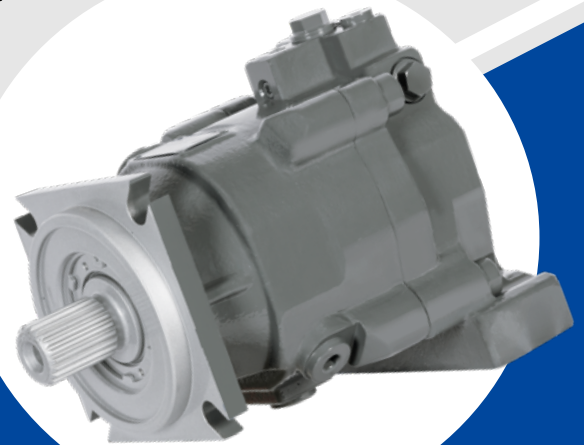
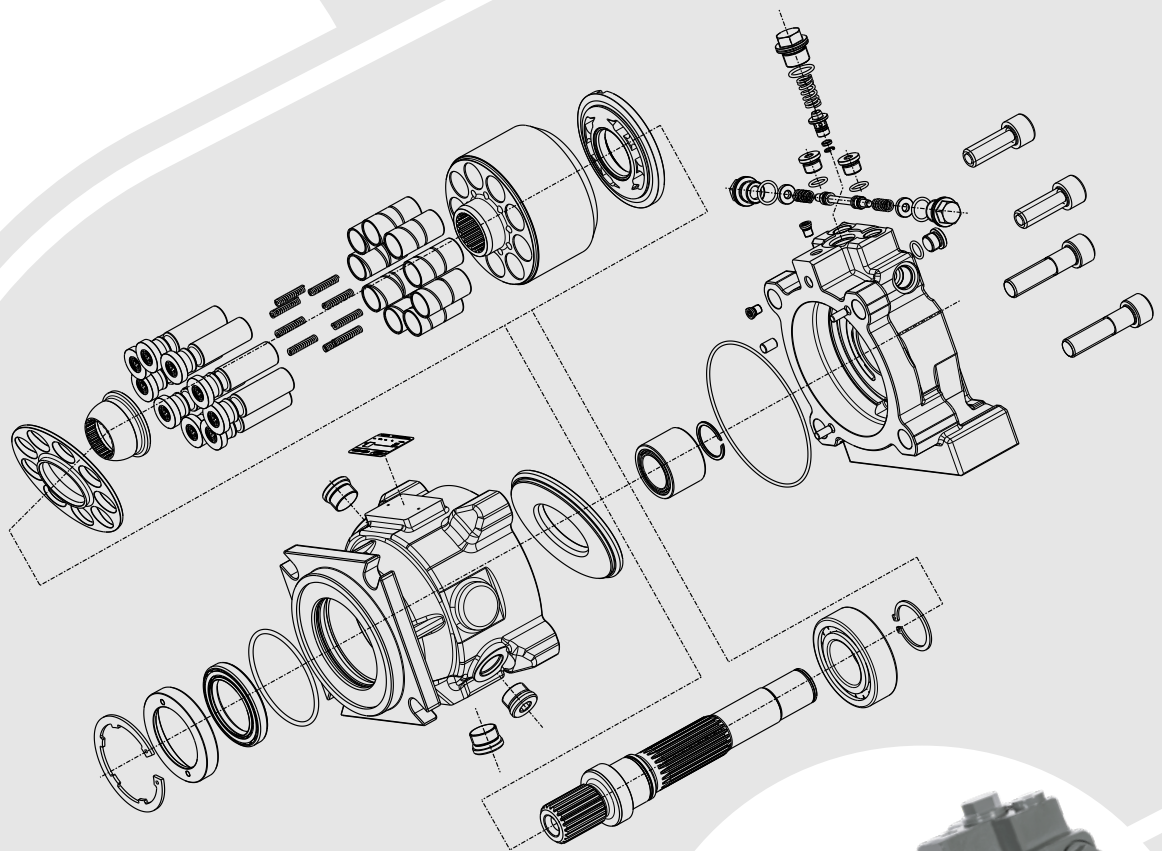




Parts Manual

M70F Series

Swash-plate Type Axial Piston Fixed
Displacement Motor

Contents

M70F Series	
1.General Information	02
2.Functional Description	02
3.Product Parts	03
3.1 M70F-45*	-
3.2 M70F-55*	-
3.3 M70F-63*	-
3.4 M70F-65*	-
3.5 M70F-75	03
3.6 M70F-85*	-
3.7 M70F-100*	-
3.8 M70F-130*	-

Note: “*” indicates under production.

1 General information

This manual lists parts related information for the full range of M70F swash-plate type axial piston fixed displacement motor. The main purpose of this manual is to better serve our customers by enabling them to quickly locate parts and find Hengli Genuine Parts.

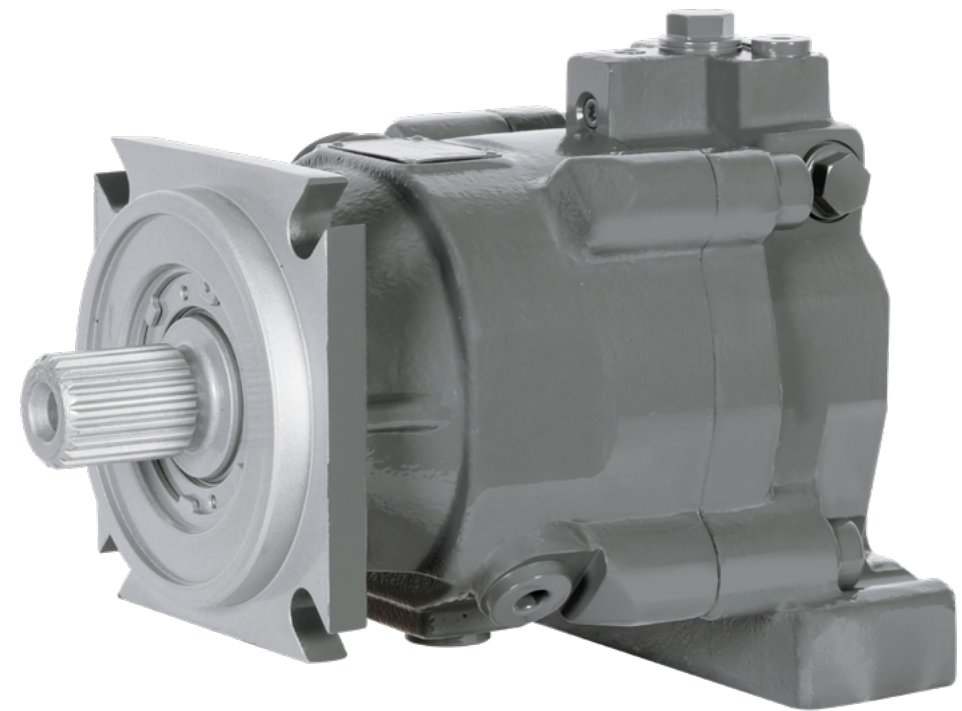
If you require more detailed information on parts, please contact
Jiangsu Hengli Hydraulic Co.,Ltd.
www.henglihydraulics.com
or consult with the relevant sales engineer.

2 Functional Description

- Based on the information on the nameplate attached to the motor, the basic configuration of the motor can be determined, e.g.: M70F752AMM4L2-AN
For specific information, please refer to the Hengli catalogue selection to find the corresponding parts.
- With the nameplate information, you can quickly find information such as shaft, housing, bearing and other component material numbers in this manual.

3 M70F75 Product Parts

3.5 M70F75

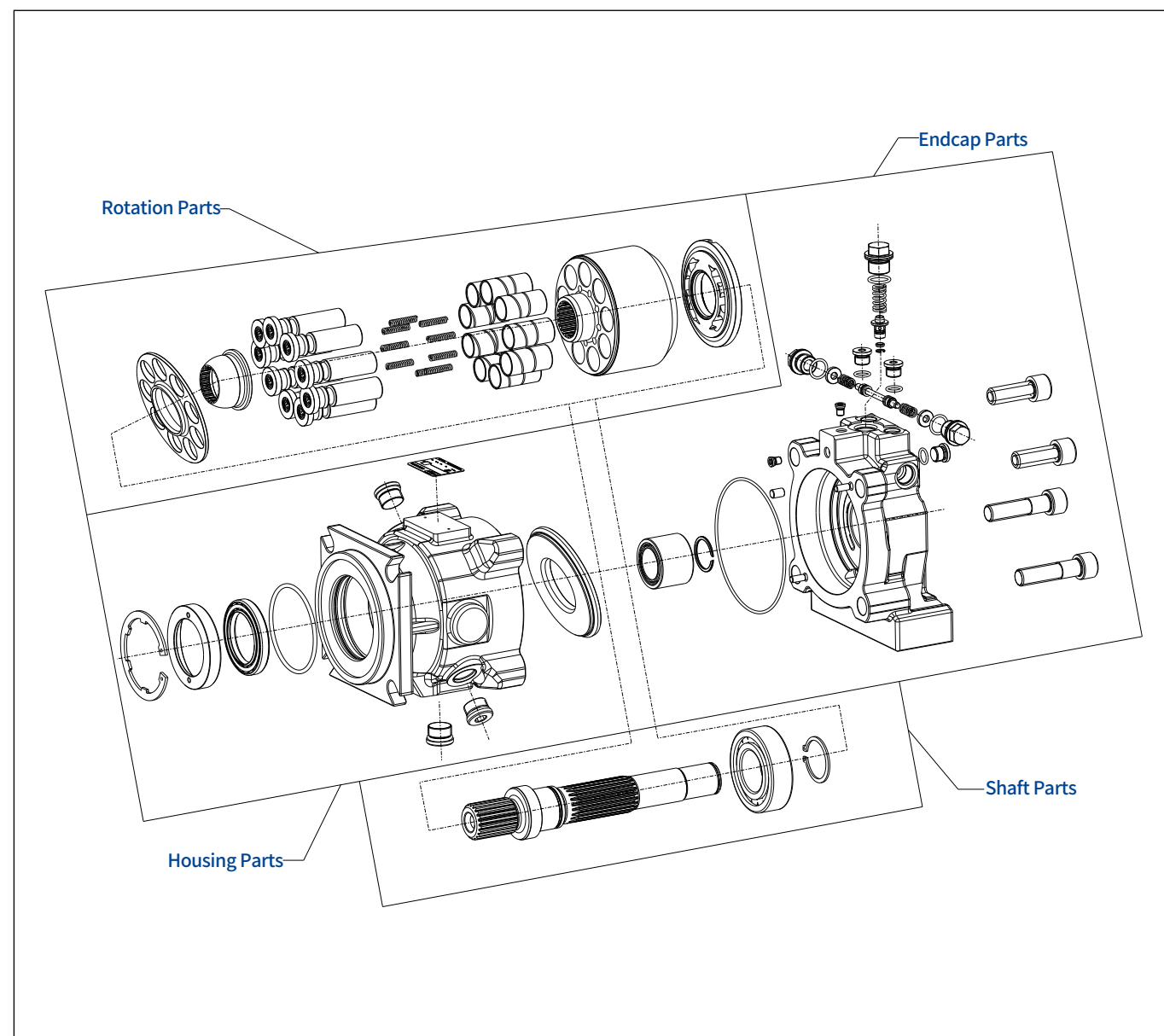


M70F-75

3.5 M70F75

·Take L2 with mount flange SAE J744 127-4 as an example.

M70F75 Integral Parts



3.5 M70F75

M70F75 Parts Catalogue

3.5.1 Endcap Parts

Specifications and positions of the inlet and outlet ports selection 2A 06-07
Specifications and positions of the inlet and outlet ports selection 2R 08-09

3.5.2 Shaft Parts

Shaft selection 4/A 10

3.5.3 Housing Parts

Mounting flange selection L2; drain port selection A 11
Mounting flange selection L2; drain port selection M 12
Mounting flange selection L2; drain port selection E 13

3.5.4 Damping Plate Parts

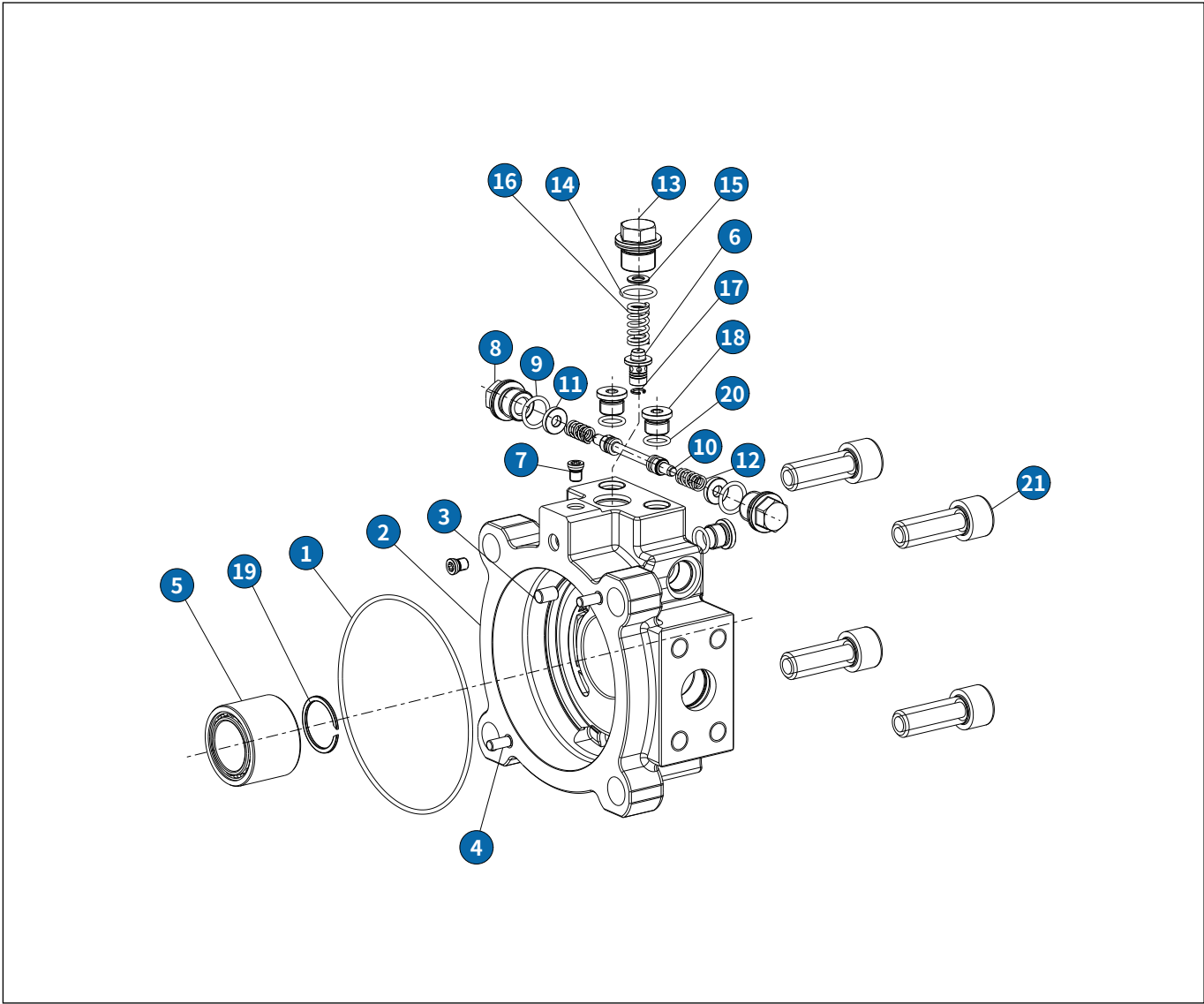
Special version with flushing valve selection A/B/C/D/E/F 14-15

3.5.5 Rotation Parts

Rotation parts 16-17

3.5.1 M70F75 Endcap Parts

· Inlet and outlet ports order code 2A: ISO 6162-2 DN25, opposite side



3.5.1 M70F75 Endcap Parts

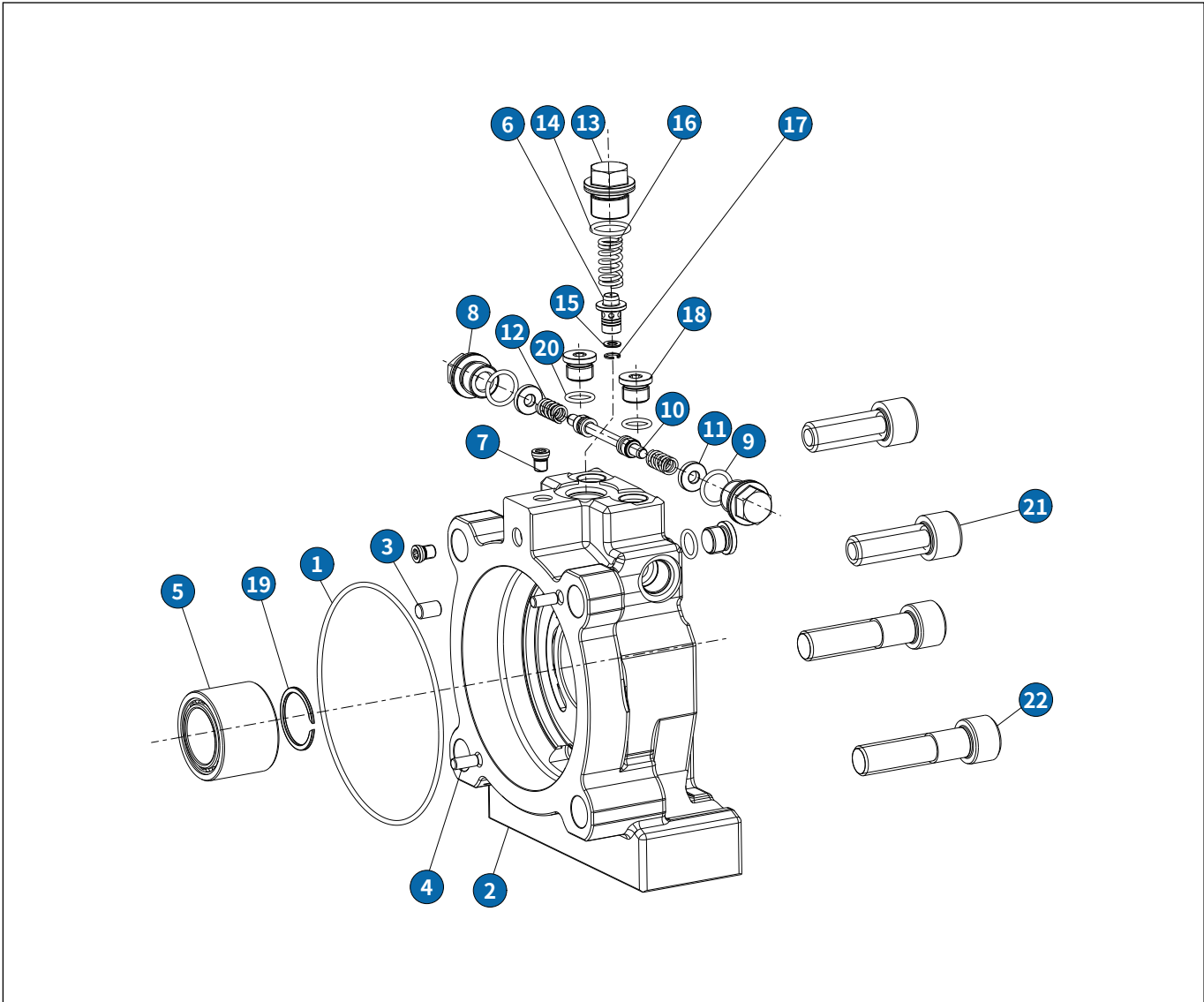
Order code: 2A

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	O-ring	φ125*2.5	110000001238	1	OR2512500
2	Endcap*	HM7XE75-040001-A	210000706843	1	HM7XE75-040001-A
3	Locating pin	HM7X85-040003	210000300953	1	HM7X85-040003
4	Locating pin	HM7X85-040002	210000300939	2	HM7X85-040002
5	Needle roller bearings	φ30*φ35*φ48*34.4	210000578856	1	NA30.0044
6	Valve spool	HM6V60-022009	210000439281	1	HM6V60-022009
7	Plug	M7*0.75	210000292750	2	V30G205-000008
8	Screw bushings	HM6V60-022003	210000439291	2	HM6V60-022003
9	O-ring	φ15.3*2.2	110000051093	2	OR2201530
10	Valve spool	HM6V60-022002	210000627269	1	HM6V60-022002
11	Gasket	HM6V60-022005	210000440667	2	HM6V60-022005
12	Springs	8.2/1.27*25/6	210000438080	2	HM6V60-022004
13	Screw bushings	HM6V60-022006	210000439289	1	HM6V60-022006
14	O-ring	φ17.3*2.2	110000051087	1	OR12201730
15	Gasket	φ12.8*φ7*1	210000439283	1	HM6V60-022007
16	Springs	11/1.8*32.4/6.75	210000438082	1	HM6V60-022008
17	Circlip for C-Shaft	CE-IN 08	210000293315	1	JIS B 2804
18	Plug	HLMV38-040003	210000351207	3	HLMV38-040003
19	Retaining rings	WR30	210000299649	1	WR30
20	O-ring	φ11.89*1.98	110000051071	3	ORAR00906
21	Hexagon socket head cap screws	M16*45	210000294263	4	JIS B 1176

Note: “*” indicates that the selection of the mounting thread for the inlet and outlet ports is ‘M’ : metric thread.

3.5.1 M70F75 Endcap Parts

· Inlet and outlet ports order code 2R: ISO 6162-2 DN25, ipsilateral



3.5.1 M70F75 Endcap Parts

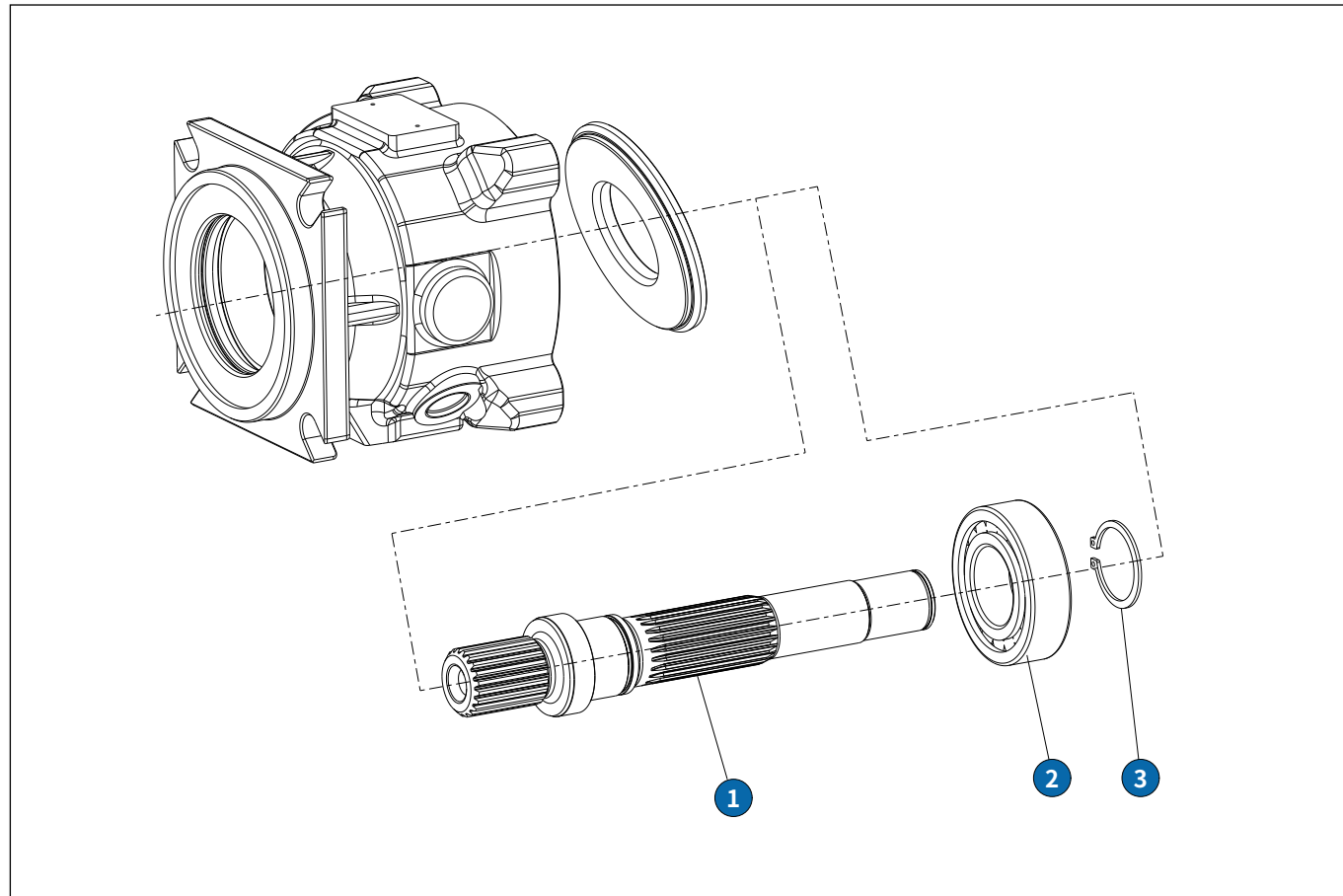
Order code: 2R

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	O-ring	φ125*2.5	110000001238	1	OR2512500
2	Endcap*	HM7XE75-040001-A-R	210000676918	1	HM7XE75-040001-A-R
	Endcap#	M70F75-0510RFG-02	210000966097	1	M70F75-0510RFG-02
3	Locating pin	HM7X85-040003	210000300953	1	HM7X85-040003
4	Locating pin	HM7X85-040002	210000300939	2	HM7X85-040002
5	Needle roller bearings	φ30*φ35*φ48*34.4	210000578856	1	NA30.0044
6	Valve spool	HM6V60-022009	210000439281	1	HM6V60-022009
7	Plug	M7*0.75	210000292750	2	V30G205-000008
8	Screw bushings	HM6V60-022003	210000439291	2	HM6V60-022003
9	O-ring	φ15.3*2.2	110000051093	2	OR2201530
10	Valve spool	HM6V60-022002	210000627269	1	HM6V60-022002
11	Gasket	HM6V60-022005	210000440667	2	HM6V60-022005
12	Springs	8.2/1.27*25/6	210000438080	2	HM6V60-022004
13	Screw bushings	HM6V60-022006	210000439289	1	HM6V60-022006
14	O-ring	φ17.3*2.2	110000051087	1	OR12201730
15	Gasket	φ12.8*φ7*1	210000439283	1	HM6V60-022007
16	Springs	11/1.8*32.4/6.75	210000438082	1	HM6V60-022008
17	Circlip for C-Shaft	CE-IN 08	210000293315	1	JIS B 2804
18	Plug	HLMV38-040003	210000351207	3	HLMV38-040003
19	Retaining rings	WR30	210000299649	1	WR30
20	O-ring	φ11.89*1.98	110000051071	3	ORAR00906
21	Hexagon socket head cap screws	M16*45	210000294263	2	JIS B 1176
22	Hexagon socket head cap screws	M16*65	210000205955	2	GB/T 70.1

Note: ‘**’ indicates that the selection of the mounting thread for the inlet and outlet ports is ‘M’ : metric thread. ‘#’ indicates that the selection of the mounting thread for the inlet and outlet ports is ‘A’ : UNC threads.

3.5.2 M70F75 Shaft Parts

· Order code 4: 21T 16/32DP / · Order code A: 23T 16/32DP

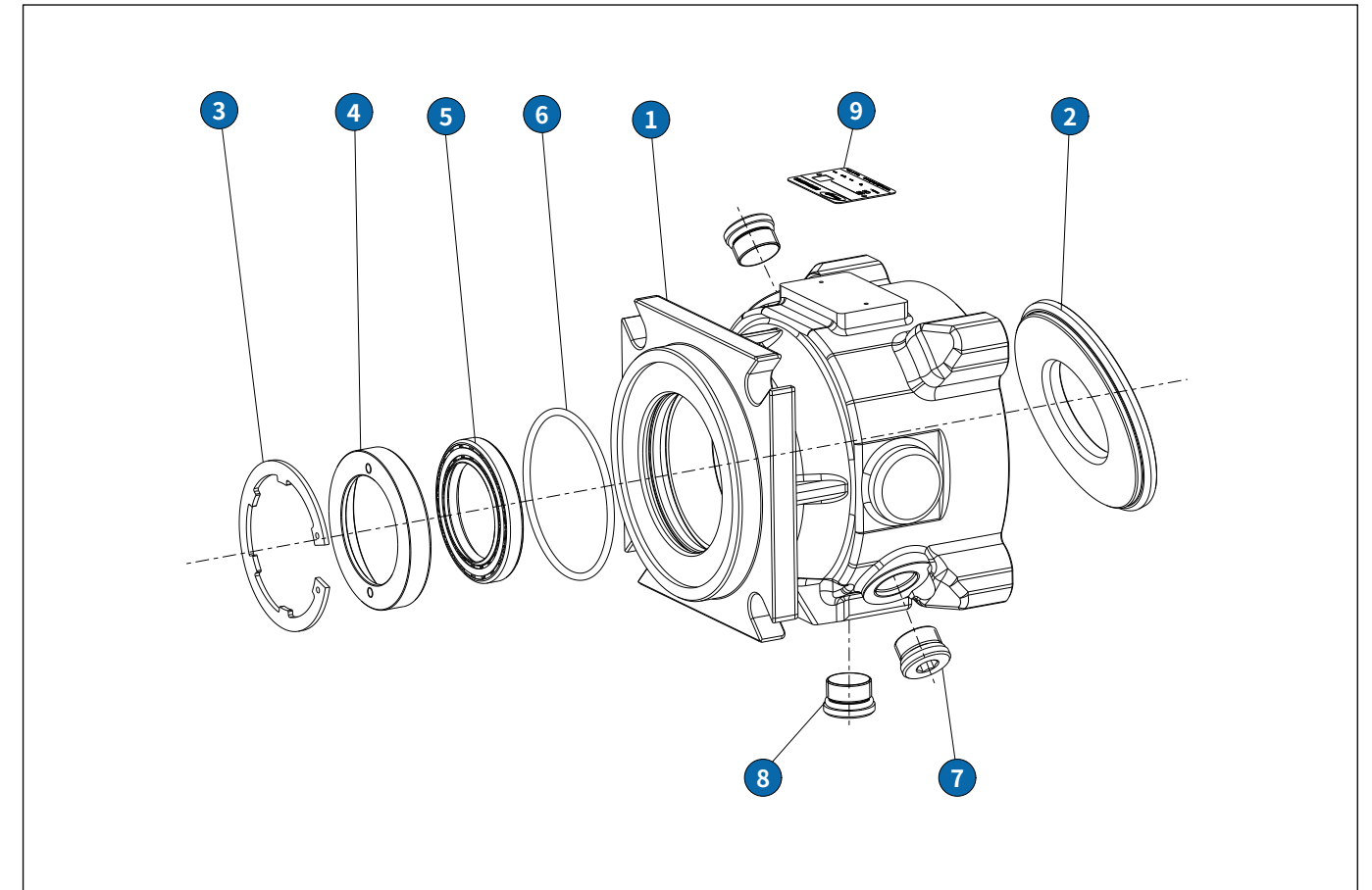


Order code: 4/A

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	4: Shaft	M70F75-0110DSF-A21	210001073681	1	M70F75-0110DSF-A21
	A: Shaft	M70F75-0110DSF-A23-02	210001090746	1	M70F75-0110DSF-A23-02
2	Tapered roller bearings	φ50*φ90*23	210001070249	1	E-NUP2210EV
3	Circlip for C-Shaft	CE-EX 50	210000293323	1	JIS B 2804

3.5.3 M70F75 Housing Parts

· Order code(Housing mounting flange) L2: SAE J744 127-4; Drain port A: UNC standard thread ISO 11926

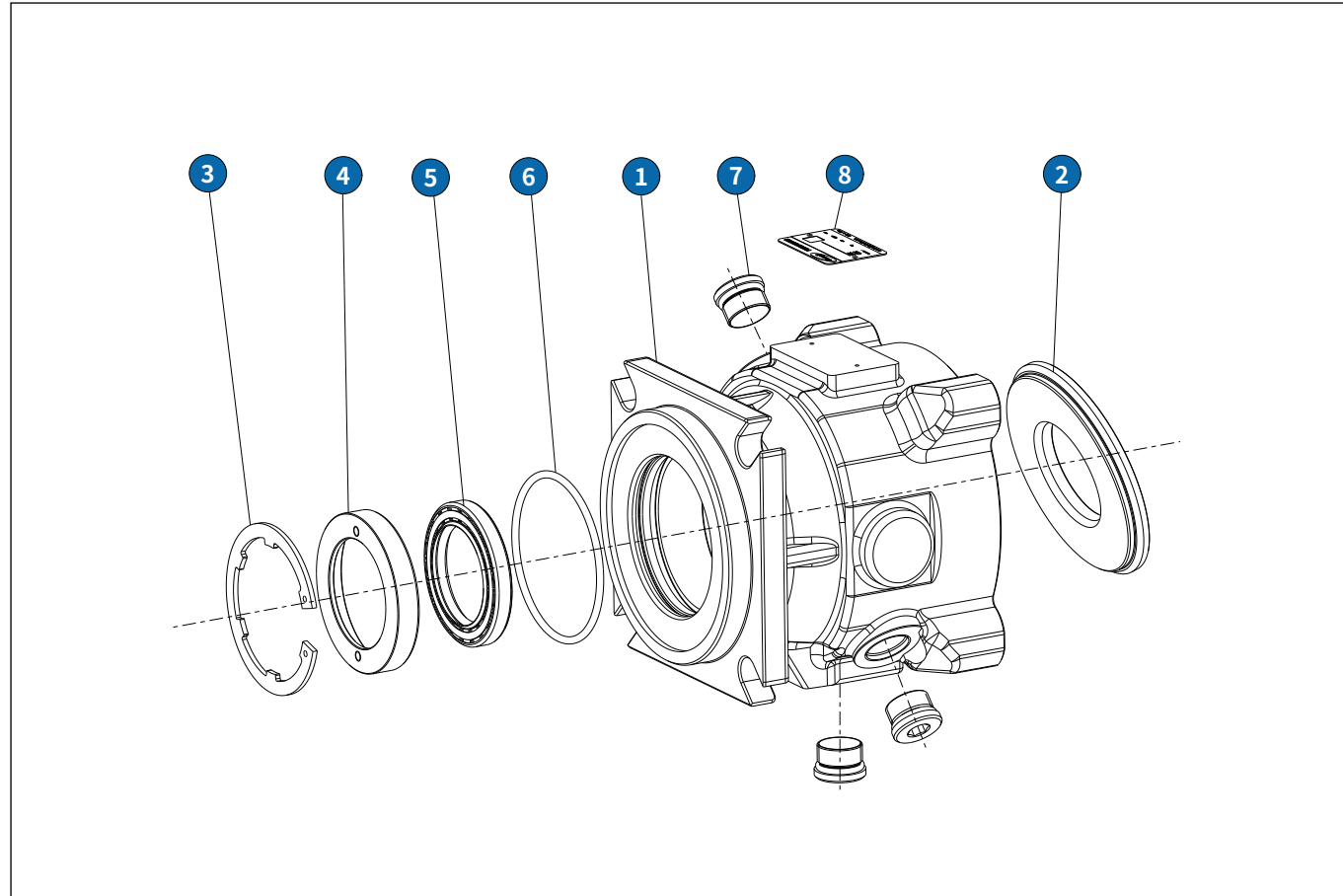


Order code: L2-A

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	M70F75-0410HSN-07	210001073682	1	M70F75-0410HSN-07
2	Friction disc	HM7XE75-000002	210000639222	1	HM7XE75-000002
3	Retaining ring with perforations	90	210000467212	1	DIN 984
4	Oil seal cover	M70F75-0430001	210001073666	1	M70F75-0430001
5	Skeleton oil seal	TCZφ55*φ78*9/10.3	110000056428	1	YY-21-11-010-018-A
6	O-ring	φ89.4*3.1	110000071204	1	ORG90-N7
7	Hexagon socket plug	1-1/16-12UN	210000292761	3	HP3G46-050012
8	O-ring	φ23.47*2.95	110000091765	3	OR2-119-F5
9	Label	50*35*0.6	210000532980	1	MOTOR-BP-HL

3.5.3 M70F75 Housing Parts

· Order code(Housing mounting flange) L2: SAE J744 127-4; Drain port M: Metric thread ISO 6149

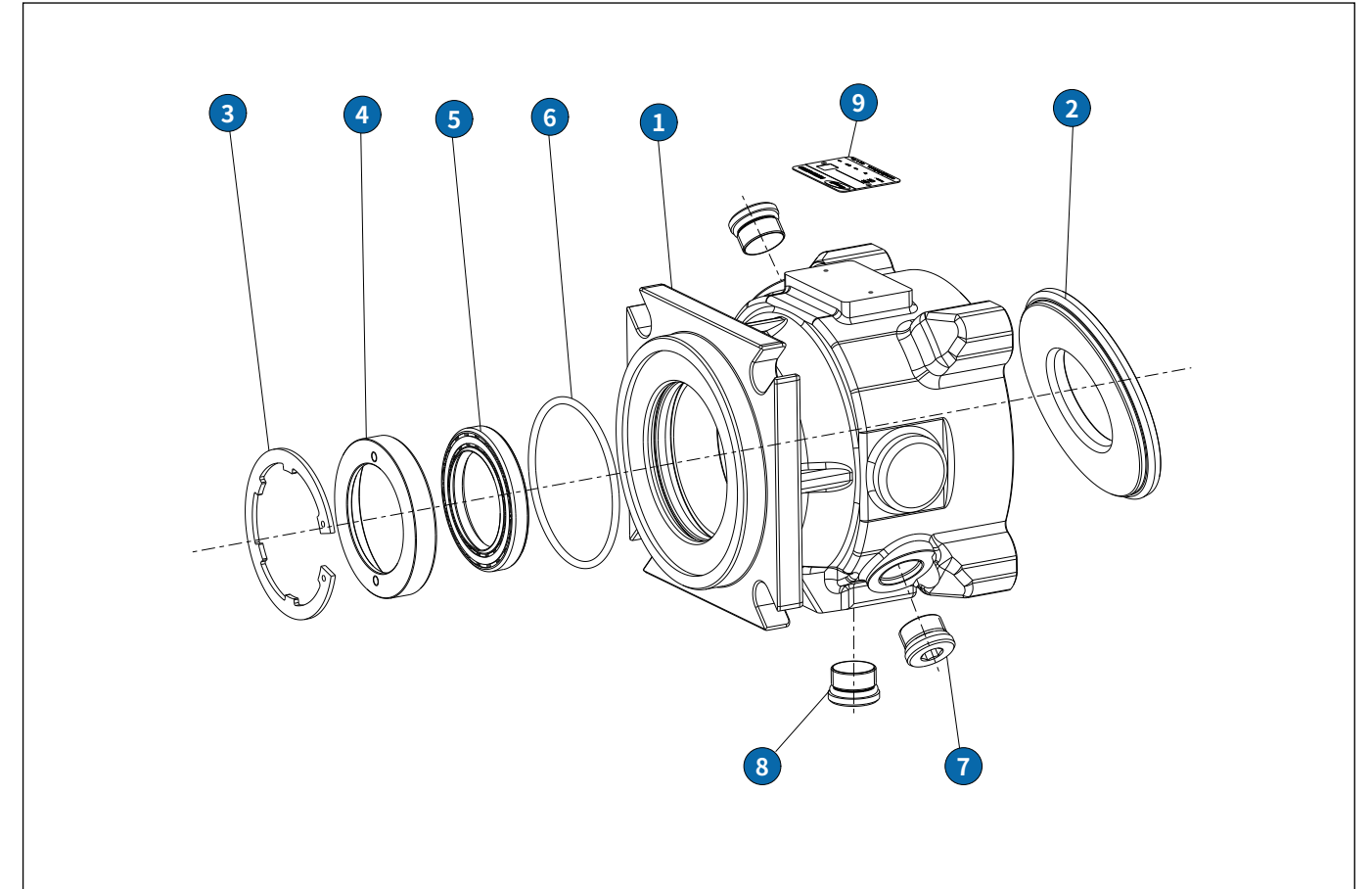


Order code: L2-M

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	M70F75-0410HSN-11	210001090753	1	M70F75-0410HSN-11
2	Friction disc	HM7XE75-000002	210000639222	1	HM7XE75-000002
3	Retaining ring with perforations	90	210000467212	1	DIN 984
4	Oil seal cover	M70F75-0430001	210001073666	1	M70F75-0430001
5	Skeleton oil seal	TCZφ55*φ78*9/10.3	110000056428	1	YY-21-11-010-018-A
6	O-ring	φ89.4*3.1	110000071204	1	ORG90-N7
7	Hexagon socket plug	M27*2(带O形圈)	210000295921	3	ISO 6149-4
8	Label	50*35*0.6	210000532980	1	MOTOR-BP-HL

3.5.3 M70F75 Housing Parts

· Order code(Housing mounting flange) L2: SAE J744 127-4; Drain port E: Metric thread DIN 3852

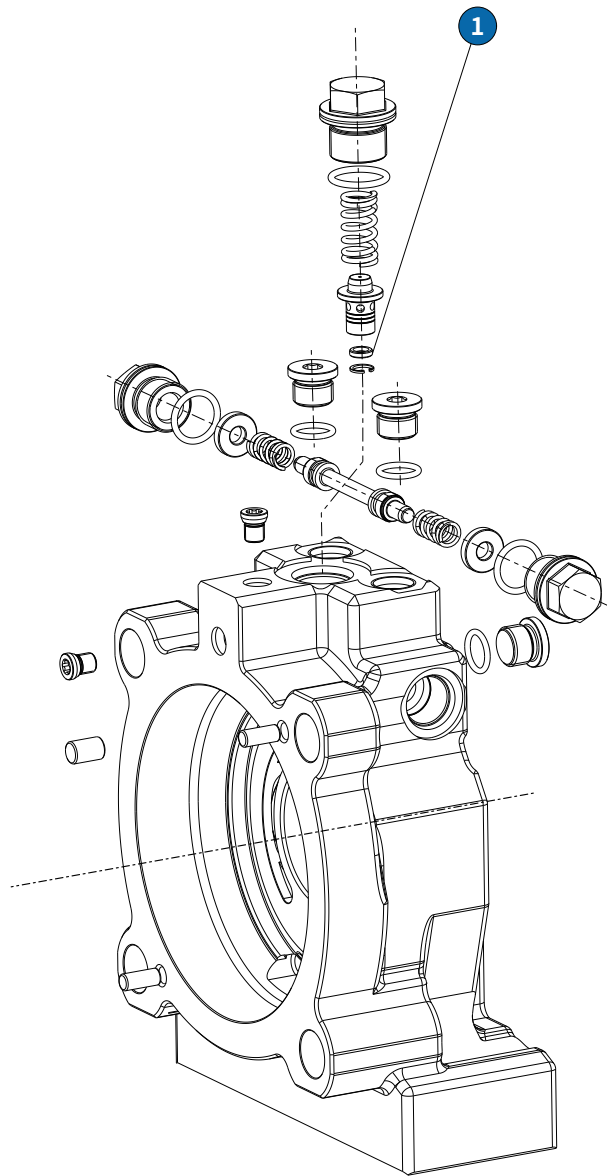


Order code: L2-E

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	M70F75-0410HSN-08	210001090747	1	M70F75-0410HSN-08
2	Friction disc	HM7XE75-000002	210000639222	1	HM7XE75-000002
3	Retaining ring with perforations	90	210000467212	1	DIN 984
4	Oil seal cover	M70F75-0430001	210001073666	1	M70F75-0430001
5	Skeleton oil seal	TCZφ55*φ78*9/10.3	110000056428	1	YY-21-11-010-018-A
6	O-ring	φ89.4*3.1	110000071204	1	ORG90-N7
7	Plug	M26*1.5	210000353818	3	HLPV140I-010001
8	E-ring	/	210000294334	3	/
9	Label	50*35*0.6	210000532980	1	MOTOR-BP-HL

3.5.4 M70F75 Damping Plate Parts

- Order code A/B/C/D/E/F: Special version with flushing valve
- Order code N: without flushing valve, please skip



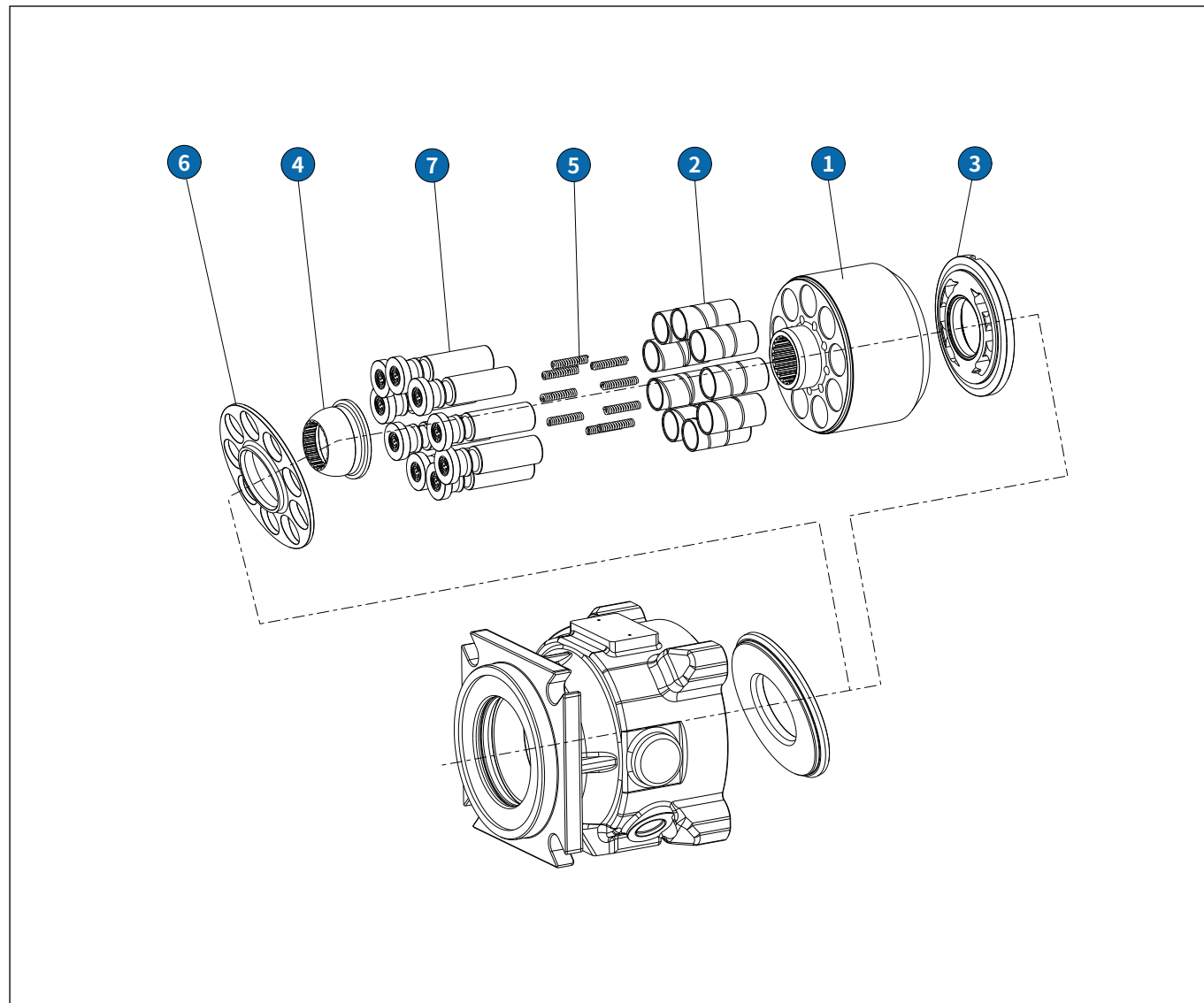
3.5.4 M70F75 Damping Plate Parts

Order code: A/B/C/D/E/F

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.	Flushing Flow (L/min)
1	Damping plate parts	φ8*φ1.2	210000535080	1	HM6V60-02200A-1.2-3.5	A: 3.5
		φ8*φ1.3	210000439284	1	HM6V60-02200A	B: 5
		φ8*φ1.8	210000684310	1	HM6V60-02200A-1.8-8	C: 8
		φ8*φ2	210000492996	1	HM6V60-02200A-2-10	D: 10
		φ8*φ2.4	210000477385	1	HM6V60-02200A-2.4-14	E: 14
		φ8*φ3.5	210000533426	1	HM6V60-02200A-3.5	F: 18

3.5.5 M70F75 Rotation Parts

· Order code: Rotation parts are not subject to selection



3.5.5 M70F75 Rotation Parts

Order code: Rotation parts are not subject to selection

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM7XE75-031001	210000639414	1	HM7XE75-031001
2	Bushing	HM7XE75-031002	210000639220	9	HM7XE75-031002
3	Distribution plate	HM7XE75-030001	210000639420	1	HM7XE75-030001
4	Ball joint	HM7XE75-030002	210000639221	1	HM7XE75-030002
5	Spring	4.4/1.4*32.1/15	210000293714	9	HM7X85-030001
6	Return plate	HM7XE75-030003	210000639419	1	HM7XE75-030003
7	Piston-slide shoe part	HM7XE75-032000	210000638351	9	HM7XE75-032000



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Hengli Hydraulics
No. HL 2026-06

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