

**North American Hydraulics,**  
(NAHI, LLC), partnering with Eaton  
Disc Valve Hydraulic Motors.

### Features and Benefits:

- Compact, Powerful Package — Proven Orbit Motor Principle
- Output Shaft
- No Shaft and Bearing Assembly (Bearingless Motor)
- Increased Shaft Seal & Bearing Life and True Bi-directionality — Three-Zone Pressure Design
- Port Configuration
- Mounting Flange

### Proven Solutions for:

- Harvesting Equipment
- Swing Motor
- Brush Cutters and Mowers
- Turf Equipment
- Trencher / Grinders and Mixers
- Sprayers / Irrigation Reels
- Forestry Equipment
- Wood Products / Sprayers
- Directional Boring any place pressure relief protection is optimal for system or motor performance and life

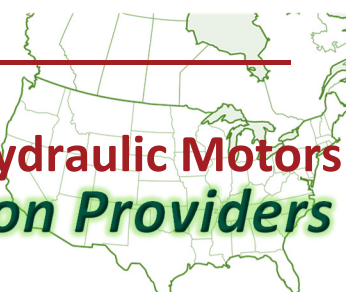
Please contact NAHI for additional information.

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

Please contact NAHI for proper selection.



## Disc Valve Hydraulic Motors Solution Providers



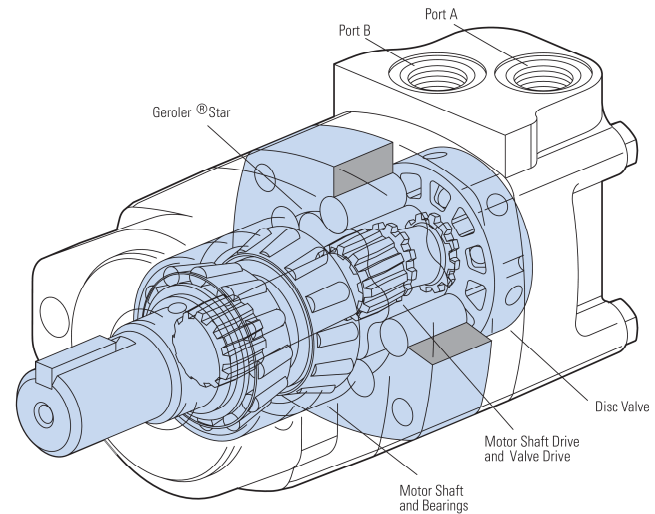
Disc Valve Hydraulic Motors					
Models	Displacement in <sup>3</sup> / cm <sup>3</sup>	Max Speed rpm	Max Flow gpm	Max Pressure psi	Torque ft-lbs
<b>2000 Series Motors</b>	2.1/34	1215	11	4500	1250
	2.5/41	1216	14	4500	1497
	4.0/66	1214	23	4500	2446
	4.9/80	908	20	4500	3035
	5.5/90	1042	25	4500	3458
	6.2/100	924	25	4500	3950
	8.0/130	720	25	4500	4970
	9.6/160	713	30	4500	5040
	11.9/195	577	30	4500	5890
	14.9/245	462	30	4500	7250
	18.7/305	365	30	4500	7820
	24.0/395	287	30	3250	8170
<b>4000 Compact Series Motors</b>	29.8/490	230	30	2500	8225
	9.8/160	699	30	4500	6108
	12.3/200	562	30	4500	7436
	15.4/250	450	30	4500	8272
	19.8/325	351	30	4500	9320
	24.6/405	282	30	4000	8153
	29.8/490	232	30	3750	10778
<b>Delta Series Motors</b>	6.9/113	831	25	4000	3697
	8.9/146	778	30	4000	4984
	12.1/198	516	30	4000	6421
	14.3/234	485	30	4000	7543
	15.4/252	450	30	4000	8236
	18.3/300	379	30	4000	9629
	21.2/347	327	30	4000	10698
	24.1/395	288	30	3500	10684
	28.7/470	241	30	3000	10824
	33.1/542	209	30	2500	10644
	39.6/649	175	30	2250	11100
<b>4000 Series Motors</b>	46.0/754	151	30	2000	10910
	6.7/110	868	25	4500	4160
	7.9/130	862	30	4500	4940
	9.9/160	693	30	4500	6240
	12.5/205	546	30	4500	7100
	15.0/245	532	35	4500	7470
	17.1/280	488	35	4500	8471
	19.0/310	422	35	4500	9420
	24.0/395	376	40	4250	10470
<b>6000 Series Motors</b>	30.0/495	305	40	3300	10350
	38.0/625	241	40	2600	10450
	11.9/195	866	45	4500	7620
	15.0/245	834	55	4500	9740
	19.0/310	698	60	4500	11990
	23.9/390	570	60	4500	14490
	30.0/490	454	60	4500	16670
	38.0/625	355	60	3500	16800
<b>10,000 Series Motors</b>	45.0/735	303	60	3000	15040
	49.0/805	280	60	2500	16377
	60.0/985	230	60	2250	16580
	21.0/345	784	70	4000	12310
	29.3/480	552	70	4000	17410
	40.6/665	396	70	4000	23080
	57.4/940	279	70	3750	30460



### Product Description

In the late 1950's the original low speed, high torque hydraulic motor was developed from a pump Geroter element consisting of an internal gear ring and a mating gear or star. While attaching the internal gear ring to the housing as a non moving part, oil was ported to pressurize and turn the internal star in an orbit around a center point. This slow turning star coupled with a splined drive to the output shaft became the Char-Lynn Orbit® motor.

A few years after this original Char-Lynn Orbit motor was introduced another original motor concept went into production. This motor had rolls incorporated into the internal gear ring, this element was identified by the name Geroler and is a registered trade name of Eaton Hydraulics. From these early years the Geroler motor has seen many design changes to make these Geroler motors the best the industry has to offer. Examine the simplicity of these Geroler disc valve motors shown below. Also examine all the following pages for high value Char-Lynn disc valve motors from Eaton Hydraulics.



Disc Valve Hydraulic Motors	
<b>2000 Series Motors</b>	The popular 2000 Series provides torque up to 7500 lb-in. This proven design is reliable and durable. Eaton has added options that make the motor more flexible to use in a wide variety of applications. The expanded displacement range using patented "Drive in Drive" technology is the latest innovation in the 2000 series of motors.
<b>4000 Compact Series Motors</b>	This new compact addition in the family of disc valve hydraulic motors produces the same amount of torque as the current 4000 Series. Yet, it is housed in an envelope similar to its smaller counterpart, the 2000 Series. The unit's intermittent torque rating is 10,800 lb-in. A variety of mounting options include two 2 bolt mounts (SAE A, SAE B), and four 4 bolt mounts (magneto, standard and wheel mounts). For added flexibility, the motor can be specified with either the larger size shafts of the 2000 Series or standard output shaft sizes of the 4000 Series, plus one new 1-1/2 inch straight (the small envelope and optional shaft sizes make this motor ideal for vehicles like skid-steer loaders whose hallmark is high power and productivity in a small framer).
<b>Delta Series Motors</b>	This wheel motor is the latest addition to the Char-Lynn product line. The Delta motor provides torques up to 11,500 in-lbs. Eaton has packed this motor with many "best in class" features: the optimized geroler profile ensures smooth operation; the disc valve technology has the best performance and the bearing capacity is the highest in the industry for very demanding applications.
<b>4000 Series Motors</b>	The 4000 Series offers up to 8600 in-lb of torque and 25 gpm (continuous ratings). This is the corner stone of the Char-Lynn line.
<b>6000 Series Motors</b>	With torque up to 15,000 in-lb and 40 gpm continuous, this motor is packed with power and smooth operation.
<b>10,000 Series Motors</b>	This is the biggest disc valve motor of our line with up to 46 gpm and 24,000 in-lb of torque in continuous mode, this motor is powerful and yet provides good efficiency.