

Axial Piston High Pressure Pump For Seawater

HPS 11~13

THINKTANK



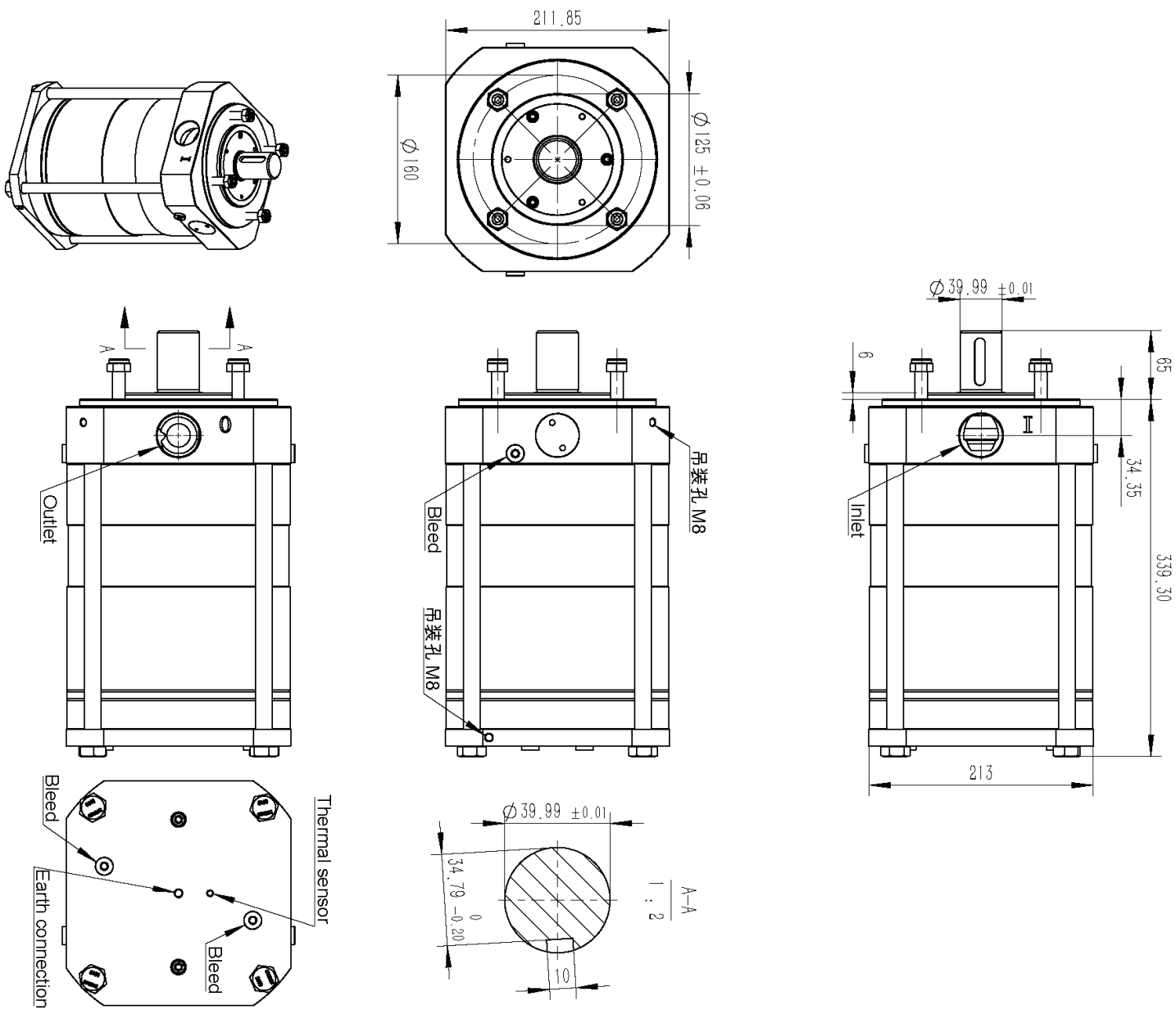
Specification - HPS 11.0~13.0

Pumps Model	11.0	13.0
Code Number	TT010200215	TT010200216
Displacement (cc/rev)	138.4	169.1
Housing Material	2205	2205
Min. Outlet Pressure (barg)	10	10
Max. Outlet Pressure (barg)	70 (1500rpm) 85 (1200rpm)	70 (1500rpm) 85 (1200rpm)
Inlet Pressure Continuous (barg)	2-5	2-5
Min. Speed,Continuous (rpm)	700	700
Max. Speed * (rpm)	1500	1500
Flow Rate (m³/H) (85barg,700 rpm)	4.80	6.00
Flow Rate (m³/H) (85barg,1000 rpm)	7.50	9.24
Flow Rate (m³/H) (85barg,1200 rpm)	8.95	11
Flow Rate (m³/H) (70barg,1500 rpm)	11.26	13.85
Calculation Factor(at maximum speed)	502	505
Motor Selection (KW) (Maximum pressure, maximum speed)	30	37
Media Temperature (°C)	2~50	2~50
Sound Pressure Level (dB) **	85	85
Weight (kg)	72	72
Integrated Flush Valve	YES	YES

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

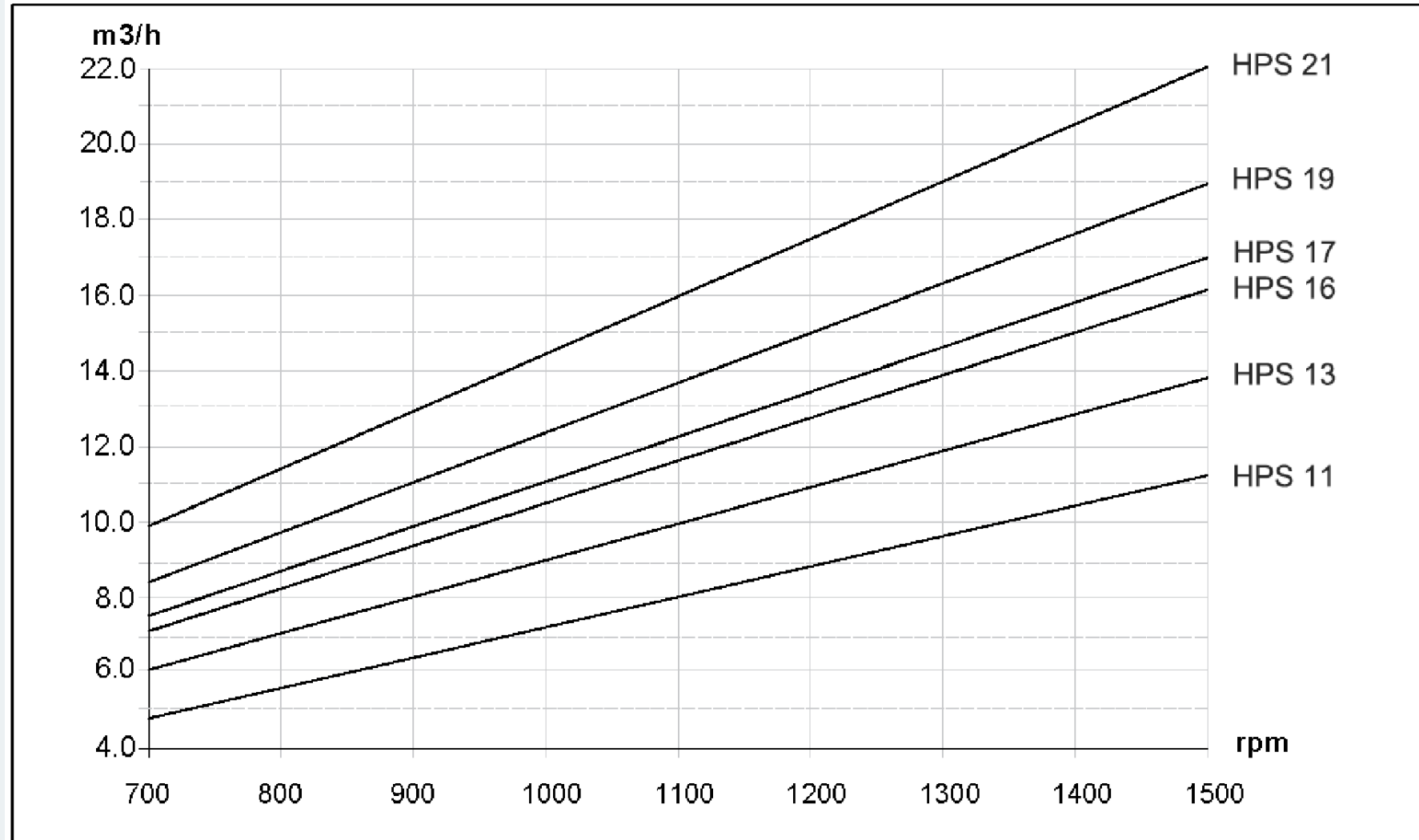
** Sound Pressure Level: Calculated according to EN ISO 3744: 2010 / dB(A) [LPA, 1m], when driven by a motor and operating at maximum working pressure and speed.

Installation Dimensions (HPS 11~13)



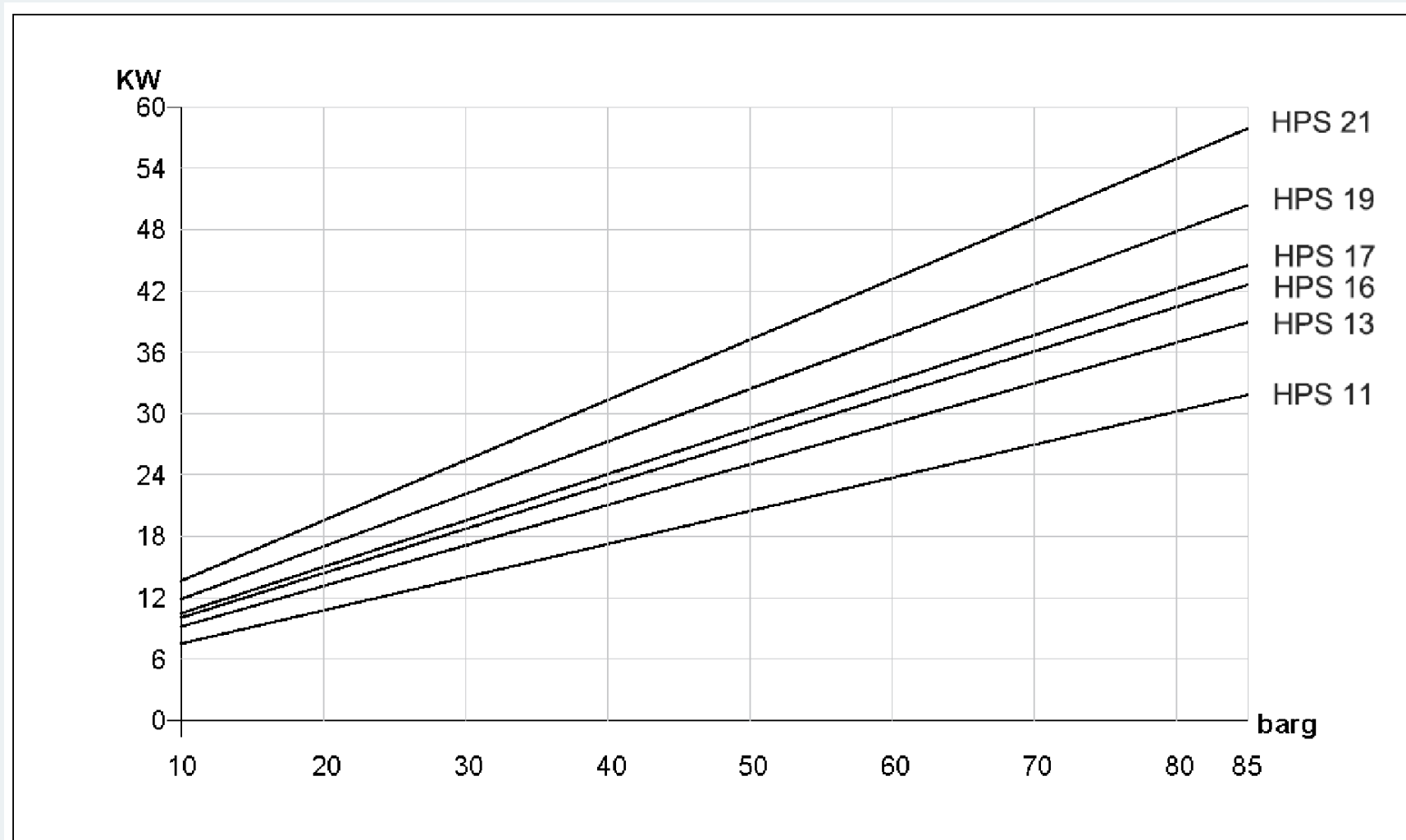
Parallel Key	10*8*45 (DIN6885)
Bleed	G 1/4" * 4
Inlet Port	M42*1.5; Depth 19mm
Outlet Port	M42*1.5; Depth 19mm
Earth Conn.	M8; Depth 8mm
Thermal Sensor	M6; Depth 8mm

HPS 11~13 Typical Flow Curve at Maximum Pressure

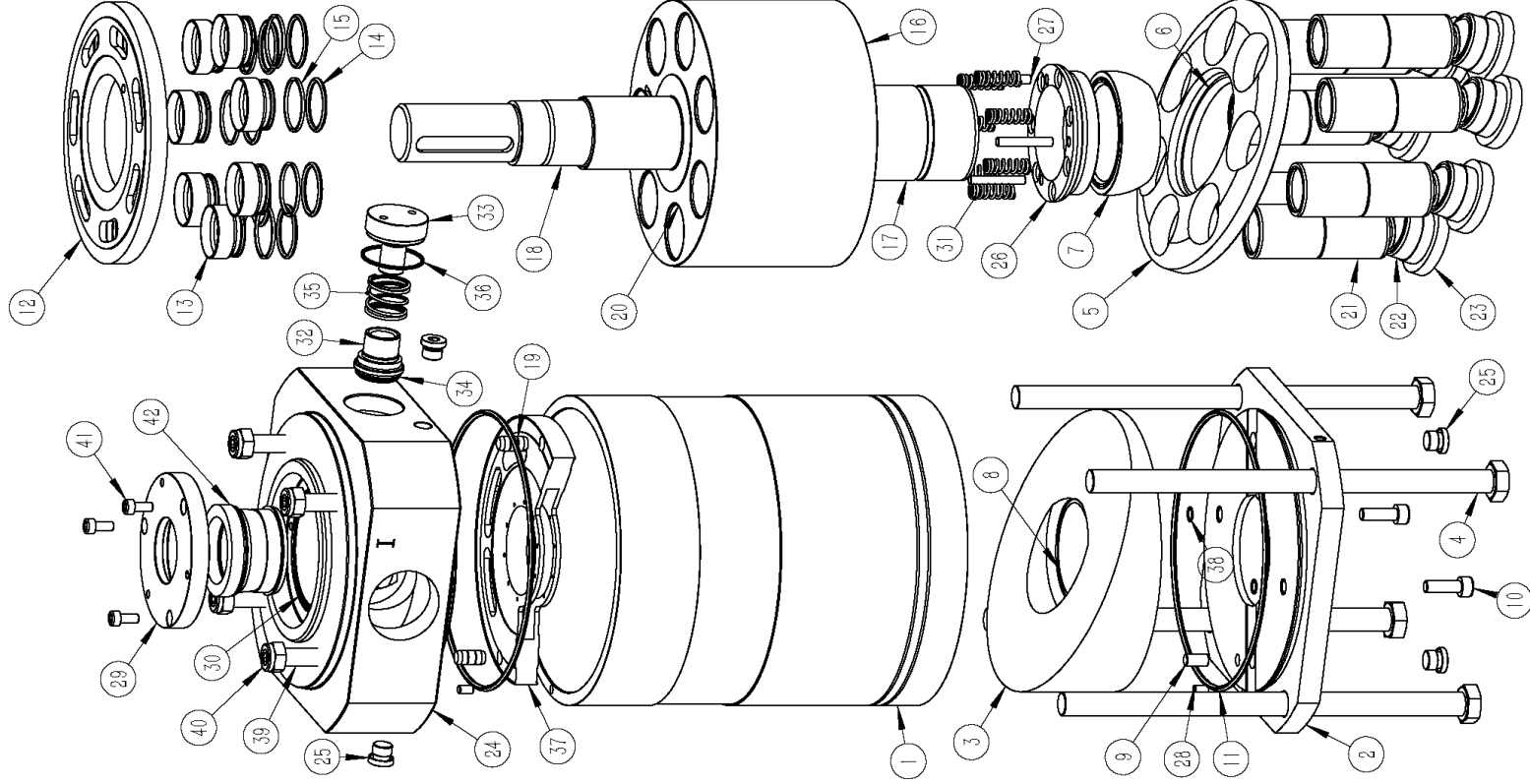
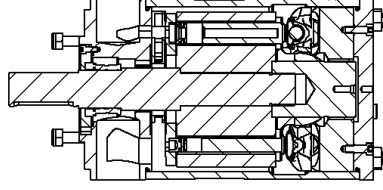


HPS 11~13 Motor Power Curve

Different Pressures at Maximum Speed



Drawing - HPS 11~13



No.	Parts	Material	Qty
1	Body	2205	1
2	Bottom Cover	2205	1
3	Swash Plate-81	2507	1
4	Hexagon Screw	316L	4
5	Return Plate	2507	1
6	Return Plate Sleeve	PEEK	1
7	Ball Joint	2507	1
8	Main Shaft Bearing-1	PEEK	1
9	Round Pin 8-16	2507	2
10	Internal Hexagon Screw M8-25	316	2
11	O-Ring 185-3.55	NBR	2
12	Pressure Relief Valve Plate	2507	1
13	Valve Plate Guide Sleeve	2507	7
14	O-Rng 31-3.0-90	NBR	2
15	Guide Seal Ring	PTFE	7
16	Piston Cylinder	2507	1
17	Main Shaft Extension Shaft	2507	1
18	Main Shaft-22	2507	1
19	Round Pin 10-20	2507	3
20	Piston Bushing	PEEK	7
21	Piston	2507	7
22	Slipper	2507	7
23	Slipper PEEK	PEEK	7
24	Connection Flange 22	2507	1
25	ED Hex Plug G1-4	2205	4
26	Ball Joint Gasket	2507	1
27	Round Pin 6-40	2507	3
28	Round Pin 6-10	2507	2
29	Shaft Seal Cover	2205	1
30	O-Ring 81-2.5	NBR	1
31	Return Plate Spring	2507	7
32	Flushing Valve Core	2507	1
33	Flushing Valve	2205	1
34	O-Ring 25-3.0	NBR	1
35	Flushing Valve Spring	2507	1
36	O-Ring 39.5-2.0	NBR	1
37	Distribution Plate	PEEK	1
38	O-Ring 8.0-1.0	NBR	2
39	Internal Hexagon Screw M12-60	316	4
40	Anti-Loose Nut M12	316	4
41	Internal Hexagon Screw M6-14	316	3
42	Mechanical Seal	NBR	1