

Intelligent hydraulics combined with multi-technology expertise

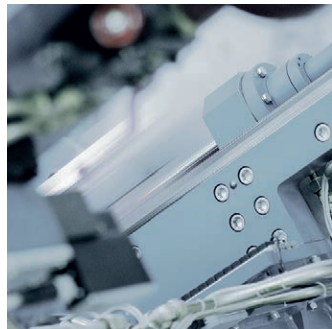
As a leading provider in the field of industrial hydraulics, Rexroth takes a top position with its components, systems and extensive know-how and expertise regarding applications and engineering.

From its hydraulics delivery 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 machinery concepts 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 expertise and drive and control technology of Rexroth, you will become more competitive than ever.



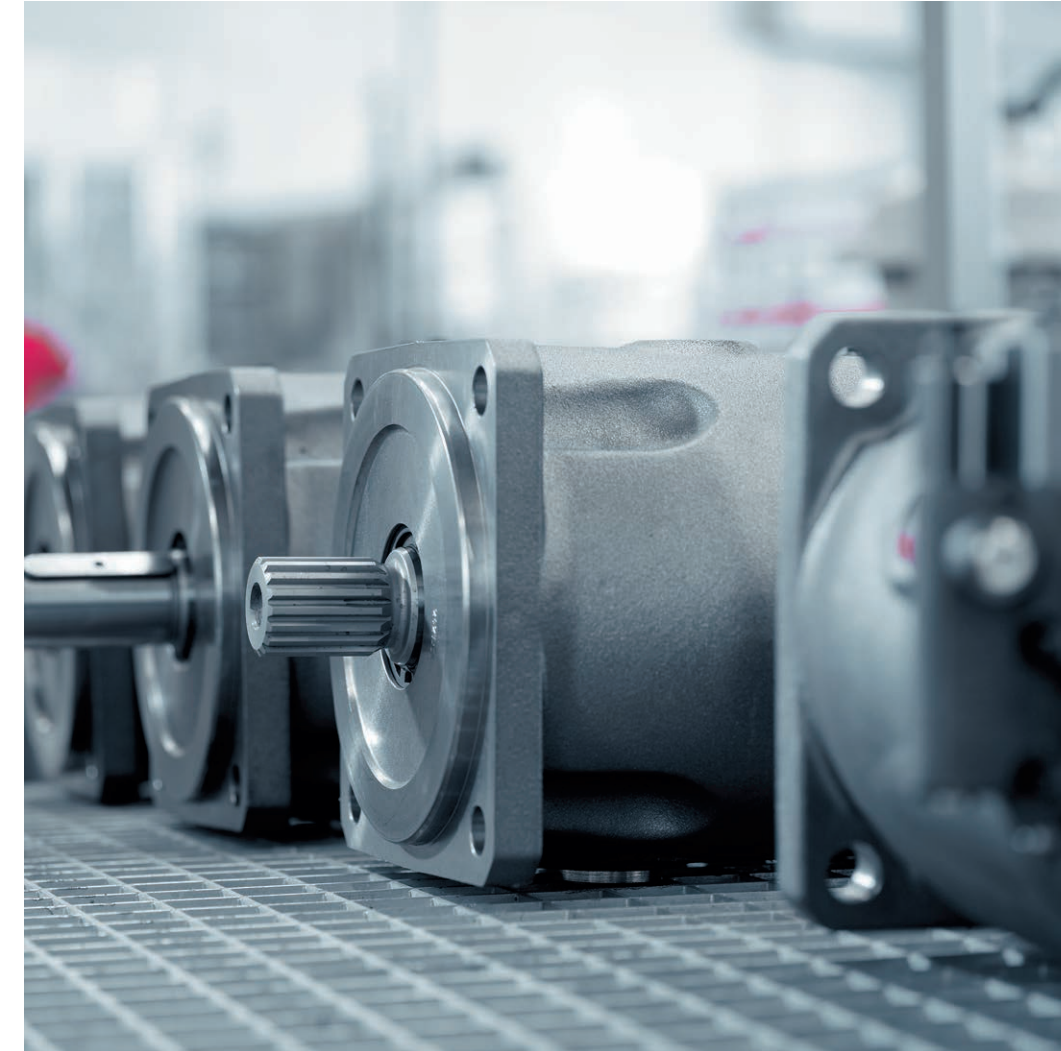
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Pumps for industrial applications

Product overview

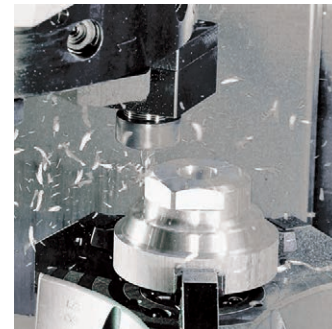
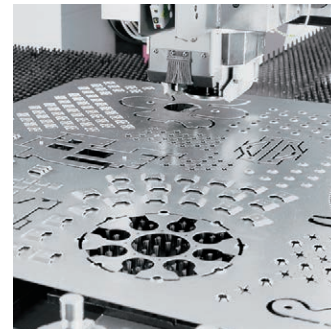









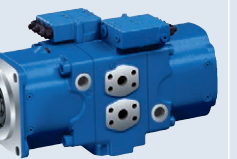






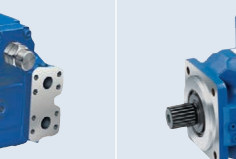




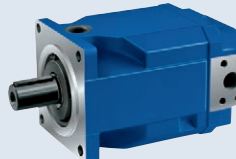

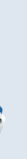
The data and properties specified in this brochure only serve to provide a general overview of the "Pumps for industrial applications" product range of Bosch Rexroth AG.


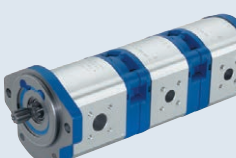
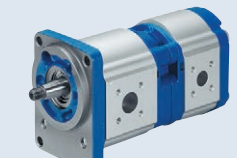
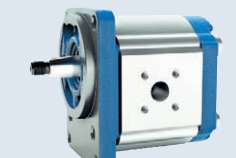
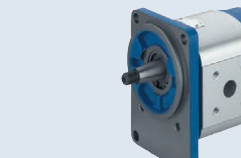
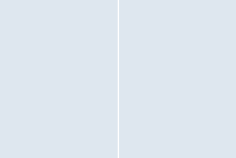


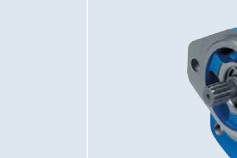







The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual pumps can be found in the corresponding data sheets.

No statements concerning a certain condition or suitability for a certain application can be derived from our information.

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



	Axial piston pumps																																						
	For variable-speed drives (Sytronix)				Medium pressure pumps				High-pressure pumps																														
	Fixed displacement pumps		Variable displacement pumps		Variable displacement pumps				Variable displacement pumps																Fixed displacement pumps														
Type	A10FZO	A10FZG	A10VZO	A10VZG	A10VSO series 31	A10VSO series 32	A10VSNO	A1VO	A20VO	A15VSO	A15VLO	A4VSO	A4VBO	A4VHO	A20VFO	A4VSG	A4CSG	A4VG	A7VO	A7VK	A4FO	A2FO																	
																																							
Size	6 ... 63		10	18 ... 180	10 ... 63		18 ... 140	45 ... 180	63	18 ...35		60	95 ... 520	110 ... 280	145 ...280	40 ... 71	125 ... 1000	71	125 ... 450	450		260		40 ... 71	125 ... 1000	250 ... 750	28 ... 125	110 ... 280	28 ... 160	250 ... 500	12 ... 107	16 ... 40	71	125 ... 500	5	10 ... 200	250 ... 1000		
Component series	10		10		10		31	32	32	10		10		10(11)		30	10	30	30		30		10(11)		30	32	40	63		10		32	10	30	60, 61, 63				
Data sheet no.	91485		91485		91485		92711	92714	92740	92650		93100		92800		92050	92122		upon request		upon request		92100		92105		92003	92004	92202	92203	94010		91455		91401				
Features	► No minimum speed ► Unlimited pressure-holding operation ► 4-quadrant operation (A10FZG)		► No minimum speed ► Unlimited pressure-holding operation		► 4-quadrant operation ► Unlimited pressure-holding operation		► For open circuit ► Noise-optimized ► Short delivery times	► For open circuit ► Noise-optimized ► Optionally with pulsation reduction	► For open circuit ► Increased efficiency ► Noise-optimized	► For open circuit ► Integrated hydraulic controllers ► Cost-optimized design	► Double pump in the open circuit ► Combinable controllers ► Joint suction port	► For open circuit ► Very low noise level ► Increased efficiency	► For open circuit ► Hydraulic and electronic controllers ► Optionally for HFC fluids	► For high-pressure applications up to 500 bar ► Open circuit ► Electronic control systems	► For high-pressure applications up to 700 bar ► Open circuit ► Electronic control systems	► Variable and fixed-displacement pump combination for open circuit ► Cost-optimized for large flows ► Joint suction port	► For closed circuit ► Feed-in and pressure limitation can be attached ► Optionally with secondary control	► For closed circuit ► Compact, integrated design ► Optionally ATEX-certified	► For closed circuit ► Integrated feed-in ► Integrated pressure relief valves	► For open circuit ► Bent axis design ► Robust design	► Dosing pump for polyurethane components ► Long life cycle ► Robust design	► For open circuit ► 100 % through-drive-compatible ► Swash plate design ► High-speed version	► For open circuit ► Bent axis design ► Fine size graduation																
Maximum flow in l/min	18 ... 135		36 ... 324		36 ... 157		59 ... 287	135 ... 324	113	59 ... 105		2 x 162	2 x 220 ... 2 x 754	264 ... 504	377 ... 644	104 ... 156	225 ... 1000	156	225 ... 810	675		988		148 ... 227	325 ... 1600	550 ... 1200		119 ... 356	348 ... 673	89305	375 ... 600	20,9 ... 192,6		62 ... 107	152	218 ... 728	27,6	32 ... 310	375 ... 950
Nominal pressure in bar	315		250	280	280		280	210	250	350	350		350	450		630	350	350	350	400	450	350		350		400	450	350		250		400	350	350	315	400	350		
Maximum speed in min ⁻¹ (with V _{g max})	3600 ... 3000		3600	3300 ... 1800	3600 ... 2500		3300 ... 2050	3000 ... 1800	1800	3300 ... 3000		2700	2350 ... 1450	2400 ... 1800	2600 ... 2300	2600 ... 2200	1800 ... 1000	2200 ... 1800		1500	1900		3700 ... 3200	2600 ... 1600	2200 ... 1600		4250 ... 2850	3150 ... 2400	3150 ... 1900	1500 ... 1200	1800		4000 ... 2750	2200	1800 ... 1500	5600	3150 ... 1550	1500 ... 950	

	External gear pumps								Internal gear pumps				Gerotor pumps	Vane pumps			Radial piston pumps		
Type	AZPB	AZPF	AZPS (SILENCE)	AZPJ (SILENCE PLUS)	Fixed displacement pumps				Fixed displacement pumps for variable-speed drives (Sytronix)			Fixed displacement pump		Fixed displacement pump	Variable displacement pumps		Fixed displacement pump	Fixed displacement pump	
																			
Size	1 ... 7.1	4 ... 28	4 ... 28	12 ... 28	20 ... 36	20 ... 36	22.5 ... 100	22.5 ... 63	1.7 ... 40	5 ... 16	20 ... 250	6.3 ... 16	20 ... 32	20 ... 140	14 ... 150	10 ... 25	18 ... 193	0.4 ... 2	1.6 ... 20
Component series	3X	1X/2X	1X/2X	2X	1X/2X	2X	2X	2X	2X/3X	2X	3X	2X	3X	1X	1X	1X/2X	1X	3X	1X
Data sheet no.	10088	10089	10095	10094	10091	10092	10093	10098	10213	10223	10227	10231		10545	10515	10522	10335	11263	11260 (R4 mini)
Features	<ul style="list-style-type: none">► Cost-effective► Small delivery volumes► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Medium delivery volumes► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Low-pulsation► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Low-pulsation and low-noise► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Large delivery volumes► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Low-pulsation► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Large delivery volumes► Flexible combination possibilities	<ul style="list-style-type: none">► Cost-effective► Low-pulsation► Flexible combination possibilities	<ul style="list-style-type: none">► For drives in the minor and medium performance and pressure range	<ul style="list-style-type: none">► For fatigue-resistant drives with high power and high pressures with very large numbers of load cycles	<ul style="list-style-type: none">► For drives in the medium performance and pressure range	<ul style="list-style-type: none">► For cooling, filter or lubricant circuits in industrial applications	<ul style="list-style-type: none">► Pilot operated► Very low operating noise► Very short control times► High repetition accuracy	<ul style="list-style-type: none">► Direct operated► Very low operating noise► Very short control times► High repetition accuracy	<ul style="list-style-type: none">► Low operating noise► Easy to service due to exchangeable pump installation kit► Also as double pump with two installation kits	<ul style="list-style-type: none">► Very high operating pressure► Several pressure ports with different combination possibilities			
Maximum flow in l/min	6 ... 24	16 ... 84	16 ... 84	42 ... 72	60 ... 100	60 ... 100	67 ... 170	67 ... 145	7.5 ... 100	15 ... 720	11 ... 55	59 ... 370	24 ... 255	17 ... 44	30 ... 400	1.2 ... 37			
Nominal pressure in bar	230 ... 280	200 ... 280	200 ... 280	200 ... 280	180 ... 280	210 ... 280	100 ... 280	200 ... 280	210 ... 250	315 ... 350	250 ... 315	15	160	100	175 ... 210	175 ... 700			
Maximum speed in min ⁻¹ (with V _{g max})	3500 ... 6000	3000 ... 4000	3000 ... 4000	2600 ... 3500	2800 ... 3000	2800 ... 3000	1700 ... 3000	2300 ... 3000	2500 ... 4500	3000	1800	1500 ... 3000	1800	1800	1800 ... 2700	2000 ... 3400			