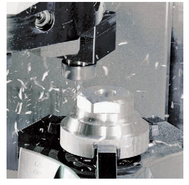
The data and properties specified in this brochure only serve to provide a general overview of the "Hydraulic motors for industrial applications" product range of Bosch Rexroth AG.

The overview does not include all technical data and variants and does not replace a technical data sheet. Detailed information on the individual hydraulic motors 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.



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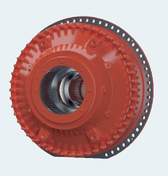
The Drive & Control Company
Rexroth
Bosch Group

Hydraulic motors for industrial applications

Product overview



Axial piston motors

Medium pressure motors

	Constant motor	Variable displacement motor
Type	A10FM	A10VM
		
Size	10 ... 63	28 ... 85
Component series	52	52
Data sheet no.	91172	91703
Features	▶ Also as gear slide-in motor ▶ High admissible output speed	▶ Favorable power/weight ratio ▶ Minimum displacement adjustable from the outside
Maximum displacement in l/min	53 ... 215	131.6 ... 270
Nominal pressure in bar	280	280
Maximum torque in Nm	47 ... 105	125 ... 387
Maximum speed in min^{-1} (with $V_{g\,max}$)	5000 ... 3400	4700 ... 3100

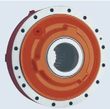
High-pressure motors

	Constant motors						Variable displacement motors				
Type	A4FM			A2FM			A6VM			A4VSO ... DS2	
											
Size	22 ... 56	71	125 ... 500	5	10 ... 200	250 ... 1000	28, 250 ... 1000	55 ... 200	60 ... 280	40 ... 71	125 ... 1000
Component series	32	10	30	60, 61, 63			63	65	71	10	30
Data sheet no.	91120			91001			91604	91607	91610	92056	
Features	▶ Compact dimensions ▶ Long life cycle			▶ Optionally as gear slide-in motor ▶ Good start-up efficiency			▶ Large control area for hydrostatic gears ▶ Good start-up efficiency			▶ Secondary controlled motor ▶ With energy recovery and storage ▶ Highly dynamic speed, position or closed-loop torque control	
Maximum displacement in l/min	93 ... 202	227	325 ... 900	49	85 ... 550	675 ... 1600	156 ... 1600	244 ... 580	275 ... 700	148 ... 227	325 ... 1600
Nominal pressure in bar		400		315	400	350	400, 350	400	450	315	
Maximum torque in Nm	140 ... 356	395	696 ... 2783	24.7	57 ... 1114	1393 ... 5570	179 ... 5571	349 ... 1273	444 ... 2006	191 ... 339	597 ... 4775
Maximum speed in min^{-1} (with $V_{g\,max}$)	4250 ... 3600	3200	2600 ... 1800	10000	8000 ... 2750	2700 ... 1600	5550 ... 1600	4450 ... 2900	4450 ... 2500	3700 ... 3200	2600 ... 1600

External gear motors

	Constant motor
Type	AZM
	
Size	8 ... 45 (5.5 upon request)
Component series	1X/2X
Data sheet no.	14026
Features	▶ Cost-effective ▶ 4-quadrant operation possible
Maximum displacement in l/min	32 ... 117
Nominal pressure in bar	180 ... 250 (permanent pressure)
Maximum torque in Nm	27 ... 223
Maximum speed in min^{-1} (with $V_{g\,max}$)	2600 ... 4000

Radial piston motors

	Constant motors						
Type	MR, MRE	MKM, MRM	Hägglunds CBM	Hägglunds CBP	Hägglunds CB	Hägglunds CA	Hägglunds VI
							
Size	125 ... 2100	11 ... 250	1000 ... 6000	140 ... 840	280 ... 1120	50 ... 210	44 ... 84
Component series	1X	1X					
Data sheet no.	15228	15190	15300	834	734	396	397
Features	▶ For applications with high power or high torques in cyclic or permanent operation	▶ For applications with large speed range and operation in the control loop	▶ The most powerful direct drive in the world ▶ The world's highest torque to weight ratio ▶ Versatile interface to customer machine ▶ High efficiency and low maintenance ▶ Small steps in displacements between motor sizes	▶ High speed, high power ▶ High torque to weight ratio ▶ Full torque from zero to maximum speed ▶ High efficiency and low maintenance ▶ Through hole	▶ High torque to weight ratio ▶ Resistant against shock loads ▶ High efficiency and low maintenance ▶ Small outer diameter ▶ Wide range of accessories	▶ High torque to weight ratio ▶ Resistant against shock loads ▶ High efficiency and low maintenance ▶ Small outer diameter and low weight ▶ Wide range of accessories	▶ Can withstand severe environments ▶ High starting efficiency and low maintenance ▶ Low speeds ▶ Fits extremely well for winch applications ▶ Wide range of accessories
Maximum displacement in l/min	112 ... 522	33 ... 150					
Displacement in cm^3/rotation			75838 ... 380133	5024 ... 52800	15100 ... 70400	1256 ... 13200	3325 ... 38000
Nominal pressure in bar	210 ... 300	140 ... 315	350	350	350	350	350
Maximum torque in Nm	600 ... 8300	31 ... 1165	394000 ... 1970000	26265 ... 275775	79000 ... 370000	6566 ... 68943	16165 ... 142175
Maximum speed in min^{-1} (with $V_{g\,max}$)	250 ... 900	600 ... 3000	0 ... 58	0 ... 400	0 ... 125	0 ... 400	0 ... 200

Vane motors

	MV015	MV037	MV057	MV0125
				
Size	98 ... 246	197 ... 1212	787 ... 1818	983 - 4096
Component series	1X	1X	1X	1X
Data sheet no.	10551	10550	10552	10553
Features	▶ Start torque up to 94 % of the theoretical torque ▶ Speeds up to 2000 min^{-1} permanent ▶ Shaft through hole and additional bearing possible ▶ High reliability ▶ Connection according to SAE C possible ▶ Little power/weight ratio, compact design	▶ Start torque up to 94 % of the theoretical torque ▶ Speeds up to 1000 min^{-1} permanent ▶ Shaft through hole and different bearings possible ▶ High reliability ▶ Connection according to SAE D possible ▶ Little power/weight ratio, compact design	▶ Start torque up to 94 % of the theoretical torque ▶ Speeds up to 500 min^{-1} permanent ▶ Shaft through hole, internal shaft gearing and additional bearing possible ▶ High reliability ▶ Connection according to SAE D possible ▶ Little power/weight ratio, compact design	▶ Start torque up to 94 % of the theoretical torque ▶ Speeds up to 350 min^{-1} permanent ▶ Shaft through hole, internal shaft gearing and additional bearing possible ▶ High reliability ▶ Little power/weight ratio, compact design
Maximum displacement in l/min	255 ... 492	236 ... 970	472 ... 1091	344 ... 1434
Displacement in cm^3/rotation				
Nominal pressure in bar	207	310	310	310
Maximum torque in Nm	248 ... 690	864 ... 5442	3461 ... 8178	4450 ... 18718
Maximum speed in min^{-1} (with $V_{g\,max}$)	2600	1200	600	400