

North American Hydraulics,
(NAHI, LLC), partnering with Eaton
Spool Valve Motors.

Features and Benefits:

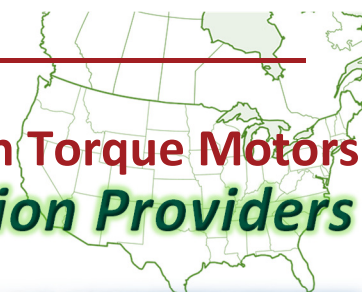
- Compact, Powerful Package — Proven Orbit Motor Principle
- Infinite Bearing Life — Hydrodynamic Journal Bearings
- High Efficiency — Constant Clearance Geroler
- Increased Shaft Seal & Bearing Life — Three-Zone Pressure Design
- Increased Drive Life — Reduced Drive Running Angle
- Reduced Leakage — High-pressure Seals
- Modular Design

Proven Solutions for:

- Harvesters / Augers / Spreaders
- Machine Tools
- Conveyors / Winches
- Turf Care Equipment
- Food Processing
- Aerial Work Platforms
- Anywhere a compact drive with high output torque is needed



Low Speed High Torque Motors Solution Providers



Spool Valve Motors - Low Speed High Torque Motors

Models	Displacement in ³ / cm ³	Max Speed rpm	Max Flow gpm	Max Pressure psi	Torque ft-lbs
J Series Motors	.50/8.2	1992	5.5	3190	193
	.79/12.9	1575	6.5	3190	321
	1.21/19.8	1043	6.5	3190	425
	1.93/31.6	650	6.5	2765	733
	3.00/50.0	393	6.5	2175	765
S Series Motors	3.6/59	963	18	2500	1271
	4.6/75	792	20	2500	1649
	5.7/97	607	20	2500	1992
	7.3/120	472	20	2500	2582
	8.8/144	394	20	2350	2870
	10.1/166	343	20	2300	3191
	11.4/187	304	20	2250	3533
	13.7/225	253	20	2050	3843
T Series Motors	18.2/298	190	20	1800	4467
	22.7/372	153	20	1500	5200
	2.2/36	1021	10	2750	824
	3.0/49	906	15	2750	1131
	4.0/66	849	18	2750	1488
	4.9/80	694	20	2750	1872
	6.2/102	550	20	2750	2339
	8.0/131	426	20	2500	2718
	9.6/157	355	20	2500	3178
	11.9/195	287	20	2500	3864
W Series Motors	14.9/244	229	20	2250	4290
	18.7/306	183	20	1800	4275
	22.6/370	152	20	1500	4300
	4.9/80	267	6	2600	1676
	7.7/126	288	8	2600	2640
	9.4/154	214	9	2600	3301
H Series Motors	11.9/195	200	10	2600	3882
	15.3/251	200	14	2400	4849
	18.5/303	200	16.5	2000	4769
	22.8/374	200	20	1800	4970
	2.2/36	1021	10	2400	668
	2.8/46	969	14	2400	876
	3.6/59	953	17	2400	1076
	4.5/74	760	18	2400	1401
	5.9/97	585	18	2400	1829
	7.3/120	469	20	2400	2278
	8.9/146	385	20	2300	2653
	9.7/159	353	20	2250	2824
	11.3/185	304	20	2150	3151
	14.1/231	243	20	2000	3671
	17.9/293	192	20	1800	4121
	22.6/370	152	20	1500	4283
	45.1/739	74	20	800	4600

Please contact NAHI for
additional information.

The above information should be used as a
guide and is subject to change without notice.

Please contact NAHI for proper selection.

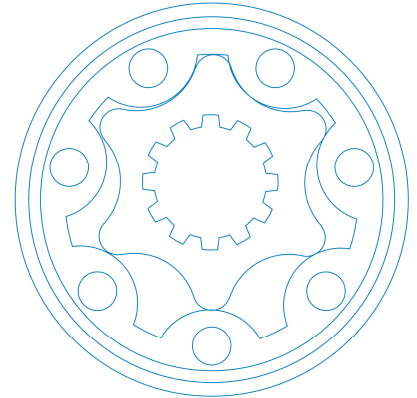


Technical Details – Spool Valve Motors

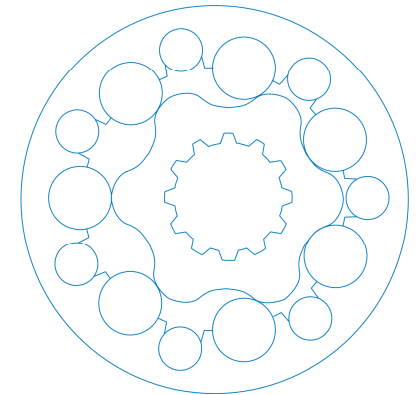
Spool valve technology is typically used where compact, economical solutions are most needed. Spool valve motors use a spool valve to precisely time and control flow through the orbit gear set (Gerotor or Geroler). Inlet flow is directed into and out of the orbit set via slots in the spool and passages through the motor housing. The result is a very cost-effective compact package suited to many application requirements. The three

primary components in the motor are the orbit star, drive and output shaft. H, S and T Series incorporate the spool valve and hydrodynamic bearings in the motor shaft. The W series is similar except a ball bearing is used for the front bearing for increased side-load capacity. Due to its compact size and high speed capability, the J Series is unique and utilizes a separate dedicated spool and spool valve drive. All motors utilize Eaton's

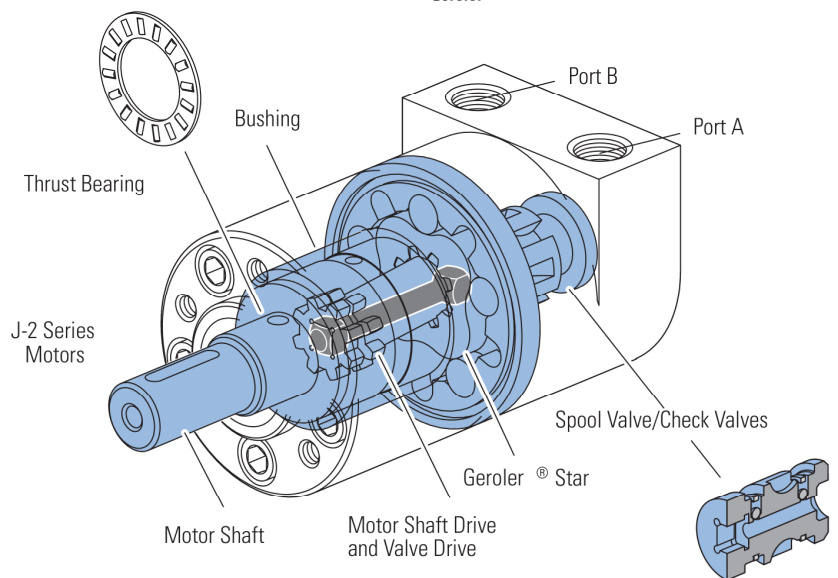
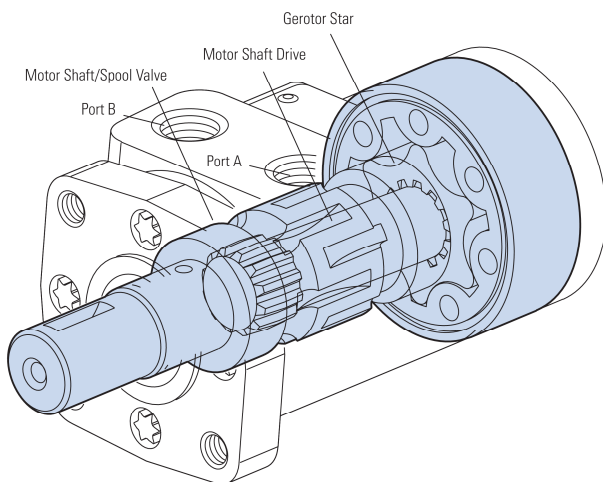
constant-clearance Geroler technology except the H Series, which continues to use the time-proven H motor gerotor set. These motors all use a three-zone pressure design consisting of three unique pressure areas: 1) inlet, 2) return, 3) case. This provides the capability to limit motor case pressure and allows the use of several case pressure options for extended shaft seal and thrust bearing life.



Gerotor



Geroler



EATON