

Parts Manual

HP6V Series

Swash-type Plate Axial Piston
Variable Displacement Pump

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Note: “*” indicates under production.

1 General information

This manual lists parts related information for the full range of HP6V swash plate axial piston pumps. The main purpose of this manual is to better serve our customers by enabling them to quickly locate parts and find Hengli Genuine Parts.

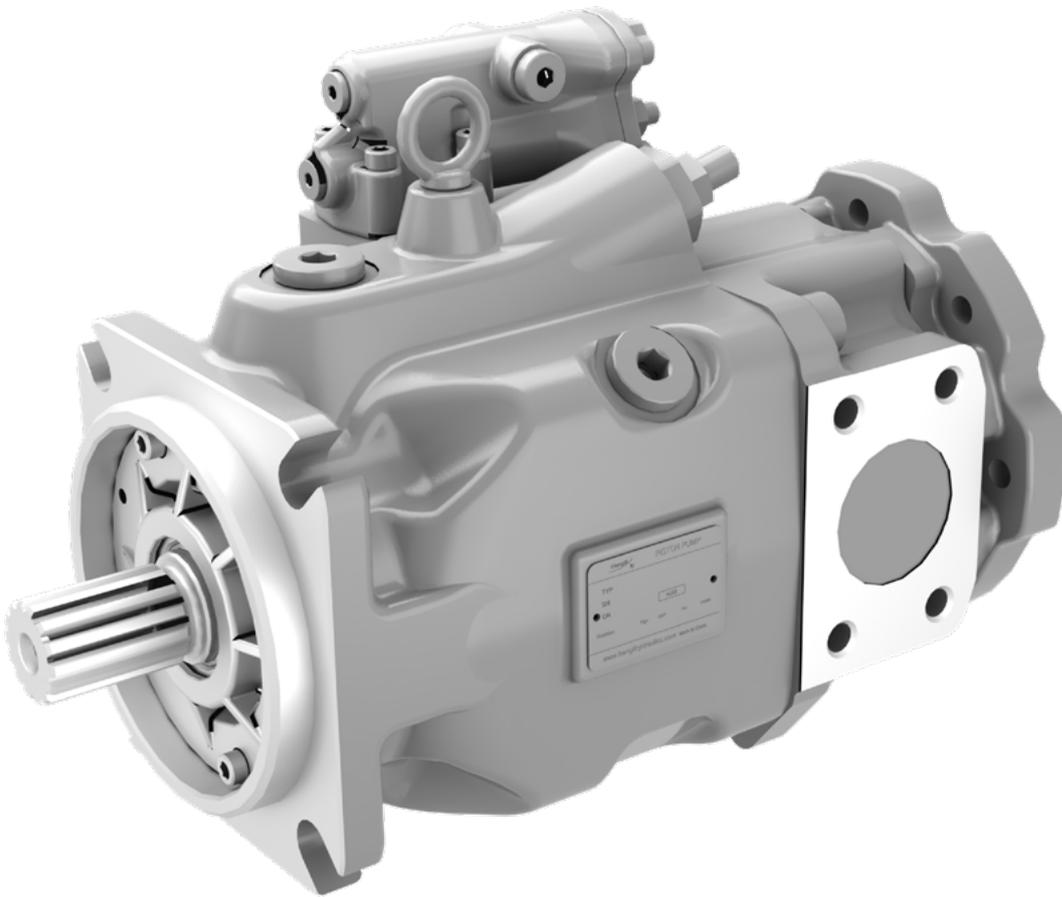
If you require more detailed information on parts, please contact
Jiangsu Hengli Hydraulic Co.,Ltd.
www.henglihydraulics.com
or consult with the relevant sales engineer.

1 Functional Description

- Based on the information on the nameplate attached to the pump, the basic configuration of the pump can be determined, e.g.: HP6V76/AV00RC4S3MGL1-Q140 Specific information can be found in the Hengli catalogue.
- With the nameplate information, you can quickly find information such as spindle, housing, bearing and other component material numbers in this manual.

3 HP6V Product Parts

3.6 HP6V76

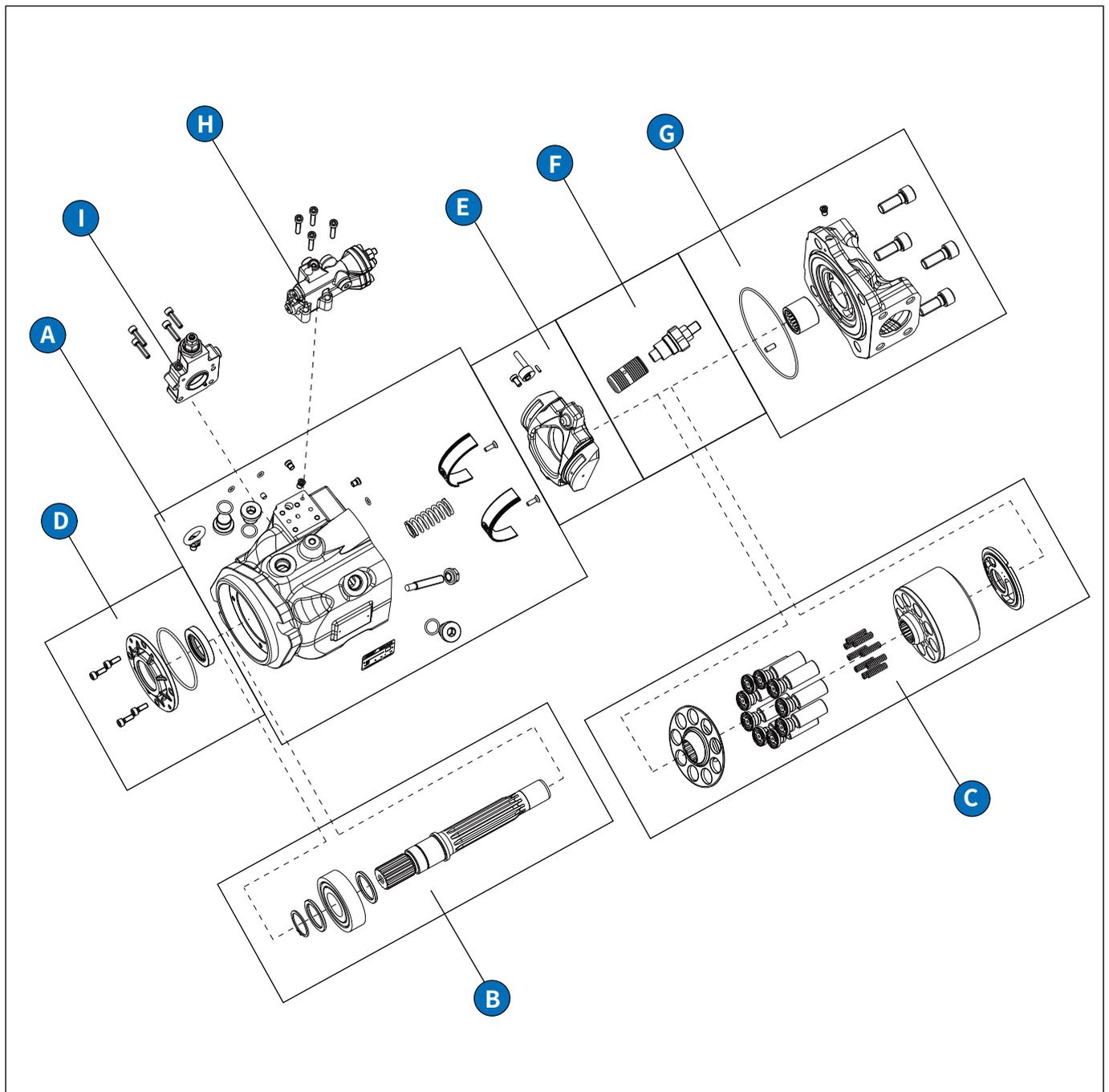


HP6V-76

3.6 HP6V76

·Take LP1 with power valve as an example

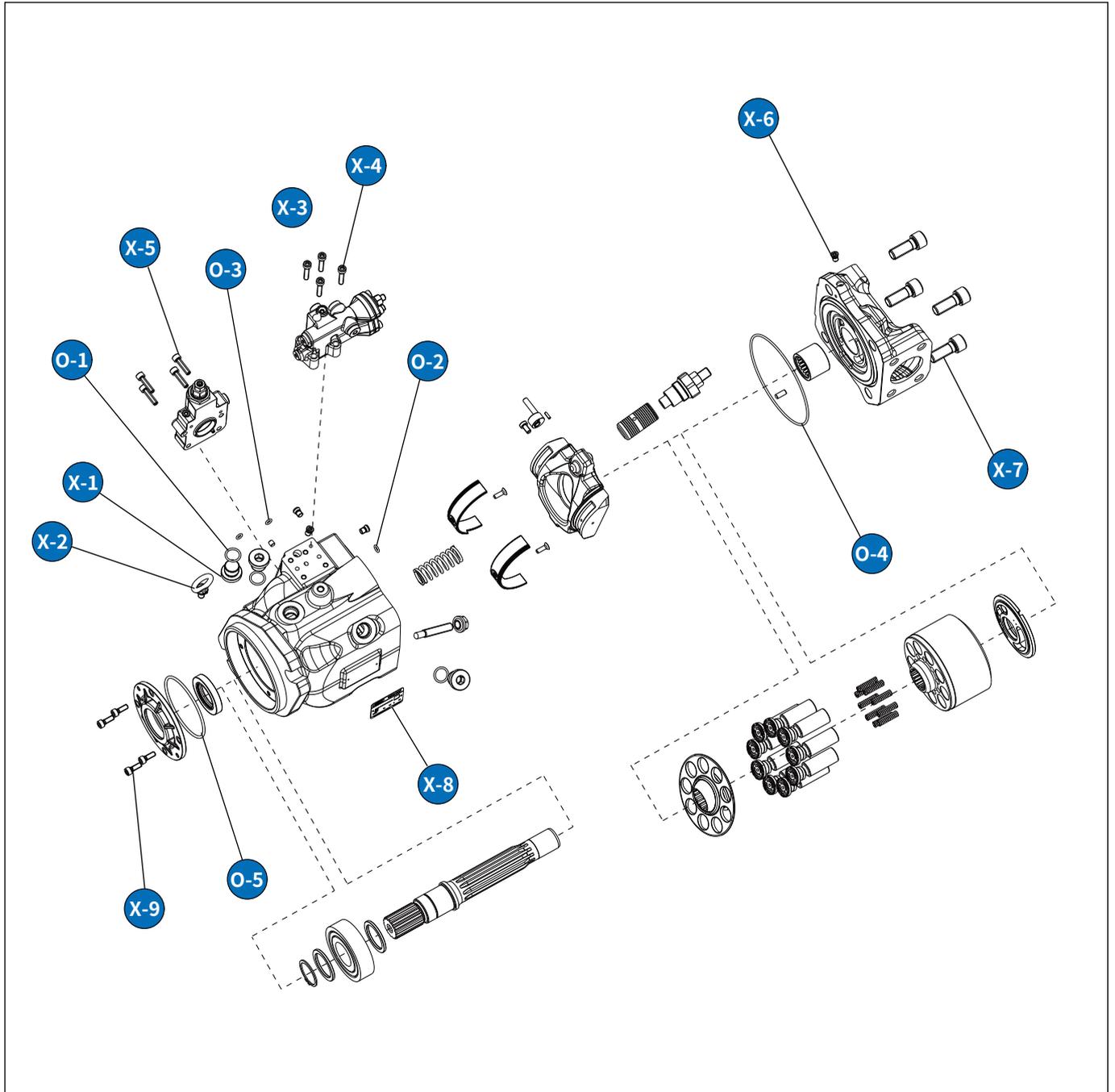
3.6.1 HP6V76 Integral Parts



3.6.1 HP6V76 Integral Parts

Integral Part List					
Classification	Part Name	Description	Part Code	Order Code	QTY.per kit
A	Housing	Housing		HP6V76-0400000-01	1
B	Shaft	X-Indicates through-axis	S3	HLPV75-010000	1
			S3-X	HLPV75B-010000	
		X-Indicates through-axis	S2	HP5V76F-010000	
			S2-X	HP5V76N-010000	
		X-Indicates through-axis	K3	HLPV75-010000-K	
			K3-X	HLPV75B-010000-K	
C	Cylinder block kit	Clockwise		HLPV75-060000	1
		Counter-clockwise		HP5V76J-020000	
D	Oil-seal cover			HLPV75-050000	1
E	Unadjustable displacement parts			HP6V76-0310000-01	1
F	Adjustable displacement parts			HLPV75D-020000	1
G	Endcap	Without through drive	Clockwise	HLPV75-030000	1
			Clockwise(UNC)	HLPV76R-010000	
			Counter-clockwise	HLPV75Q-010000	
			Counter-clockwise(UNC)	HLPV75Q-010000-S	
		With through drive	Clockwise	HLPV75B-020000	
			Clockwise(UNC)	HP5V76K-010000	
			Counter-clockwise	HP5V76P-030000	
			Counter-clockwise(UNC)	HP5V76J-030000	
H	Control valve		L1(DR)	HLPV75-070000	1
			P0	HLPV75D-030000	
			L0	HP5V45-0610000-01	
			ER2	HP5V28L-010000	
			LP1(LE1/2)	HP6V28-0610000-01	
			LP0	HP6V28-0610000-04	
			LP2	HP6V18-0610000-LP2-01	
			ED1	HP6V76-0690000-01	
	ED2	Pending			
I	Power control valve		LP1	HP6V18-0680000-04	1
			LE1	HP6V18-0680000-06	

3.6.2 HP6V76 Assembly Parts

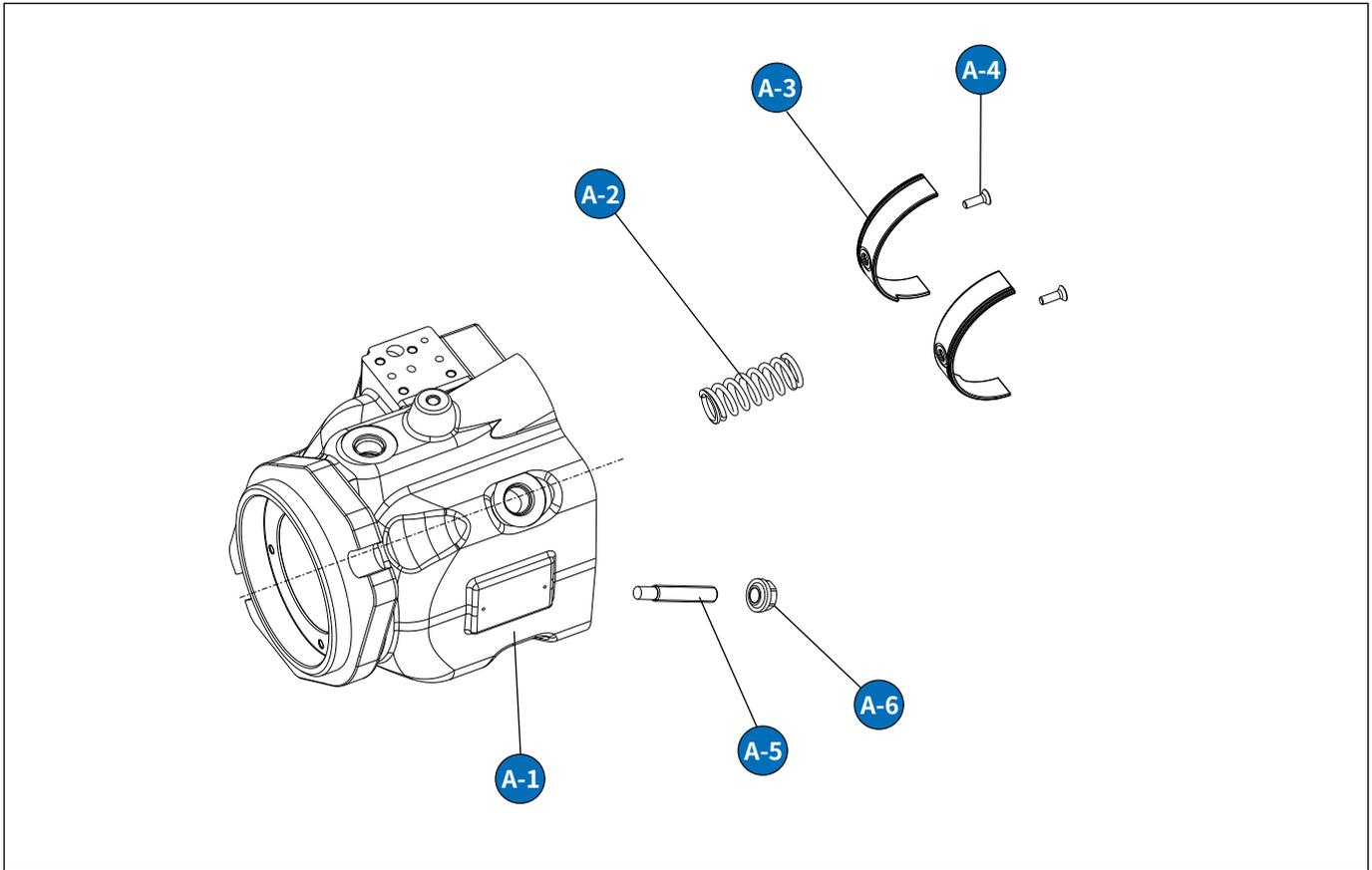


3.6.2 HP6V76 Assembly Parts

Seal List					
Serial No.	Part Name	Specification	Drawing No.	Order No.	QTY.per kit
O-1	O-ring	φ16.36*2.21	φ16.36*2.21	110000001205	3
O-2	O-ring	φ6.8*1.9	ORP7-F5	110000066873	1
O-3	O-ring	φ5.8*1.9	YY-20-05-010-089-A	110000038433	2
O-4	O-ring	φ128*2.5	OR2512800	110000001239	1
O-5	O-ring	φ84.4*3.1	G-85	110000022868	1

Screw List					
Serial No.	Part Name	Specification	Drawing No.	Order No.	QTY.per kit
X-1	Drain plug	3/4-16UNF*14	HLPV80-030005	210000353817	3
X-2	Screw rings	M8	JIS B 1168	210000292402	1
X-3	Expansion plugs	SK550-060	300116807	210000341451	1
X-4	Hexagon socket head screws	M6*30	GB/T 70.1	210000206181	4
X-5	Hexagon socket head screws	M6*25	JIS B 1176	210000294601	4
X-6	Screw plugs	M7*0.75	V30G205-000008	210000292750	4
X-7	Hexagon socket head screws	M14*35	GB/T 70.1	210000205912	4
X-8	Name plate	50*35*0.6	PUMP-BP-HL	210000532981	1
X-9	Hexagon socket head screws	M6*16	GB/T 70.1	210000206178	4

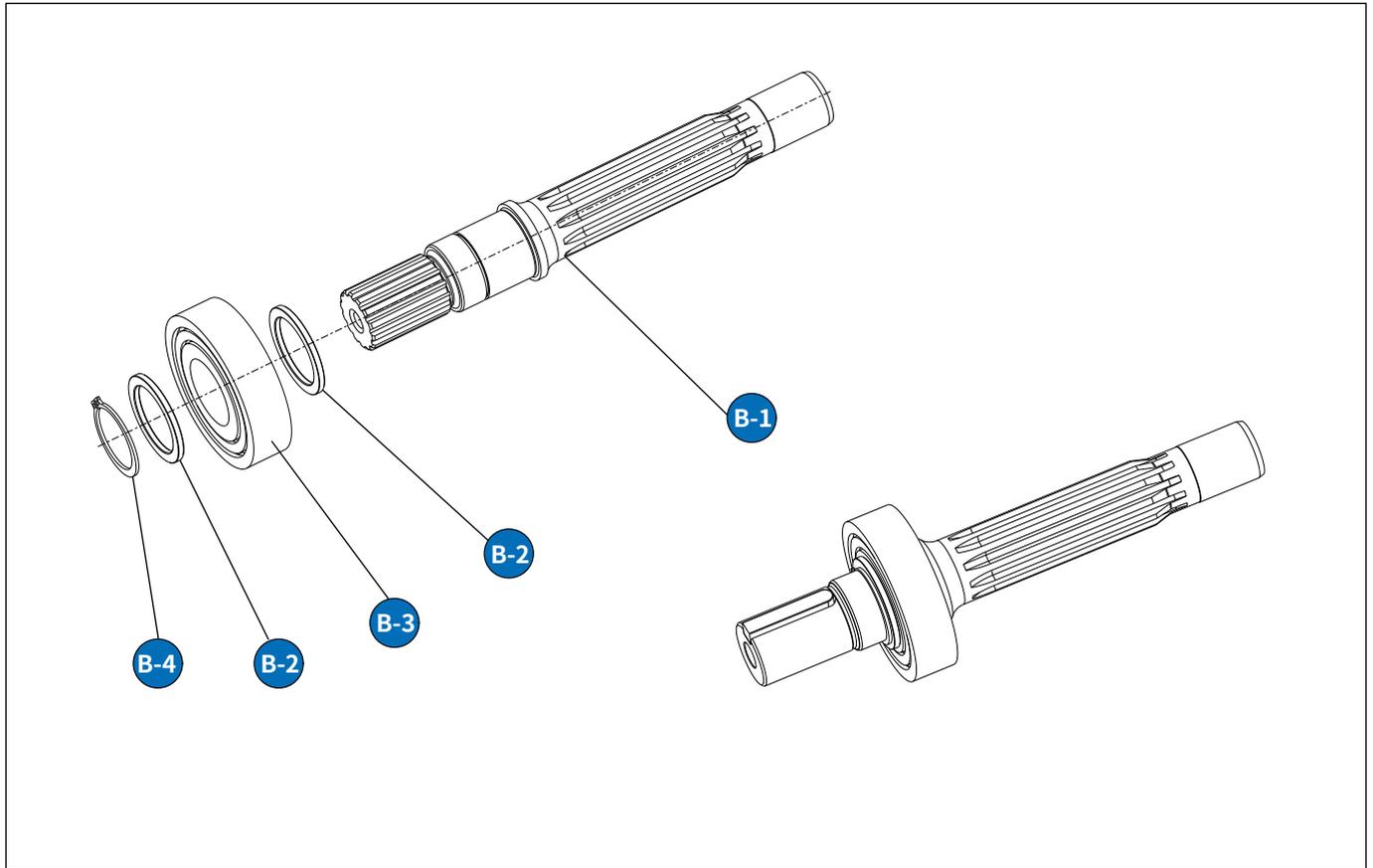
3.6.3 HP6V76 Housing Parts (A)



Housing Part List

Serial No.	Part Name	Housing Part Type	Specification	Drawing No.	MOrder No.	QTY.per kit
A-1	Housing	SAE C 127-2	HP6V76-0410HSN-01	HP6V76-0410HSN-01	210000790113	1
		SAE C 127-4	HP6V76-0410HSN-06	HP6V76-0410HSN-06	210000847222	
		SAE B 82-2	HP6V76-0410HSN-03	HP6V76-0410HSN-03	210000799388	
		ISO 2 孔	HP6V76-0410HSN-14	HP6V76-0410HSN-14	210000877640	
A-2	Spring		20.5/3*62/7	HLPV75-020002	210000945358	1
A-3	Shaft bushing		HLPV75-020003-Cu(left)	HLPV75-020003-Cu	210000298843	1
			HLPV75-020004-Cu(right)	HLPV75-020004-Cu	210000302092	1
A-4	Hexagon socket countersunk head screws		M5*16	DIN 7991	210000864245	2
A-5	Adjusting screw		M10*1.5*48	HLPV75-020005	210000299568	1
A-6	Seal lock nut		M10	05320103530	210000292412	1

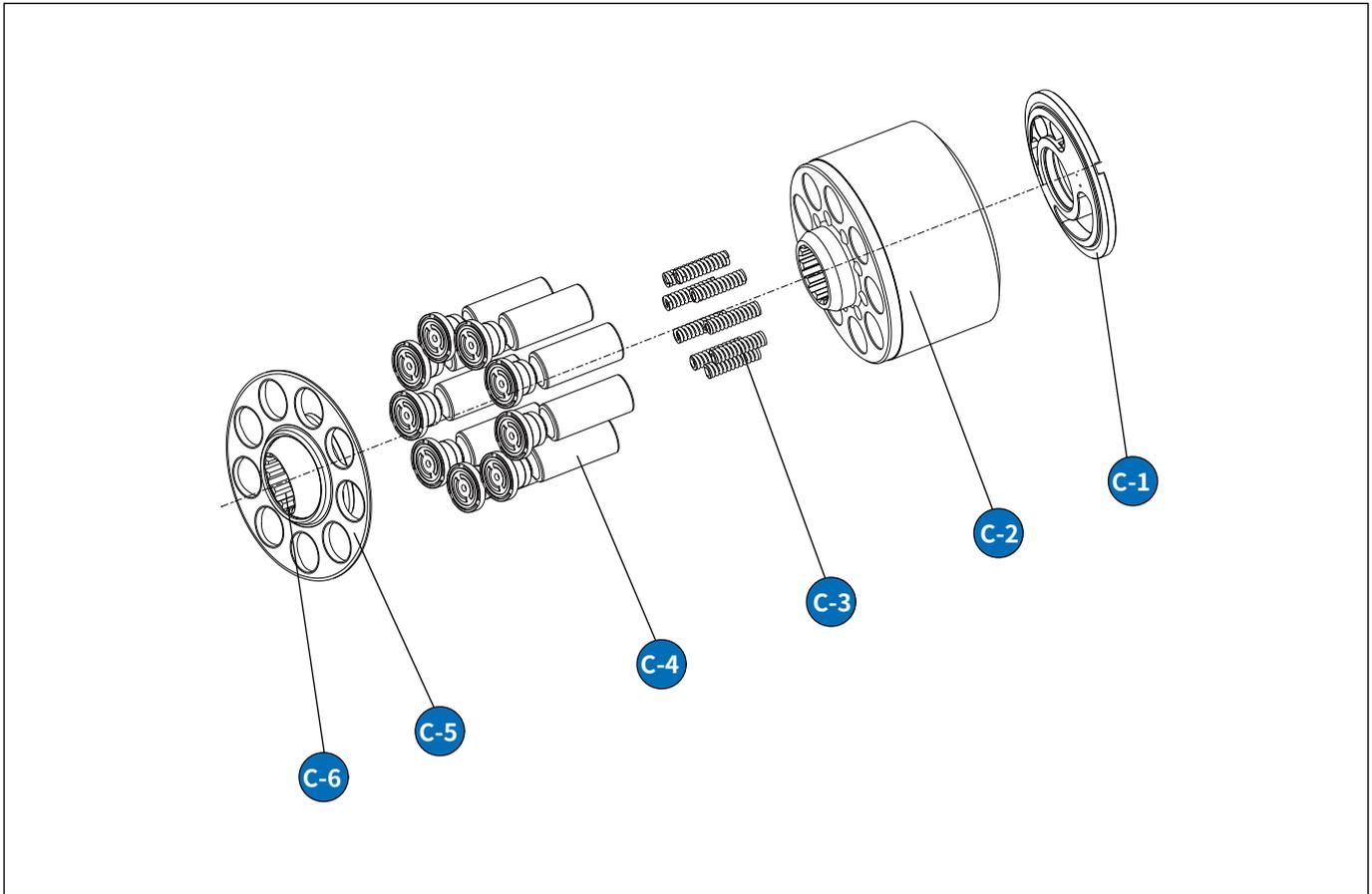
3.6.4 HP6V76 Shaft Parts (B)



Shaft Part List

Serial No.	Part Name	Shaft Part Type	Specification	Drawing No.	Order No.	QTY.per kit
B-1	Shaft	S3	HLPV75-010001	HLPV75-010001	210000300298	1
		S3-X	HLPV75B-010001	HLPV75B-010001	210000298226	
		S2	HLPV76F-010001	HLPV76F-010001	210000298243	
		S2-X	HP5V76N-010001	HP5V76N-010001	210000300349	
		K3	HLPV75-010001-K	HLPV75-010001-K	210000302368	
		K3-X	HLPV75B-010001-K	HLPV75B-010001-K	210000298315	
		P	HLPV75-010001-P	HLPV75-010001-P	210000477079	
B-2	Retaining ring	S3/S3-X/S2/S2-X/K3/K3-X/P	HLPV80-010002	HLPV80-010002	210000301116	2
B-3	Bearing	S3/S3-X/S2/S2-X/K3/K3-X/P	φ35*φ80*21	E-NUP307ETVP5	210000706826	1
B-4	Circlip for C-Shaft	S3/S3-X/S2/S2-X/K3/K3-X/P	CE-EX 35	JIS B 2804	210000293163	1
B-5	Flat key	K3/K3-X	7.94*7.94*44	HLPV80D-010002	210000298722	1
		P	10*8*47	HLPV80D-010003	210000475172	1

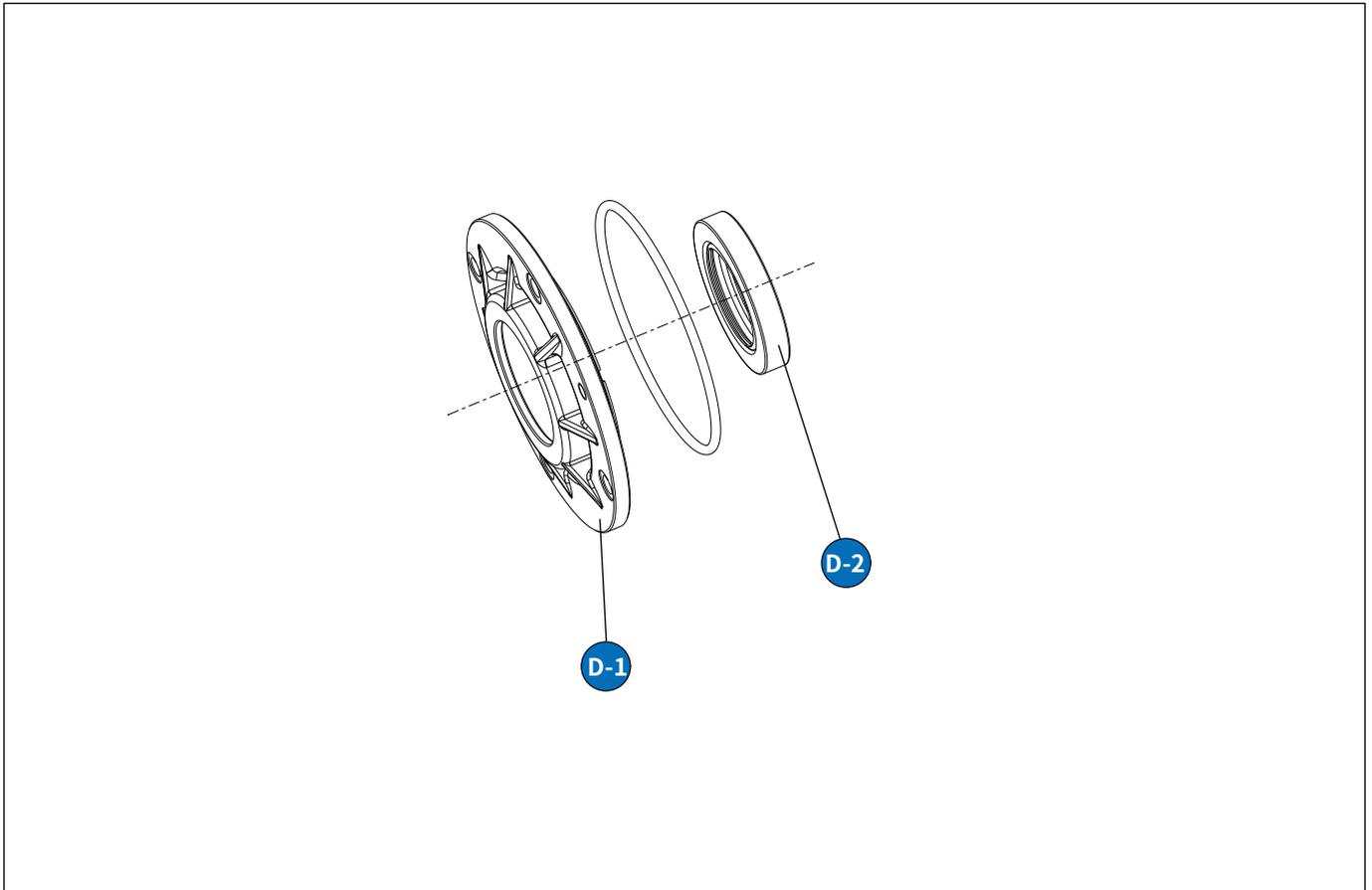
3.6.3 HP6V76 Cylinder Block Kit Parts (C)



Cylinder Block Kit Part List

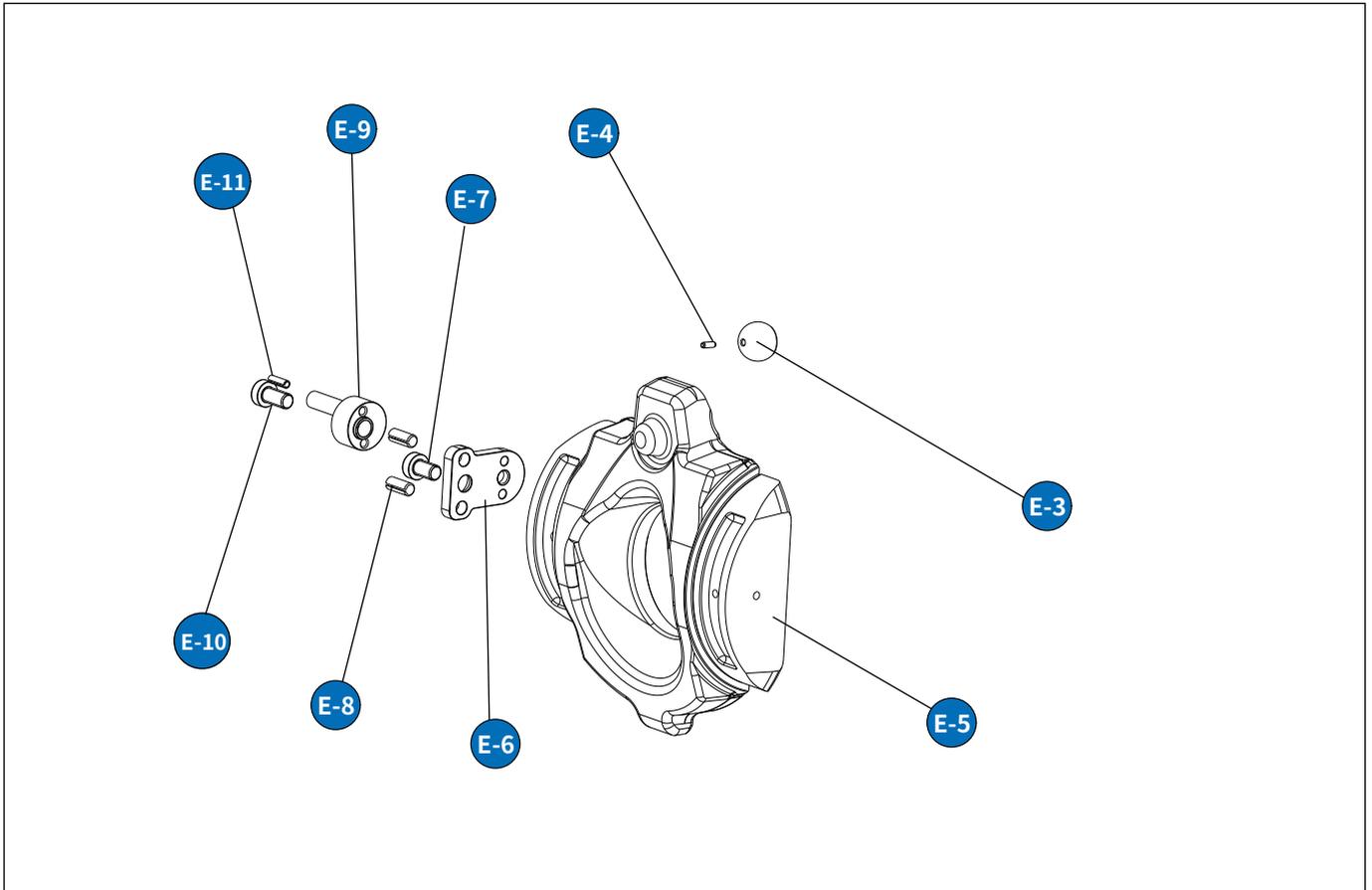
Serial No.	Part Name	Cylinder Block Kit Part Type	Specification	Drawing No.	Order No.	QTY.per kit
C-1	Valve plate	Clockwise	HLPV80-043002	HLPV80-043002	210000627263	1
		Counter-clockwise	HLPV80H-020001	HLPV80H-020001	210000303041	
C-2	Cylinder block		HLPV80-043001-A	HLPV80-043001-A	210000302733	1
C-3	Spring		6.1/1.6*32/12.5	HLPV75-060001	210000293664	1
C-4	Piston assembly		HLPV80-041000-A	HLPV80-041000-A	210000303062	9
C-5	Slipper retainer		HLPV80-042002-A	HLPV80-042002-A	210000702684	1
C-6	Slipper retainer guide		HLPV80-042001	HLPV80-042001	210000302598	1

3.6.4 HP6V76 Oil-Seal Cover Parts (D)



Oil-Seal Part List						
Serial No.	Part Name	Oil Seal Cover Part Type	Specification	Drawing No.	Order No.	QTY.per kit
D-1	Oil-seal cover	SAE C 127	HLPV80-020001	HLPV80-020001	210000293893	1
		SAE B 101	HP5V85J-020001	HP5V85J-020001	210000293202	
D-2	Shaft dust seal		$\phi 35 * \phi 55 * 9$	$\phi 35 * \phi 55 * 9$	110000025587	1

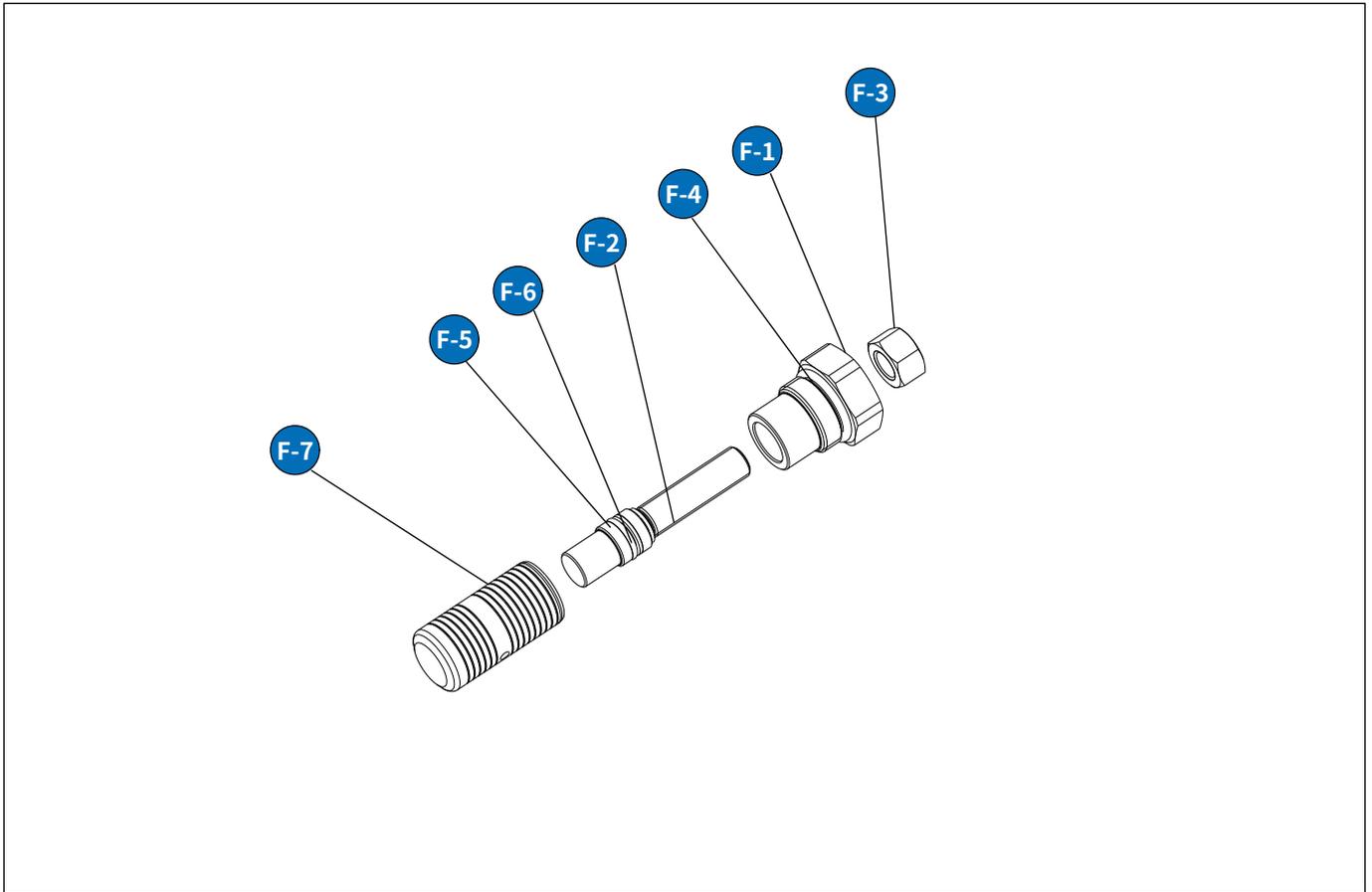
3.6.5 HP6V76 Swashplate Parts (E)



3.6.5 HP6V76 Swashplate Parts (E)

Swashplate Part List						
Serial No.	Part Name	Swashplate Part Type	Specification	Drawing No.	Material Code	QTY.per kit
E-1	Swashplate	Clockwise	HP6V76-0310SWP-01	HP6V76-0310SWP-01	210000793088	1
			HLPV75-021001	HLPV75-021001	210000302624	
		Counter-clockwise	HP6V76-0310SWP-02	HP6V76-0310SWP-02	210000872838	
			HP5V76J-011001	HP5V76J-011001	210000300433	
E-2	Steel balls		HLPV75-021002-B	HLPV75-021002-B	210000759691	1
E-3	Cylindrical pins		2*6-GS-W	JIS B 2808	210000705793	1
E-4	Toggle positioning blocks		HP6V76-0310001	HP6V76-0310001	210000793072	1
E-5	Hexagon socket thin cheese head screws		M6*10	DIN 7984	210000857008	1
E-6	Cylindrical pins		5*12-GS-W	JIS B 2808	210000293180	2
E-7	Toggle block		HP6V65-000001	HP6V65-000001	210000697585	1
E-8	Hexagon socket thin cheese head screws		M6*12	DIN 7984	210000857010	1
E-9	Cylindrical pins		3*10	GB/T 879.2	210000293361	1

3.6.6 HP6V76 Displacement Adjustment Parts (F)

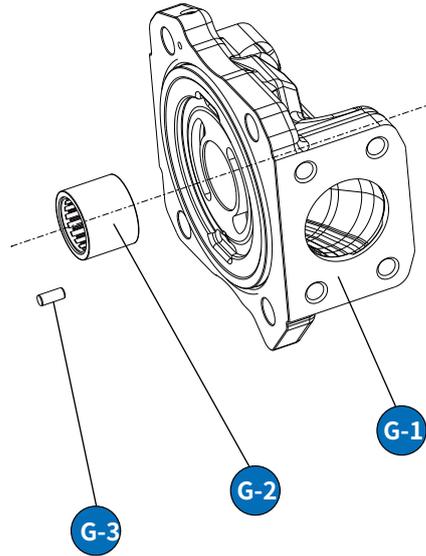


3.6.6 HP6V76 Displacement Adjustment Parts (F)

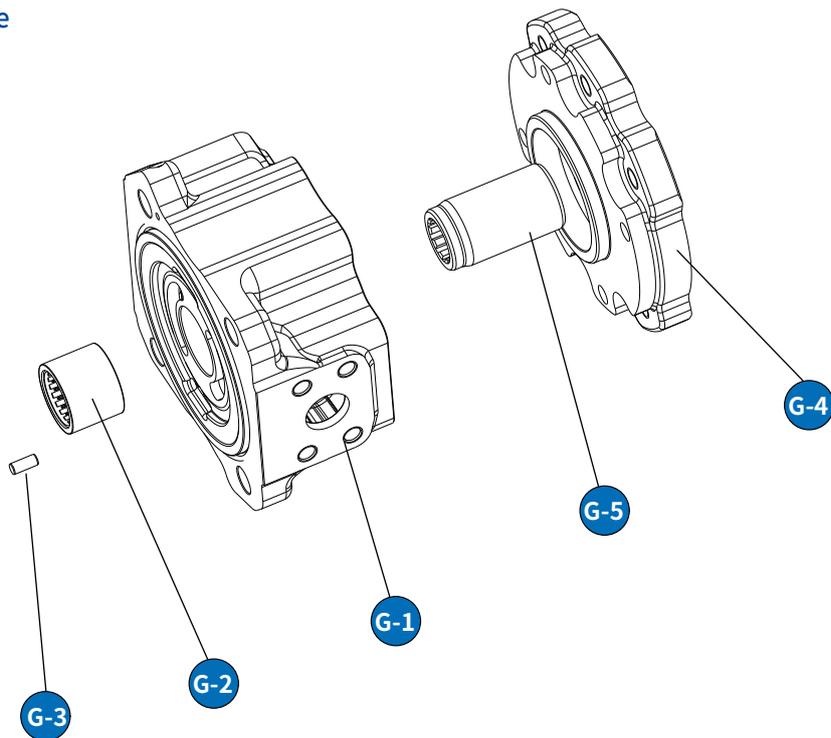
Displacement Adjustment Part List					
Serial No.	Part Name	Specification	Drawing No.	Material Code	QTY.per kit
F-1	Piston	HLPV75D-010002	HLPV75D-010002	210000301669	1
F-2	Adjustment lever	HLPV75D-020002	HLPV75D-020002	210000298731	1
F-3	O-ring	φ11.8*2.4	P-12	110000051053	1
F-4	O-ring retaining ring	16*12*1.25	P12	210000294337	1
F-5	O-ring	φ23.6*2.9	OR2902360	110000001216	1
F-6	Bushings	HLPV75D-020001	HLPV75D-020001	210000299251	1
F-7	Hexagon nuts	M12*1.75	JIS B 1181	210000293960	1

3.6.8 HP6V76 Endcap Parts (G)

·Without Through Drive

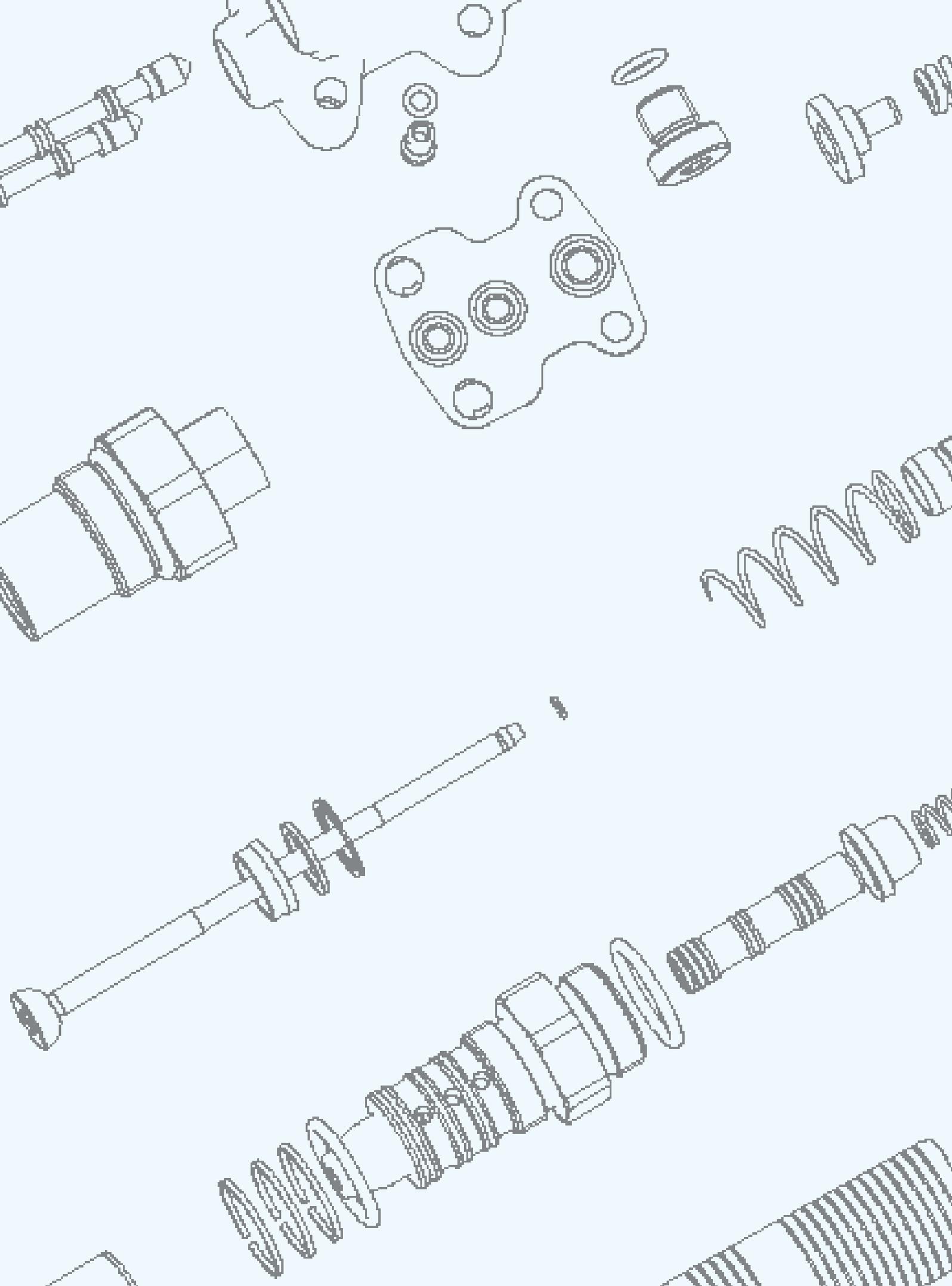


·With Through Drive



3.6.8 HP6V76 Endcap Parts (G)

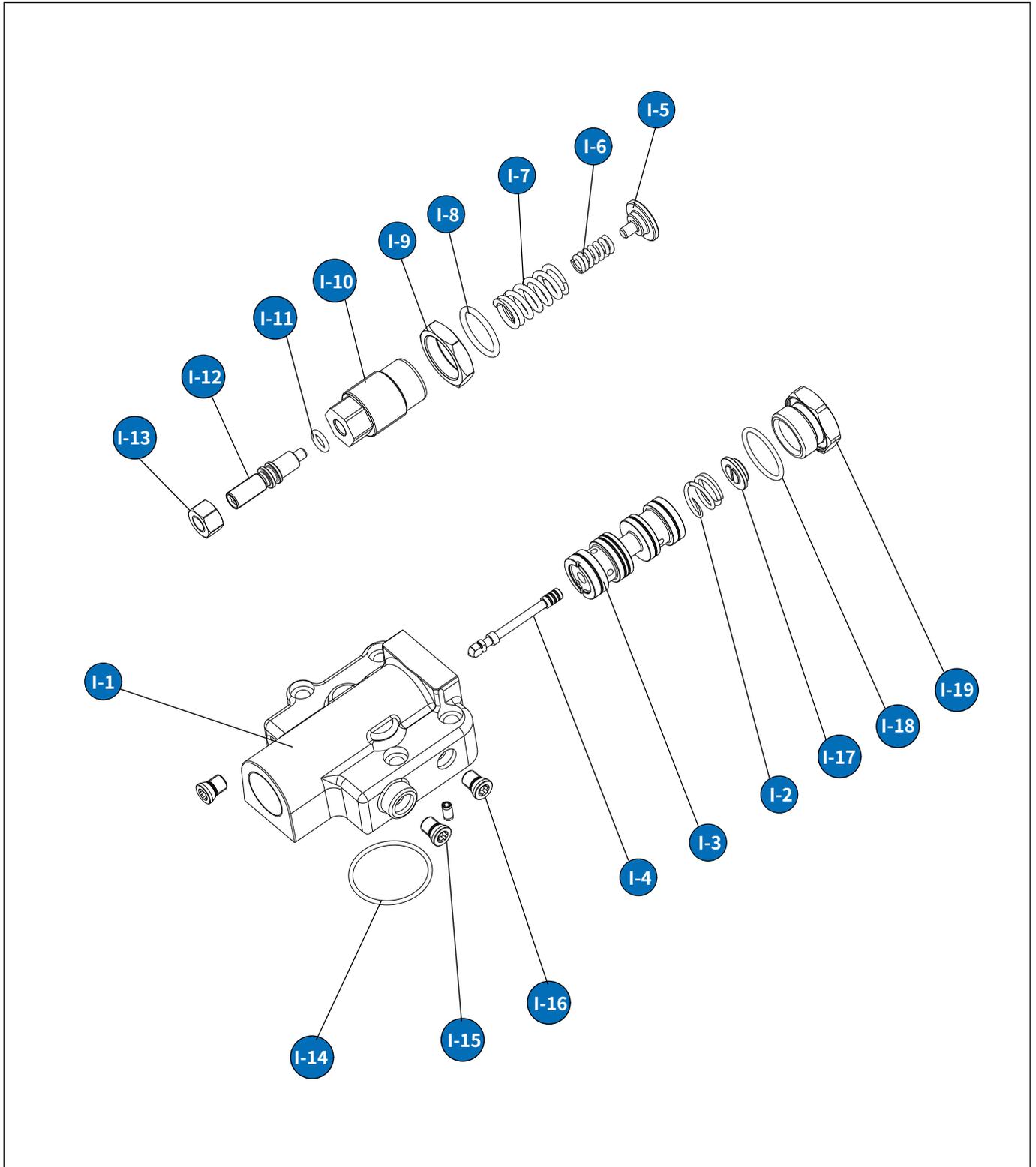
Power Valve List							
Serial No.	Part Name	Description	Direction of Rotation	Specification	Drawing No.	Material Code	QTY.per kit
G-1	Endcap	Without through drive	Clockwise	HLPV75-030001	HLPV75-030001	210000300408	1
			Clockwise (UNC)	HP5V76R-010001	HP5V76R-010001	210000298362	
			Counter-clockwise	HLPV75Q-010001	HLPV75Q-010001	210000299137	
			Counter-clockwise (UNC)	HLPV75Q-010001-S	HLPV75Q-010001-S	210000467792	
		With through drive	Clockwise	HLPV75B-020001	HLPV75B-020001	210000300409	
			Clockwise (UNC)	HP5V76K-010001	HP5V76K-010001	210000299093	
			Counter-clockwise	HP5V76P-030001	HP5V76P-030001	210000298365	
			Counter-clockwise (UNC)	HP5V76J-030001	HP5V76J-030001	210000300416	
G-2	Bearing			$\phi 28 * \phi 39 * 30$	RNA69/22R	210000366391	1
G-3	Locator pin			$\phi 6 * 14$	HLPV75-030002	210000299777	1
G-4	Adapter board	A1		HLPV75B-1-000002	HLPV75B-1-000002	210000302104	1
		A2					
		B1		HLPV75B-2-000002	HLPV75B-2-000002	210000302105	
		B2					
		C1		HLPV75B-3-000002	HLPV75B-3-000002	210000299707	
		C3		HLPV75B-4-000001	HLPV75B-4-000001	210000303551	
G-5	Coupling sleeve	A1		HLPV75B-1-000001	HLPV75B-1-000001	210000696866	1
		A2		HLPV75B-6-000001	HLPV75B-6-000001	210000299220	
		B1		HLPV75B-2-000001	HLPV75B-2-000001	210000493014	
		B2		HLPV75B-5-000001	HLPV75B-5-000001	210000299216	
		C1		HLPV75B-3-000001	HLPV75B-3-000001	210000493037	
		C3		HLPV75B-3-000001	HLPV75B-3-000001		



3.9.1 Control Valve (H)

LP1 Control (Pressure Cut-off+Load Sensing)					
Serial No.	Part Name	Specification	Drawing No.	Material Code	QTY.per kit
H1	Valve Body	HP6V28-0611VST-01	HP6V28-0611VST-01	210000799974	1
H2	Spool	HLPV75-051002	HLPV75-051002	210000675625	2
H3	Combination gasket	M8.5	YG-24-13-100-016-A	110000116593	2
H4	Plug	M8*1	HLPV75-070007	210000294370	2
H5	Gasket	HP5V18-060001	HP5V18-060001	210000880882	1
H6	Plug	HLPV75-070006	HLPV75-070006	210000294092	1
H7	O-ring	φ4*1.5	OR1500400	110000001191	1
H8	Spring seat	HLPV75-070001	HLPV75-070001	210000302956	1
H9	O-ring	φ15.8*2.4	YY-20-05-010-088-A	110000038432	1
H10	Spring seat	HLPV75-070003	HLPV75-070003	210000298085	1
H11	O-ring	φ8.8*1.9	ORP9-F5	110000064001	1
H12	Spring seat	HLPV75-070004	HLPV75-070004	210000298086	1
H13	Spring seat	HLPV75-070002	HLPV75-070002	210000298084	1
H14	Spring	9.3/1.2*20.5/3.5	HLPV75-052004	210000292579	1
H15	Spring	6/1.6*16.05/5.75	HLPV75-052005	210000292580	1
H16	Spring	15/4*35.8/5	HLPV75-053003	210000292578	1
H17	Spring	8.3/2.1*31.05/7	HLPV75-053004	210000292776	1
H18	Board	HLPV75-070005	HLPV75-070005	210000293669	1
H19	Hexagon socket cheese head screws	M6*16	GB/T 70.1	210000206178	4
H20	Hexagon socket set screws with flat point	M8*30	JIS B 1177	210000567342	2
H21	Hexagon nut	M8	JIS B 1181-ISO 4034	210000292408	2
H22	Plug	7/16-20UNF*11	HLPV80-030006	210000293879	2
H23	O-ring	φ8.92*1.83	904	110000001197	2
H24	Plug	M7*0.75	V30G205-000008	210000292750	2

3.9.2 Power Control Valve (I)



3.9.2 Power Control Valve (I)

Power Control Valve					
Serial No.	Part Name	Specification	Drawing No.	Material Code	QTY.per kit
I1	Valve Body	HP5V18A-080001	HP5V18A-080001	210000616831	1
I2	Spring	HP5V28D-040003	HP5V28D-040003	210000292555	1
I3	Valve sleeve	HP5V18-081001	HP5V18-081001	210000613597	1
I4	Spool	HP5V18-081002	HP5V18-081002	210000613623	1
I5	Spring seat	HP5V28D-040005	HP5V28D-040005	210000301797	1
I6	Spring	6.6/1.7*18.0/5.5	HP5V28D-040007	210000295848	1
I7	Spring	13.2/2.2*32.5/6	HP5V28D-040006-S1	210000759652	1
I8	O-ring	φ19.8*2.4	ORP20-F5	110000065132	1
I9	Screw nut	M22*1*6	HP5V28D-040010	210000301078	1
I10	Bushing	HP5V28D-040008	HP5V28D-040008	210000299257	1
I11	O-ring	φ6.8*1.9	ORP7-F5	110000066873	1
I12	Adjusting lever	HP5V28D-040009	HP5V28D-040009	210000298755	1
I13	Hexagon nut	M8	JIS B 1181-ISO 4034	210000292408	1
I14	O-ring	φ31.47*1.78	OR2-026-N6	110000066872	1
I15	Plug	M7*0.75	V30G205-000008	210000292750	3
I16	Cylindrical pin	4*8 CS-W	JIS B 2808	210000292536	1
I17	Spring seat	HP5V28D-040002	HP5V28D-040002	210000302980	1
I18	O-ring	φ22.1*1.9	P-22.4	110000001213	1
I19	Plug	HP5V28D-040004	HP5V28D-040004	210000293861	1
H20	Hexagon socket set screws with flat point	M8*30	JIS B 1177	210000567342	2
H21	Hexagon nut	M8	JIS B 1181-ISO 4034	210000292408	2
H22	Plug	7/16-20UNF*11	HLPV80-030006	210000293879	2
H23	O-ring	φ8.92*1.83	904	110000001197	2
H24	Plug	M7*0.75	V30G205-000008	210000292750	2



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