

Axial Piston High Pressure Pump For Seawater

HPS 5.1~10.2



Manufacturer By: SHANGHAI THINKTANK PROCESS MANAGEMENT CO., LTD

THINKTANK



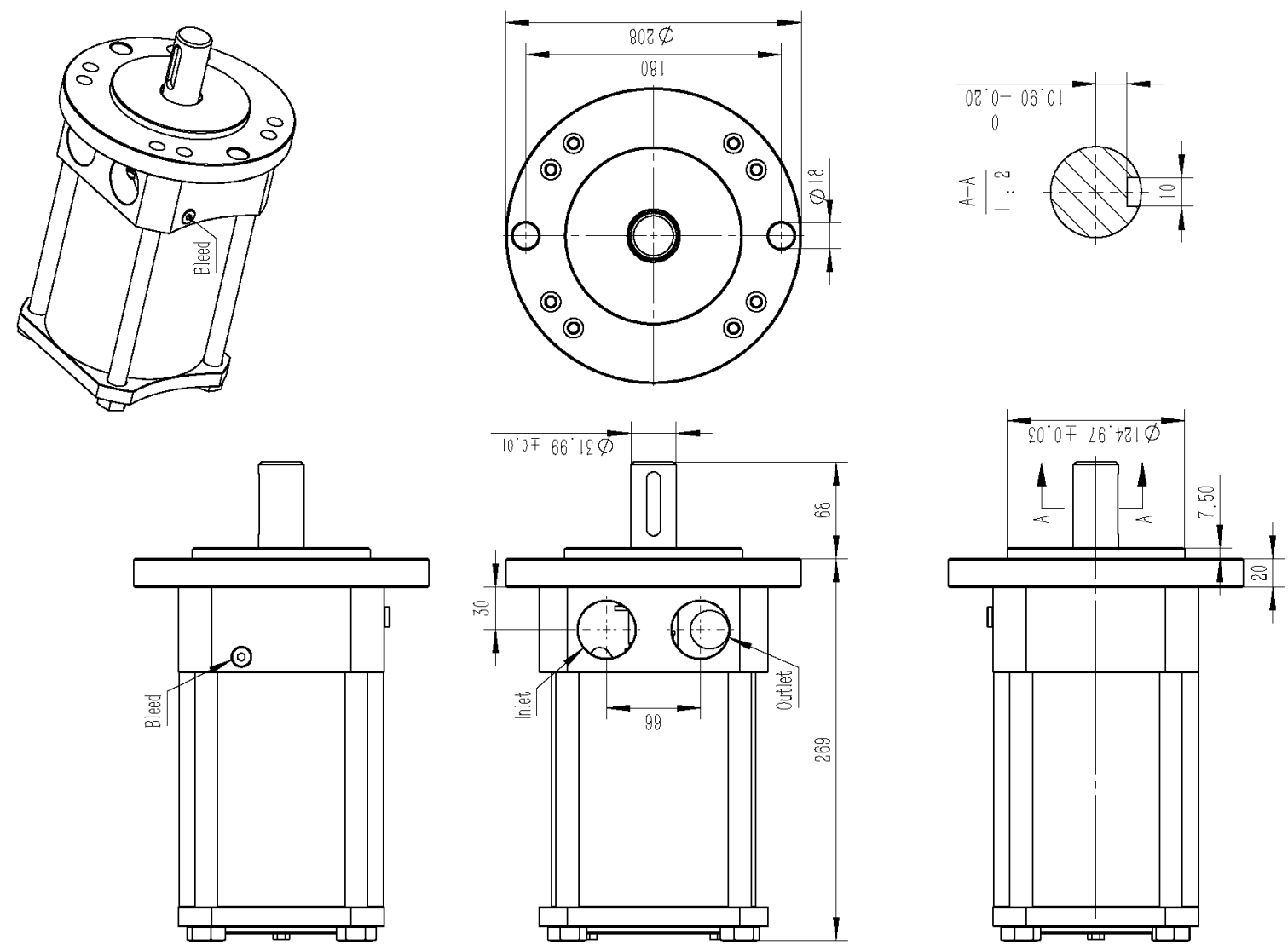
Specification - HPS 5.1~10.2

Pumps Model	5.1	6.5	7.2	8.2	10.2
Code Number	TT010200210	TT010200211	TT010200212	TT010200213	TT010200214
Displacement (cc/rev)	51.2	65.8	71.7	80.65	101.5
Housing Material	2205	2205	2205	2205	2205
Min. Outlet Pressure (barg)	20	20	20	20	20
Max. Outlet Pressure (barg)	85	85	85	85	85
Inlet Pressure Continuous (barg)	0.5-5	0.5-5	0.5-5	0.5-5	0.5-5
Min. Speed,Continuous (rpm)	700	700	700	700	700
Max. Speed * (rpm)	1800	1800	1800	1800	1800
Flow Rate (m³/H) (85barg,700 rpm)	1.70	2.30	2.58	3.00	3.86
Flow Rate (m³/H) (85barg,1000 rpm)	2.8	2.58	4.00	4.64	5.85
Flow Rate (m³/H) (85barg,1200 rpm)	3.21	4.18	4.70	5.45	6.88
Flow Rate (m³/H) (85barg,1500 rpm)	4.20	5.38	6.00	6.95	8.86
Flow Rate (m³/H) (85barg,1800 rpm)	5.04	6.45	7.22	8.30	10.50
Calculation Factor (at maximum speed)	506	514	518	523	528
Motor selection (KW) (Maximum pressure, maximum speed)	15	18.5	22	22	30
Media Temperature (°C)	2~50	2~50	2~50	2~50	2~50
Sound Pressure Level (dB) **	78	78	78	78	78
Weight (kg)	31.5	31.5	31.5	31.5	31.5
Integrated Flush Valve	YES	YES	YES	YES	YES

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

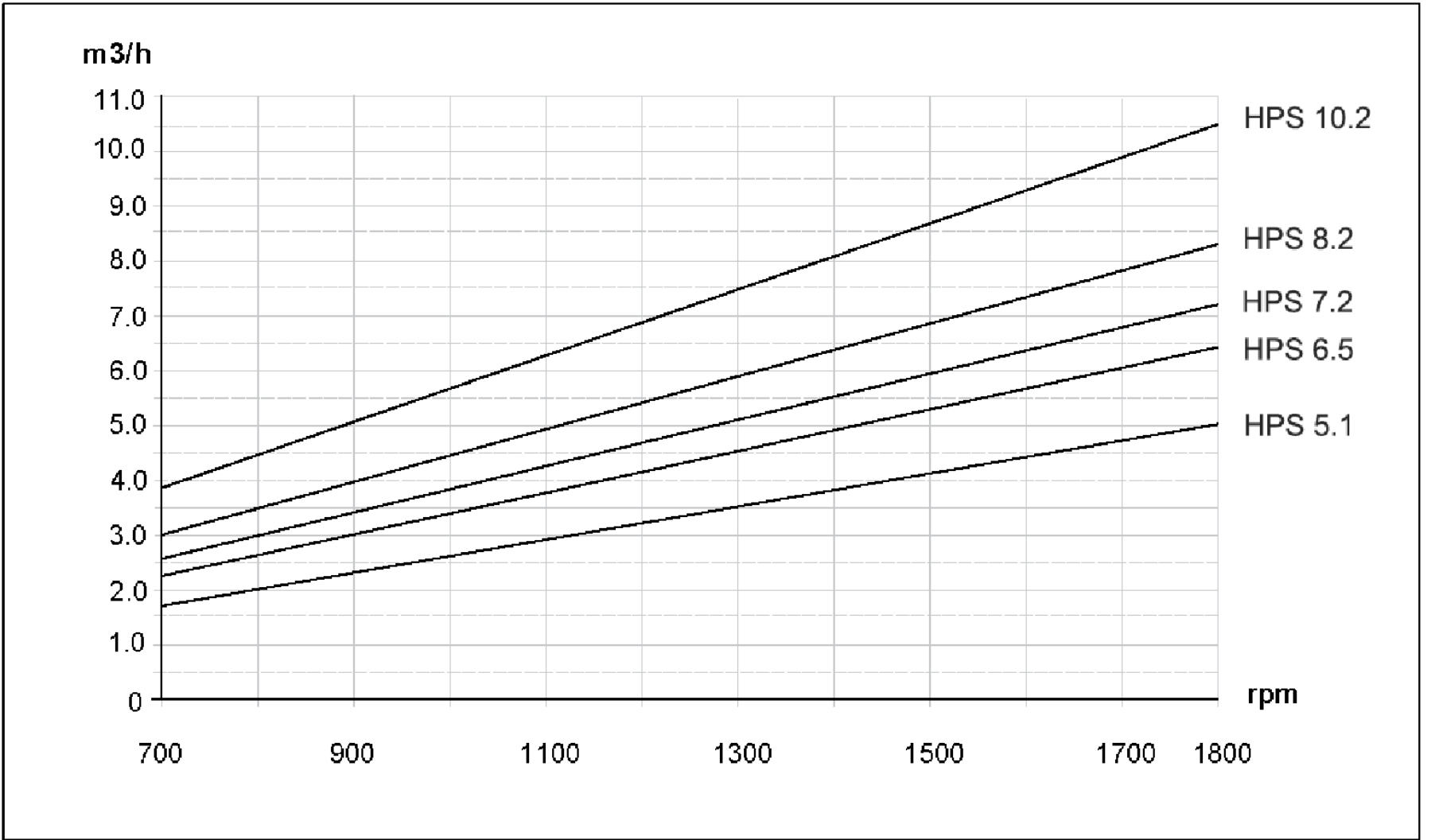
** Sound Pressure Level: Calculated according to EN ISO 3744: 2010 / dB(A) [LPA, 1m], when driven by a motor and operating at maximum working pressure and speed.

Installation Dimensions (HPS 5.1~10.2)



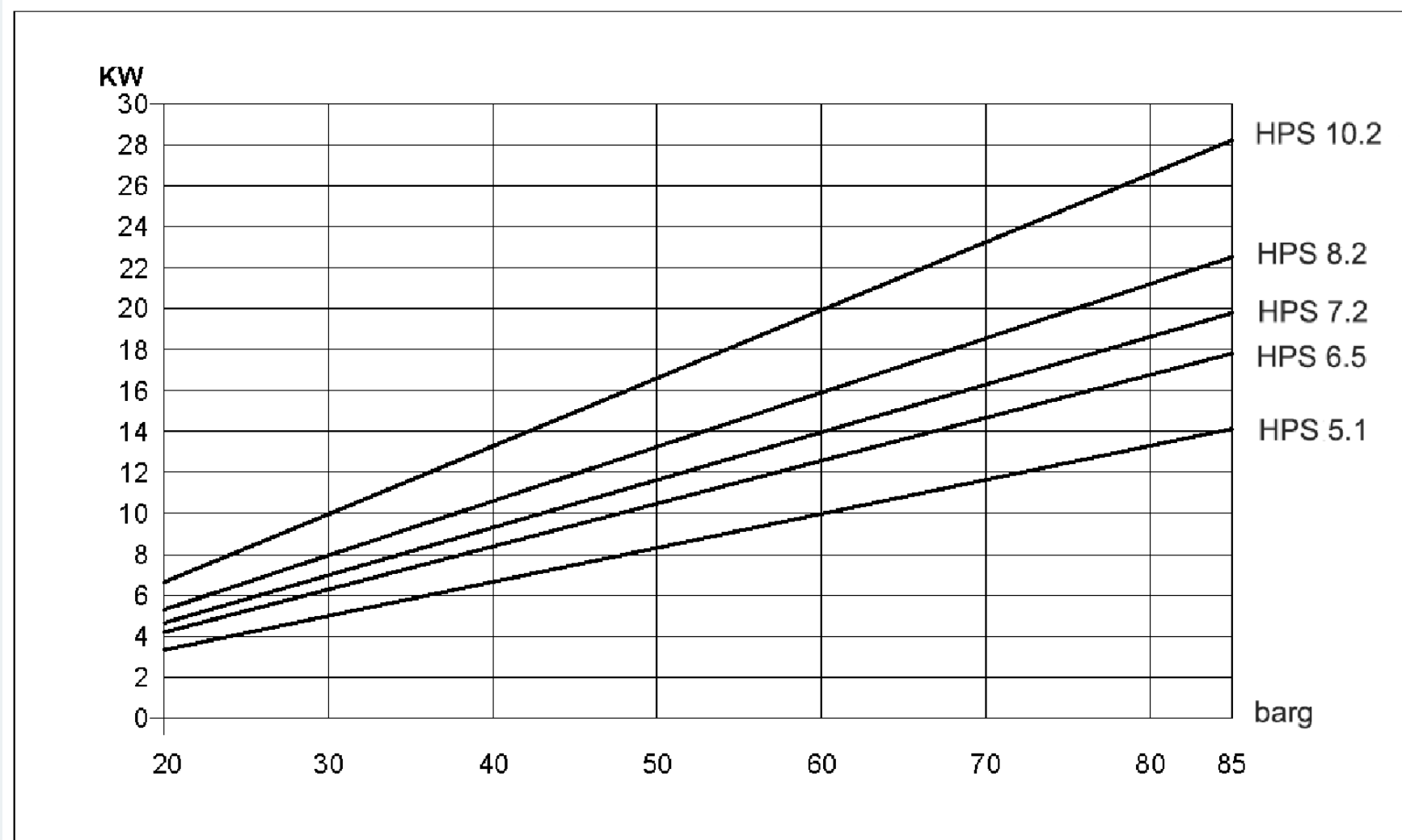
Parallel Key	10*8*45 (DIN6885)
Bleed	G 1/8"
Inlet Port	M42*1.5; Depth 15mm
Outlet Port	M42*1.5; Depth 15mm

HPS 5.1~10.2 Typical Flow Curve at Maximum Pressure

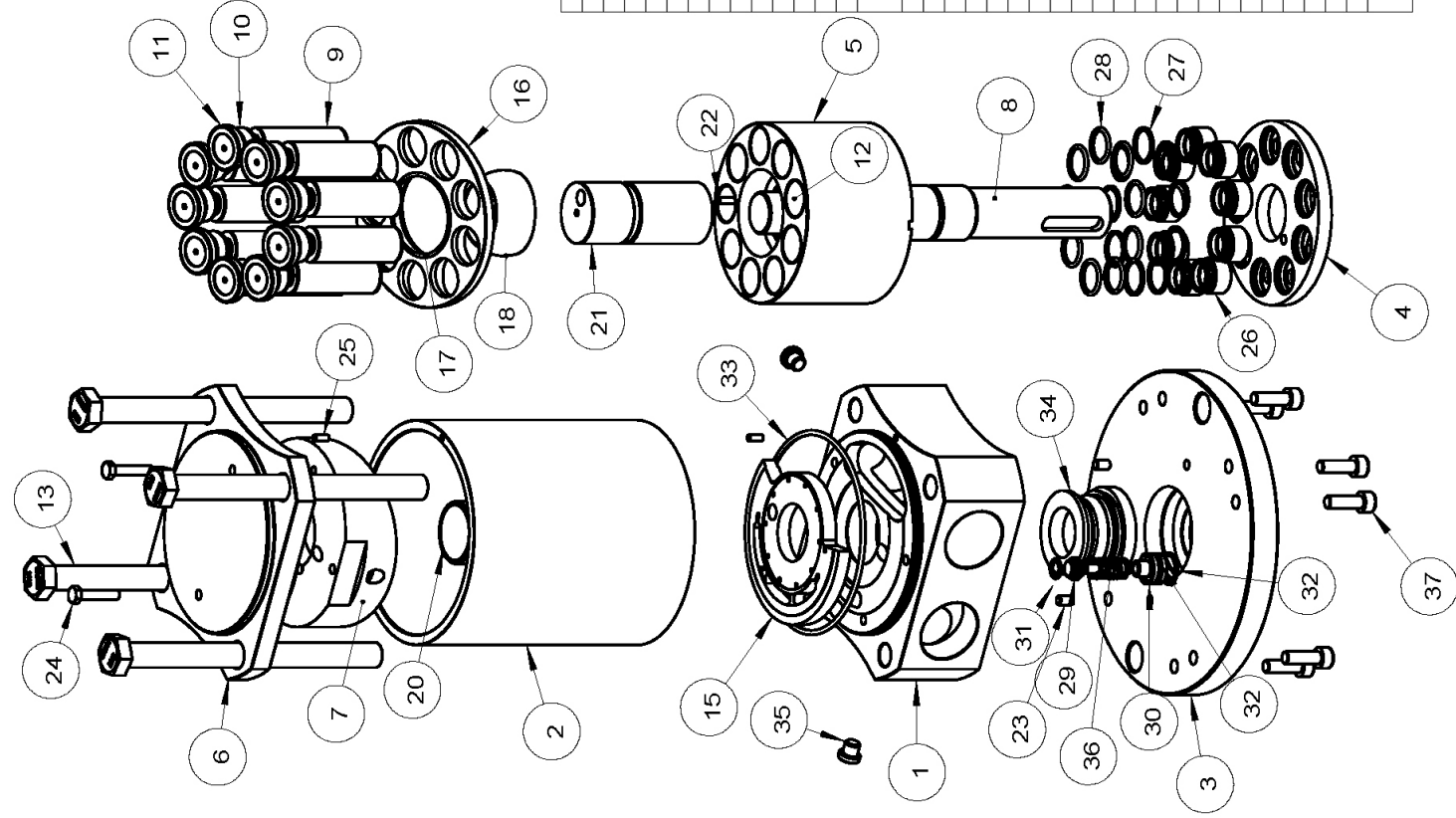
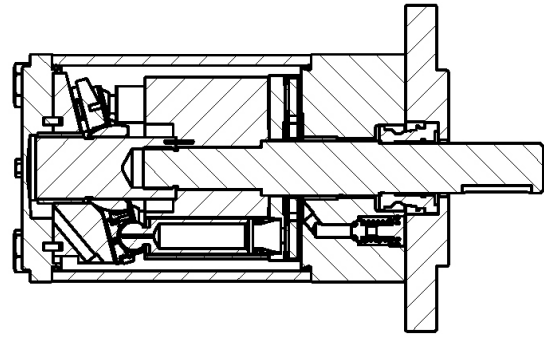


HPS 5.1~10.2 Motor Power Curve

Different Pressures at Maximum Speed



Drawing - HPS 5.1~10.2



No.	Parts	Qty	Material
1	Connection Flange 8.2	1	2507
2	Housing	1	2205
3	Mounting Flange	1	316L
4	Pressure Relief Valve Plate	1	2507
5	Piston Cylinder	1	2507
6	Bottom Cover	1	2205
7	Swash Plate-81	1	2507
8	Main Shaft	1	2507
9	Piston	9	2507
10	Slipper	9	2507
11	Slipper PEEK	9	PEEK
12	Piston Bushing	9	PEEK
13	Hexagon Socket Screw	4	316L
14	Distribution Plate with iron Core	1	2205
15	Distribution Plate	1	PEEK
16	Return Plate	1	2507
17	Return Plate Sleeve	1	PEEK
18	Ball Joint	1	2507
19	Main Shaft Bearing-1	1	PEEK
20	Main Shaft Bearing-2	1	PEEK
21	Main Shaft Extension Shaft	3	2507
22	Round Pin 4-12	3	2205
23	Round Pin 6-10	4	316L
24	Hex Socket Screw M6X30	2	316
25	Round Pin 4-10	2	316L
26	Valve Plate Guide Sleeve	9	2507
27	Guide Seal Ring	9	PTFE
28	O-Ring 18.5-2.4-90	9	NBR
29	Flushing Valve Core	1	2507
30	Valve Cover	1	2205
31	O-Ring 2.0	2	NBR
32	O-Ring 6.5-2.0	2	NBR
33	O-Ring 125-3-70	1	NBR
34	Mechanical Seal	1	NBR+316
35	G1/8 Hex Plug	2	316L
36	Flushing Valve Spring	1	2507
37	Hex Socket Screw DIN912-M8-25	2	316L