
170	245 LE 0130-H10XLA00-V5.0-M-U5	R928030731	3	10
170	245 LE 0150-H10XLA00-V5.0-M-U5	R928030732	3	10
170	245 LEN 0040-H10XLA00-V5.0-M-U3	R928030728	3	10
170	245 LEN 0063-H10XLA00-V5.0-M-U4	R928030729	3	10
170	245 LEN 0100-H10XLA00-V5.0-M-U4	R928030730	3	10
170	245 LEN 0160-H10XLA00-V5.0-M-U6	R928030733	3	10
170	245 LEN 0250-H10XLA00-V5.0-M-U6	R928030734	3	10
170	245 LEN 0400-H10XLA00-V5.0-M-U6	R928030735	3	10
170	245LEN0160-H10XLA00-V5,0-M-S6	R928030669	3	10
170	245LEN0250-H10XLA00-V5,0-M-S6	R928030670	3	10
170	245LEN0400-H10XLA00-V5,0-M-S6	R928030671	3	10
170	WE-2SP-M12X1	R928028410	3	5
	350 – LEN Line Filter			
171	2.0040H10XL-A00-0-M	R928006647	5	1
171	2.0063H10XL-A00-0-M	R928006701	5	1
171	2.0100 H10XL-A00-0-M	R928006755	5	1

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
171	2.0130H10XL-A00-0-M	R928022276	5	1
171	2.0150H10XL-A00-0-M	R928022285	5	1
171	2.0160H10XL-A00-0-M	R928006809	5	1
171	2.0160H10XL-B00-0-M	R928006818	5	1
171	2.0250H10XL-A00-0-M	R928006863	5	1
171	2.0250H10XL-B00-0-M	R928006872	5	1
171	2.0400H10XL-A00-0-M	R928006917	5	1
171	2.0400H10XL-B00-0-M	R928006926	5	1
171	2.0630H10XL-A00-0-M	R928006971	5	1
171	2.1000H10XL-A00-0-M	R928007025	5	1
171	350LE0130-H10XLA00-V5,0-M-U5	R928033731	3	10
171	350LE0150-H10XLA00-V5,0-M-U5	R928033732	3	10
171	350LEN0040-H10XLA00-V5,0-M-U3	R928033728	3	10
171	350LEN0063-H10XLA00-V5,0-M-U4	R928033729	3	10
171	350LEN0100-H10XLA00-V5,0-M-U4	R928033730	3	10
171	350LEN0160-H10XLA00-V5,0-M-S6	R928033669	3	10
171	350LEN0160-H10XLA00-V5,0-M-U6	R928033733	3	10
171	350LEN0160-H10XLB00-V5,0-M-S6	R928033677	3	10
171	350LEN0160-H10XLB00-V5,0-M-U6	R928033741	3	10
171	350LEN0250-H10XLA00-V5,0-M-S6	R928033670	3	10
171	350LEN0250-H10XLA00-V5,0-M-U6	R928033734	3	10
171	350LEN0250-H10XLB00-V5,0-M-S6	R928033678	3	10
171	350LEN0250-H10XLB00-V5,0-M-U6	R928033742	3	10
171	350LEN0400-H10XLA00-V5,0-M-S6	R928033671	3	10
171	350LEN0400-H10XLA00-V5,0-M-U6	R928033735	3	10
171	350LEN0400-H10XLB00-V5,0-M-S6	R928033679	3	10
171	350LEN0400-H10XLB00-V5,0-M-U6	R928033743	3	10
171	350LEN0630-H10XLA00-V5,0-M-S8	R928034512	3	10
171	350LEN1000-H10XLA00-V5,0-M-S8	R928034513	3	10
171	WE-1SP-M12Z1	R928028409	3	5
171	WE-2SP-M12X1	R928028410	3	5
171	WE-2SPSU-M12X1	R928028411	3	5
171	Plug-in connector for WE type indicator	R900031155	3	5
	245 PSF(N) – Manifold Mount Pressure Filters & Filter Elements			
172	2.0040 H10XL-B00-0-M	R928006656	5	1
172	2.0063 H10XL-B00-0-M	R928006710	5	1
172	2.0100 H10XL-B00-0-M	R928006764	5	1
172	2.0130 H10XL-B00-0-M	R928022312	5	1
172	2.0150 H10XL-B00-0-M	R928022321	5	1
172	2.0160 H10XL-B00-0-M	R928006818	5	1
172	2.0250 H10XL-B00-0-M	R928006872	5	1
172	2.0400 H10XL-B00-0-M	R928006926	5	1
172	245 PSF 0130-H10XLB00-V5.0-M	R928024395	3	10
172	245 PSF 0150-H10XLB00-V5.0-M	R928024396	3	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
172	245 PSFN 0040-H10XLB00-V5.0-M	R928024392	3	10
172	245 PSFN 0063-H10XLB00-V5.0-M	R928024393	3	10
172	245 PSFN 0100-H10XLB00-V5.0-M	R928024394	3	10
172	245 PSFN 0160-H10XLB00-V5.0-M	R928024397	3	10
172	245 PSFN 0250-H10XLB00-V5.0-M	R928024398	3	10
172	245 PSFN 0400-H10XLB00-V5.0-M	R928024399	3	10
172	WE-2SP-M12X1	R928028410	3	5
	350 PSF(N) – Manifold Mount Pressure Filters & Filter Elements			
173	2.0130 H10XL-B00-0-M	R928022312	5	1
173	2.0150 H10XL-B00-0-M	R928022321	5	1
173	2.0160 H10XL-B00-0-M	R928006818	5	1
173	2.0250 H10XL-B00-0-M	R928006872	5	1
173	2.0400 H10XL-B00-0-M	R928006926	5	1
173	2.0630 H10XL-B00-0-M	R928006980	5	1
173	2.1000 H10XL-B00-0-M	R928007034	5	1
173	350 PSF 0130-H10XLB00-V5.0-M	R928026493	3	10
173	350 PSF 0150-H10XLB00-V5.0-M	R928026494	3	10
173	350 PSFN 0160-H10XLB00-V5.0-M	R928026495	3	10
173	350 PSFN 0250-H10XLB00-V5.0-M	R928026496	3	10
173	350 PSFN 0400-H10XLB00-V5.0-M	R928026497	3	10
173	350 PSFN 0630-H10XLB00-V5.0-M	R928026498	3	10
173	350 PSFN 1000-H10XLB00-V5.0-M	R928026499	3	10
173	WE-2SP-M12X1	R928028410	3	5
	450 PBFN – Manifold Mount Pressure Filters & Filter Elements			
174	2.0040 H3XL-B00-0-M	R928006654	5	1
174	2.0063 H3XL-B00-0-M	R928006708	5	1
174	2.0100 H3XL-B00-0-M	R928006762	5	1
174	2.0130 H3XL-B00-0-M	R928022310	5	1
174	2.0150 H3XL-B00-0-M	R928022319	5	1
174	2.0160 H3XL-B00-0-M	R928006816	5	1
174	2.0250 H3XL-B00-0-M	R928006870	5	1
174	2.0400 H3XL-B00-0-M	R928006924	5	1
174	2.0630 H3XL-B00-0-M	R928006978	5	1
174	2.1000 H3XL-B00-0-M	R928007032	5	1
174	450 PBFN 0040-H3XLB00-V5.0-M	R928023331	3	10
174	450 PBFN 0063-H3XLB00-V5.0-M	R928023332	3	10
174	450 PBFN 0100-H3XLB00-V5.0-M	R928023333	3	10
174	450 PBFN 0130-H3XLB00-V5.0-M	R928023334	3	10
174	450 PBFN 0150-H3XLB00-V5.0-M	R928023335	3	10
174	450 PBFN 0160-H3XLB00-V5.0-M	R928023336	3	10
174	450 PBFN 0250-H3XLB00-V5.0-M	R928023337	3	10
174	450 PBFN 0400-H3XLB00-V5.0-M	R928023338	3	10
174	450 PBFN 0630-H3XLB00-V5.0-M	R928023339	3	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
174	450 PBFN 1000-H3XLB00-V5.0-M	R928023340	3	10
174	WE-2SP-M12X1	R928028410	3	5
	BFSK-2X – Desiccant Air Breather			
175	Adapter G 1-1/4 female to male G 1	R978918035	3	10
175	89.125-2X/H3V3-S00-0-M	R928049577	5	1
175	89.25-2X/H3V3-S00-0-M	R928049574	5	1
175	89.40-2X/H3V3-S00-0-M	R928049575	5	1
175	89.80-2X/H3V3-S00-0-M	R928049576	5	1
175	BFSK125-2X/H3V3-M-S-CV	R928049176	3	10
175	BFSK25-2X/H3V3-M-0-CV	R928049168	3	10
175	BFSK40-2X/H3V3-M-S-CV	R928049172	3	10
175	BFSK80-2X/H3V3-M-S-CV	R928049174	3	10
175	SPR-SP-BFSK125-2X/	R928049186	3	10
175	SPR-SP-BFSK40-2X/	R928049184	3	10
175	SPR-SP-BFSK80-2X/	R928049185	3	10
	Breather Filters			
176	7.004 H10XL-S00-0-M	R928035939	5	1
176	7.004 H3XL-S00-0-M	R928036781	5	1
176	7.006 H10XL-S00-0-M	R928016626	5	1
176	80.130 P10-S00-0-M	R928016615	5	1
176	80.45/21 P10-S00-0-M	R928016609	5	1
176	BF 7 SL 130 P10-S00-000-00M00	R928018790	3	10
176	BF 7 SL 45/21 P10-S00-000-00M00	R928018784	3	10
176	BF 7 SL 90 P10-S00000-00M00	R928018787	3	10
176	BFS20 P10-F00	R928022920	3	10
176	FEF0 S10-F00	R928018808	3	10
176	FEF1 P10-F00	R928018811	3	10
176	TLFI 5-65H10XL-S00-000-00M00	R928018828	3	10
176	TLFI 5-65H3XL-S00-000-00M00	R928041318	3	10
176	TLFI 6-80H10XL-S00-000-00M00	R928018831	3	10
176	TLFIII 5-65H10XL-S00-000-00M00	R928018870	3	10
176	TLFIII 5-65H3XL-S00-000-00M00	R928036735	3	10
176	TLFIII 6-80H10XL-S00-000-00M00	R928018873	3	10
	GTAK – Fluid Monitoring			
177	Fluid Analysis Kit & Bottle	R913039221	3	10
	Popular Cross-over Filter Elements			
178	1.0045 G25-A00-0-M	R928005636	5	1
178	1.0045 H10XL-A00-0-M	R928005639	5	1
178	1.0045 H20XL-A00-0-M	R928005640	5	1
178	1.0060 G25-A00-0-M	R928005672	5	1
178	1.1401 G40-A00-0-M	R928045173	5	1
178	2.0005 G40-A00-0-V	R928045584	5	1
178	2.0020 G25-A00-0-M	R928006374	5	1

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
178	2.0020 H6XL-A00-0-M	R928006376	5	1
178	2.0063 H3XL-A00-0-M	R928006699	5	1
178	2.0100 H10XL-A00-0-M	R928006755	5	1
178	2.0100 H10XL-B00-0-M	R928006764	5	1
178	2.0250 H3XL-A00-0-M	R928006861	5	1
178	2.0250 H6XL-A00-0-M	R928006862	5	1
178	2.0250 H6XL-B00-0-M	R928006871	5	1
178	2.56 P10-A00-0-M	R928019029	5	1
178	2.90 H10XL-C00-0-M	R928025500	5	1
178	4.06 P10-A00-0-M	R928022781	5	1
178	4.10 G200-A00-0-M	R928028012	5	1
178	9.110LA H10XL-A00-0-M SO3000	R928017144	5	1
178	9.110LA H10XL-A00-0-V SO3000	R928022425	5	1
178	9.110LA H10XL-F00-0-MSO3000	R928017152	5	1
178	9.110LA H20XL-A00-0-MSO3000	R928017143	5	1
178	9.110LA H3XL-F00-0-M SO3000	R928017154	5	1
178	9.110LA H6XL-A00-0-M SO3000	R928017145	5	1
178	9.110LA H6XL-F00-0-MSO3000	R928017153	5	1
178	9.1320LA H6XL-F00-0-M	R928025333	5	1
178	9.160LA H10XL-A00-0-M SO3000	R928017210	5	1
178	9.160LA H10XL-F00-0-MSO3000	R928017218	5	1
178	9.160LA H20XL-F00-0-MSO3000	R928017217	5	1
178	9.160LA H3XL-F00-0-M SO3000	R928017220	5	1
178	9.160LA H6XL-A00-0-MSO3000	R928017211	5	1
178	9.160LA H6XL-F00-0-MSO3000	R928017219	5	1
178	9.240 G25-A00-0-M	R928017221	5	1
178	9.240LA H10XL-A00-0-M SO3000	R928017243	5	1
178	9.240LA H10XL-F00-0-M SO3000	R928017251	5	1
178	9.240LA H20XL-A00-0-MSO3000	R928017242	5	1
178	9.240LA H20XL-F00-0-MSO3000	R928017250	5	1
178	9.240LA H3XL-A00-0-MSO3000	R928017245	5	1
178	9.240LA H3XL-F00-0-M SO3000	R928017253	5	1
178	9.240LA H6XL-A00-0-MSO3000	R928017244	5	1
178	9.280LA H10XL-A00-0-M SO3000	R928017276	5	1
178	9.280LA H20XL-A00-0-M SO3000	R928017275	5	1
178	9.280LA H6XL-A00-0-M SO3000	R928017277	5	1
178	9.30LA H10XL-A00-0-MSO3000	R928017074	5	1
178	9.30LA H10XL-F00-0-MSO3000	R928017086	5	1
178	9.30LA H20XL-F00-0-M SO3000	R928017085	5	1
178	9.30LA H3XL-F00-0-M SO3000	R928017088	5	1
178	9.330LA H10XL-A00-0-M SO3000	R928017309	5	1
178	9.330LA H10XL-F00-0-M SO3000	R928017317	5	1
178	9.330LA H20XL-A00-0-MSO3000	R928017308	5	1

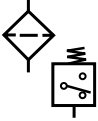
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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
178	9.330LA H3XL-A00-0-MSO3000	R928017311	5	1
178	9.330LA H3XL-F00-0-M SO3000	R928017319	5	1
178	9.330LA H6XL-A00-0-MSO3000	R928017310	5	1
178	9.330LA H6XL-F00-0-M SO3000	R928017318	5	1
178	9.500LA H20XL-A00-0-M SO3000	R928017374	5	1
178	9.60 G25-A00-0-V-0024	R928048442	5	1
178	9.60LA H10XL-A00-0-M SO3000	R928017111	5	1
178	9.60LA H10XL-F00-0-M SO3000	R928017119	5	1
178	9.60LA H3XL-F00-0-M SO3000	R928017121	5	1
178	9.60LA H6XL-F00-0-MSO3000	R928017120	5	1
178	9.660LA H10XL-A00-0-M SO3000	R928017408	5	1
178	9.660LA H10XL-F00-0-M SO3000	R928017416	5	1
178	9.660LA H20XL-A00-0-M SO3000	R928017407	5	1
178	9.660LA H20XL-F00-0-MSO3000	R928017415	5	1
178	9.660LA H3XL-F00-0-MSO3000	R928017418	5	1
178	9.660LA H6XL-F00-0-M SO3000	R928017417	5	1
178	9.990LA H10XL-F00-0-MSO3000	R928019176	5	1
178	10.110LA H10XL-A00-6-M SO3000	R928017483	5	1
178	10.1300 G25-000-6-M	R928017647	5	1
178	10.1300LA H10XL-A00-6-M SO3000	R928017667	5	1
178	10.1300LA H6XL-A00-6-M SO3000	R928017668	5	1
178	10.160LA H10XL-A00-6-M SO3000	R928017506	5	1
178	10.160LA H20XL-000-6-MSO3000	R928017505	5	1
178	10.160LA H6XL-000-6-MSO3000	R928017507	5	1
178	10.240 P10-000-6-M	R928017515	5	1
178	10.240LA H10XL-A00-6-M SO3000	R928017529	5	1
178	10.240LA H6XL-000-6-MSO3000	R928017530	5	1
178	10.2600LA H10XL-A00-0-M SO3000	R928037731	5	1
178	10.2600LA H3XL-000-6-MSO3000	R928017692	5	1
178	10.2600LA H6XL-000-6-MSO3000	R928017691	5	1
178	10.30LA H10XL-000-6-MSO3000	R928017437	5	1
178	10.330LA H10XL-A00-6-M SO3000	R928017552	5	1
178	10.330LA H10XL-A00-B6-M SO3000	R928035218	5	1
178	10.330LA H20XL-000-6-MSO3000	R928017551	5	1
178	10.330LA H6XL-000-6-MSO3000	R928017553	5	1
178	10.330P10-000-6-M	R928017538	5	1
178	10.500LA H10XL-A00-6-M SO3000	R928017575	5	1
178	10.500LAH20XL-000-6-MSO3000	R928017574	5	1
178	10.60LAH 10XL-000-6-MSO3000	R928017460	5	1
178	10.660LA H10XL-A00-6-M SO3000	R928017598	5	1
178	10.660LA H3XL-A00-6-MSO3000	R928017600	5	1
178	10.660LA H6XL-000-6-MSO3000	R928017599	5	1
178	10.850LA H10XL-000-6-MSO3000	R928017621	5	1

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178	10.950LA H10XL-000-6-MSO3000	R928017644	5	1
178	16.7400/R H20XL-S00-0-M	R928016662	5	1
178	16.7500/R H10XL-S00-0-M	R928016676	5	1
178	16.7500/R H6XL-S00-0-M	R928016674	5	1
178	16.7500/R P10-S00-0-M	R928019959	5	1
178	16.7500/S H10XL-S00-0-M	R928016677	5	1
178	16.7500/S H3XL-S00-0-M	R928016673	5	1
178	16.7500/S H6XL-S00-0-M	R928016675	5	1
178	16.8300/S H10XL-S00-0-V	R928016706	5	1
178	16.8304/U H6XL-S00-0-M	R928016716	5	1
178	16.8304/U H6XL-S00-0-V	R928016728	5	1
178	16.8304/X H6XL-S00-0-V	R928016729	5	1
178	16.8700/R H10XL-S00-0-M	R928016804	5	1
178	16.8900/TH10XL-S00-0-M	R928016827	5	1
178	16.9600/T H6XL-E00-0-M	R928016950	5	1
178	20.750 P25-S00-6-M	R928046179	5	1
178	62.0056K H10XL-J00-0-V	R902603750	5	1
178	62.0056K H20XL-J00-0-V	R902603298	5	1
178	62.0125K H20XL-J00-0-V	R902603243	5	1
178	62.0180K H20XL-J00-0-V	R902603004	5	1
178	80.130 H1XL-S00-0-M	R928037484	5	1
178	80.130 H6XL-S00-0-M	R928019201	5	1
178	80.30/20 P10-S00-0-V	R928028010	5	1
178	80.45/21 VS60-S00-0-M	R928028019	5	1
178	80.90 H10XL-S00-0-M	R928016614	5	1
178	80.90 P10-S00-0-M	R928016612	5	1
178	84.60 H10XL-S00-4-M	R928028556	5	1
178	99.183677 MB15-C00-0-M	R928022726	5	1
				
	Accessories			
	HED 8 – Hydroelectric Pressure Switch			
180	HED 8 OA-2X/100K14	R901102706	3	10
180	HED 8 OA-2X/100K14/12	R901106257	3	10
180	HED 8 OA-2X/200K14/12	R901106512	3	10
180	HED 8 OA-2X/350K14/12	R901107091	3	10
180	HED 8 OA-2X/350K14KW/12	R901107332	3	10
180	HED 8 OA-2X/50K14	R901101698	3	10
180	HED 8 OA-2X/50K14/12	R901107793	3	10
180	HED 8 OH-2X/100K14	R901102360	3	10
180	HED 8 OH-2X/200K14	R901099808	3	10
180	HED 8 OH-2X/200K14S	R901102362	3	10
180	HED 8 OH-2X/350K14	R901101640	3	10

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
180	HED 8 OH-2X/350K14S	R901102713	3	10
180	HED 8 OH-2X/50K14	R901102349	3	10
180	HED 8 OP-2X/100K14	R901102747	3	10
180	HED 8 OP-2X/100K14S	R901106509	3	10
180	HED 8 OP-2X/350K14	R901106453	3	10
180	HED 8 OP-2X/350K14AS	R901091138	3	10
	Rotary Angle Sensor			
181	ASSEMBLY KIT VT-SWA-1-1X/SYDFEE &	R900868651	5	5
	Subplates, Bolt Kits, & Electric Connectors			
182	3P RZ5 M24 240V	R901017025	10	10
182	3P RZ55 24	R900842566	10	10
182	3P RZ55L 24-2 SPEZ&	R900057455	10	10
182	3P Z4 M SW	R901017011	10	10
182	3P Z45 B GDM201	R900011039	10	10
182	3P Z55L 12-240V	R900057453	10	10
182	3P Z5L M12 240V	R901017022	10	10
182	3P Z5L1 M 24V SPEZ	R901017026	10	10
182	4P Z24M12X1 +3MSPEZ	R900064381	10	10
182	7P Z31 BF6-3PG11KSPEZ	R900021267	10	10
182	7P Z31 BF63PG11M SPEZ	R900223890	10	10
182	BK-(4) 1/4X20X1-1/2	R978833366	3	10
182	BK-(4) 1/4X20X1-3/4	R978833367	3	10
182	BK-(4) 10X24X2	R978833365	3	10
182	BK-(4) 3/8X16X2-1/4-(2)1/4X20X2-1/4 SHCS	R978833395	3	10
182	BK-(6) 1/2X13X2-1/2	R978833387	3	10
182	CONNECTION SOCKET (11P+PE / PG16 - Plastic mating connector for OBE valves – crimp technique)	1834484142	5	10
182	G 341/12	R900341065	3	10
182	G 342/12	R900455128	5	10
182	MS CONNECTOR FOR OBE VALVES	R978713598	3	10
182	SOCKET (6P+PE / PG11 - Plastic mating connector for OBE valves – soldering technique)	1834482022	5	10
182	SOCKET (11P+PE / PG16 - Plastic mating connector for OBE valves – crimping technique)	1834482026	5	10
	Coils & Handnuts-Directional Valves			
183	45-K4K-30G12 01	R901333224	3	10
183	GZ45-01M.N. SPEZ	R900029571	3	10
183	GZ45-3 12V	R900021462	3	10
183	GZ45-3 24V	R900021463	3	10
183	GZ45-4 24V	R900021389	3	10
183	GZ45C-01 SPEZ	R900029574	3	10
183	GZ63 M.VN.3K	R900019841	3	10
183	GZ63-3 12V	R900207929	3	10
183	GZ63-3 24V	R900217812	3	10

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183	GZ63-4 12V K4K	R900019792	3	10
183	GZ63-4 24V	R900019793	3	10
183	SOLENOID COIL 45-K4 -30G96 01	R901338900	3	10
183	SOLENOID COIL GZ63-K72L1 -35G24 S00	R901232758	3	5
183	WZ45-.-M.N. SPEZ	R900020169	3	10
183	WZ45-3 110V &	R900021464	3	10
183	WZ45-4-L110V-50/60HZ&	R900020175	3	10
183	WZ45-4-L110V50HZ+120V60HZ	R978839349	3	10
183	WZ45-4-MVN110V50/60+&	R900545268	3	10
183	WZ65-.-LM.VN. SPEZ	R900019840	3	10
183	WZ65-0-L110V-50/60HZ&	R900019801	3	10
183	WZ65-3 110V-50/ &	R900219602	3	10
183	WZ65-4-L110V-50/60HZ&	R900019816	3	10
	Bodies & Mounting Hardware – Compact Hydraulics			
185	BOLT KIT K-2221A MODULE	R987281101	3	10
185	CB08-2N-A/S06	R978032340	3	10
185	CB08-2N-D/S06	R978032344	3	10
185	CB08-3N-A/S06	R978032341	3	10
185	CB08-3N-D/S06	R978032345	3	10
185	CB10-2N-A/S08	R978032348	3	10
185	CB10-2N-D/S08	R978032352	3	10
185	CB10-3N-A/S08	R978032349	3	10
185	CB10-3N-D/S08	R978032353	3	10
185	CB10-4N-A/S08	R978032351	3	10
185	CB10-4N-D/S08	R978032355	3	10
185	CB16-2N-A/S12	R978032360	3	10
185	CB16-2N-D/S12	R978032362	3	10
185	CBDT-11A-A/S08	R978041747	3	10
185	CBDT-11A-D/S08	R978041748	3	10
185	CBDT-2A-A/S10	R978041749	3	10
185	CBDT-2A-D/S10	R978041750	3	10
185	CBT-11A-A/S08	R978012829	3	10
185	CBT-11A-D/S08	R978012838	3	10
185	CBT-2A-A/S10	R978041744	3	10
185	CBT-2A-D/S10	R978041745	3	10
185	KR-FF-M6-ED-06-----K-2215	R933003730	10	10
185	KR-SC-M8-ED-06-02E-----K-2202	R933003722	10	10
185	KR-SC-M8-ED-06-03E-----K-2203	R933003723	10	10
185	KR-SC-M8-ED-06-04E-----K-2204	R933003724	10	10
185	KR-SC-M8-ED-06-05E-----K-2205	R933003725	10	10
185	RESTRICTOR D7.5XD1.35XL4.2	R933002927	10	10
185	RESTRICTOR D9.0XD0.0XL4.0	R933002936	10	10
	Coils – Compact Hydraulics			
186	C31-01-OB-12DC-20W-H-D12.7-----271-0450	R933002776	10	10

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186	C31-01-OC-24DC-20W-H-D12.7-----271-0451	R933002777	10	10
186	C31-07-OB-12DC-20W-H-D12.7-----271-0452	R933002778	10	10
186	C31-07-OC-24DC-20W-H-D12.7-----271-0453	R933002779	10	10
186	C36-01-OB-12DC-26W-H-D14-----271-0510	R933000044	10	10
186	C36-01-OC-24DC-26W-H-D14-----271-0511	R933000053	10	10
186	C36-07-OB-12DC-26W-H-D14-----271-0510207	R933000048	10	10
186	C36-07-OC-24DC-26W-H-D14-----271-0511207	R933000058	10	10
186	C45-01-OB-12DC-33W-H-D19-----271-0417	R933000026	10	10
186	C45-01-OC-24DC-33W-H-D19-----271-0418	R933000034	10	10
186	C45-07-OB-12DC-33W-H-D19-----271-041717	R933000030	10	10
186	C45-07-OC-24DC-33W-H-D19-----271-041719	R933000032	10	10
186	C48-01-OB-12DC-36W-H-D19-271-0520	R933000063	10	10
186	C48-01-OC-24DC-36W-H-D19-271-0521	R933000076	10	10
186	C48-07-OB-12DC-36W-H-D19-271-052004	R933000068	10	10
186	C48-07-OC-24DC-36W-H-D19-271-052009	R933000075	10	10
186	C65-01-OB-12DC-44W-H-D25.7-281-0617	R933000100	10	10
186	C65-07-OB-12DC-44W-D25.7-281-06194	R933000107	10	10
186	D15-01-OB-12DC-36W-H-D23-----271-8020210	R933000092	10	10
186	D15-01-OC-24DC-36W-H-D23-----271-8020220	R933000093	10	10
186	D15-07-OB-12DC-36W-H-D23-----271-8020230	R933000094	10	10
186	D15-07-OC-24DC-36W-H-D23-----271-8020240	R933002798	10	10
186	S7L36DTL 24VDC 30W DIOD OD02072230OC02	R901094597	10	10
186	S7L36DTL12VDC30WDIOD CL.H OD02072230OB02	R901094595	10	10
186	S7L36HRL 110VRAC 30W CL.H OD02070130OW02	R934003806	10	10
186	S7L36HRL 12VDC 30W CLAS H OD02070130OB02	R901090824	10	10
186	S7L36HRL 24VDC 30W CLAS H OD02070130OC02	R901090825	10	10
186	S8.356DTV.12DC 20W CL.H OD0217203POB00	R901110014	3	10
186	S8.356HRL.12DC 20W CL.H OD02170130OB00	R901090821	3	10
186	S8.356HRL.24DC 20W CL.H OD02170130OC00	R901083065	3	10
186	S8.356HRL110RAC 20W CL.H OD02170130OW00	R901087981	3	10
186	S8356DTV12DC20W DIOD CL.H OD0217223POB00	R901120671	3	10
186	S8356DTV24DC20W DIOD CL.H OD0217223POC00	R901114602	3	10
	VT Patch Cord			
188	VT PATCH CORD BLK AK205/410 SIL 100CM	R978807708	5	10
188	VT PATCH CORD RED AK205/410 SIL 100CM	R978807707	5	10
	Aftermarket Parts			
	Regulator			
189	REGULATOR V7-1A/...D0-16 BG	R901169902	3	5
	Seal Kits			
189	AZMF Rotary Shaft Lip	1510283065	3	10
189	AZMF Seal Kit	1517010195	3	10
189	AZPF Seal Kit	1517010152	3	10
189	AZPF Shaft Seal	1510283008	3	10

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189	AZPN Rotary Shaft Lip	1510283023	3	10
189	AZPN Seal Kit	1517010194	3	10
189	KIT P1 VPV80 210 BAR PUMP REP.	R978711842	3	5
189	KIT REPAIR VPV100/130 210BAR SAE	R978711849	3	5
189	KIT REPAIR VPV100/130 210BAR SAE/P1	R978711851	3	5
189	KIT REPAIR VPV164 210BAR SAE	R978711850	3	5
189	KIT REPAIR VPV164 210BAR SAE/P1	R978711852	3	5
189	KIT REPAIR VPV45/63 210BAR SAE	R978711838	3	5
189	KIT REPAIR VPV45/63 210BAR SAE/P1	R978711841	3	5
189	REPAIR KIT VPV16 SAE PUMP 210 9511230606	R978711812	3	5
189	REPAIR KIT VPV25/32 SAE 210 9511230598	R978711809	3	5
189	REPAIR KIT VPV25/32SAE P1 210 9511230623	R978711825	3	5
189	REPAIR KIT VPV80 SAE 210 BAR 9511230641	R978711840	3	5
189	VPV/100-164 210 BAR FKM Seals	9511230659	3	10
189	VPV/16-210BAR FKM Seals	9511230605	3	10
189	VPV/25/32-210BAR FKM Seals	9511230597	3	10
189	VPV/45-80 210 BAR FKM Seals	9511230658	3	10
189	VPV16 SAE COMBO PUMP KIT 210	R978711814	3	5
189	SEAL KIT PV7-1X/100M/K	R900891699	3	5
189	SEAL KIT PV7-1X/10M/K	R900891704	3	5
189	SEAL KIT PV7-1X/16M	R900891703	3	5
189	SEAL KIT PV7-1X/25M/K	R900891702	3	5
189	SEAL KIT PV7-1X/40M/K	R900891701	3	5
189	SEAL KIT PV7-1X/63M/K	R900891700	3	5
189	SEAL KT A/AA2FM/O/E107-125/61-V	R987053790	3	3
189	SEAL KT A/AA2FM/O/E160-180/61-V	R987053791	3	3
189	SEAL KT A/AA2FM/O/E23-32/61-V	R987053779	3	3
189	SEAL KT A/AA2FM/O/E45/61-V	R987053787	3	3
189	SEAL KT A/AA2FM/O/E56-63/61-V	R987053788	3	3
189	SEAL KT A/AA2FM/O/E80-90/61-V	R987053789	3	3
189	SEAL KT A/AA2FM/O10-16/61-V	R987053786	3	3
189	SEAL KT AA4VG125/32-N	R987053882	3	10
189	SEAL KT AA4VG180/32-N	R987053887	3	10
189	SEAL KT AA4VG250/32-N	R987053936	3	10
189	SEAL KT AA4VG28/32-N	R987053885	3	10
189	SEAL KT AA4VG40/32-N	R987054641	3	10
189	SEAL KT AA4VG56/32-N	R987053884	3	10
189	SEAL KT AA4VG71/32-N	R987053886	3	10
189	SEAL KT AA4VG90/32-N	R987053883	3	10
189	SEAL KIT A4VS180/30-V pump only	R902416678	3	10
189	SEAL KIT .A4VS125/30-P pump only	R902416662	3	10
189	SEAL KIT .A4VS125/30-V pump only	R902416680	3	10
189	SEAL KIT .A4VS180/30-P pump only	R902416679	3	10
189	SEAL KIT .A4VS250/30-V pump only	R902416677	3	10

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189	SEAL KIT A4VS250/30-P pump only	R902416676	3	10
189	SEAL KT AA6VM107/63-V	R987054740	3	10
189	SEAL KT AA6VM160/63-V	R987053876	3	10
189	SEAL KT AA6VM55/63-V	R987053873	3	10
189	SEAL KT AA6VM80/63-V	R987053874	3	10
189	SEAL KIT -10/3V (M7-22)	R900890976	3	3
189	SEAL KIT LC16A/B/DB/DR.-7X/	R961000472	3	3
189	SEAL KIT WE 6.5X/	R900357571	3	3
189	SEAL KIT WH 22.6X/7X/	R900306349	3	3
189	SEAL KIT HED80A/OH/OP1X/	R961000756	3	3
189	SEAL KIT LC16A/B/DB/DR.-7X/V	R961000473	3	3
189	SEAL KIT LC25.-5X/6X/	R961003070	3	3
189	SEAL KIT LC25A/B/DB/DR.-7X/	R961000474	3	3
189	SEAL KIT LC25A/B/DB/DR.-7X/V	R961000475	3	3
189	SEAL KIT LC32A/B/DB/DR.-7X/	R961000476	3	3
189	SEAL KIT LC40A/B/DB/DR.-7X/	R961000744	3	3
189	SEAL KIT LC40A/B/DB/DR-5X/6X/	R900314055	3	3
189	SEAL KIT SEW6.3X/.V M-2/3*	R961000684	3	3
189	SEAL KIT WE 10.3X/C	R900357578	3	3
189	SEAL KIT WE 10.3X/C/V	R900357579	3	3
189	SEAL KIT WE 6.5X/V	R900357572	3	3
189	SEAL KIT WE 6.6X/E	R900357573	3	3
189	SEAL KIT WE 6.6X/E/V	R900357574	3	3
189	SEAL KIT WH 22.6X/7X/V	R900309825	3	3
	A10 Service Parts Kit			
192	SEAL KIT A10V 18 DFR /31V	R910941171	3	10
192	BEARING SET A10V18	R910948589	3	10
192	ROTARY GROUP A10V18/31R	R910948590	3	10
192	ROTARY GROUP A10V18/31L	R910948591	3	10
192	A10V 28 DFR-V KIT	R910932983	3	10
192	KLEINTEILA10V28+VERP	R910942158	3	10
192	A10V28/31R+VERPACKUNG	R910947781	3	10
192	A10V28/31L+VERPACKUNG	R910947782	3	10
192	A10V 45 DFLR/31V+VERP	R910932984	3	10
192	SEAL KIT A10V 45 /53V	R902487515	3	3
192	SEAL KIT AA10VO 45 /50-P	R910963478	3	3
192	KLEINTEILA10V45+VERP	R910942248	3	10
192	A10V45/31R+VERPACKUNG	R910947730	3	10
192	A10V45/31L+VERPACKUNG	R910947789	3	10
192	A10V 71 DFLR/31V+VERP	R910932985	3	10
192	KLEINTEILA10V71+VERP	R910942250	3	10
192	A10V71/31R+VERPACKUNG	R910947801	3	10
192	A10V71/31L+VERPACKUNG	R910947802	3	10
192	SEAL KIT A10V100 DFLR/31V	R910941168	3	10

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192	BEARING SET A10V100	R910948602	3	10
192	ROTARY GROUP A10V100/31R	R910948603	3	10
192	ROTARY GROUP A10V100/31L	R910948604	3	10
192	SEAL KIT A10V140 DFLR/31V	R910941170	3	10
192	BEARING SET A10V140	R910948615	3	10
192	ROTARY GROUP A10V140/31L	R910948618	3	10
192	ROTARY GROUP A10V140/31L	R910948618	3	10
	Popular Cross-over Filter Elements			
193	1.0045 G25-A00-0-M	R928005636	5	1
193	1.0045 H10XL-A00-0-M	R928005639	5	1
193	1.0045 H20XL-A00-0-M	R928005640	5	1
193	1.0060 G25-A00-0-M	R928005672	5	1
193	1.1401 G40-A00-0-M	R928045173	5	1
193	2.0005 G40-A00-0-V	R928045584	5	1
193	2.0020 G25-A00-0-M	R928006374	5	1
193	2.0020 H6XL-A00-0-M	R928006376	5	1
193	2.0063 H3XL-A00-0-M	R928006699	5	1
193	2.0100 H10XL-A00-0-M	R928006755	5	1
193	2.0100 H10XL-B00-0-M	R928006764	5	1
193	2.0250 H3XL-A00-0-M	R928006861	5	1
193	2.0250 H6XL-A00-0-M	R928006862	5	1
193	2.0250 H6XL-B00-0-M	R928006871	5	1
193	2.56 P10-A00-0-M	R928019029	5	1
193	2.90 H10XL-C00-0-M	R928025500	5	1
193	4.06 P10-A00-0-M	R928022781	5	1
193	4.10 G200-A00-0-M	R928028012	5	1
193	9.110LA H10XL-A00-0-M SO3000	R928017144	5	1
193	9.110LA H10XL-A00-0-V SO3000	R928022425	5	1
193	9.110LA H10XL-F00-0-MSO3000	R928017152	5	1
193	9.110LA H20XL-A00-0-MSO3000	R928017143	5	1
193	9.110LA H3XL-F00-0-M SO3000	R928017154	5	1
193	9.110LA H6XL-A00-0-M SO3000	R928017145	5	1
193	9.110LA H6XL-F00-0-MSO3000	R928017153	5	1
193	9.1320LA H6XL-F00-0-M	R928025333	5	1
193	9.160LA H10XL-A00-0-M SO3000	R928017210	5	1
193	9.160LA H10XL-F00-0-MSO3000	R928017218	5	1
193	9.160LA H20XL-F00-0-MSO3000	R928017217	5	1
193	9.160LA H3XL-F00-0-M SO3000	R928017220	5	1
193	9.160LA H6XL-A00-0-MSO3000	R928017211	5	1
193	9.160LA H6XL-F00-0-MSO3000	R928017219	5	1
193	9.240 G25-A00-0-M	R928017221	5	1
193	9.240LA H10XL-A00-0-M SO3000	R928017243	5	1
193	9.240LA H10XL-F00-0-M SO3000	R928017251	5	1
193	9.240LA H20XL-A00-0-MSO3000	R928017242	5	1

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193	9.240LA H20XL-F00-0-MSO3000	R928017250	5	1
193	9.240LA H3XL-A00-0-MSO3000	R928017245	5	1
193	9.240LA H3XL-F00-0-M SO3000	R928017253	5	1
193	9.240LA H6XL-A00-0-MSO3000	R928017244	5	1
193	9.280LA H10XL-A00-0-M SO3000	R928017276	5	1
193	9.280LA H20XL-A00-0-M SO3000	R928017275	5	1
193	9.280LA H6XL-A00-0-M SO3000	R928017277	5	1
193	9.30LA H10XL-A00-0-MSO3000	R928017074	5	1
193	9.30LA H10XL-F00-0-MSO3000	R928017086	5	1
193	9.30LA H20XL-F00-0-M SO3000	R928017085	5	1
193	9.30LA H3XL-F00-0-M SO3000	R928017088	5	1
193	9.330LA H10XL-A00-0-M SO3000	R928017309	5	1
193	9.330LA H10XL-F00-0-M SO3000	R928017317	5	1
193	9.330LA H20XL-A00-0-MSO3000	R928017308	5	1
193	9.330LA H3XL-A00-0-MSO3000	R928017311	5	1
193	9.330LA H3XL-F00-0-M SO3000	R928017319	5	1
193	9.330LA H6XL-A00-0-MSO3000	R928017310	5	1
193	9.330LA H6XL-F00-0-M SO3000	R928017318	5	1
193	9.500LA H20XL-A00-0-M SO3000	R928017374	5	1
193	9.60 G25-A00-0-V-0024	R928048442	5	1
193	9.60LA H10XL-A00-0-M SO3000	R928017111	5	1
193	9.60LA H10XL-F00-0-M SO3000	R928017119	5	1
193	9.60LA H3XL-F00-0-M SO3000	R928017121	5	1
193	9.60LA H6XL-F00-0-MSO3000	R928017120	5	1
193	9.660LA H10XL-A00-0-M SO3000	R928017408	5	1
193	9.660LA H10XL-F00-0-M SO3000	R928017416	5	1
193	9.660LA H20XL-A00-0-M SO3000	R928017407	5	1
193	9.660LA H20XL-F00-0-MSO3000	R928017415	5	1
193	9.660LA H3XL-F00-0-MSO3000	R928017418	5	1
193	9.660LA H6XL-F00-0-M SO3000	R928017417	5	1
193	9.990LA H10XL-F00-0-MSO3000	R928019176	5	1
193	10.110LA H10XL-A00-6-M SO3000	R928017483	5	1
193	10.1300 G25-000-6-M	R928017647	5	1
193	10.1300LA H10XL-A00-6-M SO3000	R928017667	5	1
193	10.1300LA H6XL-A00-6-M SO3000	R928017668	5	1
193	10.160LA H10XL-A00-6-M SO3000	R928017506	5	1
193	10.160LA H20XL-000-6-MSO3000	R928017505	5	1
193	10.160LA H6XL-000-6-MSO3000	R928017507	5	1
193	10.240 P10-000-6-M	R928017515	5	1
193	10.240LA H10XL-A00-6-M SO3000	R928017529	5	1
193	10.240LA H6XL-000-6-MSO3000	R928017530	5	1
193	10.2600LA H10XL-A00-0-M SO3000	R928037731	5	1
193	10.2600LA H3XL-000-6-MSO3000	R928017692	5	1
193	10.2600LA H6XL-000-6-MSO3000	R928017691	5	1

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Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
193	10.30LA H10XL-000-6-MSO3000	R928017437	5	1
193	10.330LA H10XL-A00-6-M SO3000	R928017552	5	1
193	10.330LA H10XL-A00-B6-M SO3000	R928035218	5	1
193	10.330LA H20XL-000-6-MSO3000	R928017551	5	1
193	10.330LA H6XL-000-6-MSO3000	R928017553	5	1
193	10.330P10-000-6-M	R928017538	5	1
193	10.500LA H10XL-A00-6-M SO3000	R928017575	5	1
193	10.500LAH20XL-000-6-MSO3000	R928017574	5	1
193	10.60LAH 10XL-000-6-MSO3000	R928017460	5	1
193	10.660LA H10XL-A00-6-M SO3000	R928017598	5	1
193	10.660LA H3XL-A00-6-MSO3000	R928017600	5	1
193	10.660LA H6XL-000-6-MSO3000	R928017599	5	1
193	10.850LA H10XL-000-6-MSO3000	R928017621	5	1
193	10.950LA H10XL-000-6-MSO3000	R928017644	5	1
193	16.7400/R H20XL-S00-0-M	R928016662	5	1
193	16.7500/R H10XL-S00-0-M	R928016676	5	1
193	16.7500/R H6XL-S00-0-M	R928016674	5	1
193	16.7500/R P10-S00-0-M	R928019959	5	1
193	16.7500/S H10XL-S00-0-M	R928016677	5	1
193	16.7500/S H3XL-S00-0-M	R928016673	5	1
193	16.7500/S H6XL-S00-0-M	R928016675	5	1
193	16.8300/S H10XL-S00-0-V	R928016706	5	1
193	16.8304/U H6XL-S00-0-M	R928016716	5	1
193	16.8304/U H6XL-S00-0-V	R928016728	5	1
193	16.8304/X H6XL-S00-0-V	R928016729	5	1
193	16.8700/R H10XL-S00-0-M	R928016804	5	1
193	16.8900/TH10XL-S00-0-M	R928016827	5	1
193	16.9600/T H6XL-E00-0-M	R928016950	5	1
193	20.750 P25-S00-6-M	R928046179	5	1
193	62.0056K H10XL-J00-0-V	R902603750	5	1
193	62.0056K H20XL-J00-0-V	R902603298	5	1
193	62.0125K H20XL-J00-0-V	R902603243	5	1
193	62.0180K H20XL-J00-0-V	R902603004	5	1
193	80.130 H1XL-S00-0-M	R928037484	5	1
193	80.130 H6XL-S00-0-M	R928019201	5	1
193	80.30/20 P10-S00-0-V	R928028010	5	1
193	80.45/21 VS60-S00-0-M	R928028019	5	1
193	80.90 H10XL-S00-0-M	R928016614	5	1
193	80.90 P10-S00-0-M	R928016612	5	1
193	84.60 H10XL-S00-4-M	R928028556	5	1
193	99.183677 MB15-C00-0-M	R928022726	5	1

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Part Numbers

Page Number	Description	Part Number	Maximum Quantity	Shipment ¹⁾ (Business Days)
	Rineer Service Kits			
195	5/16 BALL CHECKS	R986V04286	3	10
195	M015 KT-SE-0150004	R986V01643	3	10
195	M015 KT-SE-0150940	R986V01651	3	10
195	M015 KT-SP-0150931	R986V02033	3	10
195	M015 STD TIMING PLTS	R986V04287	3	10
195	M037 C62 TIMING PLTS	R986V04288	3	10
195	M037 KT-SE-0370973	R986V01687	3	10
195	M037 KT-SE-0370979	R986V01689	3	10
195	M037 KT-SE-0370982	R986V01690	3	10
195	M037 KT-SE-0371917	R986V01696	3	10
195	M037 KT-SP-0370936	R986V02035	3	10
195	M125 KT-SE1250997	R986V01747	3	10
195	M125 KT-SP-1250930	R986V02036	3	10
195	M125 KT-SP-1250993	R986V02037	3	10
195	M125 PC TIMING PLTS	R986V04289	3	10
195	O-RINGS 2-160 NBR	R986V04301	3	10
195	VANES 1250961PC	R986V02047	3	10
195	VANES V0150930	R986V02038	3	10
195	VANES V0371914PC	R986V02041	3	10
195	VANES V1251962-2S	R986V02050	3	10

1) "Shipment" defined as – not to exceed the time from receipt of order to Bosch Rexroth Hydraulics to shipment ex-factory (Bosch Rexroth plant location).

GoTo Focused Delivery Program: Notes

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