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MOTORES

H Series (101-)

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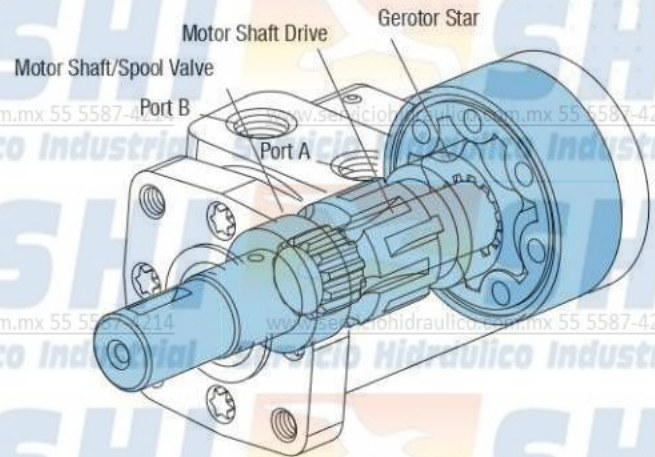
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Specifications

Gerotor Element	13 Displacements
Flow l/min [GPM]	57 [15] Continuous*** 76 [20] Intermittent**
Speed	Up to 1100 RPM
Pressure bar [PSI]	125 [1800] Cont.*** 165 [2400] Inter.**
Torque Nm [lb-in]	407 [3604] Cont.*** 520 [4600] Inter.**

***Continuous— (Cont.) Continuous rating, motor may be run continuously at these
** Intermittent— (Inter.) Intermittent operation, 10% of every minute.



H Series (103-)

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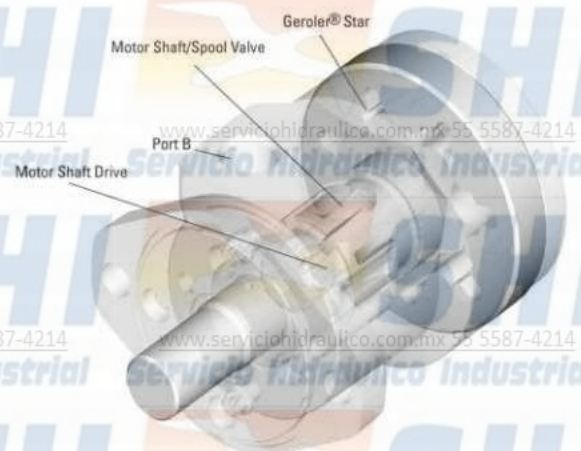
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Specifications

Gerotor Element	10 Displacements
Flow l/min [GPM]	55 [15] Continuous*** 75 [20] Intermittent**
Speed	Up to 963 RPM
Pressure bar [PSI]	135 [2000] Cont.*** 170 [2500] Inter.**
Torque Nm [lb-in]	528 [4672] Cont.*** 587 [5190] Inter.**

*** Continuous— (Cont.) Continuous rating, motor may be run continuously at these ratings.
** Intermittent— (Inter.) Intermittent operation, 10% of every minute.



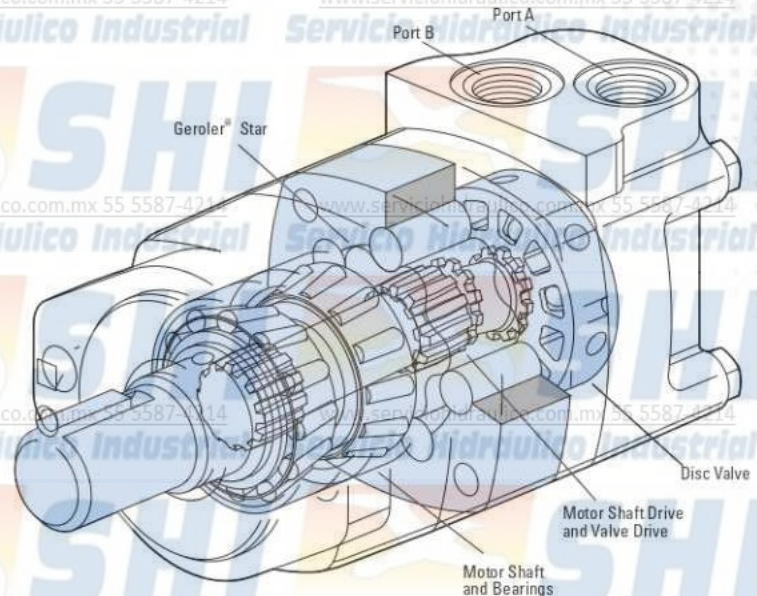
2000 Series

2000 Series

Geroler Element	10 Displacements
Flow l/min [GPM]	75 [20] Continuous**
	115 [30] Intermittent*
Speed RPM	908 Cont.**
	1042 Inter.*
Pressure bar [PSI]	200 [3000] Cont.**
	300 [4500] Inter.*
Torque Nm [lb-in]	845 [7470] Cont.**
	930 [8225] Inter.*

** Continuous—(Cont.) Continuous rating, motor may be run continuously at these ratings.

* Intermittent—(Inter.) Intermittent operation, 10% of every minute.



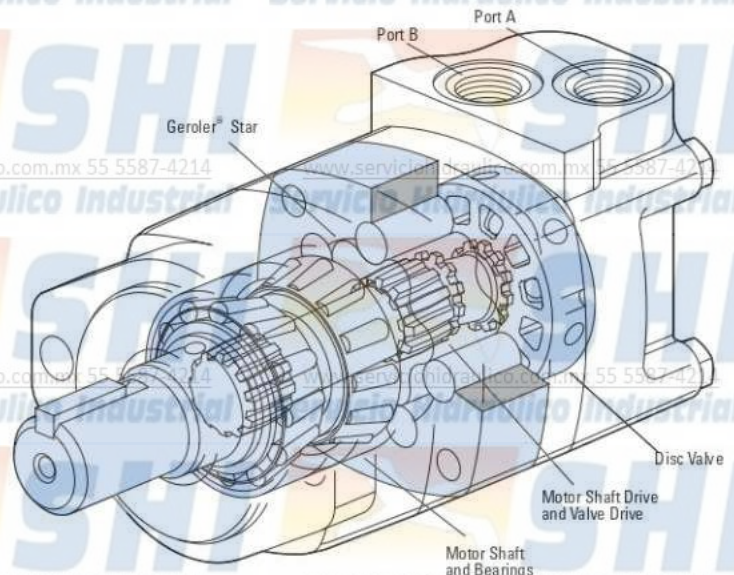
4000 Series

Specifications

Geroler Element	6 Displacements
Flow l/min [GPM]	75 [20] Continuous**
	115 [30] Intermittent*
Speed RPM	464 Cont.**
	699 Inter.*
Pressure bar [PSI]	200 [3000] Cont.**
	300 [4500] Inter.*
Torque Nm [lb-in]	975 [8627] Cont.**
	1218 [10788] Inter.*

** Continuous—(Cont.) Continuous rating, motor may be run continuously at these ratings.

* Intermittent—(Inter.) Intermittent operation, 10% of every minute.



6000 Series

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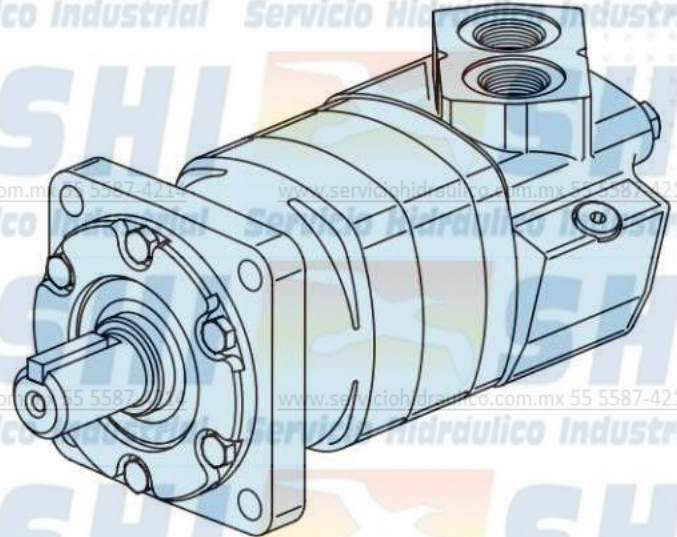
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Specifications

Geroler Element	9 Displacements
Flow l/min [GPM]	150 [40] Continuous**
	225 [60] Intermittent*
Speed RPM	775 Cont.**
	866 Inter.*
Pressure bar [PSI]	200 [3000] Cont.**
	300 [4500] Inter.*
Torque Nm [lb-in]	1685 [14920] Cont.**
	1875 [16580] Inter.*

** Continuous — (Cont.) Continuous rating, motor may be run continuously at these ratings.

* Intermittent — (Inter.) Intermittent operation, 10% of every minute.



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M031

Motor performance data at 2500 PSI (172 bar).

Speed RPM	1" Gear			1 1/2" Gear			2" Gear		
	Output	Input		Output	Input		Output	Input	
Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	
800	675	8.5	9	1035	13	13	1385	17.5	17
	76.5	6.5	34	117	9.5	49	156.5	13	64.5
1200	685	13	13	1055	20	18	1410	27	23.5
	77.5	9.5	49	119	15	68	159.5	20	89
1600	680	17.5	16	1030	26	23	1390	35	30.5
	77	13	60.5	116.5	19.5	87	157	26	115
2000	660	21	19.5	1010	32	28	1370	43.5	37
	74.5	15.5	74	114	24	106	155	32.5	140

U.S./Metric Torque: In.-lbs.
Nm

Flow: GPM
LPM

Power: HP
kW



M051

Motor performance data at 2500 PSI (172 bar).

Speed RPM	1" Gear			1 1/2" Gear			2" Gear			2 1/2" Gear		
	Output	Input		Output	Input		Output	Input		Output	Input	
Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	
800	825	10.5	10.5	1310	16.5	15.5	1810	23	21	2330	29.5	26
	93	8	39.5	148	12.5	58.5	204.5	17	79.5	263.5	22	98.5
1200	850	16	15.5	1340	25.5	22.5	1830	35	30.5	2340	44.5	37.5
	96	12	58.5	151.5	19	85	207	26	115	264.5	33	142
1600	830	21	20	1330	34	30	1805	46	40	2300	58.5	49.5
	94	15.5	75.5	150.5	25.5	114	204	34.5	151	260	43.5	187
2000	800	25.5	25	1290	41	37	1770	56	49	2250	71.5	61.5
	90.5	19	94.5	146	30.5	140	200	42	185	254	53.5	233

U.S./Metric Torque: In.-lbs.
Nm

Flow: GPM
LPM

Power: HP
kW

M076

Motor performance data at 2500 PSI (172 bar) unless noted.

Speed RPM	1" Gear			1 1/2" Gear			2" Gear			2 1/2" Gear			3" Gear*		
	Output	Input		Output	Input		Output	Input		Output	Input		Output	Input	
Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	Torque	Power	Flow	
800	1410	18	20.5	2140	27	28	2875	36.5	35.5	3650	46.5	43	3625	46	50.5
	159.5	13.5	77.5	242	20	106	325	27	134	412.5	34.6	163	409.5	34.5	191
1200	1400	26.5	27.5	2140	41	38	2870	54.5	49.5	3650	69.5	60.5	3575	68	72
	158	20	104	242	30.5	144	324.5	40.5	187	412.5	52	229	404	50.5	273
1600	1375	35	34	2110	53.5	49	2830	72	64	3600	91.5	78.5	3500	89	93
	155.5	26	129	238.5	40	185	319.5	53.5	242	406.5	68	297	395.5	66.5	352
2000	1350	43	41.5	2090	66.5	59	2800	89	78	3500	111	96.5	3425	109	114
	152.5	32	157	236	49.5	223	316.5	66.5	295	395.5	83	365	387	81.5	431

U.S./Metric Torque: In.-lbs.
Nm

Flow: GPM
LPM

Power: HP
kW

*Motor performance data at 2000 PSI (138 bar).

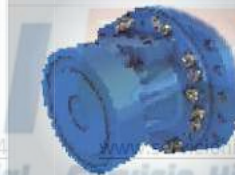
SELECT YOUR HYDROBASE

1-displacement without
parking brake

1-displacement with
parking brake

2-displacement without
parking brake

2-displacement with
parking brake



Bearing support types



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Wheel flange

Male splined shaft

Femal splined shaft

Keyed shaft

Shaft for shrink disc

Dual sprocket

MS02-E02	•	•	•	•	•
MSE03	•	•	•	•	•
MS05-E05	•	•	•	•	•
MS08-E08	•	•	•	•	•
MS11-E11	•	•	•	•	•
MS18-E18	•	•	•	•	•
MS25	•	•	•	•	•
MS35	•	•	•	•	•
MS50	•	•	•	•	•
MS83	•	•	•	•	•
MS125	•	•	•	•	•

Motor fixation types



Chassis fixation on the valving cover - two ears

Chassis fixation on the bearing - two ears

Chassis fixation on the bearing - circular

MS02-E02	•	•	•
MSE03	•	•	•
MS05-E05	•	•	•
MS08-E08	•	•	•
MS11-E11	•	•	•
MS18-E18	•	•	•
MS25	•	•	•
MS35	•	•	•
MS50	•	•	•
MS83	•	•	•
MS125	•	•	•



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Hydraulic fluids

For the choice of hydraulic fluid, Intermot recommend the use of high quality mineral -based hydraulic oil, containing anti-wear, anti-foaming, anti-oxidation and extreme pressure additives.

Allowable oil temperature range:- 20 to +80°C

Operating viscosity range: optimal from 40 cSt 60cSt

Choice of hydraulic oil should be made so that the viscosity is within the given range at its normal operating temperature.

Start-up

Before connecting any tubes ensure that they are thoroughly clean. Avoid any oxidation of surface that come into contact with oil. Before starting work, motor casing must be filled in with oil. Before starting work, the hydraulic circuit should be purged of air. This can be achieved by running the motor without load for 10-20 minutes, checking no leakage there be from connections. During the first few hours of working under load checks should be made for leakages from connection and ensure all components remain firmly fixed to their supports. All motors are factory tested and do not require to be run-in.

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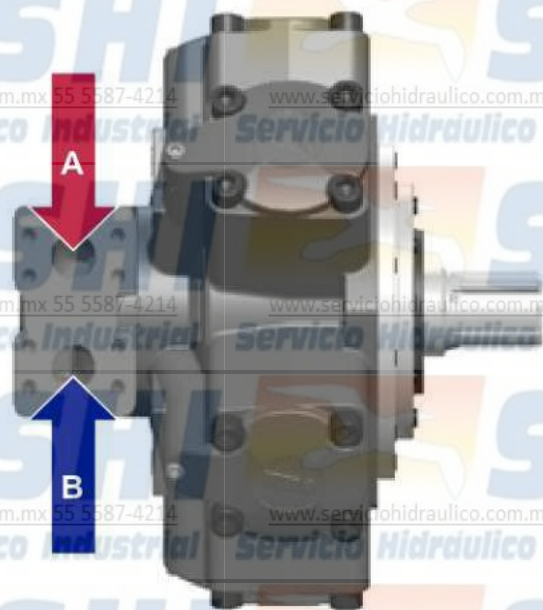
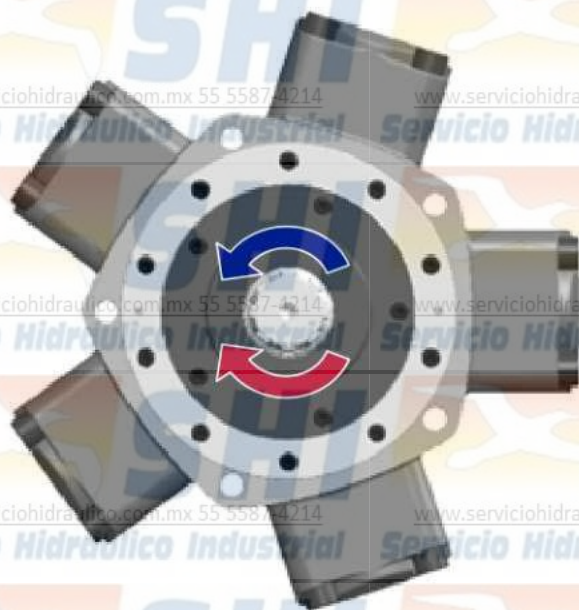
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Motor	Flushing flow [l/min]
IAM+ H1 100	5
IAM+ H1 150 – 175 – 200 – 250 – 300	6
IAM+ H2 200 – 250 – 300	
IAM+ H2 350 – 400 – 500	8
IAM+ H3 400 – 500	
IAM+ H2 600	10
IAM+ H3 600 – 700 – 800	
IAM+ H4 800 – 900 – 1000 – 1100 – 1200 – 1400	
IAM+ H5 1000 – 1200 – 1400 – 1600 – 1800 – 2000	
IAM+ H5 2200	15
IAM+ H6 2500 – 2800 – 3000 – 3200 – 3500	
IAM+ H7 3900 – 2800 – 4300 – 4600 – 5000 – 5400	20

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High Speed Vane Motors

25M, 35M, 45M and 50M Series



Specifications

Model Series	Torque Nm/6,9 bar (lb in/100 psi)	Displacement cm ³ /r (in ³ /r)	Flow input/required @1200 r/min L/min (USgpm)	Maximum speed & pressures	Approx. weight kg (lb)
25M	4,7 (42) 6,2 (55) 7,3 (65)	43,9 (2.68) 57,7 (3.52) 68,7 (4.19)	52,6 (13.9) 69,3 (18.3) 82,5 (21.8)	3600 r/min @ 34 bar (500 psi) † 4000 r/min @ 34 bar (500 psi) ‡	18 (40)
35M	9,0 (80) 10,7 (95) 13,0 (115)	83,6 (5.10) 100,3 (6.12) 121,9 (7.44)	100,3 (26.5) 120,4 (31.8) 146,1 (38.6)		29 (64)
45M	14,7 (130) 17,5 (155) 20,9 (185)	138,0 (8.42) 163,2 (9.96) 193,2 (11.79)	165,4 (43.7) 195,7 (51.7) 232,0 (61.3)	2600 r/min @ 155 bar (2250 psi) † 3000 r/min @ 172 bar (2500 psi) ‡	39 (85)
50M	24,9 (220) 28,8 (255) 33,9 (300)	231,2 (14.11) 268,1 (16.36) 317,1 (19.35)	277,5 (73.3) 321,8 (85.0) 380,4 (100.5)	2800 r/min @ 34 bar (500 psi) † 3200 r/min @ 34 bar (500 psi) ‡ 2200 r/min @ 155 bar (2250 psi) † 2400 r/min @ 172 bar (2500 psi) ‡•	73 (160)

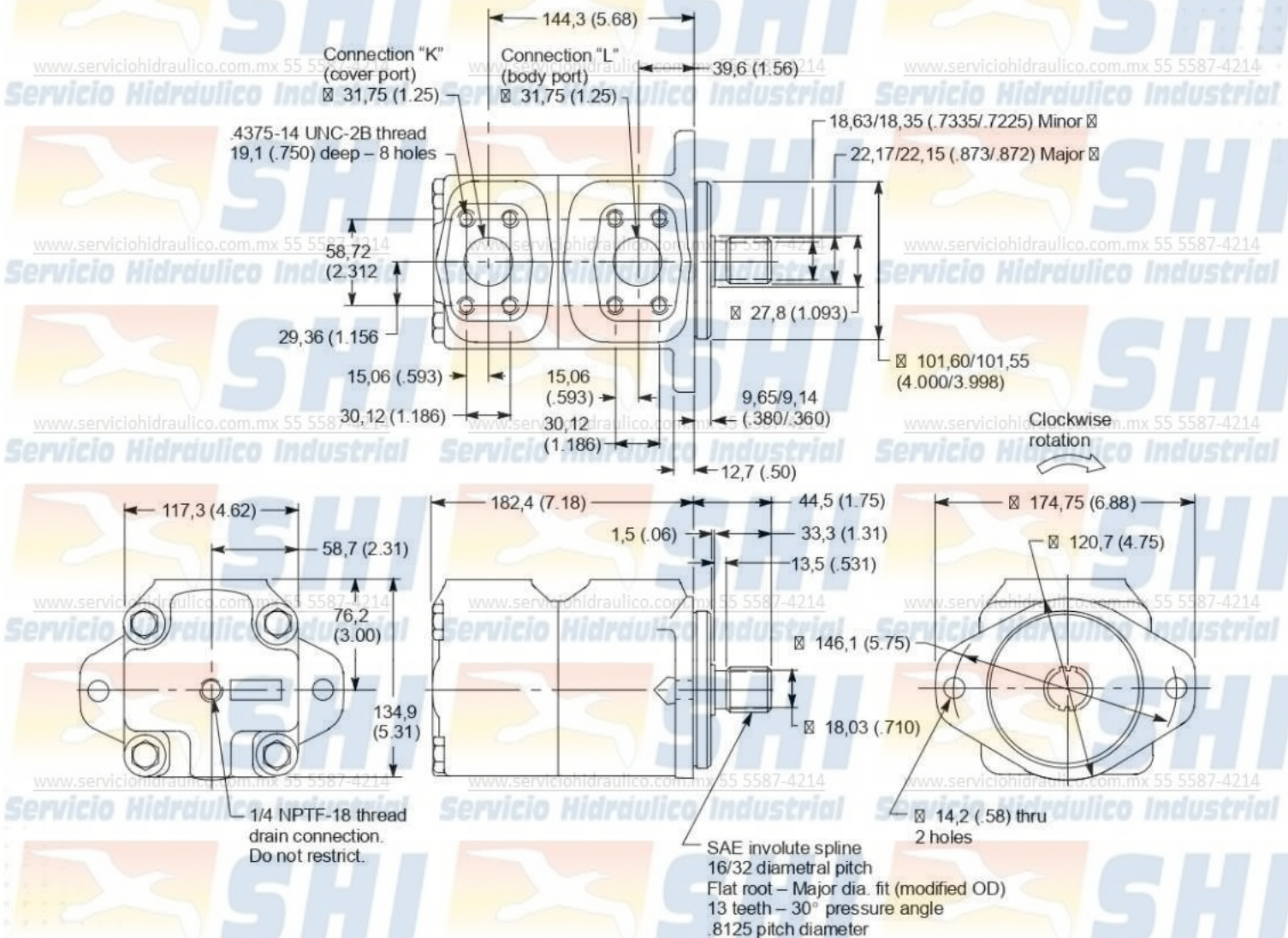
† Continuous operation

‡ Intermittent operation: 10% of total operating time; each application of pressure and/or speed not to exceed 6 seconds

• 114 model suffix: 2500 psi, counterclockwise; 2250 psi, clockwise. (Rotation viewed from shaft end)

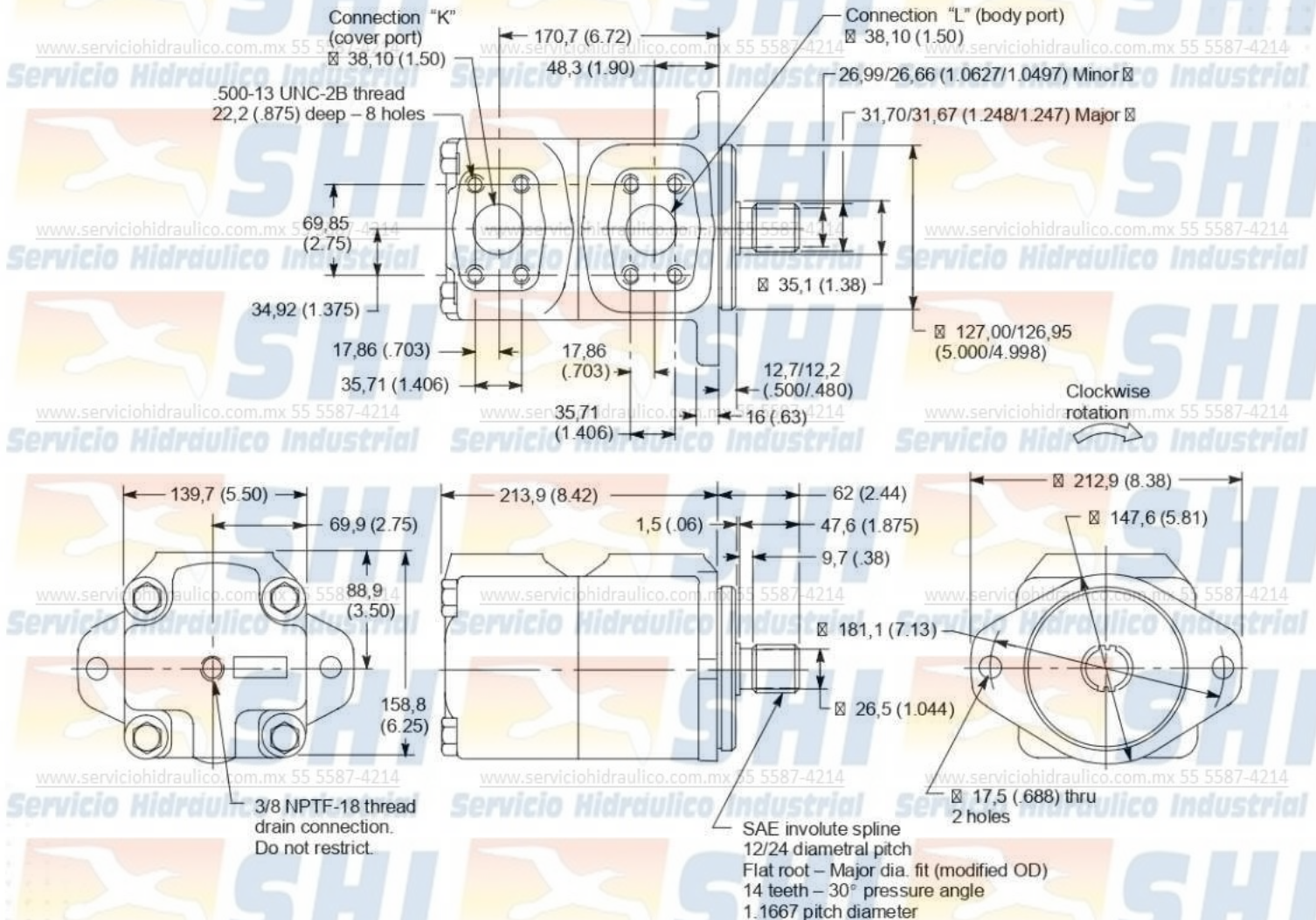
124 model suffix: 2500 psi, bi-directional rotation

25M Series



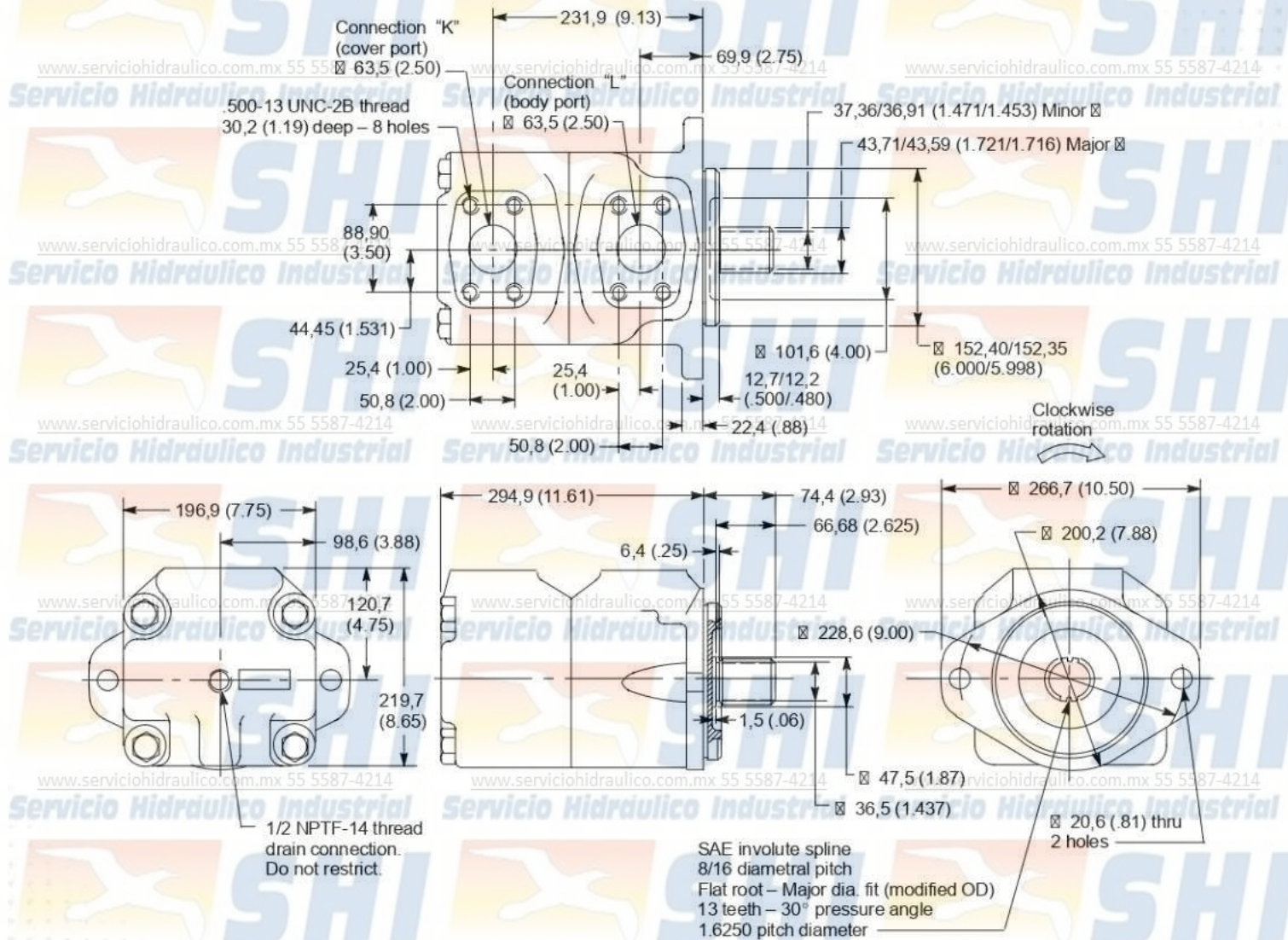
Dimensions in millimeters (inches)

35M Series



Dimensions in millimeters (inches)

50M Series



Dimensions in millimeters (inches)



Solución a su Problema Hidráulico en 24 hrs.

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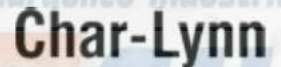
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Donaldson



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