

Axial Piston High Pressure Pump For Seawater

HPS 22~39



Manufacturer By: SHANGHAI THINKTANK PROCESS MANAGEMENT CO., LTD

THINKTANK



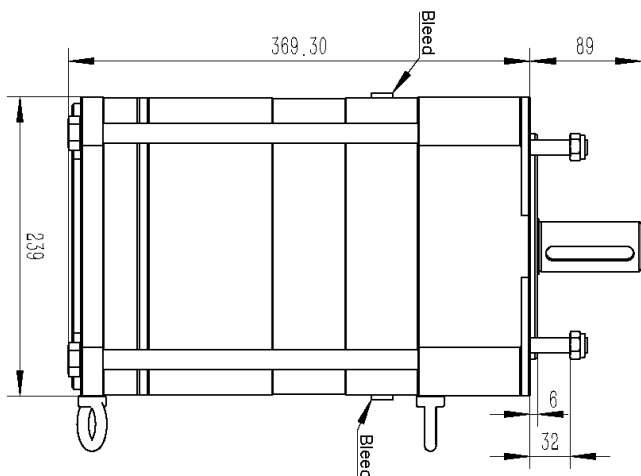
Specification - HPS 22~39

Pumps Model	22	24	26	31	39
Code Number	TT010200221	TT010200222	TT010200223	TT010200224	TT010200224
Displacement (cc/rev)	254.5	280.6	306.8	360	441.4
Housing Material	2205/2507	2205/2507	2205/2507	2205/2507	2205/2507
Min. Outlet Pressure (barg)	10	10	10	10	10
Max. Outlet Pressure (barg)	70 (1500rpm) 85 (1200rpm)	70 (1500rpm) 85 (1200rpm)	70 (1500rpm) 85 (1200rpm)	70 (1500rpm) 85 (1200rpm)	70 (1500rpm) 85 (1200rpm)
Inlet Pressure Continuous (barg)	2-5	2-5	2-5	2-5	2-5
Min. Speed,Continuous(rpm)	700	700	700	700	700
Max. Speed * (rpm)	1500	1500	1500	1500	1500
Flow Rate (m³/H) (85barg,700 rpm)	10.10	11.20	12.20	14.53	18.10
Flow Rate (m³/H) (85barg,1000 rpm)	14.76	16.35	17.85	21.08	26.00
Flow Rate (m³/H) (85barg,1200 rpm)	17.80	19.68	21.46	25.40	31.45
Flow Rate (m³/H) (70barg,1500 rpm)	22.18	24.5	26.76	31.65	39.10
Calculation Factor(at maximum speed)	531	537	534	540	541
Motor Selection (KW) (Maximum pressure, maximum speed)	75	75	75	90	110
Media Temperature (°C)	2~50	2~50	2~50	2~50	2~50
Sound Pressure Level (dB) **	85	85	85	85	85
Weight (kg)	98	98	98	98	98
Integrated Flush Valve	YES	YES	YES	YES	YES

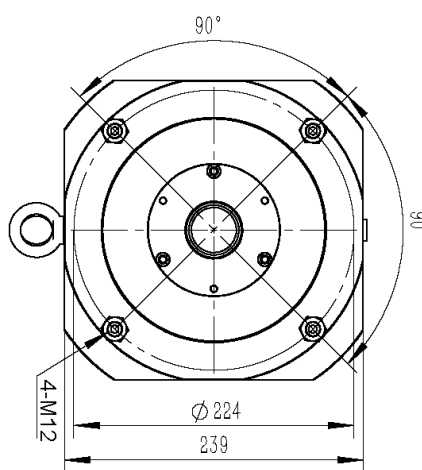
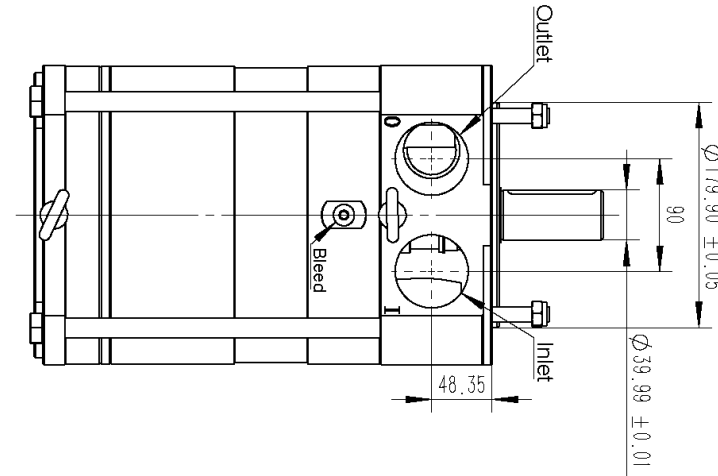
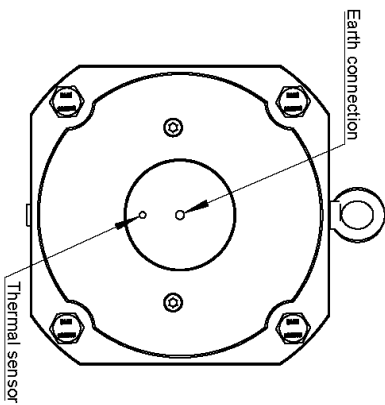
* At maximum speed, the inlet pressure must be at least 2 barg;

** Sound Pressure Level: Calculated according to EN ISO 3744: 2010 / dB(A) [LPA, 1m], when driven by a motor and operating at maximum working pressure and speed.

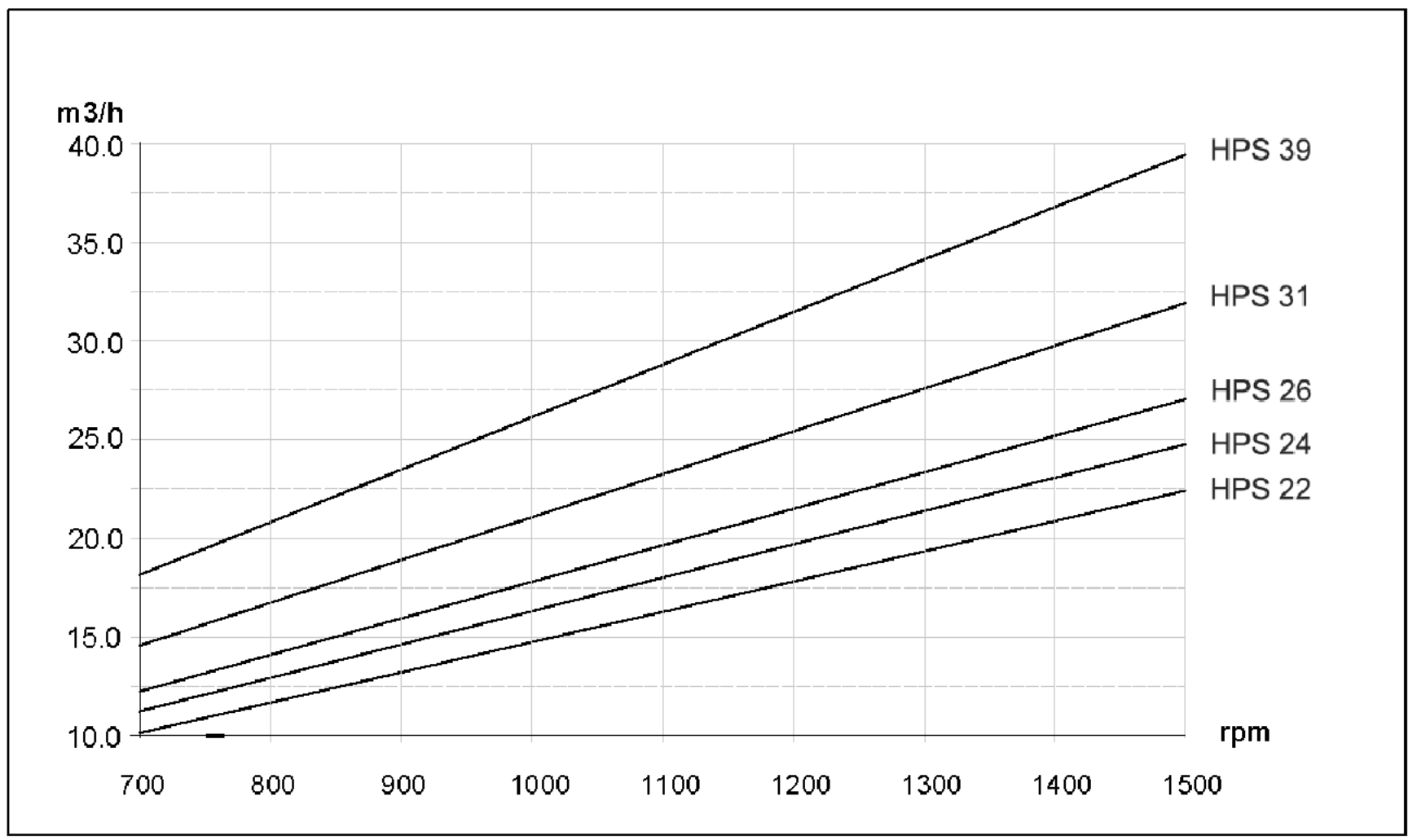
Installation Dimensions (HPS 22~39)



Parallel Key	12*8*70 (DIN6885)
Bleed	G 1/4" * 4
Inlet Port	M60*1.5; Depth 25mm
Outlet Port	M60*1.5; Depth 25mm
Earth Conn.	M8; Depth 8mm
Thermal Sensor	M6; Depth 8mm

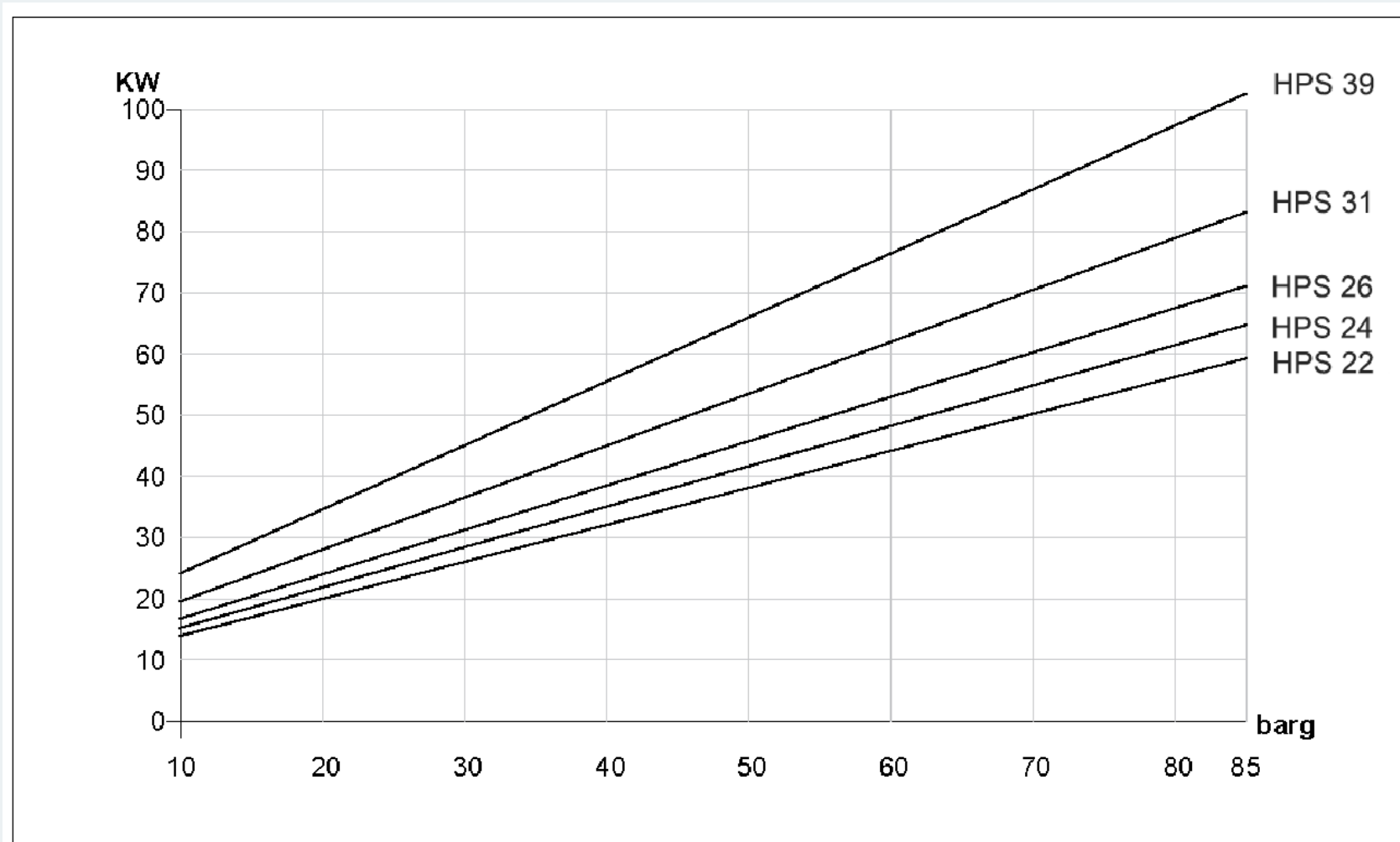


HPS 22~39 Typical Flow Curve at Maximum Pressure

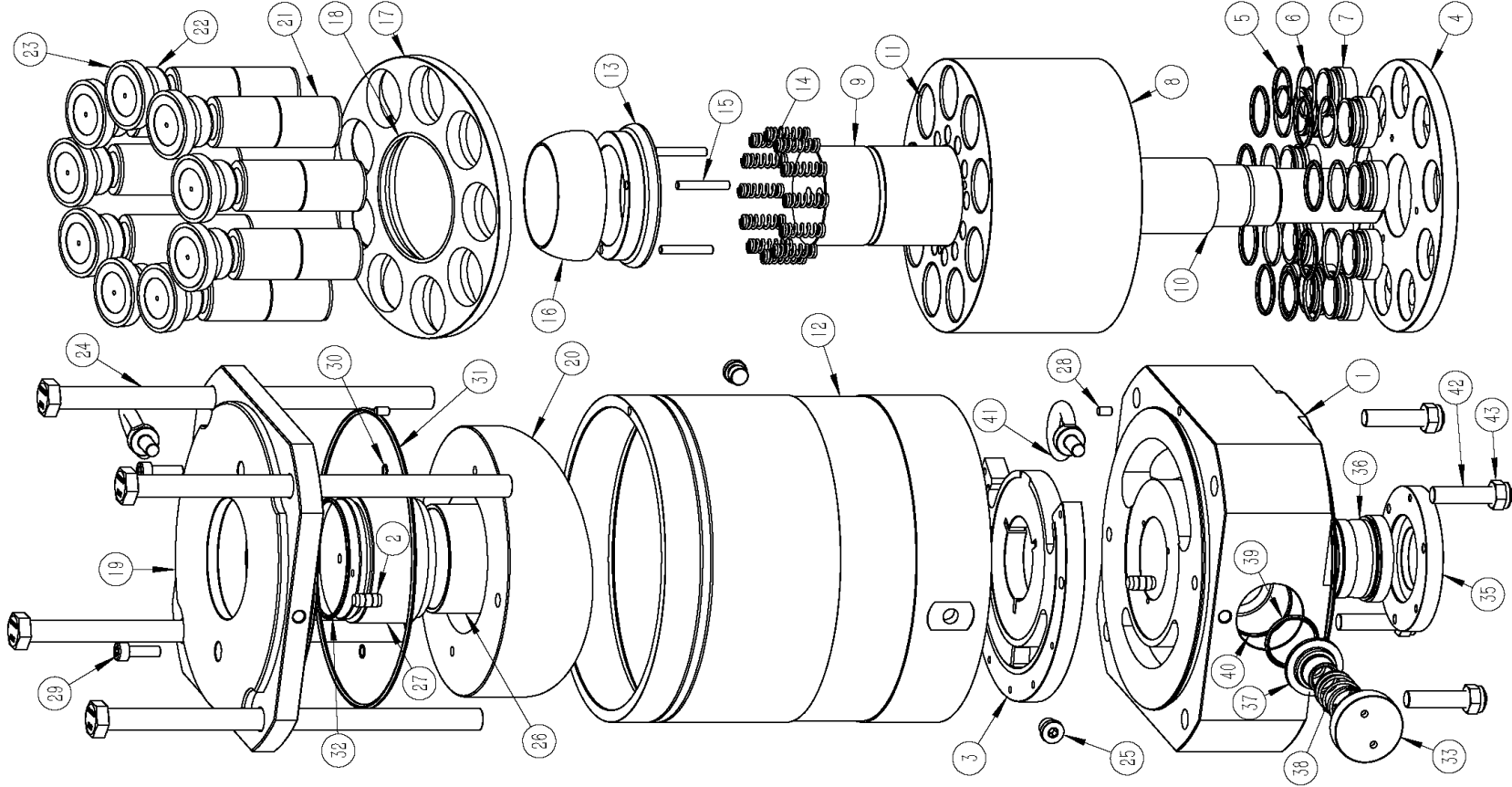
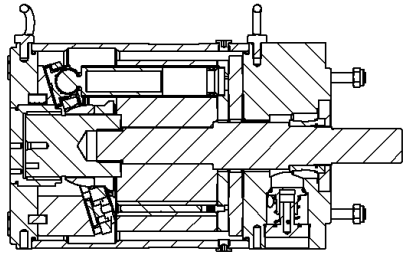


HPS 22~39 Motor Power Curve

Different Pressures at Maximum Speed



Drawing - HPS 22~39



No.	Parts	Material	Qty
1	Connection Flange-26	2507	1
2	Round Pin 10-20	2507	5
3	Distribution Plate	PEEK	1
4	Valve Plate	2507	1
5	O-Ring 31-3.0	NBR	9
6	Seal Ring	PTFE	9
7	Guide Sleeve	2507	9
8	Piston Cylinder	2507	1
9	Main Shaft Extension Shaft	2507	1
10	Main Shaft-26	2507	1
11	Piston Bushing	PEEK	9
12	Housing	2205	1
13	Ball Joint Gasket	2507	1
14	Return Plate Spring	2507	12
15	Round Pin	2507	3
16	Ball Joint	2507	1
17	Return Plate	2507	1
18	Return Plate Sleeve	PEEK	1
19	Bottom Cover	2205	1
20	Swash Plate	2507	1
21	Piston	2507	9
22	Slipper	2507	9
23	Slipper PEEK	PEEK	9
24	Hexagon Screw	316	4
25	G1/4 Hex Plug	316	2
26	Main Shaft Bearing-2	PEEK	1
27	Shaft Seal Seat	2507	1
28	Round Pin	2507	2
29	Internal Hexagon Screw M8-25	316	2
30	O-Ring 8.0-1.0	NBR	2
31	O-Ring 212-3.55	NBR	2
32	O-Ring 82.5-2.65	NBR	1
33	Flushing Valve Cover	2205	1
34	Main Shaft Bearing-1	PEEK	1
35	Shaft Seal Cover	2205	1
36	Mechanical Seal	NBR	1
37	Flushing Valve Core	2507	1
38	Flushing Valve Spring	2507	1
39	O-Ring 35-3.0	NBR	1
40	O-Ring 50-2.0	NBR	1
41	Lifting Screw M10	316	2
42	Internal Hexagon Screw M12-60	316	4
43	Anti-Loose Nut M12	316	4