Intelligent hydraulics combined with multi-technology competence

As a leading provider in the field of industrial hydraulics, Rexroth takes a top position with its components, systems and extensive know-how and expertise regarding applications and engineering.

From its hydraulics range, which is the widest in the world, Rexroth offers standard products, application-related systems and customer-specific special solutions of high quality.

Using highly advanced microelectronics, Rexroth has rendered hydraulics even more capable. The products can be easily integrated in state-of-the-art machine designs and are extremely powerful and energy efficient. As a supplier of all technologies, Rexroth always provides the perfect application-specific drive solution.

Rexroth is the ideal development partner for highly efficient machinery and production equipment – from the initial contact to commissioning and throughout the entire life cycle.

Worldwide operational teams assume all project planning tasks for your machines and systems until they are ready for start of production or turnkey delivery if desired.

Using the multi-technology competence and drive and control technology of Rexroth, you will become more competitive than ever.





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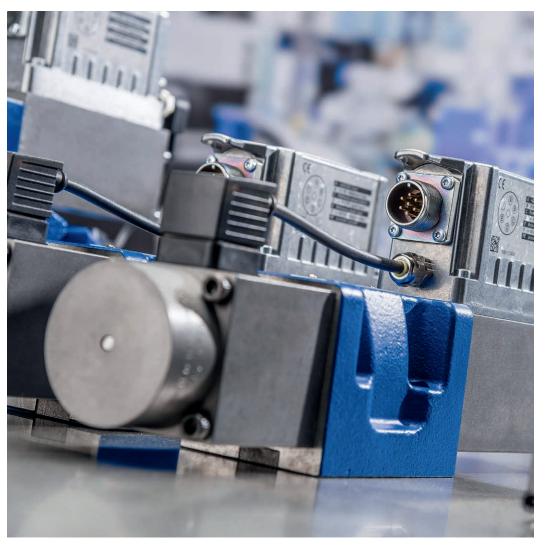




The Drive & Control Company

Proportional directional valves

Product overview









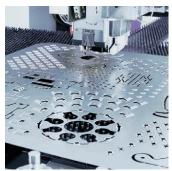
The data and properties specified in this brochure only serve to provide a general overview of the "proportional directional valves" product range of Bosch Rexroth AG.

The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual valves can be found in the corresponding data sheets.

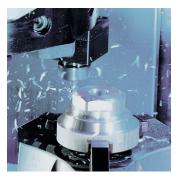
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The information given does not release the user from the obligation of own judgment and verification.









					Proportional directional valv	es, direct operated				alves, direct operated	s, direct operated						
Туре			4WRA, 4WRAE		4WR	E, 4WREE	4WRPE		4WRSE		4WI	RPEH	4WRSEH		4WRREH		
Size		6		10	6	10	6	10	6	10	6	10	6	10	6		
Component series	5		2X			2X	2X	3X	ЗХ		3Х	2X	ЗХ		1X		
Data sheet			29055		2	9061	29025 29122		29067		29121	29037	29069		29041		
Features		 4/2 and 4/3 directional valve Without electrical position fee Without/with Integrated electrical 	edback		 4/2 and 4/3 directional valve With electrical position feedback Without/with Integrated electroni 		 4/2 and 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 		 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 		 4/4 directional valve With electrical position feedback With integrated electronics (OBE) 		 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 		 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 		
Rated flow	(Δp = 10 bar/valve) I/min	n 26		58	32	75	32	80	35	75	15	38	17	43	15		
	(Δp = 70 bar/valve) I/min	n									40	100	50	110	40		
Recommended flo	w limitation I/min	n 42		75	80	180	80	180	80	170	60	150	80	170	75		
Maximum operati	ng pressure bar	315				315	315	350	315		350	315	315		315		
Dynamics (measu	red at pilot pressure) bar	r															
- Frequency	±10% Hz	z			42	50		42	110	80	100	55	140	80	190		
response 90°	±100% Hz	z			25	20		22	45	33	75	25	80	42	120		
- Step response	0 100% (T _{resp}) ¹⁾ ms	s 40		140	20	33	20	19	16	18	8	25	9	18	5		

			Proportional directional valves, pilot-operated									Directional control valves, pilot-operated																Direction	al servo valves									
Туре			4WRZ, 4WRZE 4WR								4WRLE			4WRTE					4WRVE				4WRGE				4WRDE							4WS.2E		4WSE3E		
Size		10	16	25 32	10	16 2	5 27	32 35	10	16	25	27	35	10	16 25	27	32	35	10	16	25	27	10	1	6	25	10	16	25	27	32	35	6	10	16	16	25	32
Component series			7X				ЗX				4X					4X				:	2X			1	х			6X			5X		2X	5X	2X	2X	3X	5X
Data sheet			29115	5			29075				29123					29083				29	9077			290)70		:	29097			29093		29564	29583	29591	29620	29621	29622
Features	Features					 With electrical position feedback 			 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 			 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 				 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 				 4/3 directional valve With electrical position feedback With integrated electronics (OBE) 				 4/3 directional valve With electrical position f Without/with Integrated 						 Directional servo valve, 2-stage With mechanical or mechanical and electrical position feedback Without/with Integrated electronics (OBE) 			 Directional servo valve, 3-stage With electrical position feedback With integrated electronics (OBE) 					
Rated flow	(Δp = 10 bar/valve)	l/min 85	180	325 520	90	220 35	50 500	600 100	0 100	250	400	600	1500	90 2	20 35	500	600	1000	85	200	370	430	90	20	00	350	90	220	350	500	600	1000	10	34	75	100	170	340
	(Δp = 70 bar/valve)	l/min																															25	90	200	260	450	890
Recommended flow	w limitation	l/min 170	460	870 1600	170	460 87	70 1000	1600 300	0 170	460	870	1000	3000	170 4	60 87	1000	1600	3000	170	460	870	1000	170	46	60	870	170	460	870	1000	1600	3000	48	180	320	570	1020	1800
Maximum operatin	g pressure	bar 315	350	350 350	350	350 35	50 270	350 350	350	350	350	270	350	350 3	350 35) 270	350	350	350	350	350	280	315	35	50	350	350	350	350	250	350	350		315		350	350	315
Dynamics (measur	ed at pilot pressure)	bar	50				100				100					100				1	100			2:	0					140				315			315	
- Frequency	±10%	Hz							50	50	55	50	30	55	45 35	35	20	15	70	75	40	40	120	10	00	90	155	140	100	100	80	55	320	320	160	190	190	135
response 90°	±100%	Hz							30	28	24	25	13	40	30 20	20	13	9	40	45	30	30	25	2	5	20	60	50	40	40	35	20	210	160	60	60	70	52
- Step response	0 100% (T _{resp}) ¹⁾	ms 40	70	90 170	18	29 4	8 48	75 125	5 22	20	24	24	75	15	22 25	25	46	75	11	15	25	25	24	3	4	60	8	13	12	12	16	17	3	4	6	4.5	4.5	6



