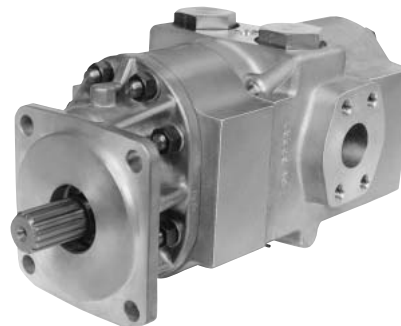


Specifications for SPM20 Series

SPM20 Features Include:

- Tandem motor with valving to provide two-speed operation on constant input flow
- Journal bearings for long life and good over-hung load capability
- Buna-N Seals are standards for petroleum and glycol based fluids "Viton®E" seals are optional.
- Pressure balanced plates for greater efficiency.

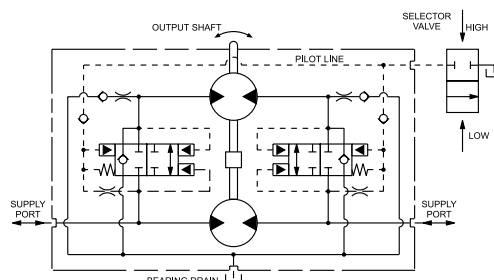


Description Two-Speed Gear Motors
Flow Range To 98 GPM Per Section (370.9 LTR)
Displacements To 9.10 C.I.R. Per Section (149.12 cc's/rev.)
Maximum Pressure to 2500 PSI (172 BAR)
Maximum Speed to 2500 RPM
Rotation Bi-Directional
Bearings Journal
Construction Aluminum

Tandem Motor With Valving To Provide Two-Speed Operation On Constant Input Flow

Parker two-speed motors consist of two hydraulic motor units and pilot operated valving. From this unique unit either high speed or high torque can be obtained, thereby improving the efficiency of winch drives, track drives, and hydrostatic transmissions. Main features of these units are: no external pilot pressure source is necessary, shift to different speed is extremely smooth; and the motor will not hesitate during shift. Displacement of the two motors need not be equal. It utilizes one inlet and one outlet and is fully reversible.

The two motor sections are connected through valving to the common inlet/outlet ports. For low-speed, high-torque output, the pilot port is vented to the tank. For higher-speed, lower torque, the pilot port is blocked, causing the internal valves to shift to the closed position, routing the total flow through the rear motor section. The front motor section receives lubrication oil through the valve section, and requires very little horsepower in this position, since it is only recirculating the fluid.



Inch equivalents for millimeter dimensions are shown in (**).

Performance Data Per Section

MOTOR MODELS	DISPLACEMENT/REVOLUTION(THEORETICAL)					TORQUE PER 1000 PSID*				POWER AT MAX.		MAXIMUM LIMITS				
	US GALLONS	CUBIC INCHES	LITERS	CUBIC CM'S	IMPERIAL GALLONS	START		RUN		H.P.	KW	RELIEF SETTING		CONTINUOUS PRESSURE		SPEED RPM
						LB.IN.	NM	LB.IN.	NM			PSI	BAR	PSI	BAR	
SPM20150	.0131	3.02	.050	49.85	.011	272	368	400	542	38	28.3	2500	172	1700	117	2500
SPM20200	.0175	4.04	.066	66.20	.015	384	520	588	797	50	37.3	2500	172	1700	117	2500
SPM20250	.0219	5.06	.083	82.92	.018	496	672	720	976	64	47.7	2500	172	1700	117	2500
SPM20300	.0262	6.05	.099	99.14	.022	608	824	880	1193	74	55.2	2500	172	1700	117	2500
SPM20350	.0306	7.07	.116	115.86	.025	720	976	1000	1355	90	67.1	2500	172	1700	117	2500
SPM20400	.0350	8.08	.133	132.41	.029	820	1111	1120	1518	105	78.3	2500	172	1700	117	2500
SPM20450	.0394	9.10	.149	149.12	.033	940	1274	1340	1816	124	92.5	2500	172	1700	117	2500

*Average values from performance curves.

Available with Viton® Seals. All data based on SAE 10W oil at 135°F.



CAUTION: Bearing drain line must not exceed 20 PSIG.

MOUNTING DIMENSIONS		
MOTOR SIZES	A	B
SPM20150-150	203.9 (8.03)	322.0 (12.68)
SPM20200-200	226.8 (8.93)	366.5 (14.43)
SPM20250-250	233.9 (9.21)	383.7 (15.11)
SPM20300-300	241.0 (9.49)	398.0 (15.67)
SPM20350-350	248.4 (9.78)	395.4 (15.57)
SPM25400-400	255.5 (10.06)	409.7 (16.13)
SPM20450-450	262.8 (10.35)	424.4 (16.71)

SAE 4-Bolt Connector Ports					
Size	C	D	E	F	G
1-1/2"	17.7 (.70)	35.7 (1.406)	34.7 (1.37)	69.8 (2.750)	1/2-13NC

Inch equivalents for millimeter dimensions are shown in (**).

SAE 4-Bolt NPT Connectors are available. See Accessory Section.

