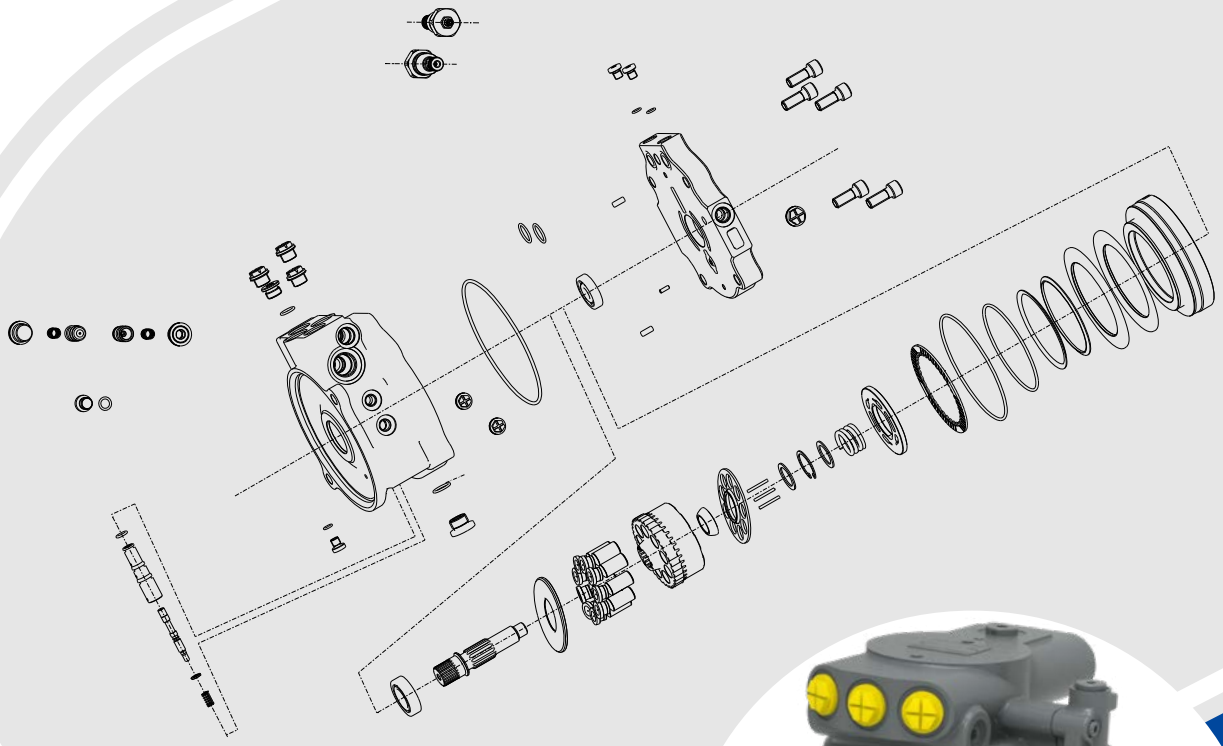
HENGLI HYDRAULICS



Parts Manual

HM5F Series

Swash-plate Type Axial Piston Fixed Displacement Motor

www.henglihydraulics.com

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HM5F Series

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Note: “*” indicates under production.

1 General information

This manual lists parts related information for the full range of HM5F 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.: HM5F2910000-RGSS20B
  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.

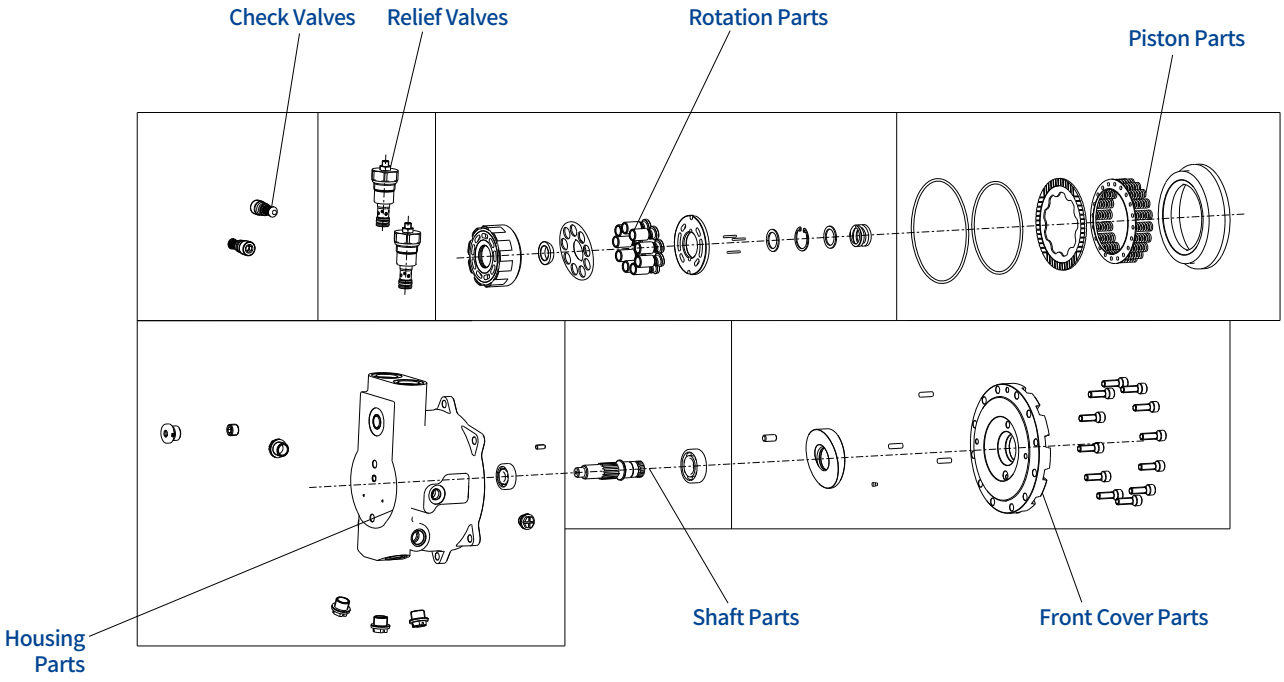
3 HM5F Product Parts

3.1 HM5F15

HM5F-15

3.1 HM5F15

HM5F15 Integral Parts



3.1 HM5F15

HM5F15 Parts Catalogue

3.1.1 Housing Parts
Without delay valve and anti-reaction valve selection code 00 06

3.1.2 Front Cover Parts
Front cover parts 07

3.1.3 Swashplate Parts
Swashplate parts 08

3.1.4 Piston Parts
Piston parts 09

3.1.5 Rotation Parts
Rotation parts 10

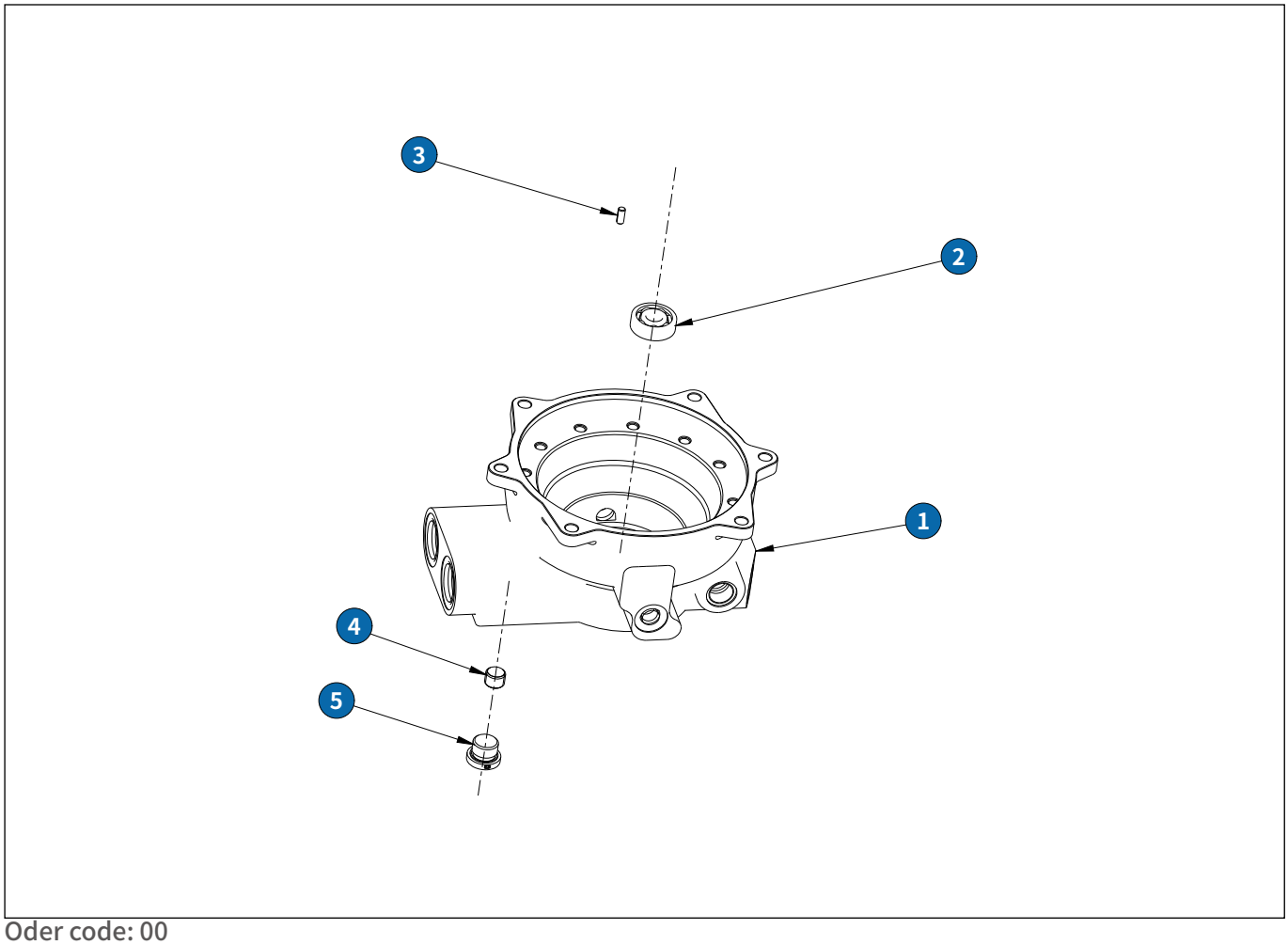
3.1.6 Shaft Parts
Shaft parts 11

3.1.7 Check Valve Parts
Check valve parts 12

3.1.8 Relief Valve Parts
Relief valve peak pressure selection code 216 13

3.1.1 HM5F15 Housing Parts

· Order code 00: Without delay valve and anti-reaction valve.

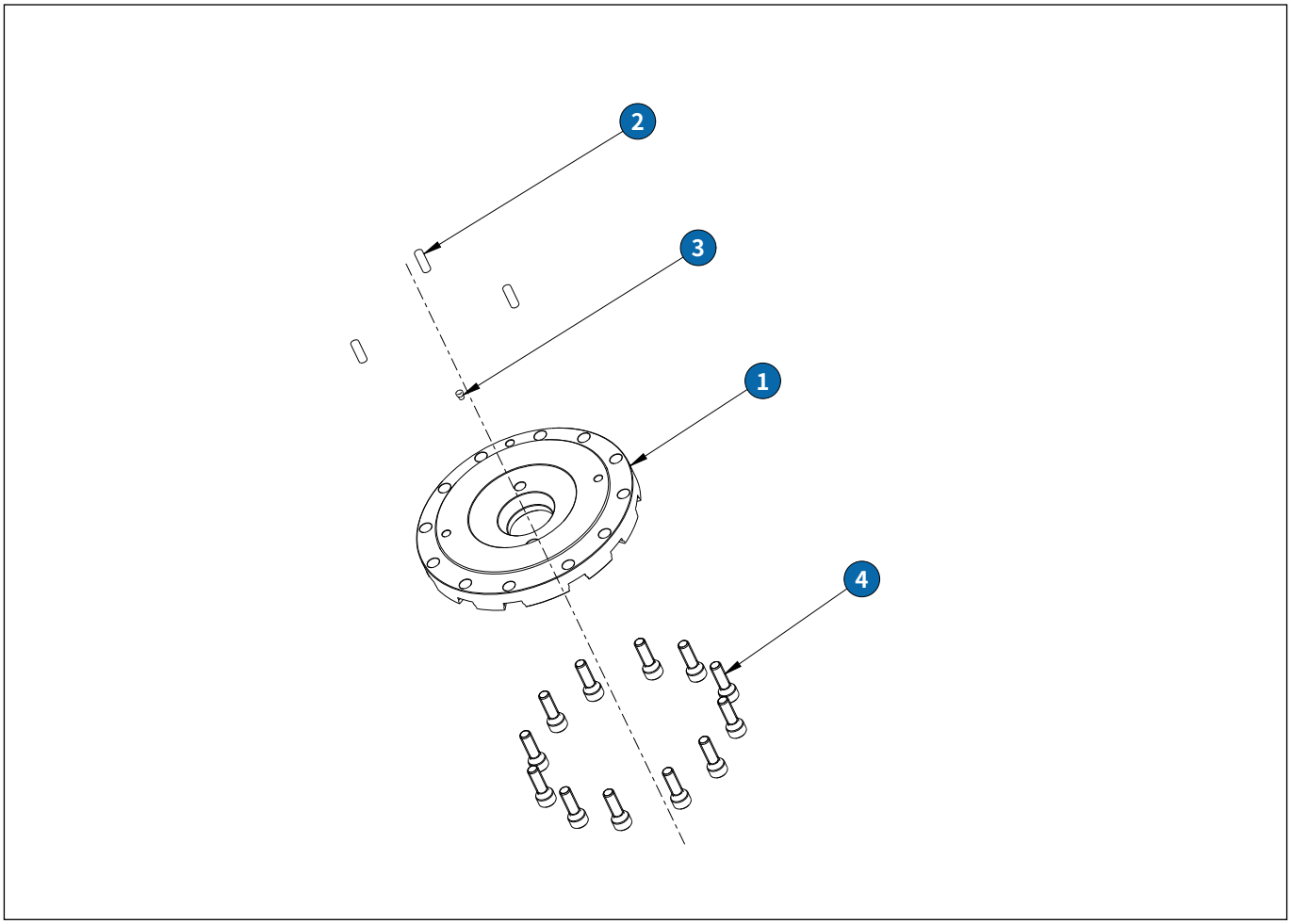


Oder code: 00

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F15-0410HSN	210000815863	1	HM5F15-0410HSN
2	Deep groove ball bearing	ϕ12*ϕ32*10	210000363704	1	6201 CM
3	Flexible cylindrical pins	5*12-GS-W	210000293180	1	JIS B 2808
4	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906
5	Hexagon socket plug	M18*1.5	210000293557	1	ISO 9974-4

3.1.2 HM5F15 Front Cover Parts

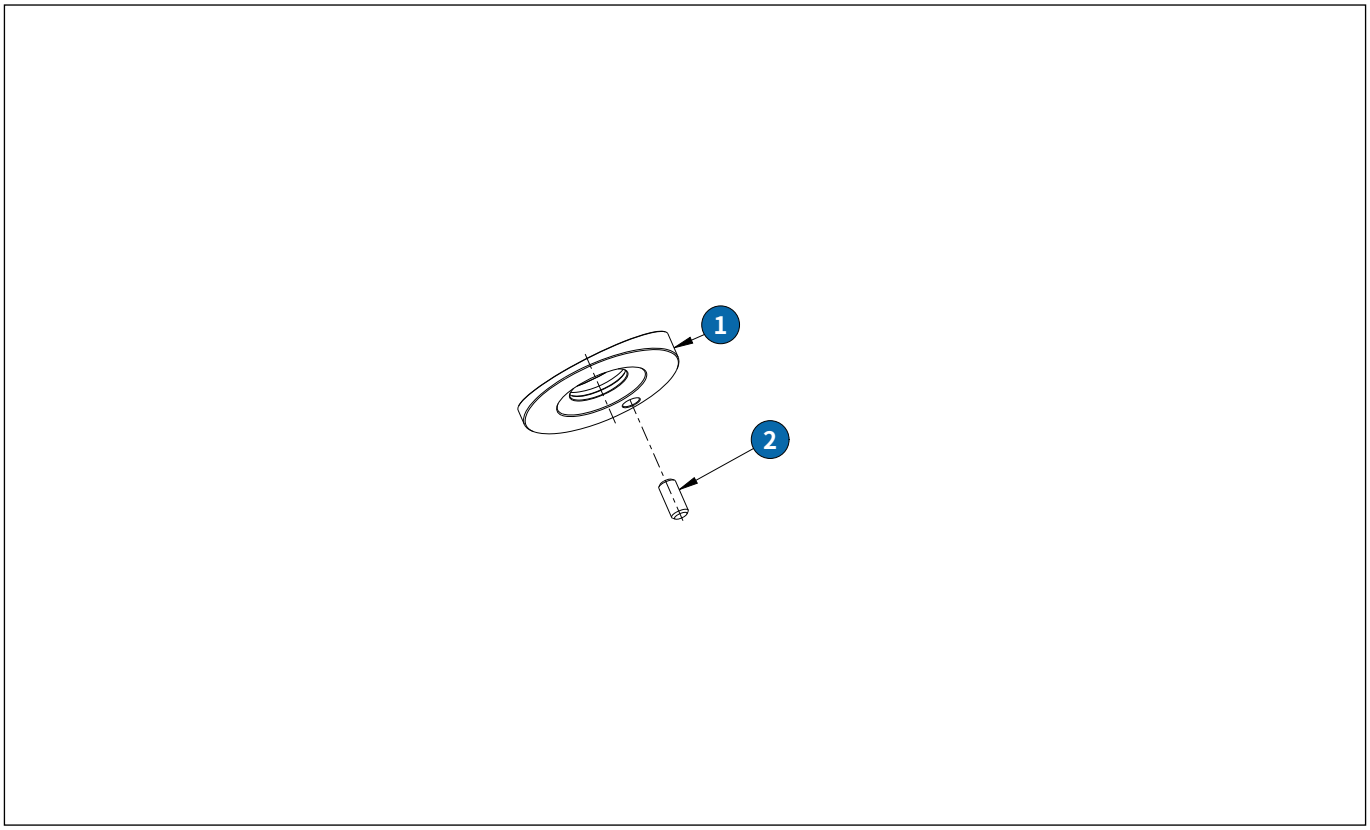
· Order code: Front cover parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Front cover	HM5X15-040001	210000420669	1	HM5X15-040001
2	Cylindrical pin	HM5X18-060002	210000300986	3	HM5X18-060002
3	Strainer	HM5X18-060003	210000296230	1	HM5X18-060003
4	Swashplate	HM5X15-000001	210000420462	1	HM5X15-000001
5	Cylindrical pin	ϕ8*17	210000299865	1	HM5X18-000002
6	Hexagon socket screws	M8*25	210000206294	12	GB/T 70.1

3.1.3 HM5F15 Swashplate Parts

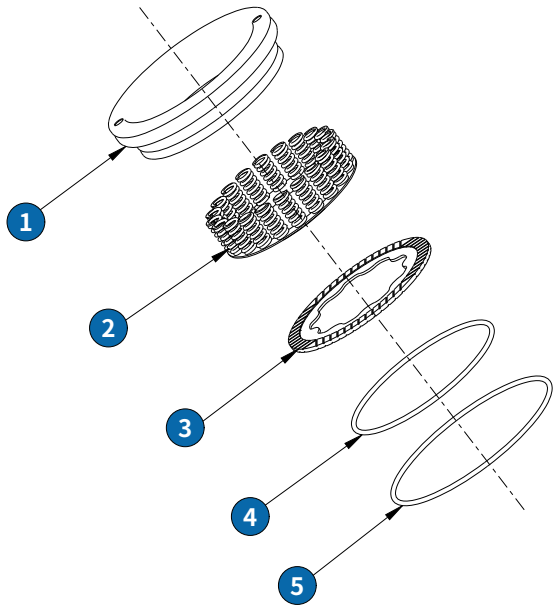
· Order code: Swashplate parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Swashplate	HM5X15-000001	210000420462	1	HM5X15-000001
2	Cylindrical pin	ϕ8*17	210000299865	1	HM5X18-000002

3.1.4 HM5F15 Piston Parts

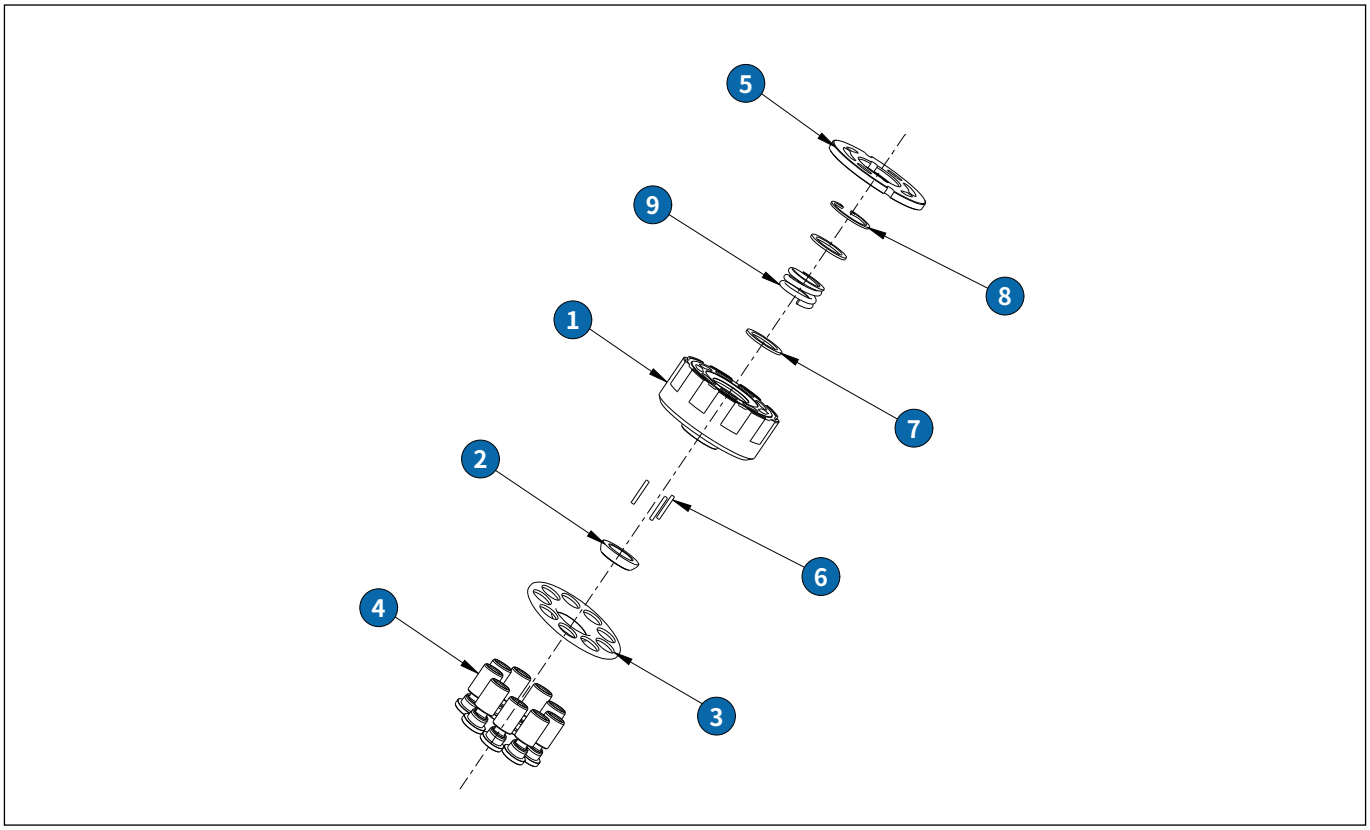
· Order code: Piston parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Brake piston	HM5X18-000004	210000302097	1	HM5X18-000004
2	Piston spring assembly	HM5X18-070000	210000303187	1	HM5X18-070000
3	Friction plate	HM5X18-000003	210000301972	1	HM5X18-000003
4	O-ring	ϕ109.4*3.1	110000103825	1	ORG110-F5
5	O-ring	ϕ124.4*3.1	110000001236	1	OR3112440

3.1.5 HM5F15 Rotation Parts

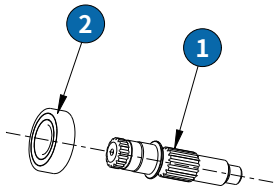
· Order code: Rotation parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM5X15-030001	210000420668	1	HM5X15-030001
2	Ball hinge	HM5X18-030003	210000303086	1	HM5X18-030003
3	Return disc	HM5X15-030001	210000425929	1	HM5X15-030001
4	Piston assembly	HM5X15-031000	210000419769	9	HM5X15-031000
5	Valve plate	HM5X18-030002	210000356511	1	HM5X18-030002
6	Cylindrical pin	ϕ2.35*18	210000420473	3	HM5X15-030003
7	Gasket	ϕ27.5*ϕ20.3*1.5	210000302006	2	HM5X18-030006
8	C-rings for holes	CE-IN 28	210000294475	1	JIS B 2804
9	Spring	HM5X15-030004	210000419768	1	HM5X15-030004

3.1.6 HM5F15 Shaft Parts

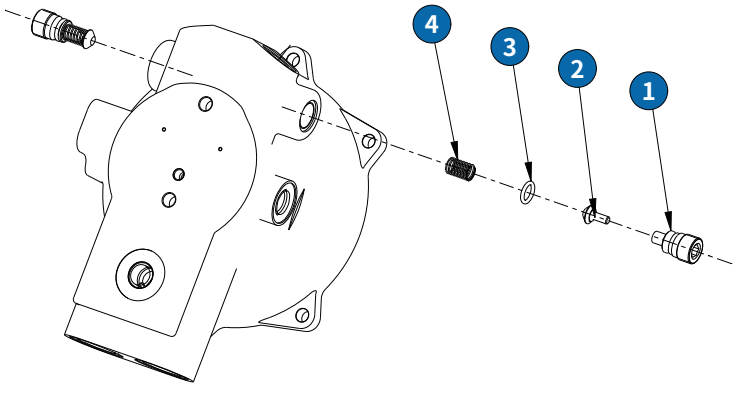
·Order code: Shaft parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Shaft	HM5X15-020001	21000420463	1	HM5X15-020001
2	Deep groove ball bearing	ϕ12*ϕ32*10	210000422242	1	6004-Z

3.1.7 HM5F15 Check Valve Parts

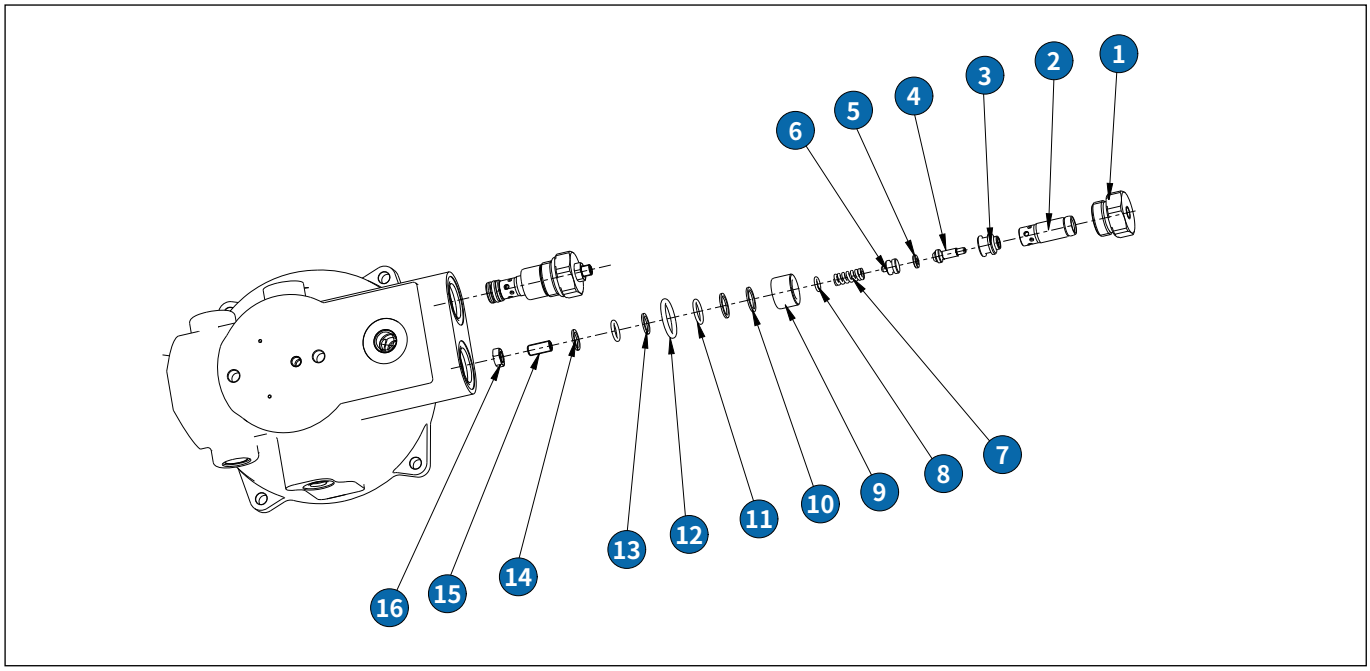
· Order code: Check valve parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Screw	HM5X18-050001	210000299225	1	HM5X18-050001
2	Cone valve spool	HM5X18-050003	210000303321	1	HM5X18-050003
3	O-ring	ϕ10.8*2.4	110000067694	1	ORP11-N7
4	Spring	HM5X18-050002	210000292361	1	HM5X18-050002

3.1.8 HM5F15 Relief Valve Parts

· Order code 216: Relief valve setpoint peak pessure



Order code: 216

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Plug	G3/4	210000293876	1	HM5X027A-010001
2	Valve sleeve	HM5X027-040004	210000297818	1	HM5X027-040004
3	Valve seat	HM5X027-040001	210000303278	1	HM5X027-040001
4	Cone valve spool	HM5X027-040002	210000303319	1	210000303319
5	Spring gasket	HM5X027-040005	210000303515	1	HM5X027-040005
6	Piston	HM5X027A-010002	210000302062	1	HM5X027A-010002
7	Spring	HM5X027-040003	210000294194	1	HM5X027-040003
8	O-ring	ϕ13.8*2.4	110000022876	1	P-8
9	Valve sleeve	HM5X027-040007	210000297934	1	HM5X027-040007
10	O-ring retaining ring	19*15*1.25	210000343448	2	P15-T3
11	O-ring	ϕ14.8*2.4	110000022872	1	P-15
12	O-ring	ϕ23.7*3.5	110000108198	1	ORP24-F5
13	O-ring retaining ring	ϕ16*ϕ12*1.25	210000294337	1	P-12
14	O-ring	ϕ11.8*2.4	110000051053	1	P-12
15	Adjusting screw	HM5X027A-010003	210000303288	1	HM5X027A-010003
16	Nut	M8*1.25*5	210000354983	1	M8*1.25*5

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3 HM5F Product Parts

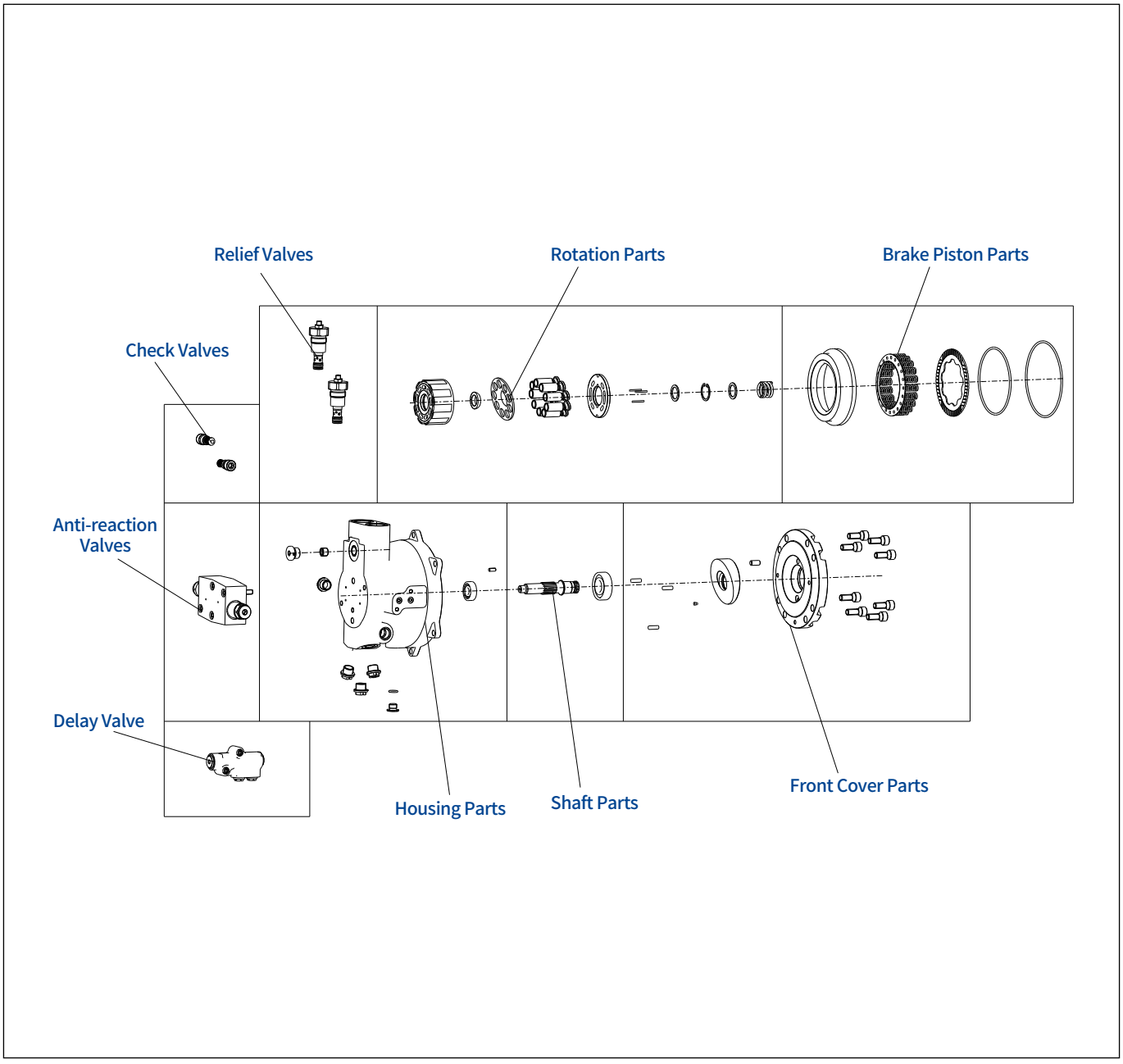
3.2 HM5F18

HM5F-18

3.2 HM5F18

·Take housing parts with drain port on side as an example.

HM5F18 Integral Parts



3.2 HM5F18

HM5F18 Parts Catalogue

3.2.1 Housing Parts
With delay valve selection code 1 18
Without delay valve selection code 0 19

3.2.2 Front Cover Parts
Front cover parts 20

3.2.3 Swashplate Parts
Swashplate parts 21

3.2.4 Piston Parts
Piston parts 22

3.2.5 Rotation Parts
Rotation parts 23

3.2.6 Shaft Parts
Shaft parts 24

3.2.7 Check Valve Parts
Check valve parts 25

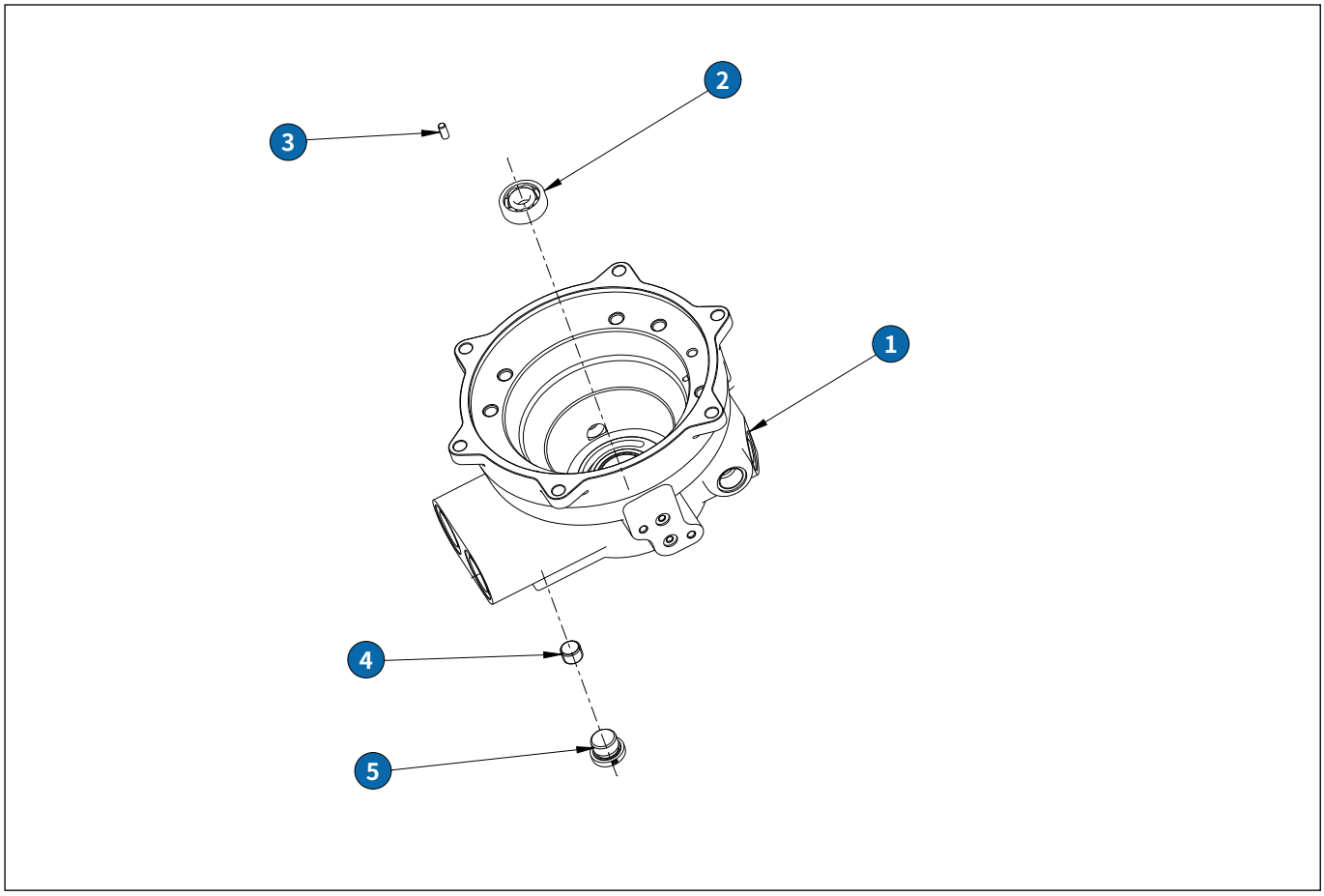
3.2.8 Delay Valve Parts
Delay valve selection code 1 26

3.2.9 Anti-reaction Valve Parts
Anti-reaction valve selection code 1 27

3.2.10 Relief Valve Parts
Relief valve peak pressure selection code 216 28

3.2.1 HM5F18 Housing Parts

· Involving delay valve order code 1 : With delay valve.

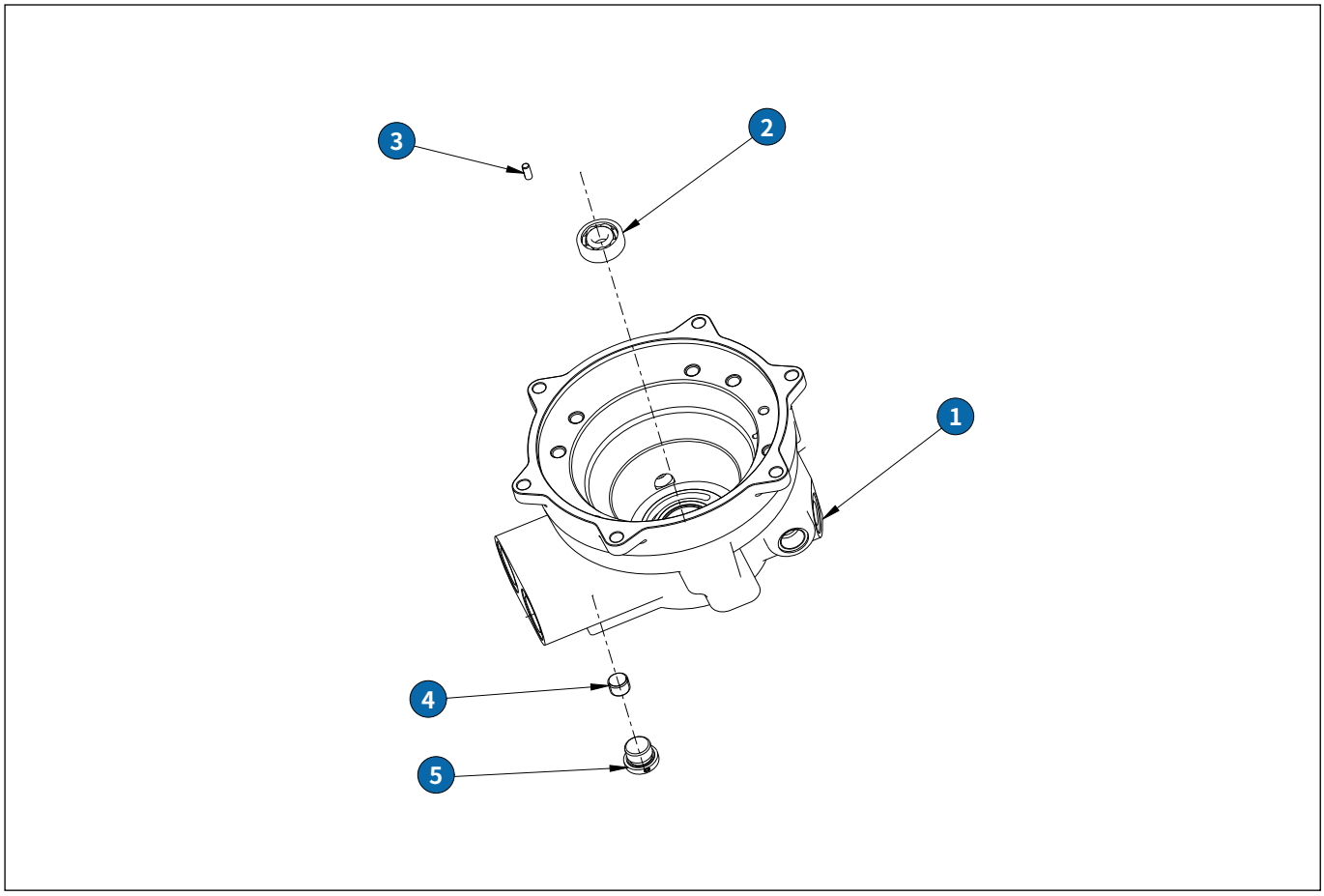


Oder code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F18-0410HSN-01	210000999663	1	HM5F18-0410HSN-01
2	Deep groove ball bearing	ϕ12*ϕ32*10	210000363704	1	6201 CM
3	Flexible cylindrical pins	5*12-GS-W	210000293180	1	JIS B 2808
4	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906
5	Hexagon socket plug	M18*1.5	210000293557	1	M18*1.5

3.2.1 HM5F18 Housing Parts

· Involving delay valve order code 0 : Without delay valve.

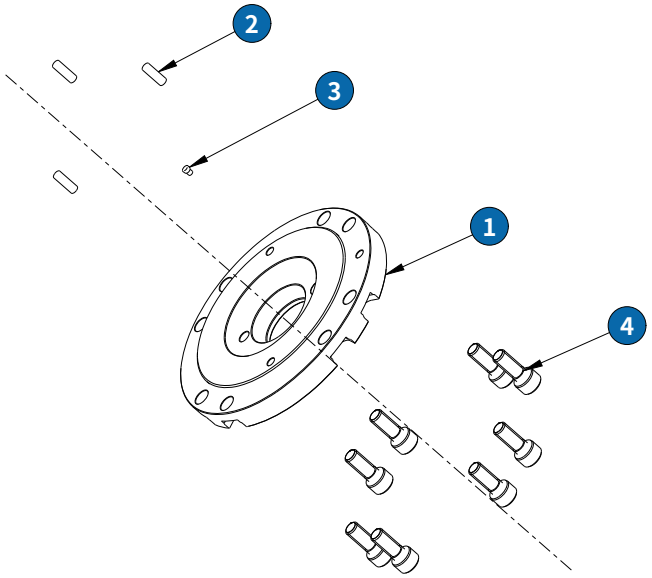


Oder code: 0

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F18-0410HSN	210000815865	1	HM5F18-0410HSN
2	Deep groove ball bearing	ϕ12*ϕ32*10	210000363704	1	6201 CM
3	Flexible cylindrical pins	5*12-GS-W	210000293180	1	JIS B 2808
4	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906
5	Hexagon socket plug	M18*1.5	210000293557	1	M18*1.5

3.2.2 HM5F18 Front Cover Parts

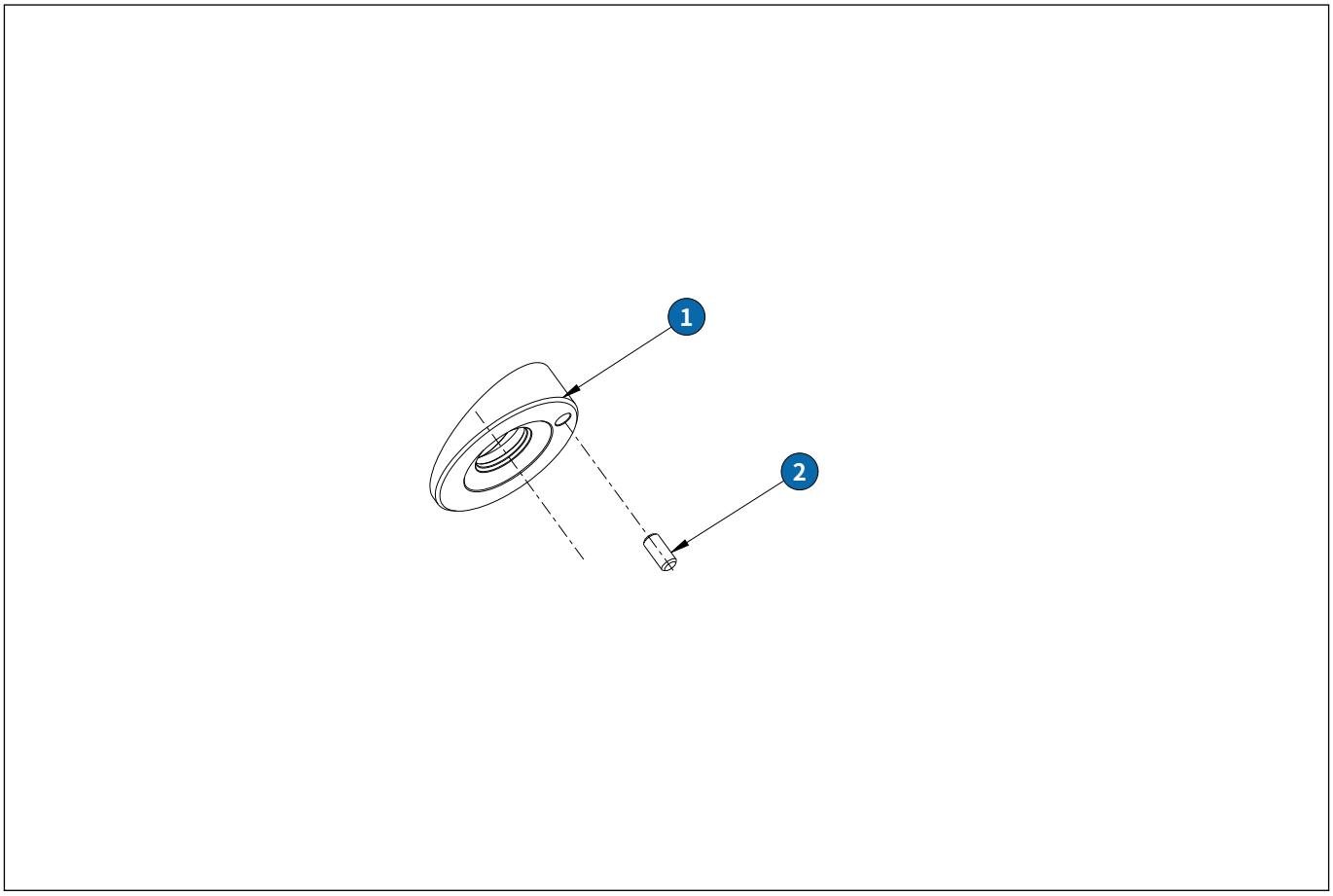
· Order code: Front cover parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Front cover	HM5X18-060001	210000300778	1	HM5X18-060001
2	Cylindrical pin	HM5X18-060002	210000300986	3	HM5X18-060002
3	Strainer	HM5X18-060003	210000296230	1	HM5X18-060003
4	Hexagon socket screws	M10*25	210000206992	8	GB/T 70.1

3.2.3 HM5F18 Swashplate Parts

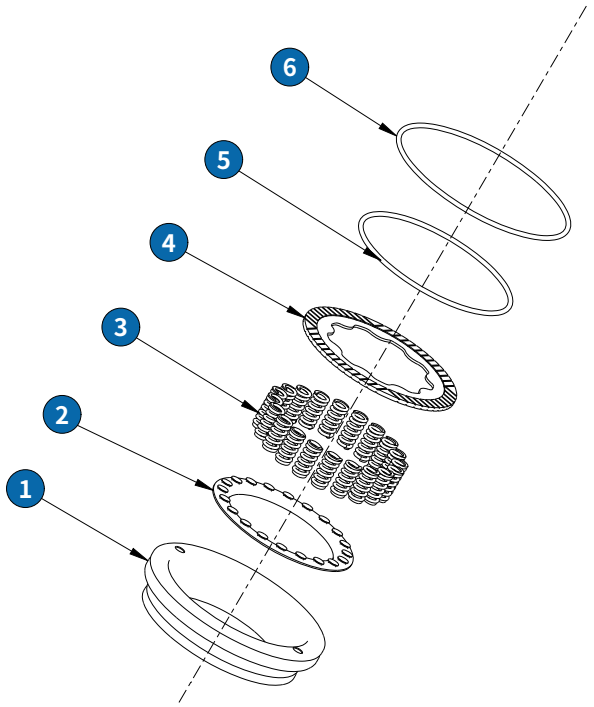
· Order code: Swashplate parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Swashplate	HM5X18-000001	210000300116	1	HM5X18-000001
2	Cylindrical pin	ϕ8*17	210000299865	1	HM5X18-000002

3.2.4 HM5F18 Piston Parts

· Order code: Piston parts are not subject to selection code.

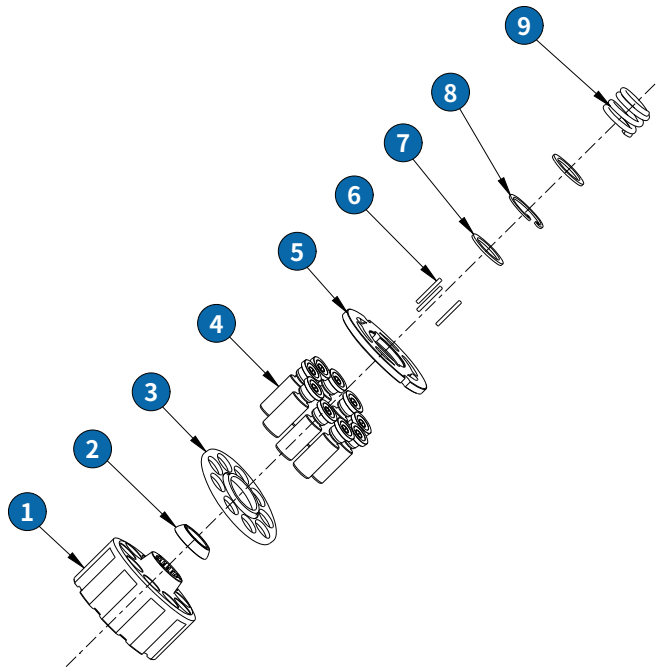


Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Brake piston	HM5X18-000004	210000302097	1	HM5X18-000004
2	Spring pallets[1]	HM5X18-070002	210000302953	1	HM5X18-070002
3	Spring[1]	HM5X18-070001	210000292439	1	HM5X18-070001
4	Friction plate	HM5X18-000003	210000301972	1	HM5X18-000003
5	O-ring	ϕ109.4*3.1	110000103825	1	ORG110-F5
6	O-ring	ϕ124.4*3.1	110000001236	1	OR3112440

Note: "1" indicates that the piston spring assembly is formed.

3.2.5 HM5F18 Rotation Parts

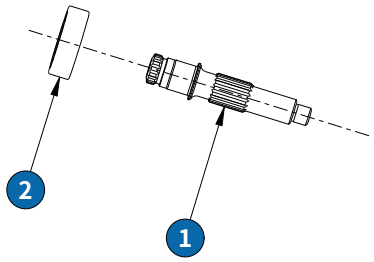
· Order code: Rotation parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM5X18-030001	210000302746	1	HM5X18-030001
2	Ball hinge	HM5X18-030003	210000303086	1	HM5X18-030003
3	Return disc	HM5X18-030004	210000297696	1	HM5X18-030004
4	Piston assembly	HM5X18-031000	210000300308	9	HM5X18-031000
5	Valve plate	HM5X18-030002	210000356511	1	HM5X18-030002
6	Cylindrical pin	ϕ2.35*22	210000299864	3	HM5X18-030007
7	Gasket	ϕ27.5*ϕ20.3*1.5	210000302006	2	HM5X18-030006
8	C-rings for holes	CE-IN 28	210000294475	1	JIS B 2804
9	Spring	23.7/3.5*26.7/3	210000292855	1	HM5X18-030005

3.2.6 HM5F18 Shaft Parts

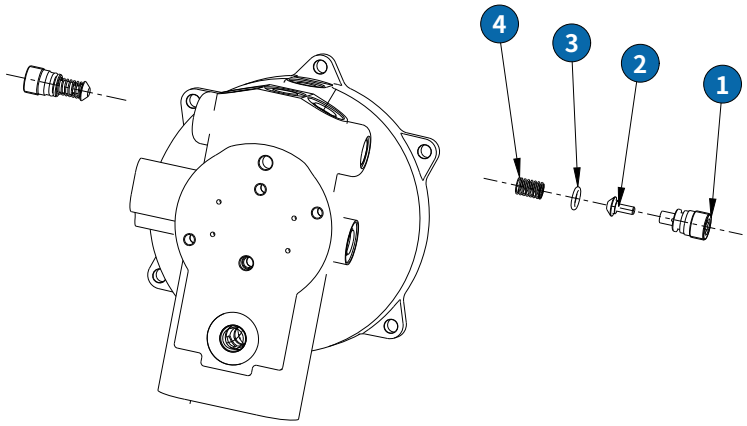
·Order code: Shaft parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Shaft	HM5X18-020001	210000298293	1	HM5X18-020001
2	Deep groove ball bearing	ϕ20*ϕ47*14	210000363700	1	6204ZE-Z

3.2.7 HM5F18 Check Valve Parts

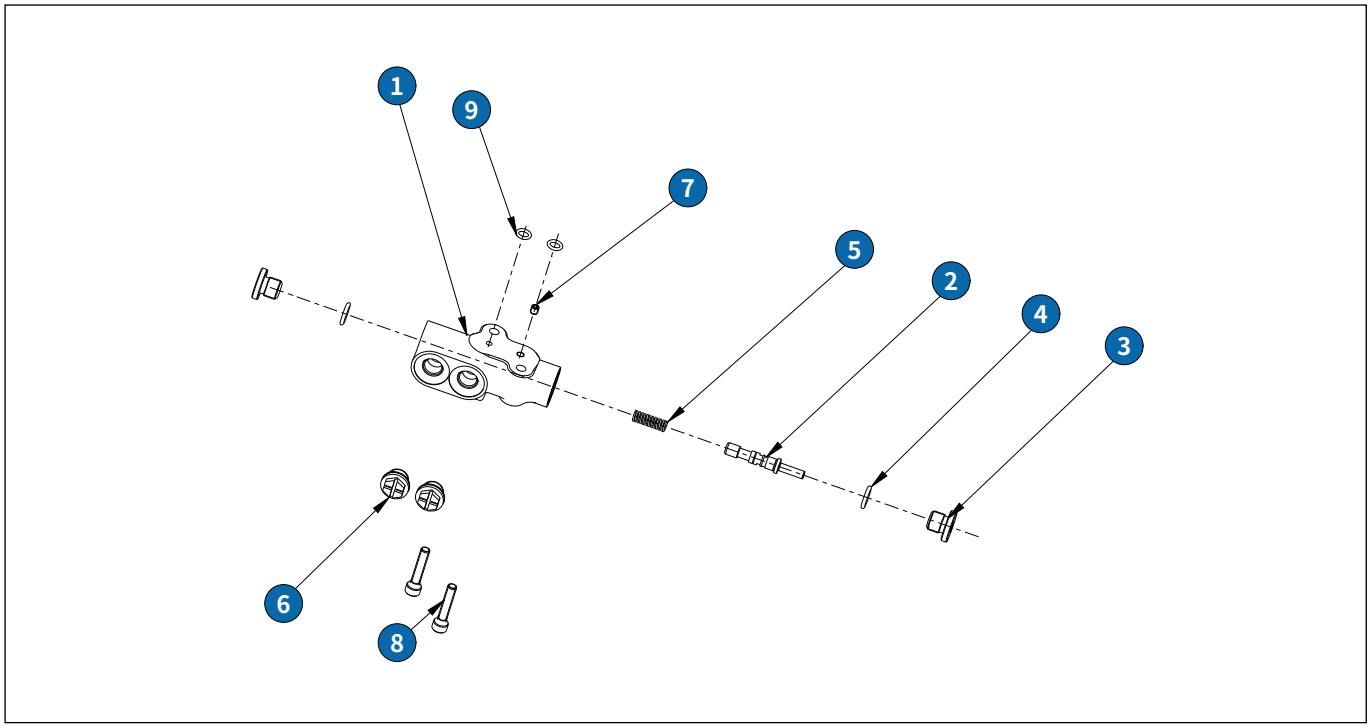
· Order code: Check valve parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Screw	HM5X18-050001	210000299225	1	HM5X18-050001
2	Cone valve spool	HM5X18-050003	210000303321	1	HM5X18-050003
3	O-ring	ϕ10.8*2.4	110000067694	1	ORP11-N7
4	Spring	HM5X18-050002	210000292361	1	HM5X18-050002

3.2.8 HM5F18 Delay Valve Parts

· Order code 1: With delay valve./ · Order code 0: Without delay valve, please skip it.

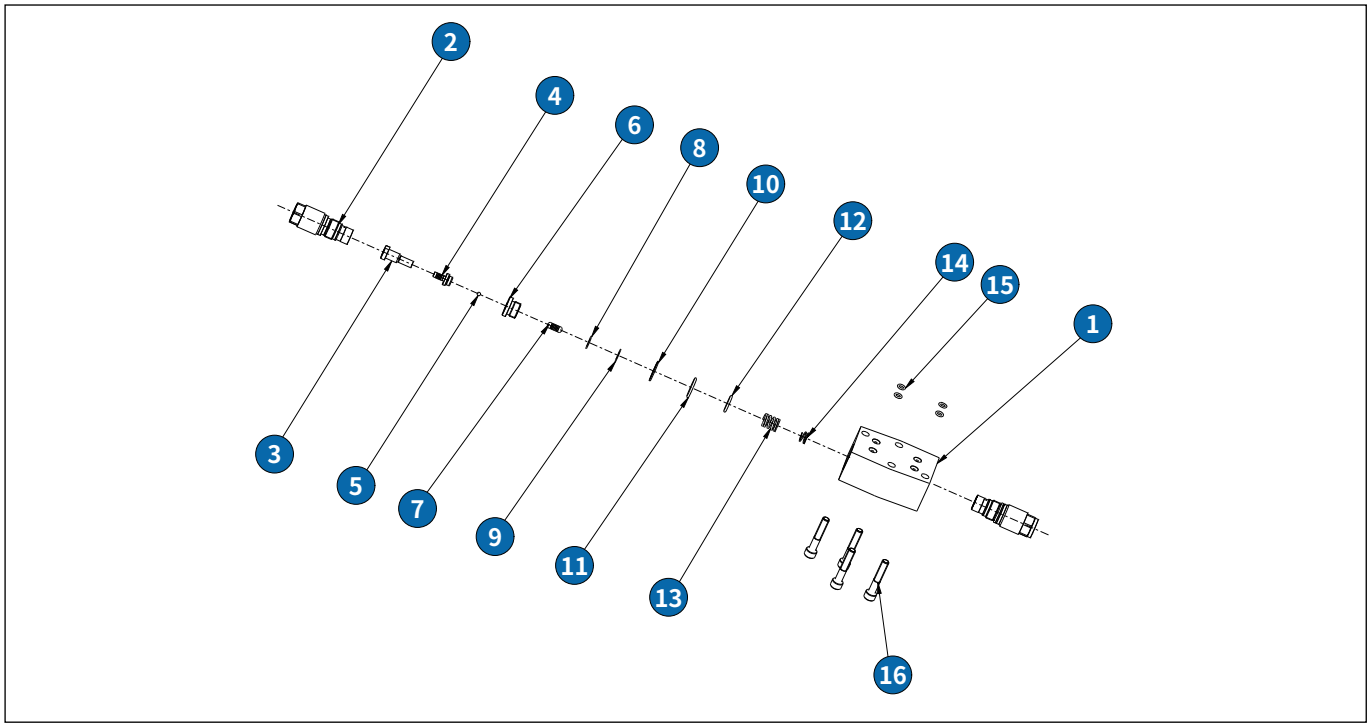


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve body	HM5F34-060001	210000763521	1	HM5F34-060001
2	Spool	HM5X45-06N1SPL-01	210001026195	1	HM5X45-06N1SPL-01
3	Plug	HM5X45-060004	210000293056	2	HM5X45-060004
4	O-ring	ϕ10.8*2.4	110000067694	2	ORP11-N7
5	Spring	6.5/1*25.7/13.5	210000292700	1	HM5X45-060003
6	External plug (cross-head washer)	G1/4	110000022842	2	G1/4
7	Throttle plug	M5(0.5)	210000424262	1	S0505
8	Hexagon socket screws	M6*30	210000206181	2	GB/T 70.1
9	O-ring	ϕ6.8*1.9	110000110024	2	ORP7-N7

3.2.9 HM5F18 Anti-reaction Valve Parts

·Order code 1: With anti-reaction valve / ·Order code 0: Without anti-reaction valve, please skip it.

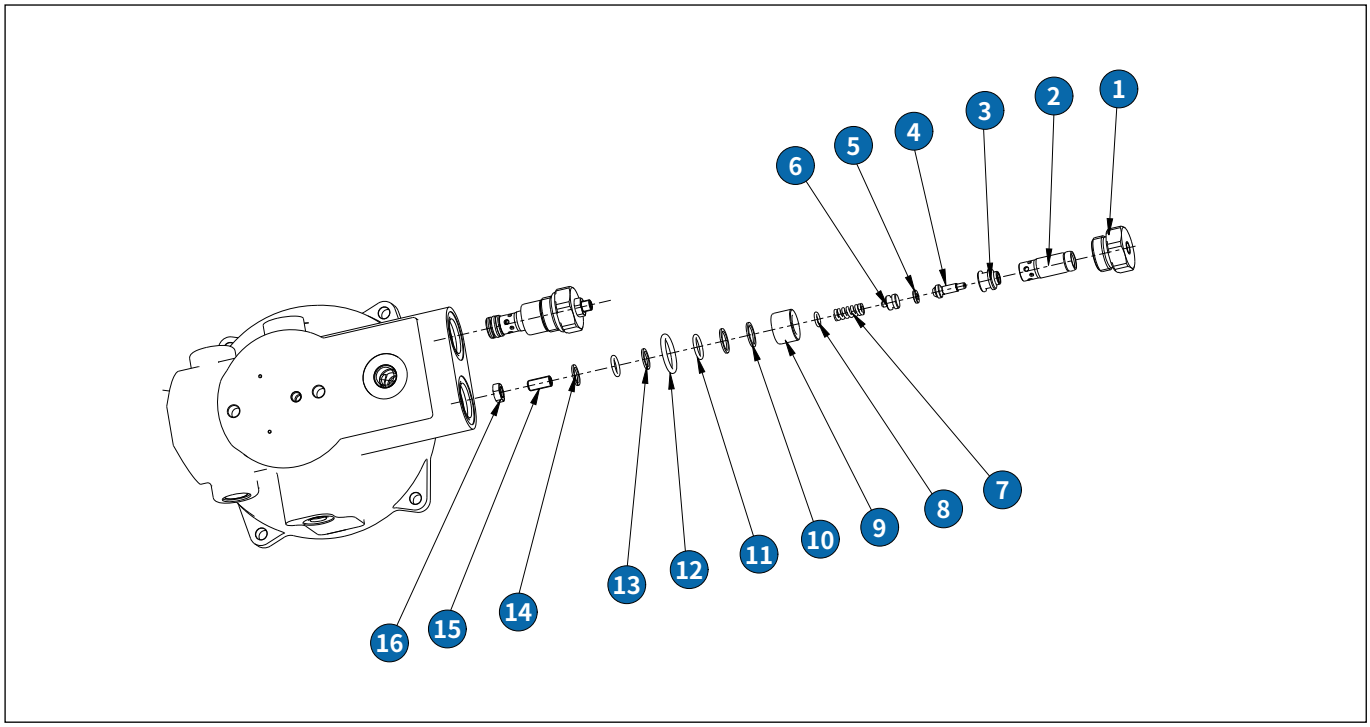


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve body	HM5X18-06P1VST-02	210001001688	1	HM5X027A-010001
2	Valve sleeve	HM5X130-081001-001	210000553931	2	HM5X130-081001-001
3	Valve sleeve	HM5X130-081004	210000303393	2	HM5X130-081004
4	Valve seat	HM5X130-081008	210000412165	2	HM5X130-081008
5	Steel ball	3.969(G20)	210000294614	2	GB/T 308
6	Plug	HM5X130-081002	210000302062	2	HM5X130-081002
7	Spool	HM5X130-081003	210000300658	2	HM5X027-040003
8	Gasket	ϕ14.8*ϕ11.1*0.9	210000303159	2	HM5X130-081005
9	Gasket	ϕ14.8*ϕ11.1*0.6	210000891213	2	HM5X130-081006
10	O-ring retaining ring	ϕ24*ϕ20*1.25	210000294249	2	P20-T2
11	O-ring	ϕ19.8*2.4	110000065132	2	ORP20-F5
12	O-ring	ϕ15.8*2.4	110000110171	2	ORP16-N7
13	Spring	13.2/2*26.5/5	210000293689	2	HM5X130-081007
14	Conical spring	HM5X130-081009	210000293667	2	HM5X130-081009
15	O-ring	ϕ5.8*1.9	110000038433	4	YY-20-05-010-089-A
16	Hexagon socket screws	M8*45	210000206204	4	GB/T 70.1

3.2.10 HM5F18 Relief Valve Parts

· Order code 216: Relief valve setpoint peak pessure



Order code: 216

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Plug	G3/4	210000293876	1	HM5X027A-010001
2	Valve sleeve	HM5X027-040004	210000297818	1	HM5X027-040004
3	Valve seat	HM5X027-040001	210000303278	1	HM5X027-040001
4	Cone valve spool	HM5X027-040002	210000303319	1	210000303319
5	Spring gasket	HM5X027-040005	210000303515	1	HM5X027-040005
6	Piston	HM5X027A-010002	210000302062	1	HM5X027A-010002
7	Spring	HM5X027-040003	210000294194	1	HM5X027-040003
8	O-ring	ϕ13.8*2.4	110000022876	1	P-8
9	Valve sleeve	HM5X027-040007	210000297934	1	HM5X027-040007
10	O-ring retaining ring	19*15*1.25	210000343448	2	P15-T3
11	O-ring	ϕ14.8*2.4	110000022872	1	P-15
12	O-ring	ϕ23.7*3.5	110000108198	1	ORP24-F5
13	O-ring retaining ring	ϕ16*ϕ12*1.25	210000294337	1	P-12
14	O-ring	ϕ11.8*2.4	110000051053	1	P-12
15	Adjusting screw	HM5X027A-010003	210000303288	1	HM5X027A-010003
16	Nut	M8*1.25*5	210000354983	1	M8*1.25*5

3 HM5F Product Parts

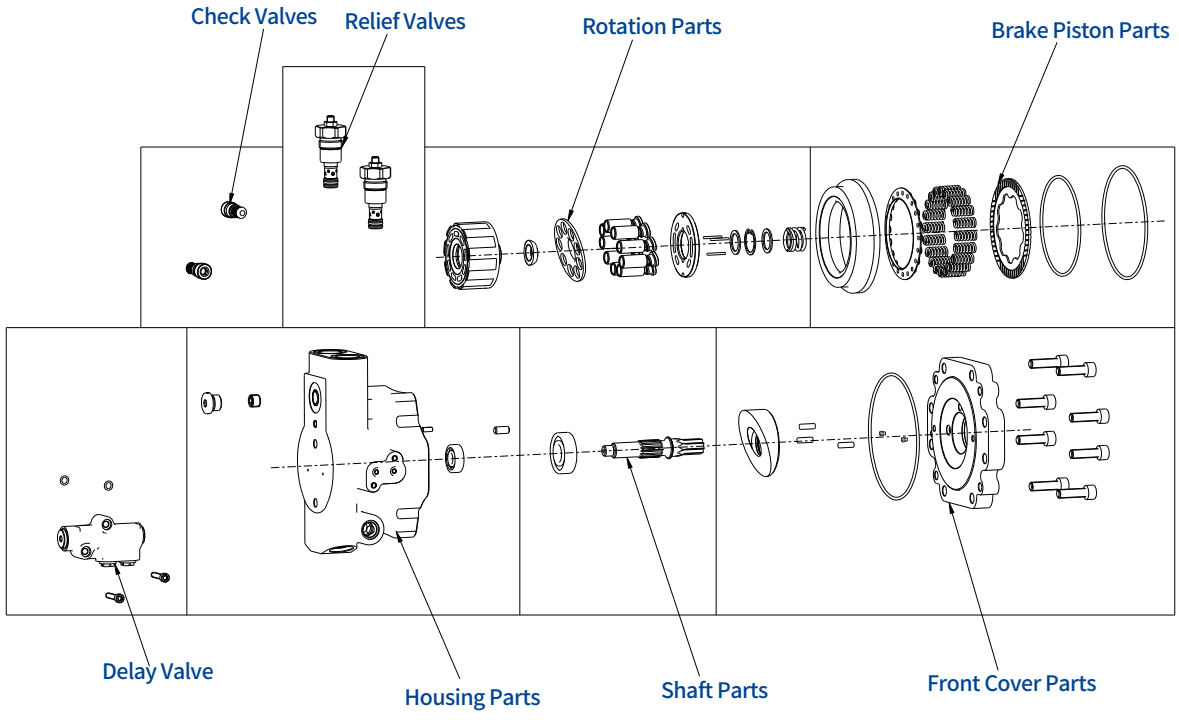
3.3 HM5F23

HM5F-23

3.3 HM5F23

·Take housing parts with drain port on side as an example.

HM5F23 Integral Parts



3.3 HM5F23

HM5F23 Parts Catalogue

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Front cover parts 34

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Swashplate parts 35

3.3.4 Piston Parts
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3.3.5 Rotation Parts
Rotation parts 37

3.3.6 Shaft Parts
Shaft parts 38

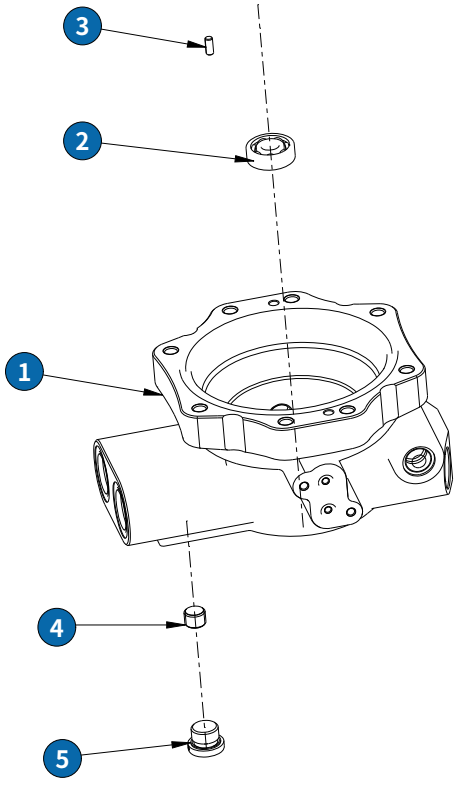
3.3.7 Check Valve Parts
Check valve parts 39

3.3.8 Delay Valve Parts
Delay valve selection code 1 40

3.3.9 Relief Valve Parts
Relief valve peak pressure selection code 216 41

3.3.1 HM5F23 Housing Parts

· Involving delay valve order code 1 : With delay valve.

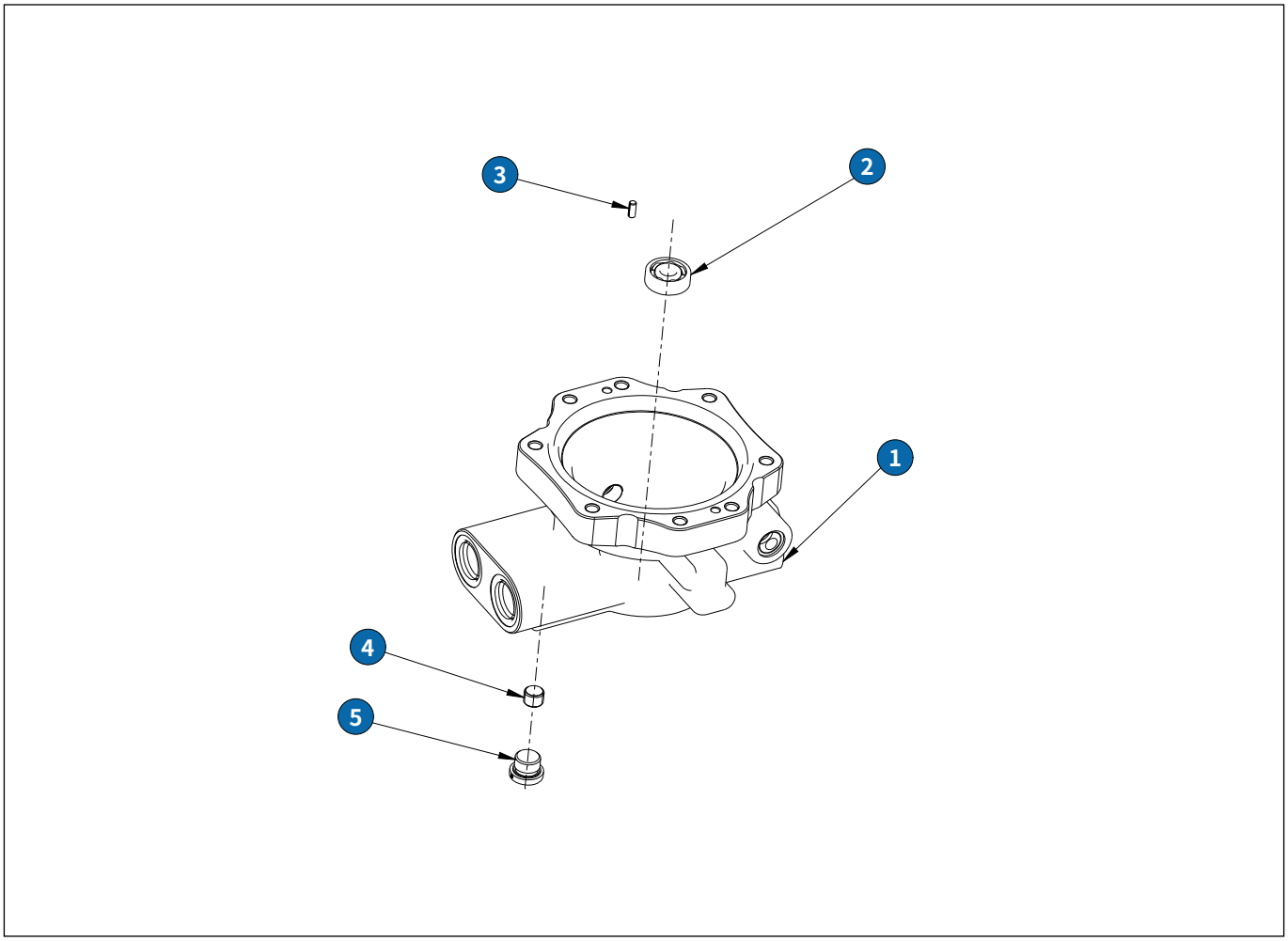


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F23-0410HSN-02	210001135016	1	HM5F23-0410HSN-02
2	Deep groove ball bearing	ϕ12*ϕ32*10	210000363704	1	6201 CM
3	Flexible cylindrical pins	5*12-GS-W	210000293180	1	JIS B 2808
4	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906
5	Hexagon socket plug	M18*1.5	210000293557	1	M18*1.5

3.3.1 HM5F23 Housing Parts

· Involving delay valve order code 0 : Without delay valve.

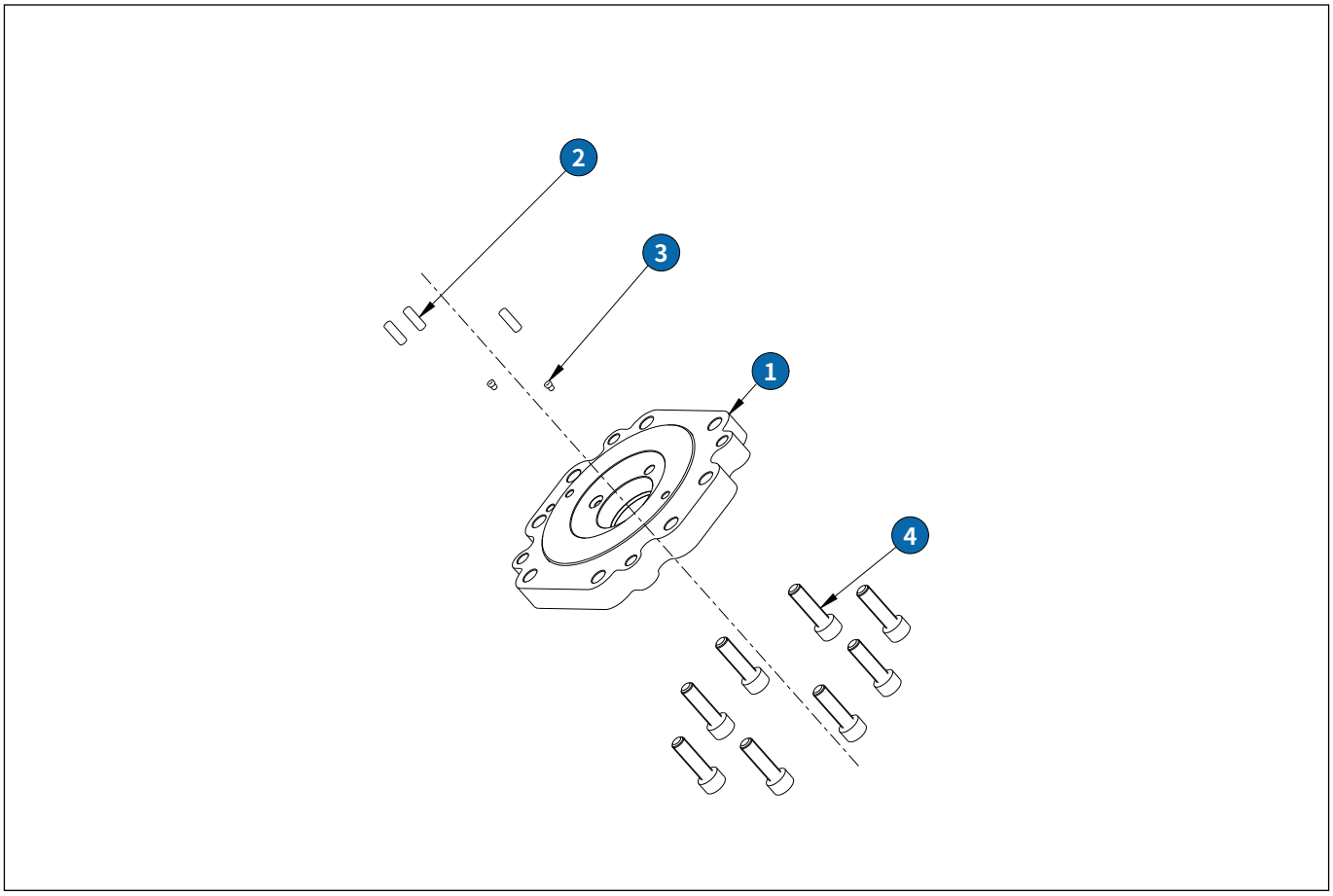


Order code: 0

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F23-0410HSN	210000786633	1	HM5F23-0410HSN
		HM5F23-0410HSN-01	210000973649	1	HM5F23-0410HSN-01
2	Deep groove ball bearing	ϕ12*ϕ32*10	210000363704	1	6201 CM
3	Flexible cylindrical pins	5*12-GS-W	210000293180	1	JIS B 2808
4	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906
5	Hexagon socket plug	M18*1.5	210000293557	1	M18*1.5

3.3.2 HM5F23 Front Cover Parts

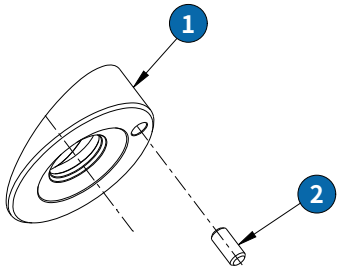
· Order code: Front cover parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Front cover	HM5X23-030001	210000383309	1	HM5X23-030001
2	Cylindrical pin	HM5X18-060002	210000300986	3	HM5X18-060002
3	Strainer	HM5X18-060003	210000296230	2	HM5X18-060003
4	Hexagon socket screws	M10*35	210000294642	8	GB/T 70.1

3.3.3 HM5F23 Swashplate Parts

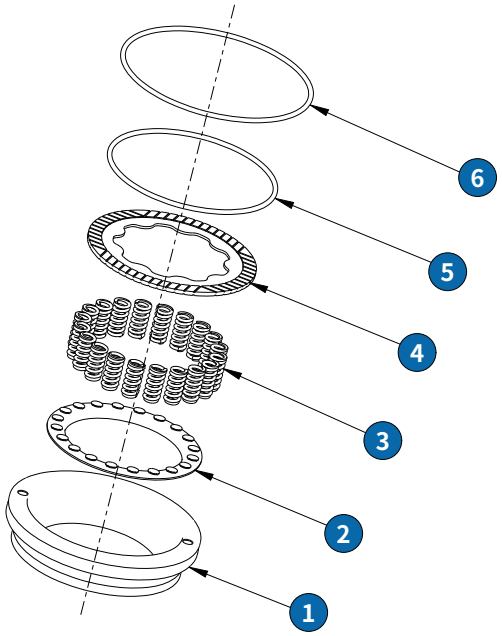
· Order code: Swashplate parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Swashplate	HM5X23-000001	210000383312	1	HM5X23-000001
2	Cylindrical pin	ϕ8*17	210000299865	1	HM5X18-000002

3.3.4 HM5F23 Piston Parts

· Order code: Piston parts are not subject to selection code.

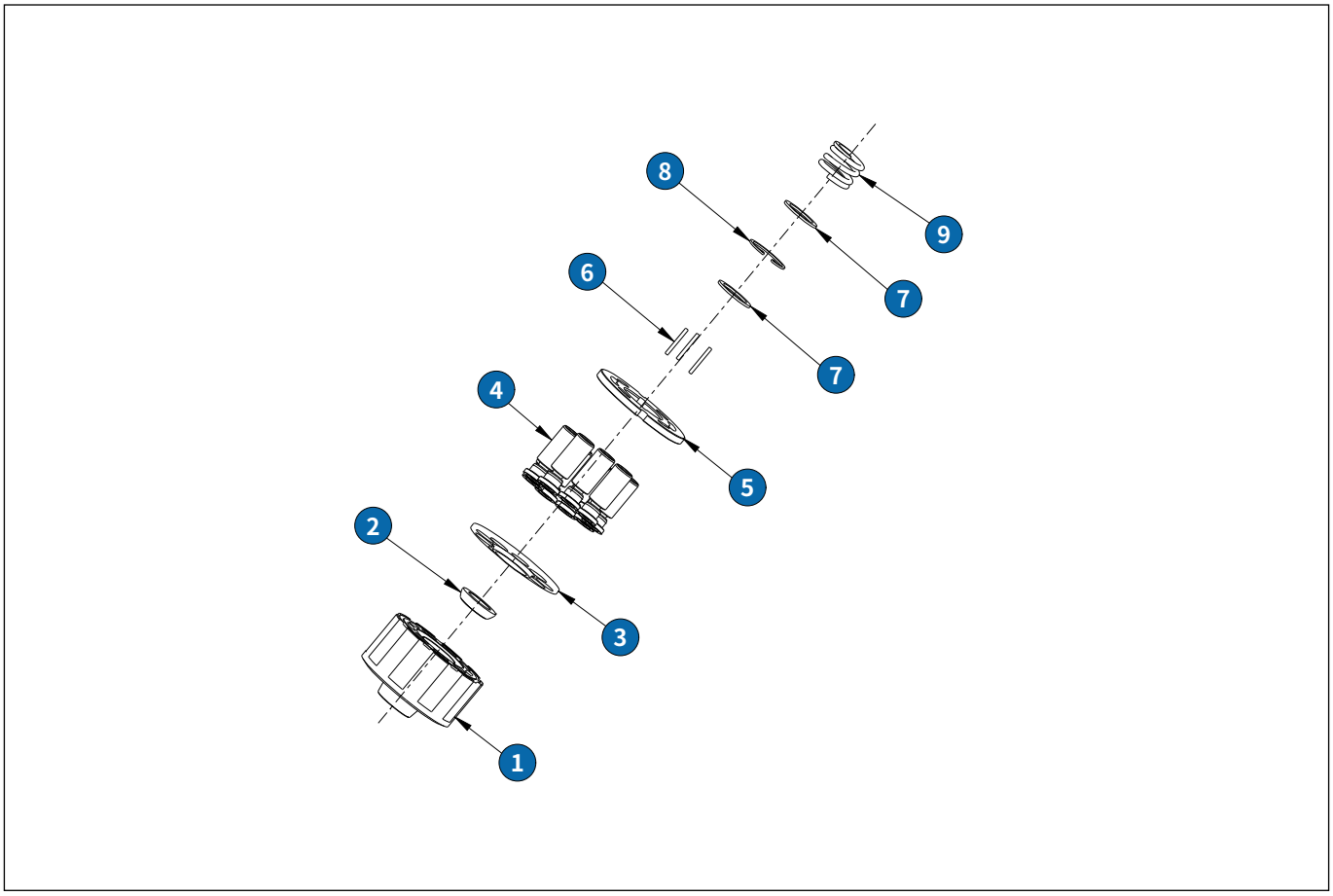


Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Brake piston	HM5X18-000004	210000302097	1	HM5X18-000004
2	Spring pallets[1]	HM5X18-070002	210000302953	1	HM5X18-070002
3	Spring[1]	HM5X18-070001	210000292439	1	HM5X18-070001
4	Friction plate	HM5X18-000003	210000301972	1	HM5X18-000003
5	O-ring	ϕ109.4*3.1	110000103825	1	ORG110-F5
6	O-ring	ϕ124.4*3.1	110000001236	1	OR3112440

Note: "1" indicates that the piston spring assembly is formed.

3.3.5 HM5F23 Rotation Parts

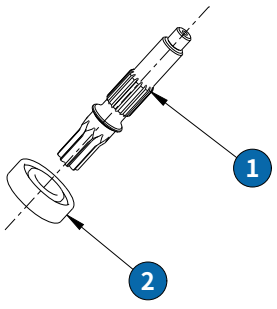
· Order code: Rotation parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM5X18-030001	210000302746	1	HM5X18-030001
2	Ball hinge	HM5X18-030003	210000303086	1	HM5X18-030003
3	Return disc	HM5X18-030004	210000297696	1	HM5X18-030004
4	Piston assembly	HM5X18-031000	210000300308	9	HM5X18-031000
5	Valve plate	HM5X18-030002	210000356511	1	HM5X18-030002
6	Cylindrical pin	ϕ2.35*22	210000299864	3	HM5X18-030007
7	Gasket	ϕ27.5*ϕ20.3*1.5	210000302006	2	HM5X18-030006
8	C-rings for holes	CE-IN 28	210000294475	1	JIS B 2804
9	Spring	23.7/3.5*26.7/3	210000292855	1	HM5X18-030005

3.3.6 HM5F23 Shaft Parts

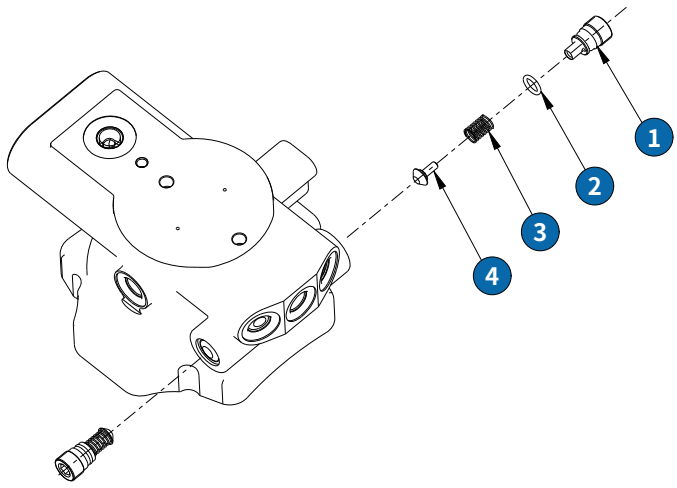
· Order code: Shaft parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Shaft	HM5X23-0110DSF-G9-02	210000969403	1	HM5X23-0110DSF-G9-02
2	Deep groove ball bearing	ϕ20*ϕ47*14	210000363700	1	6204ZE-Z

3.3.7 HM5F23 Check Valve Parts

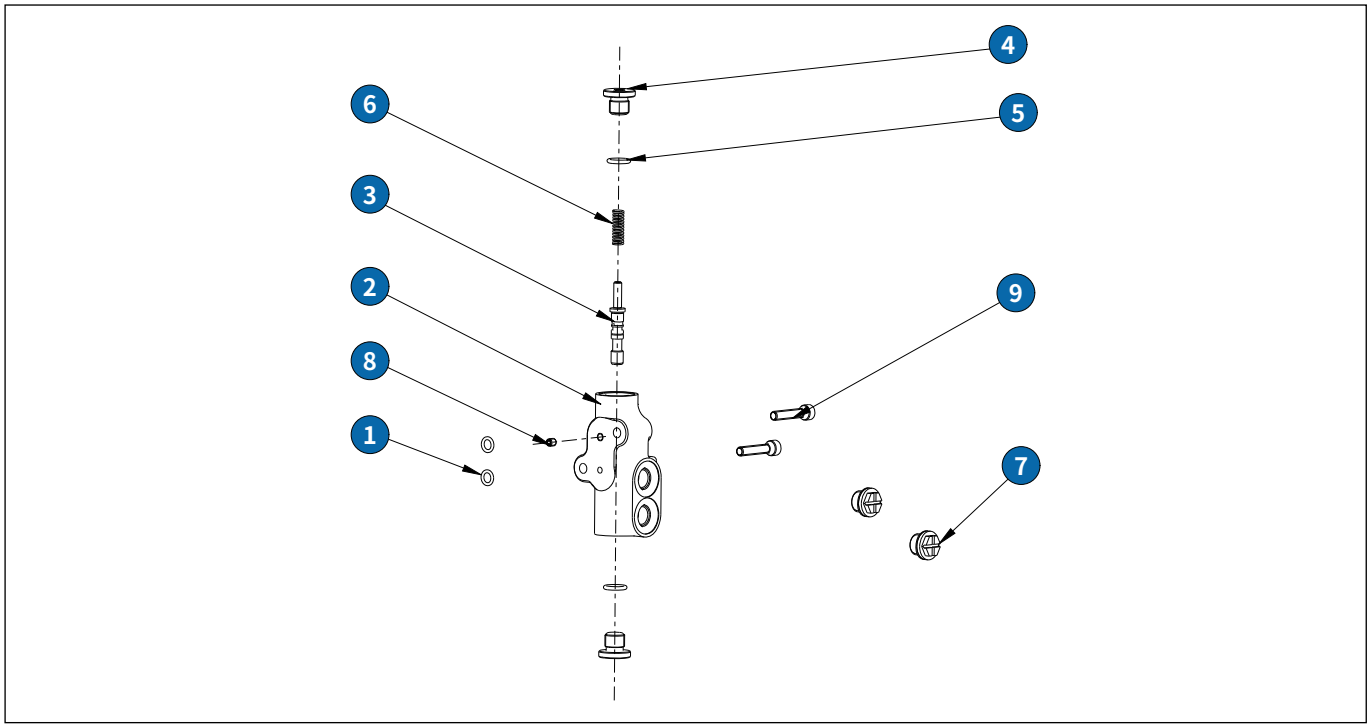
· Order code: Check valve parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Screw	HM5X18-050001	210000299225	1	HM5X18-050001
2	Cone valve spool	HM5X18-050003	210000303321	1	HM5X18-050003
3	O-ring	ϕ10.8*2.4	110000067694	1	ORP11-N7
4	Spring	HM5X18-050002	210000292361	1	HM5X18-050002

3.3.8 HM5F18 Delay Valve Parts

·Order code 1: With delay valve./ ·Order code 0: Without delay valve, please skip it.

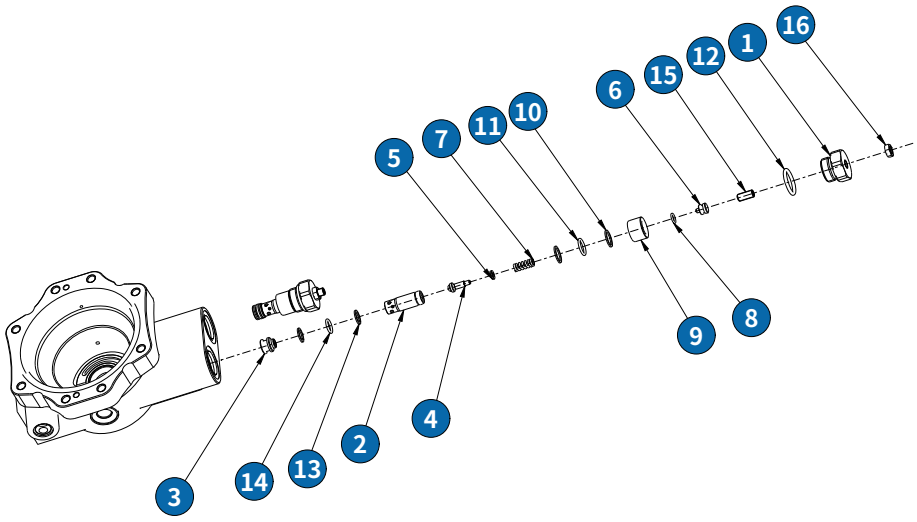


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve body	HM5F34-060001	210000763521	1	HM5F34-060001
2	Spool	HM5X45-06N1SPL-01	210001026195	1	HM5X45-06N1SPL-01
3	Plug	HM5X45-060004	210000293056	2	HM5X45-060004
4	O-ring	ϕ10.8*2.4	110000067694	2	ORP11-N7
5	Spring	6.5/1*25.7/13.5	210000292700	1	HM5X45-060003
6	External plug (cross-head washer)	G1/4	110000022842	2	G1/4
7	Throttle plug	M5(0.5)	210000424262	1	S0505
8	Hexagon socket screws	M6*30	210000206181	2	GB/T 70.1
9	O-ring	ϕ6.8*1.9	110000110024	2	ORP7-N7

3.3.9 HM5F18 Relief Valve Parts

· Order code 216: Relief valve setpoint peak pessure



Order code: 216

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Plug	G3/4	210000293876	1	HM5X027A-010001
2	Valve sleeve	HM5X027-040004	210000297818	1	HM5X027-040004
3	Valve seat	HM5X027-040001	210000303278	1	HM5X027-040001
4	Cone valve spool	HM5X027-040002	210000303319	1	210000303319
5	Spring gasket	HM5X027-040005	210000303515	1	HM5X027-040005
6	Piston	HM5X027A-010002	210000302062	1	HM5X027A-010002
7	Spring	HM5X027-040003	210000294194	1	HM5X027-040003
8	O-ring	ϕ13.8*2.4	110000022876	1	P-8
9	Valve sleeve	HM5X027-040007	210000297934	1	HM5X027-040007
10	O-ring retaining ring	19*15*1.25	210000343448	2	P15-T3
11	O-ring	ϕ14.8*2.4	110000022872	1	P-15
12	O-ring	ϕ23.7*3.5	110000108198	1	ORP24-F5
13	O-ring retaining ring	ϕ16*ϕ12*1.25	210000294337	1	P-12
14	O-ring	ϕ11.8*2.4	110000051053	1	P-12
15	Adjusting screw	HM5X027A-010003	210000303288	1	HM5X027A-010003
16	Nut	M8*1.25*5	210000354983	1	M8*1.25*5

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3 HM5F Product Parts

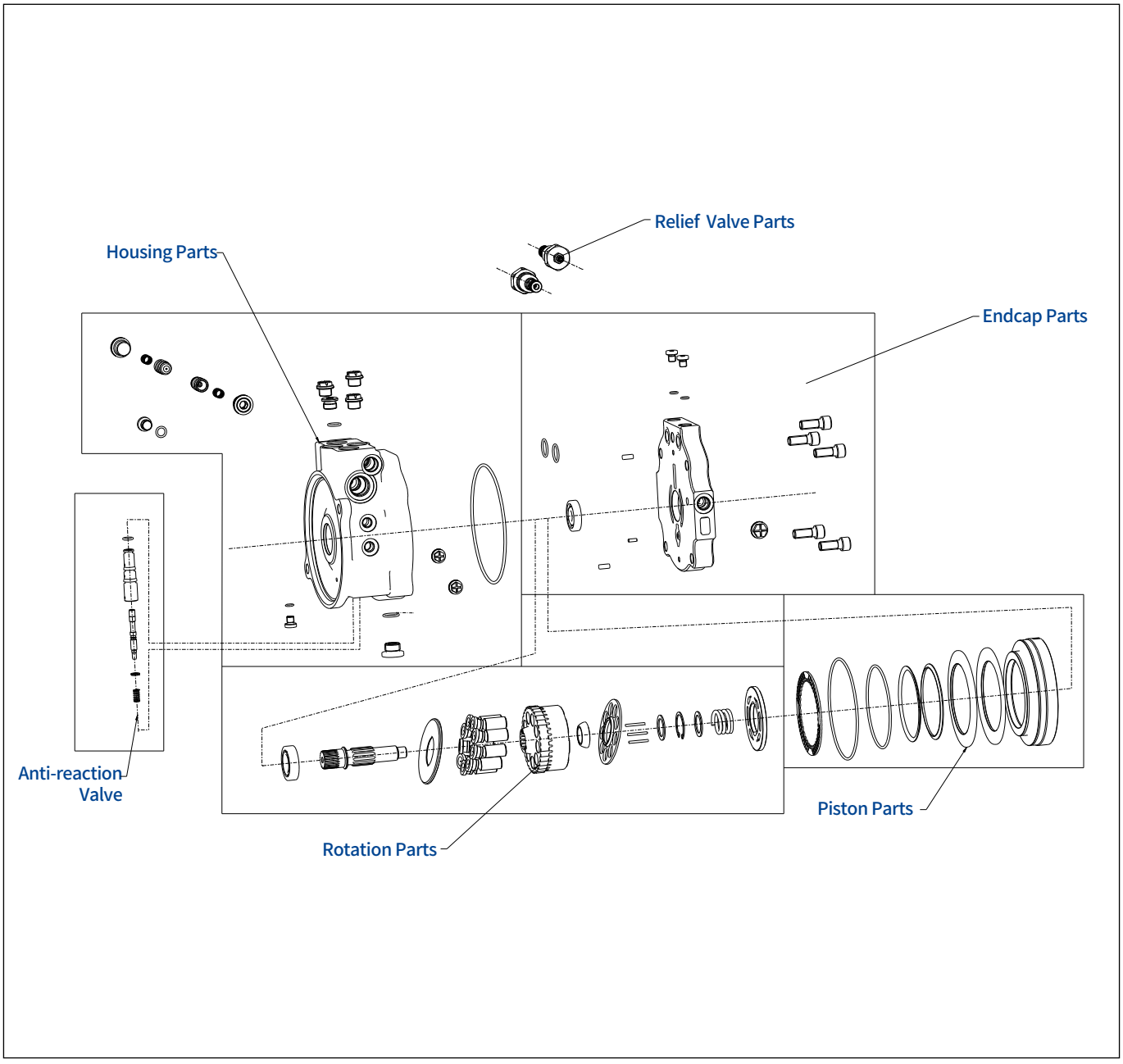
3.4 HM5F29

HM5F-29

3.4 HM5F29

·Take endcap parts with drain port on side as an example.

HM5F29 Integral Parts



3.4 HM5F29

HM5F29 Parts Catalogue

3.4.1 Housing Parts
With delay valve selection code 1 46
Without delay valve selection code 0 47

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Drain port on top 49

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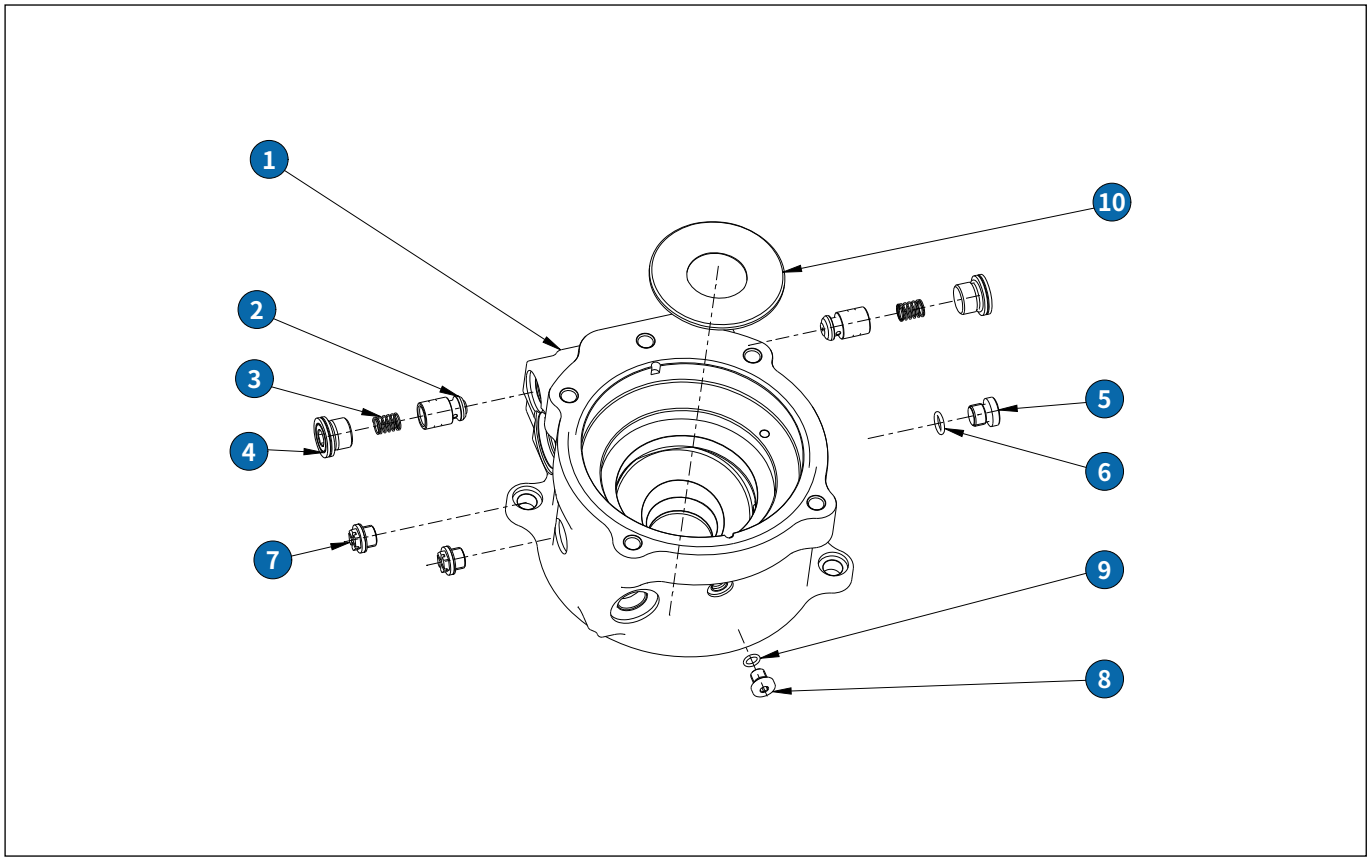
3.4.5 Piston Parts
Piston parts 52

3.4.6 Delay Valve Parts
Delay valve selection code 1 53

3.4.7 Relief Valve Parts
Relief valve peak pressure selection code 230 54

3.4.1 HM5F29 Housing Parts

· Involving delay valve order code 1 : With delay valve, pilot port.

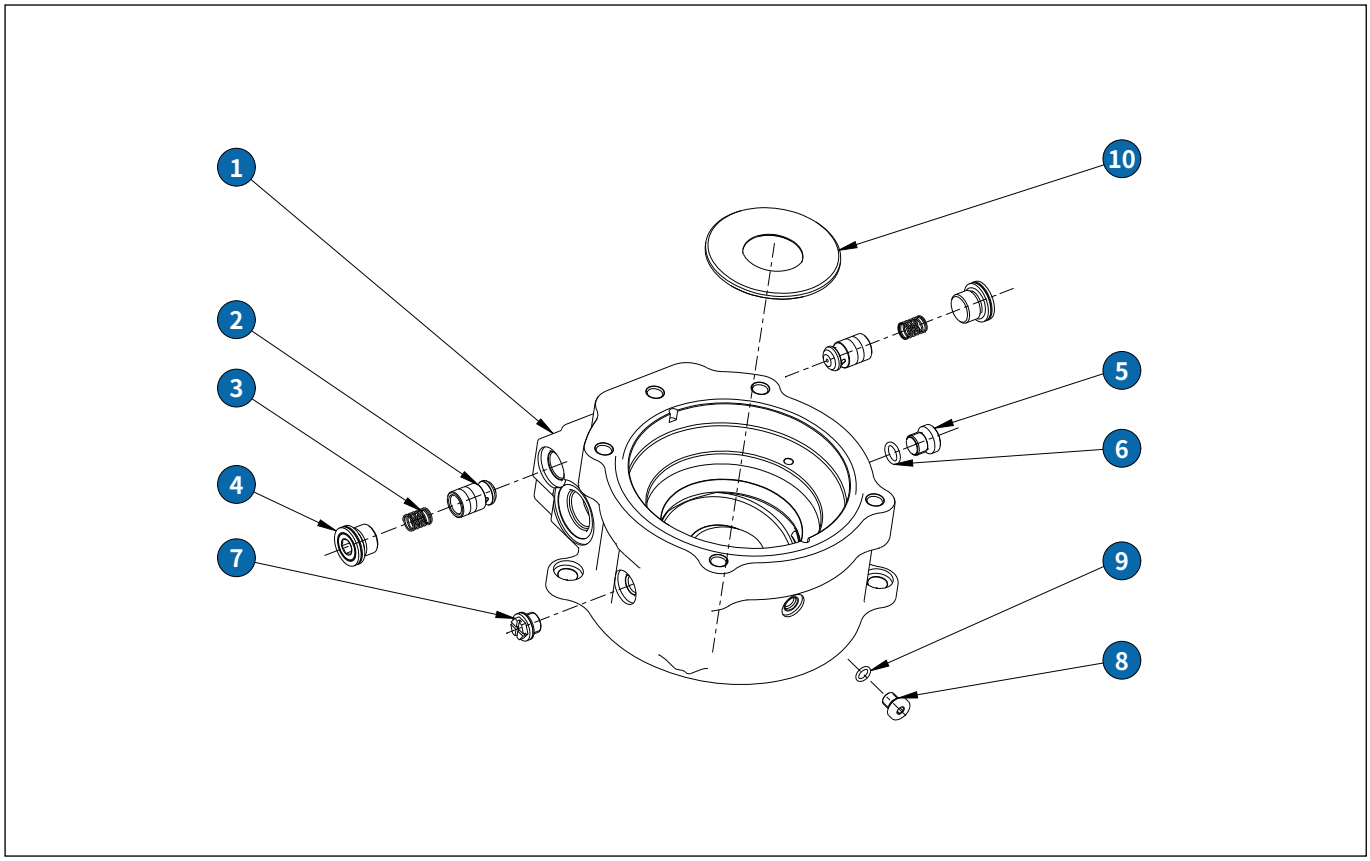


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F29-0410HSN	210001105592	1	HM5F29-0410HSN
2	Spool	HM5X27-0691SPL-01	210000945330	2	HM5X27-0691SPL-01
3	Spring	10.8/0.8*27/9	210000943352	2	HM5X27-0691CSP-01
4	Hexagon socket plug(with O-ring))	M20*1.5(with O-ring)	210000422698	2	M20*1.5(with O-ring)
5	Hexagon socket plug	G1/4	210000293555	1	G1/4
6	O-ring	ϕ10.8*2.4	110000067694	1	ϕ10.8*2.4
7	External plug (cross-head washer)	G1/4	110000022842	2	G1/4
8	Plug	HLPV28-050006	210000293833	1	HLPV28-050006
9	O-ring	ϕ7.8*1.9	110000001194	1	ϕ7.8*1.9
10	Friction disc	HM5X027-000001	210000627259	1	HM5X027-000001

3.4.1 HM5F29 Housing Parts

· Involving delay valve order code 0 : Without delay valve, pilot port.

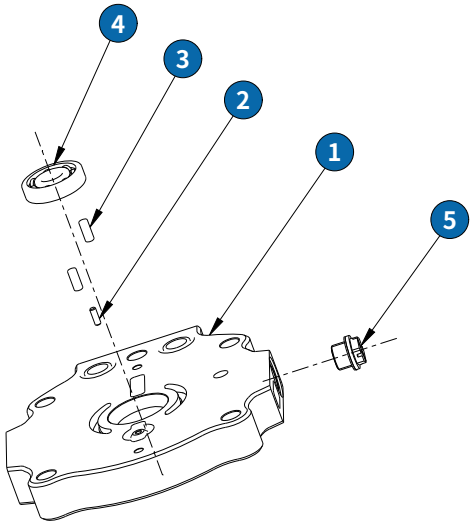


Order code: 0

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F29-0410HSN-01	210001194702	1	HM5F29-0410HSN-01
2	Spool	HM5X27-0691SPL-01	210000945330	2	HM5X27-0691SPL-01
3	Spring	10.8/0.8*27/9	210000943352	2	HM5X27-0691CSP-01
4	Hexagon socket plug(with O-ring))	M20*1.5(with O-ring)	210000422698	2	M20*1.5(with O-ring)
5	Hexagon socket plug	G1/4	210000293555	1	G1/4
6	O-ring	ϕ10.8*2.4	110000067694	1	ϕ10.8*2.4
7	External plug (cross-head washer)	G1/4	110000022842	2	G1/4
8	Plug	HLPV28-050006	210000293833	1	HLPV28-050006
9	O-ring	ϕ7.8*1.9	110000001194	1	ϕ7.8*1.9
10	Friction disc	HM5X027-000001	210000627259	1	HM5X027-000001

3.4.2 HM5F29 Endcap Parts

· Order code: Endcap parts are not subject to selection code.

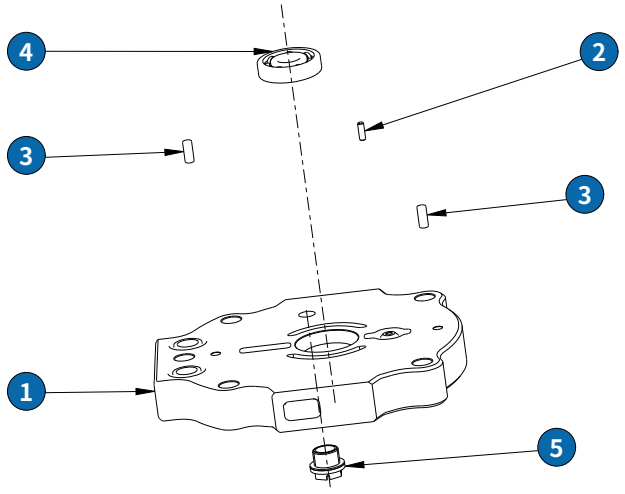


Drain port on side

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Endcap	HM5F29-0510RFG	210001106860	1	HM5F29-0510RFG
2	Cylindrical pin	ϕ4*12	210000200965	1	HM5X27027-020002
3	Cylindrical pin	ϕ6*14.5	210000300966	2	HM5X27027-020003
4	Deep groove ball bearing	ϕ15*ϕ42*13	210000294623	1	6302
5	Outer plug	G3/8	110000022844	1	G3/8

3.4.2 HM5F29 Endcap Parts

· Order code: Endcap parts are not subject to selection code.

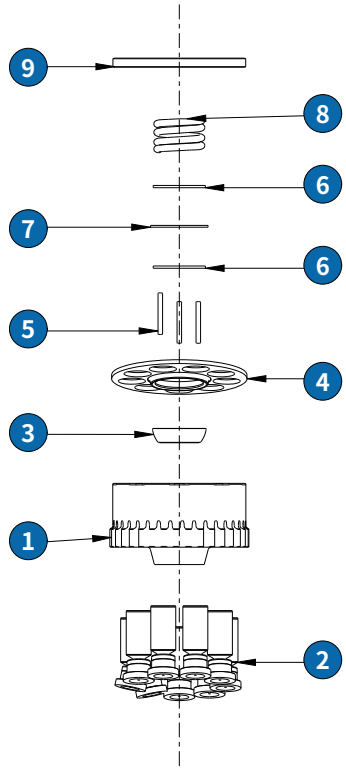


Drain port on top

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Endcap	HM5F29-0510RFG-01	210001156855	1	HM5F29-0510RFG-01
2	Cylindrical pin	ϕ4*12	210000200965	1	HM5X27027-020002
3	Cylindrical pin	ϕ6*14.5	210000300966	2	HM5X27027-020003
4	Deep groove ball bearing	ϕ15*ϕ42*13	210000294623	1	6302
5	Outer plug	G3/8	110000022844	1	G3/8

3.4.3 HM5F29 Rotation Parts

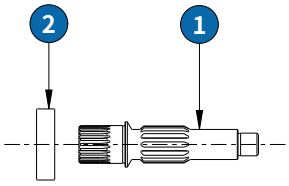
· Order code: Rotation parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM5F29-0211CYD	210001105594	1	HM5F29-0211CYD
2	Piston assembly	HM5X34-031000	210000300311	9	HM5X34-031000
3	Ball hinge	HM5X34-030003	210000302607	1	HM5X34-030003
4	Return disc	HM5X34-030004	210000303005	1	HM5X34-030004
5	Cylindrical pin	HM5X34-030007	210000299687	3	HM5X34-030007
6	Gasket	HM5X34-030006	210000303174	2	HM5X34-030006
7	C-rings for holes	CE-IN35	210000294435	1	CE-IN35
8	Spring	HM5X34-030005	210000292857	1	HM5X34-030005
9	Valve plate	HM5F29-0212CTP	210001105967	1	HM5F29-0212CTP

3.4.4 HM5F29 Shaft Parts

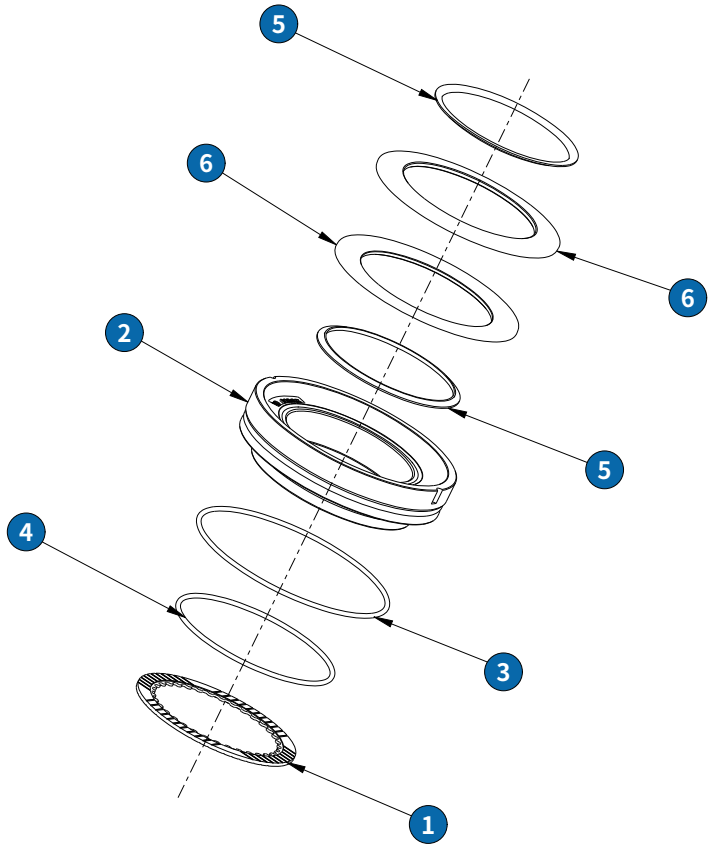
·Order code: Shaft parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Shaft	HM5F29-0110DSF-G23	210001105595	1	HM5F29-0110DSF-G23
2	Cylindrical roller bearings	ϕ25*ϕ47*12	210001155336	1	ϕ25*ϕ47*12

3.4.5 HM5F29 Piston Parts

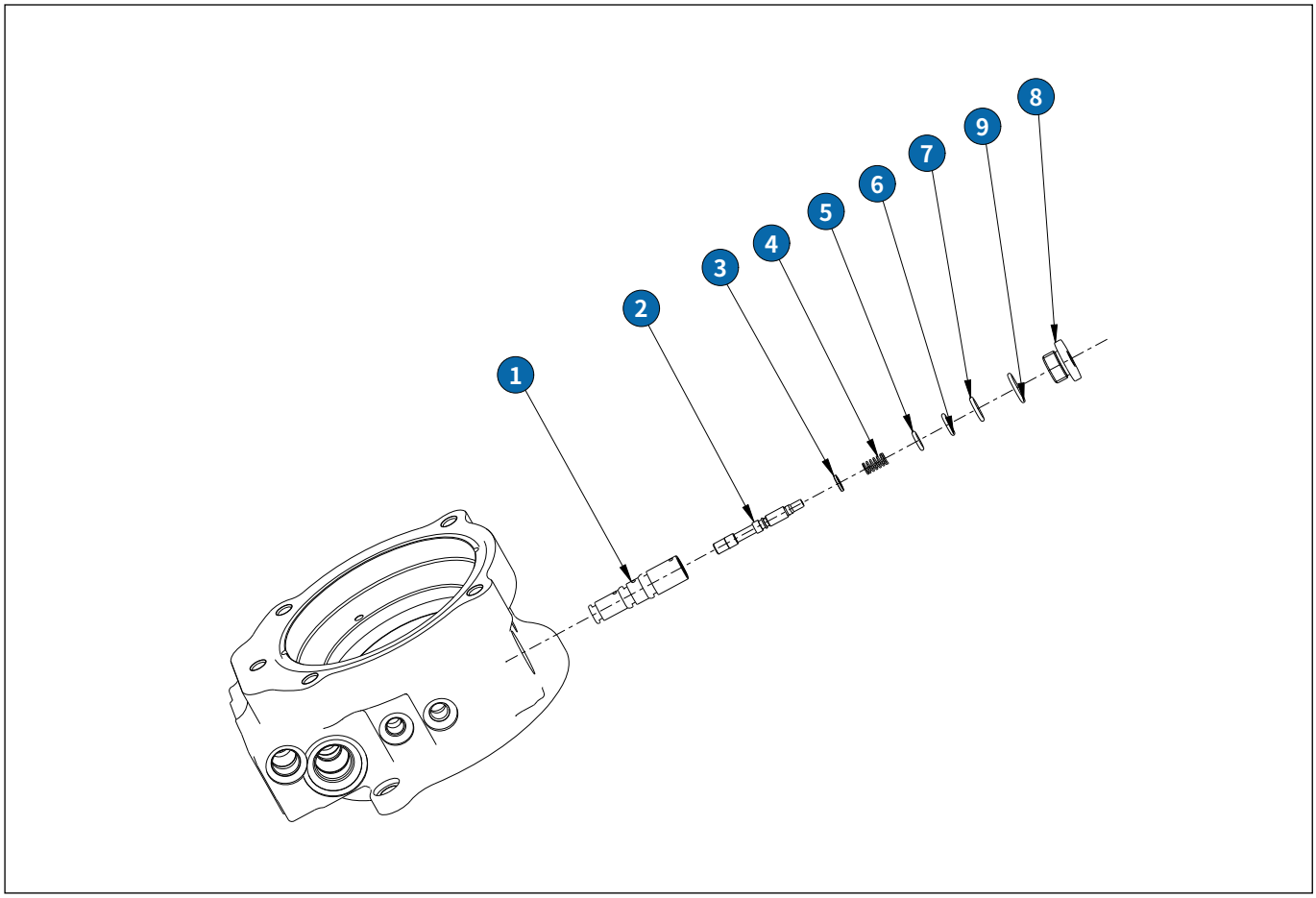
· Order code: Piston parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Friction plate	HM5X027-000005	210000301970	1	HM5X027-000005
2	Piston	HM5F29-0320RPS	210001114438	1	HM5F29-0320RPS
3	O-ring	ϕ134.4*3.1	110000118071	1	ORG135-N7
4	O-ring	ϕ109.4*3.1	110000081124	1	ORG110-N7
5	Disc spring seat	HM5X027-000004	210000298027	2	HM5X027-000004
6	Butterfly spring	HM5X027-000003	210000293647	2	HM5X027-000003

3.4.6 HM5F29 Delay Valve Parts

·Order code 1: With delay valve./ ·Order code 0: Without delay valve, please skip it.

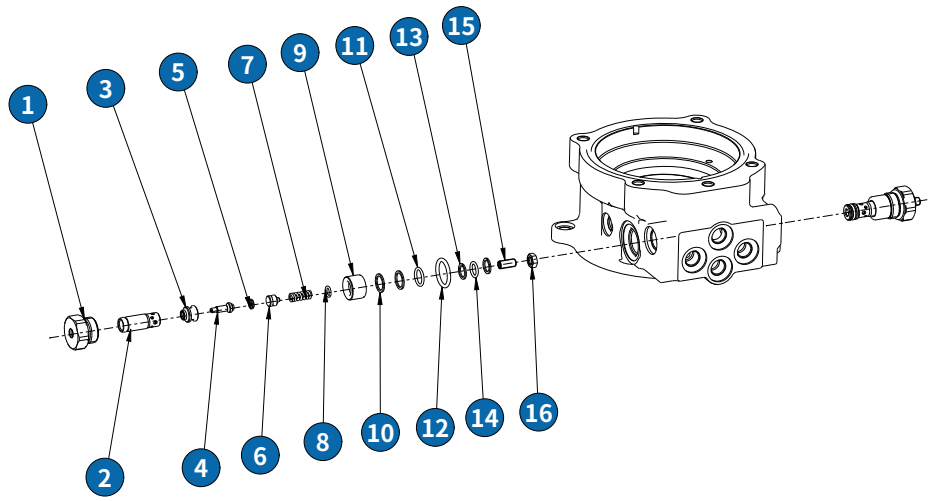


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve sleeve	HM5X027-010001	210000303219	1	HM5X027-010001
2	Spool	HM5X027B-010002	210000297840	1	HM5X027B-010002
3	Gasket	HM5X027B-010003	210000303163	1	HM5X027B-010003
4	Spring	HM5X027B-010004	210000292705	1	HM5X027B-010004
5	O-ring	ϕ9.8*2.4	210000294276	1	P-10A
6	O-ring	ϕ11.8*2.4	110000109131	1	ORP12-N7
7	O-ring	ϕ13.8*2.4	110000082543	1	ORP14-N7
8	Plug	G1/2	210000295785	1	HM5X027B-000001
9	O-ring	ϕ17.8*2.4	110000063955	1	ORP18-N7

3.4.7 HM5F29 Relief Valve Parts

· Order code 230: Relief valve setpoint peak pessure



Order code: 230

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Plug	HM5X027A-010001	210000293876	1	HM5X027A-010001
2	Valve sleeve	HM5X027-040004	210000297818	1	HM5X027-040004
3	Valve seat	HM5X027-040001	210000303278	1	HM5X027-040001
4	Cone valve spool	HM5X027-040002	210000303319	1	210000303319
5	Spring gasket	HM5X027-040005	210000303515	1	HM5X027-040005
6	Piston	HM5X027A-010002	210000302062	1	HM5X027A-010002
7	Spring	HM5X027-040003	210000294194	1	HM5X027-040003
8	O-ring	ϕ13.8*2.4	110000022876	1	P-8
9	Valve sleeve	HM5X027-040007	210000297934	1	HM5X027-040007
10	O-ring retaining ring	19*15*1.25	210000343448	2	P15-T3
11	O-ring	ϕ14.8*2.4	110000022872	1	P-15
12	O-ring	ϕ23.7*3.5	110000108198	1	ORP24-F5
13	O-ring retaining ring	ϕ16*ϕ12*1.25	210000294337	1	P-12
14	O-ring	ϕ11.8*2.4	110000051053	1	P-12
15	Adjusting screw	HM5X027A-010003	210000303288	1	HM5X027A-010003
16	Nut	M8*1.25*5	210000354983	1	M8*1.25*5

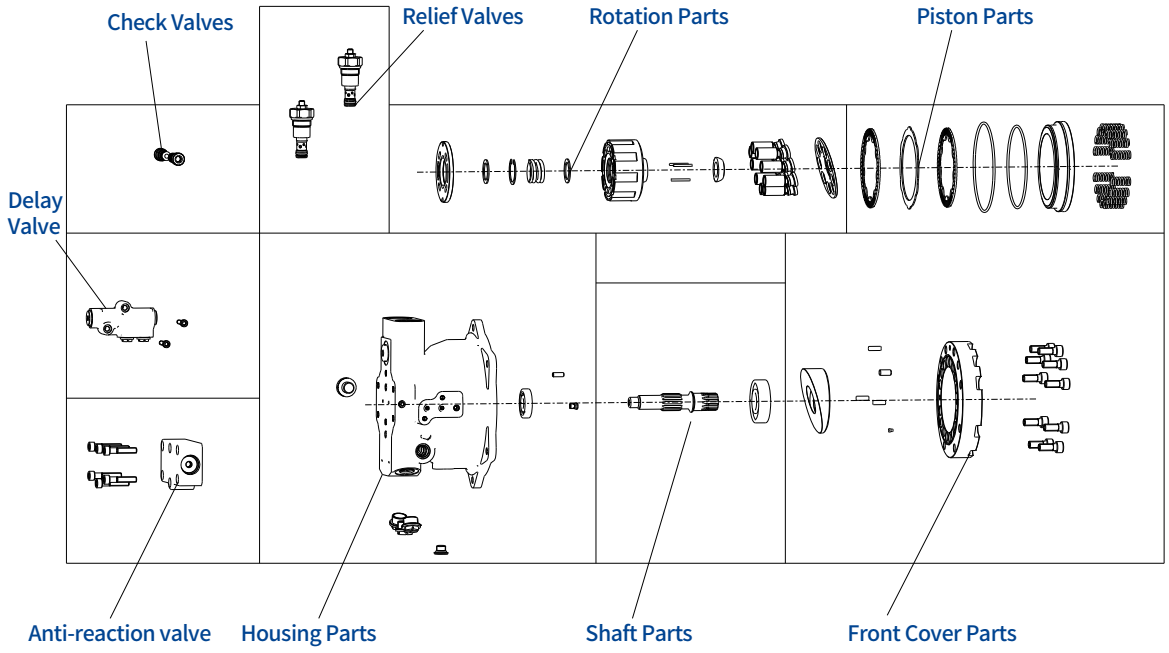
3 HM5F Product Parts

3.5 HM5F34

HM5F-34

3.5 HM5F34

HM5F34 Integral Parts



3.5 HM5F34

HM5F34 Parts Catalogue

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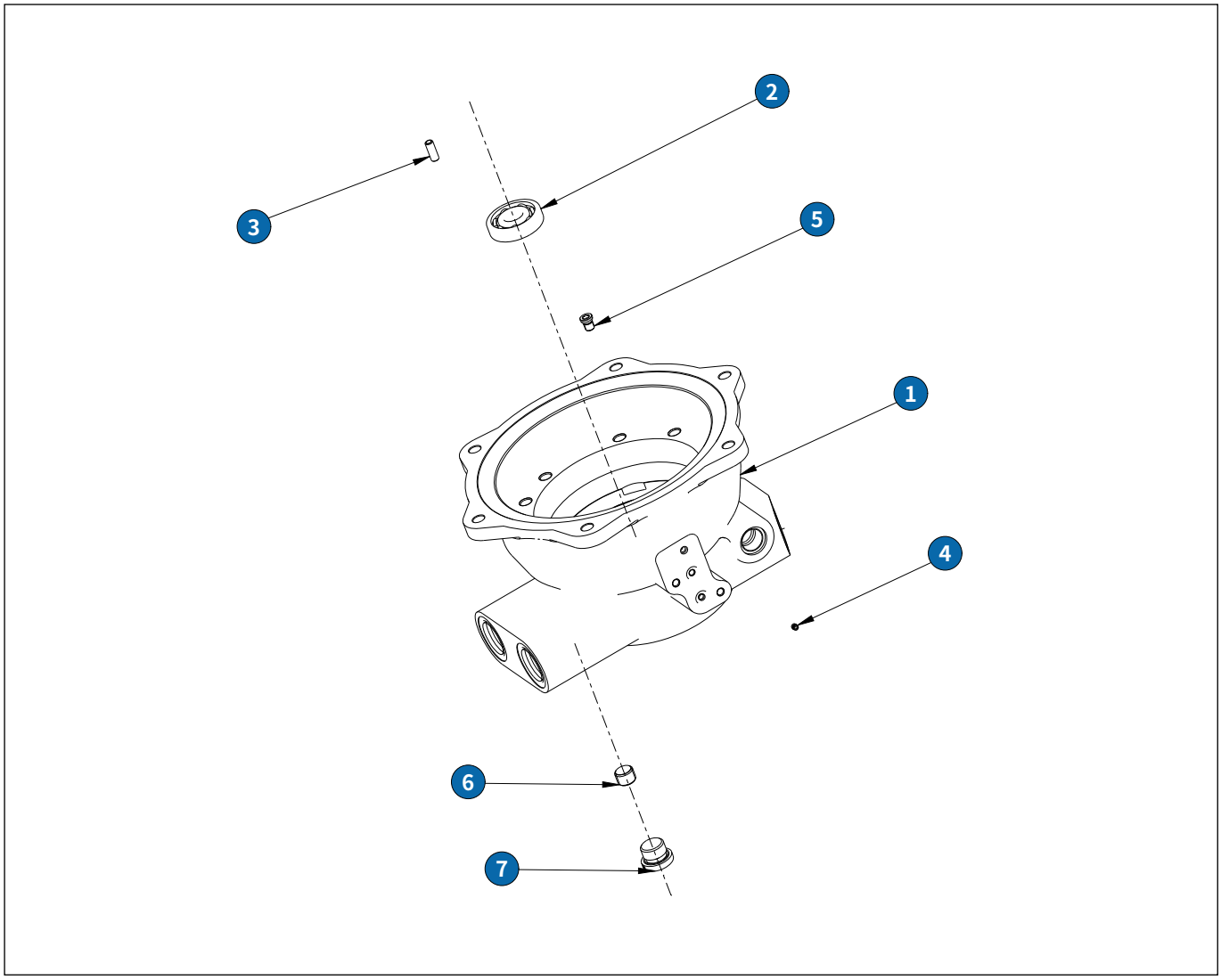
Relief valve peak pressure selection code 230 ····· 70

3.5.1 HM5F34 Housing Parts

· Involving delay valve order code 1 : With delay valve. Without anti-reaction valve.

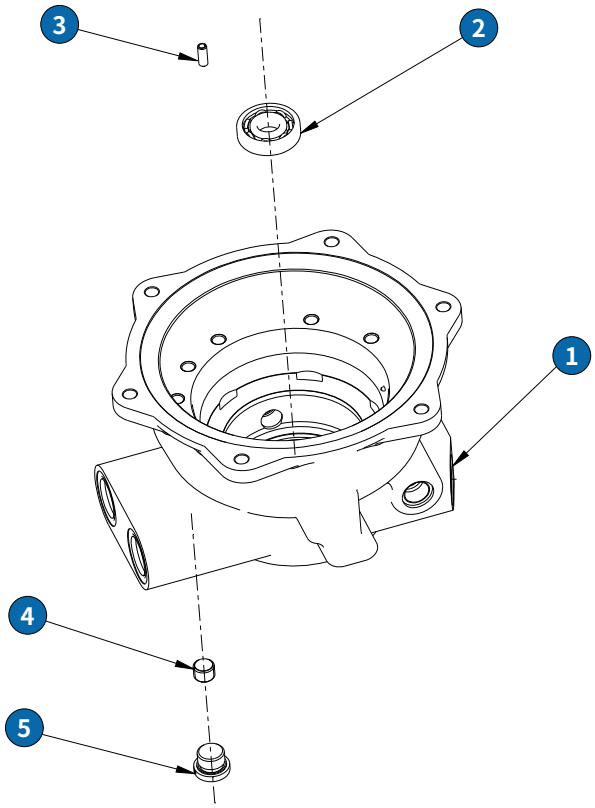


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F23-0410HSN	210000779462	1	HM5F23-0410HSN
2	Deep groove ball bearing	ϕ15*ϕ42*13	210000294623	1	6302
3	Flexible cylindrical pins	6*16-GS-W	210000294649	1	JIS B 2808
4	Ball expansion plugs	MB850-040	210000343019	1	300135419
5	Plug	M7*0.75	210000292750	1	V30G205-000008
6	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906

3.5.1 HM5F34 Housing Parts

· Involving delay valve order code 0: Without delay valve. Without anti-reaction valve.



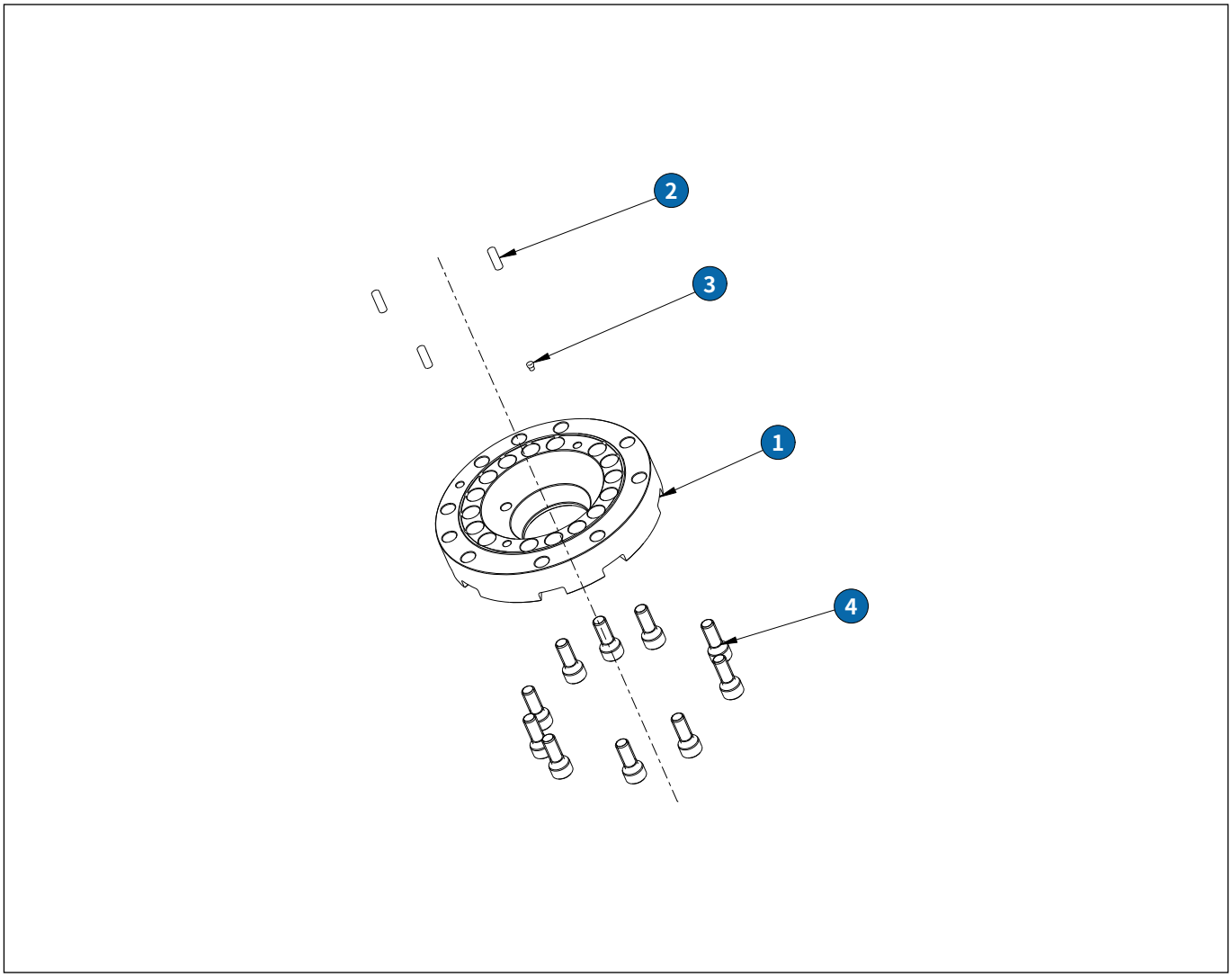
Order code: 0

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing[1]	HM5F23-0410HSN-01	210001087078	1	HM5F23-0410HSN-01
	Housing	HM5F23-0410HSN-02	210001135016	1	HM5F23-0410HSN-02
2	Deep groove ball bearing	ϕ15*ϕ42*13	210000294623	1	6302
3	Flexible cylindrical pins	6*16-GS-W	210000294649	1	JIS B 2808
4	Hexagon socket plug	M14*1.5	210000377516	1	DIN 906
5	Hexagon socket plug	M18*1.5	210000293557	1	ISO 9974-4

Note: "1" indicates no braking configuration.

3.5.2 HM5F34 Front Cover Parts

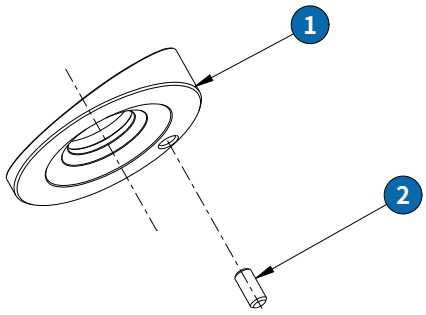
· Order code: Front cover parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Front cover	HM5X34-050001	210000298184	1	HM5X34-050001
2	Cylindrical pin	HM5X18-060002	210000300986	3	HM5X18-060002
3	Strainer	HM5X18-060003	210000296230	1	HM5X18-060003
4	Hexagon socket screws	M10*25	210000205819	10	GB/T 70.1

3.5.3 HM5F34 Swashplate Parts

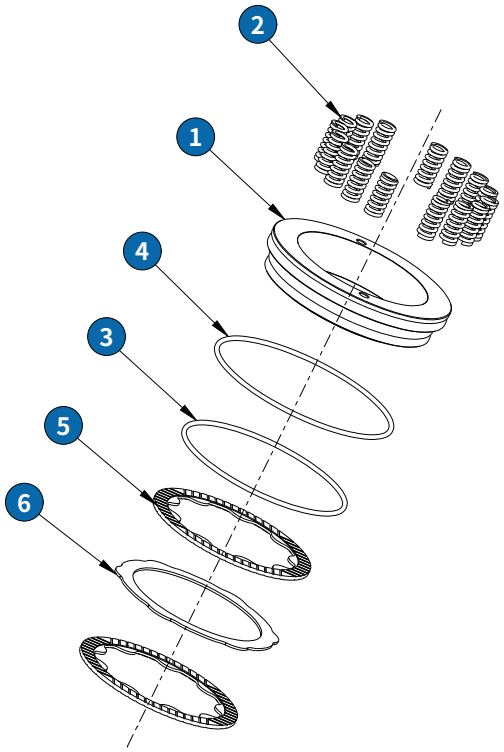
· Order code: Swashplate parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Swashplate	HM5X34-000001	210000556606	1	HM5X34-000001
2	Cylindrical pin	HM5X18-000002	210000299865	1	HM5X18-000002

3.5.4 HM5F34 Piston Parts

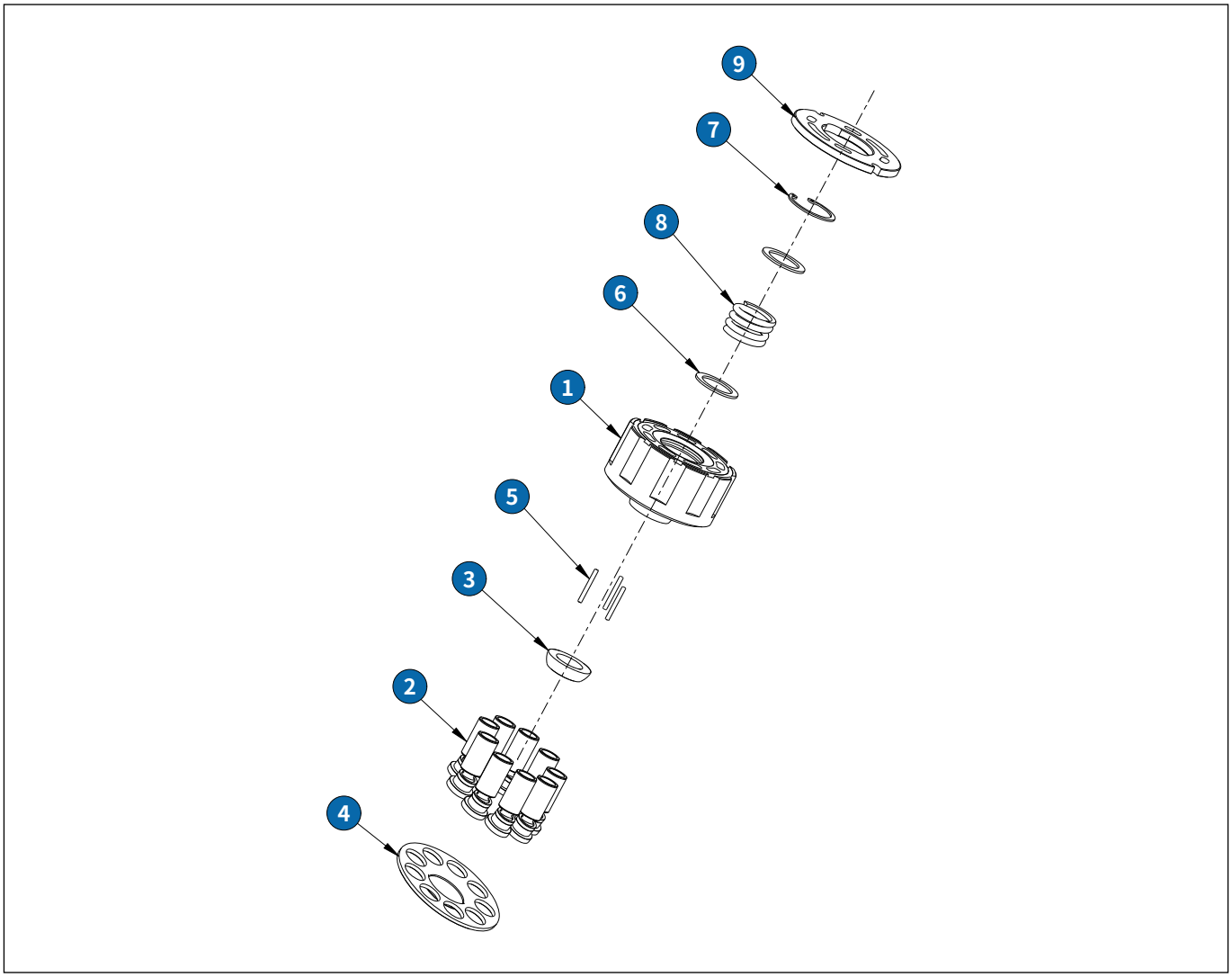
· Order code: Piston parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Brake piston	HM5X34-000004	210000299682	1	HM5X34-000004
2	Spring	10.2/2.3*33.7/8	210000293662	16	HM5X34-000005
3	O-ring	ϕ114.4*3.1	110000058457	1	ORG115-F5
4	O-ring	ϕ124.4*3.1	110000001236	1	OR3112440
5	Friction disc	HM5X34-0000003	210000301972	2	HM5X34-0000003
6	Separation disc	HM5X34-000002	210000299010	1	HM5X34-000002

3.5.5 HM5F34 Rotation Parts

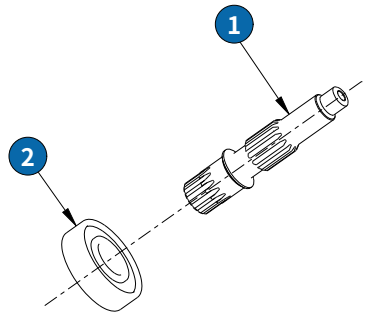
· Order code: Rotation parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM5F29-0211CYD	210001105594	1	HM5F29-0211CYD
2	Piston assembly	HM5X34-031000	210000300311	9	HM5X34-031000
3	Ball hinge	HM5X34-030003	210000302607	1	HM5X34-030003
4	Return disc	HM5X34-030004	210000303005	1	HM5X34-030004
5	Cylindrical pin	HM5X34-030007	210000299687	3	HM5X34-030007
6	Gasket	HM5X34-030006	210000303174	2	HM5X34-030006
7	C-rings for holes	CE-IN35	210000294435	1	CE-IN35
8	Spring	HM5X34-030005	210000292857	1	HM5X34-030005
9	Valve plate	HM5F29-0212CTP	210001105967	1	HM5F29-0212CTP

3.5.6 HM5F34 Shaft Parts

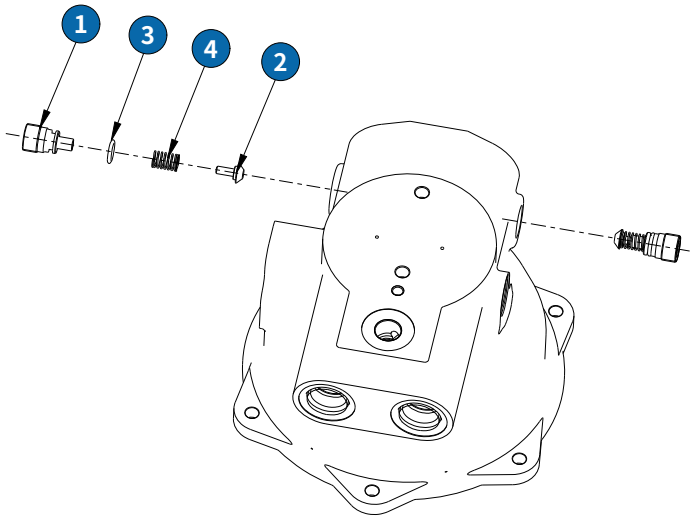
· Order code: Shaft parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Shaft	HM5X34-020001	210000298343	1	HM5X34-020001
2	Deep groove ball bearing	ϕ25*ϕ62*17	210000294215	1	6305ZE

3.5.7 HM5F34 Check Valve Parts

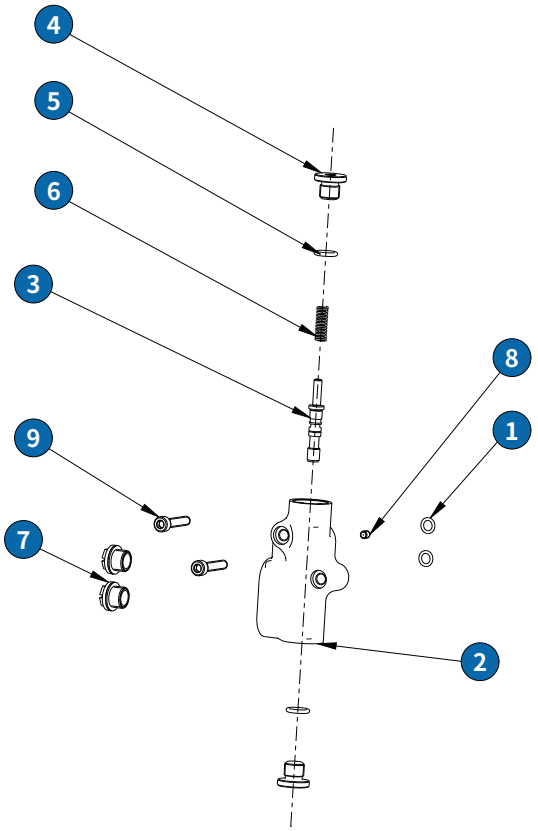
· Order code: Check valve parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Screw	HM5X18-050001	210000299225	1	HM5X18-050001
2	Cone valve spool	HM5X18-050003	210000303321	1	HM5X18-050003
3	O-ring	ϕ10.8*2.4	110000067694	1	ORP11-N7
4	Spring	HM5X18-050002	210000292361	1	HM5X18-050002

3.5.8 HM5F34 Delay Valve Parts

· Order code 1: With delay valve./ · Order code 0: Without delay valve, please skip it.



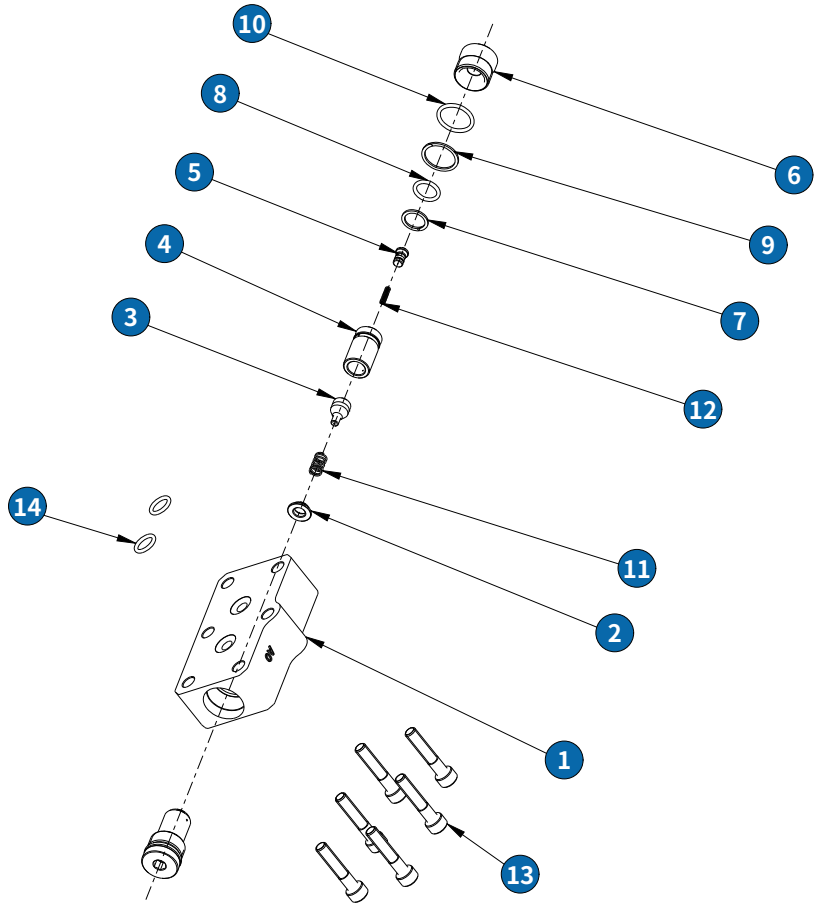
3.5.8 HM5F34 Delay Valve Parts

Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve body	HM5F34-060001	210000763521	1	HM5F34-060001
2	Spool	HM5X45-06N1SPL-01	210001026195	1	HM5X45-06N1SPL-01
3	Plug	G1/4	210000293056	2	HM5X45-060004
4	O-ring	10.8*2.4	110000067694	2	ORP11-N7
5	Spring	6.5/1*25.7/13.5	210000292700	1	HM5X45-060003
6	External plugs	G1/4	110000022842	2	G1/4
7	Throttle plug	M5	210000424262	1	S0505

3.5.9 HM5F34 Anti-reaction Valve Parts

· Order code 1: With anti-reaction valve./ · Order code 0: Without anti-reaction valve, please skip it.



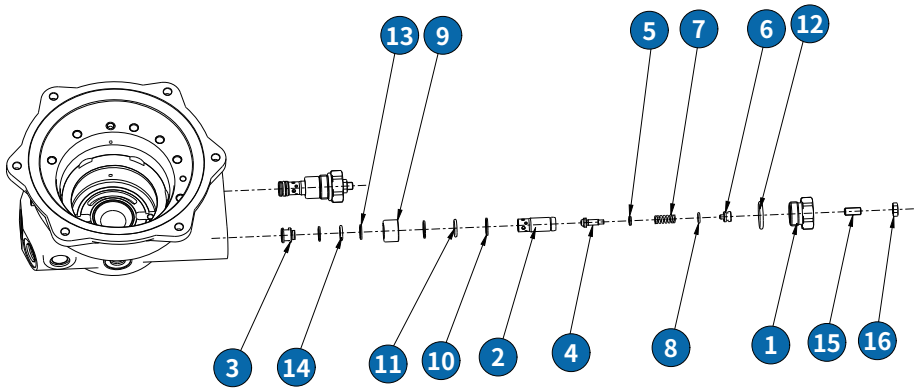
3.5.9 HM5F34 Anti-reaction Valve Parts

Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve body	HM5F34-06P1VST-01	210001139292	1	HM5F34-06P1VST-01
2	Valve sleeve	HM5F34-06P1TUB-01	210001160969	2	HM5F34-06P1TUB-01
3	Spool	HM5F34-06P1SOL-01	210001160903	2	HM5F34-06P1SOL-01
4	Valve sleeve	HM5F34-06P1TUB-02	210001160971	2	HM5F34-06P1TUB-02
5	Spool	HM5F34-06P1SOL-02	210001160973	2	HM5F34-06P1SOL-02
6	Plug	M24*1.5	210001162565	2	HM5F34-06P0001-01
7	O-ring retainer	ϕ18*ϕ14*1.25	210000294252	2	P14-T2
8	O-ring	ϕ13.8*2.4	110000082543	2	ORP14-N7
9	O-ring retainer	ϕ25*ϕ21*1.25	210000294694	2	P-21
10	O-ring	ϕ20.8*2.4	110000051049	2	P-21
11	Spring	7.6/0.8*14.6/5	210001160902	2	HM5F34-06P1CSP-01
12	Spring	3/0.5*14.4/14	210001160904	2	HM5F34-06P1CSP-02
13	Hexagon socket head cap screws	M8*40	210000206203	4	GB/T 70.1

3.5.10 HM5F34 Relief Valve Parts

· Order code 230: Relief valve setpoint peak pessure



Order code: 230

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Plug	G3/4	210000293876	1	HM5X027A-010001
2	Valve sleeve	HM5X027-040004	210000297818	1	HM5X027-040004
3	Valve seat	HM5X027-040001	210000303278	1	HM5X027-040001
4	Cone valve spool	HM5X027-040002	210000303319	1	210000303319
5	Spring gasket	HM5X027-040005	210000303515	1	HM5X027-040005
6	Piston	HM5X027A-010002	210000302062	1	HM5X027A-010002
7	Spring	6.8/2*22/6	210000294194	1	HM5X027-040003
8	O-ring	ϕ7.8*1.9	110000022876	1	P-8
9	Valve sleeve	HM5X027-040007	210000297934	1	HM5X027-040007
10	O-ring retaining ring	ϕ19*ϕ15*1.25	210000343448	2	P15-T3
11	O-ring	ϕ14.8*2.4	110000022872	1	P-15
12	O-ring	ϕ23.7*3.5	110000108198	1	ORP24-F5
13	O-ring retaining ring	ϕ16*ϕ12*1.25	210000294337	2	P-12
14	O-ring	ϕ11.8*2.4	110000051053	1	P-12
15	Adjusting screw	HM5X027A-010003	210000303288	1	HM5X027A-010003
16	Nut	M8*1.25*5	210000354983	1	M8*1.25*5

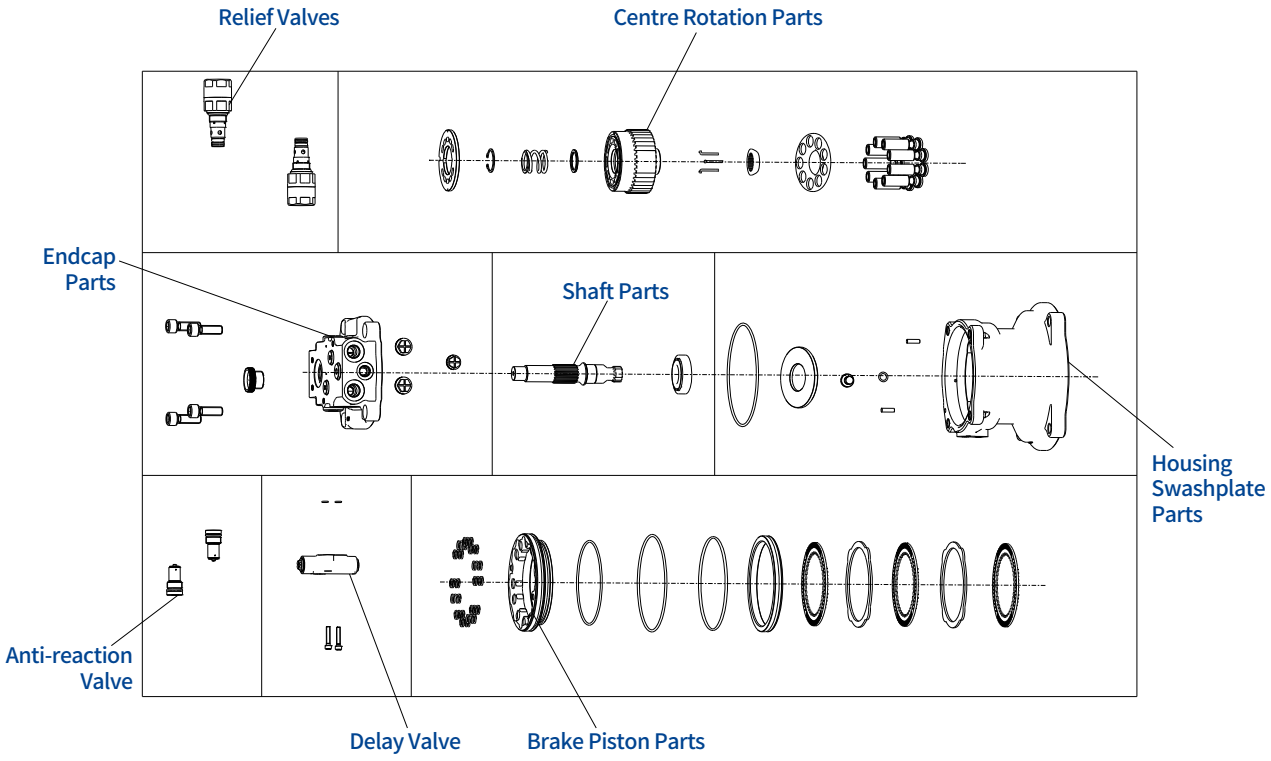
3 HM5F Product Parts

3.6 HM5F47

HM5F-47

3.6 HM5F47

HM5F47 Integral Parts



3.6 HM5F47

HM5F47 Parts Catalogue

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3.6.8 Anti-reaction Valve Parts
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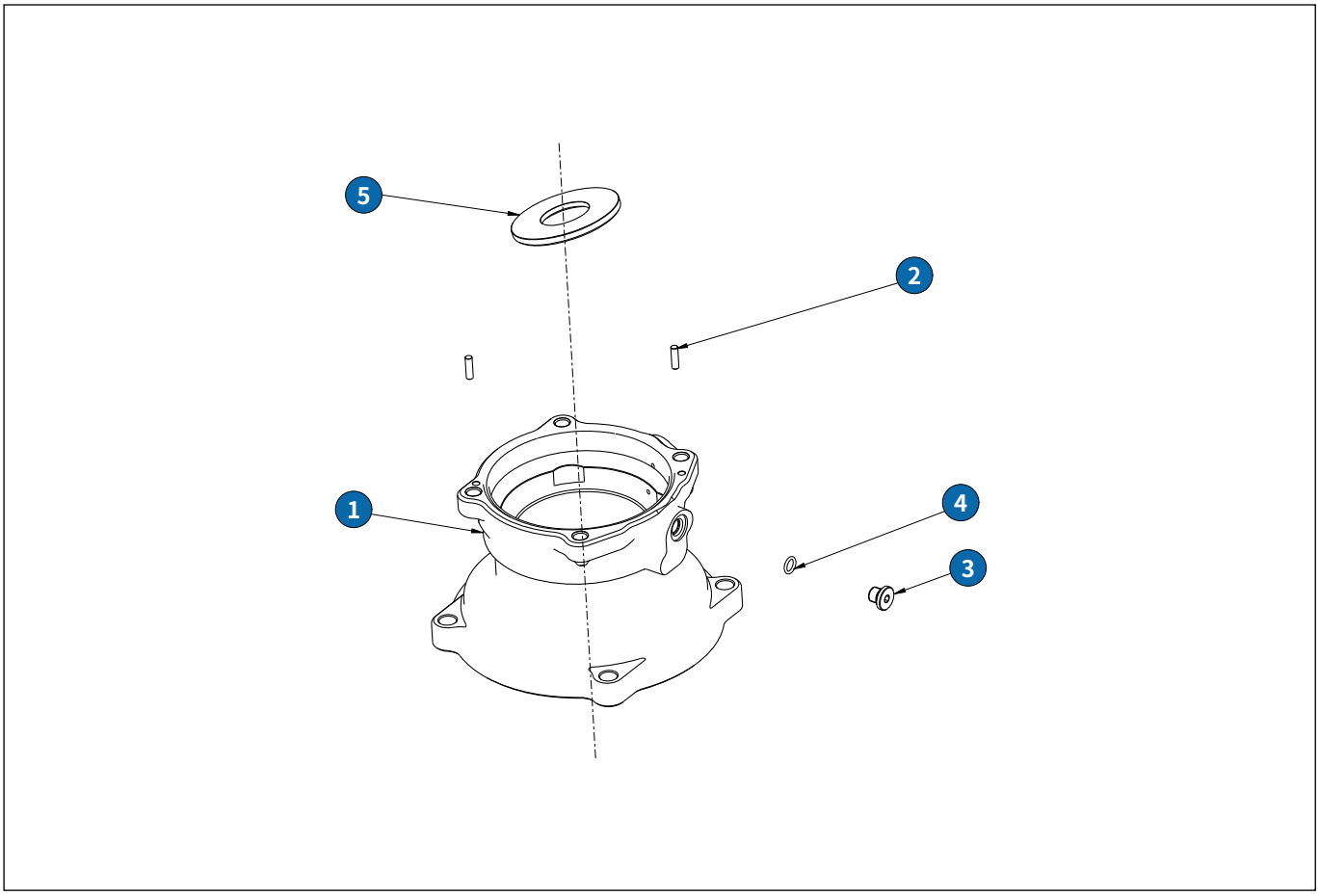
3.6.9 Relief Valve Parts
Relief valve peak pressure selection code 240 82-83

3.6.1 HM5F47 Housing Parts

· Involving delay valve and anti-reaction valve order code 11 : With delay valve and anti-reaction valve.

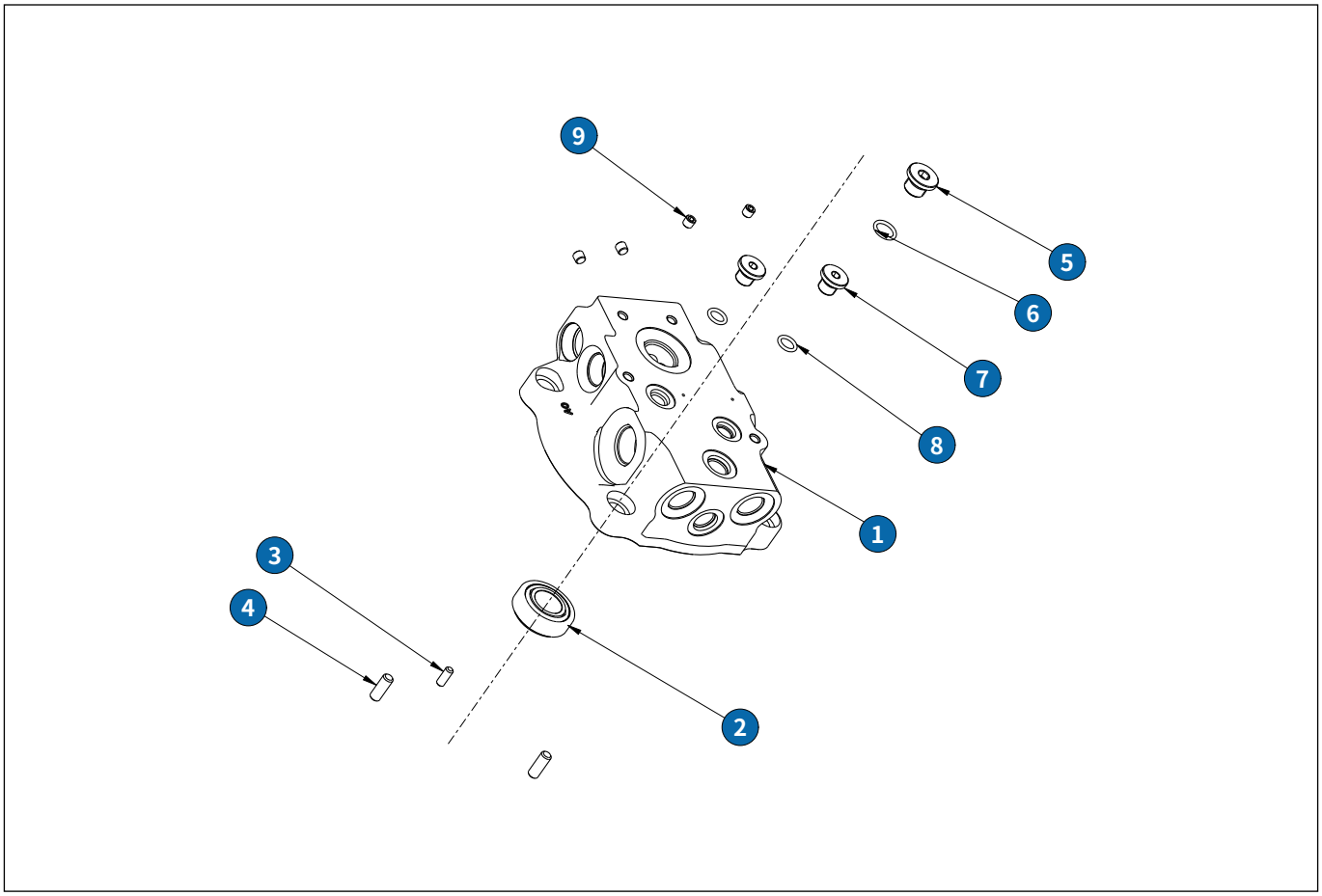


Order code: 11

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Housing	HM5F47-0410HSN	210001204856	1	HM5F47-0410HSN
2	Locating pin	ϕ6*20.8	210000299782	1	HM5X45-010002
3	Screw plug	G1/4	210000293056	1	HM5X45-060004
4	O-ring	ϕ10.8*2.4	110000067694	1	ORP11-N7
5	Friction disc	HM5X45-0310FCP-01	210001209497	1	HM5X45-0310FCP-01

3.6.2 HM5F47 Endcap Parts

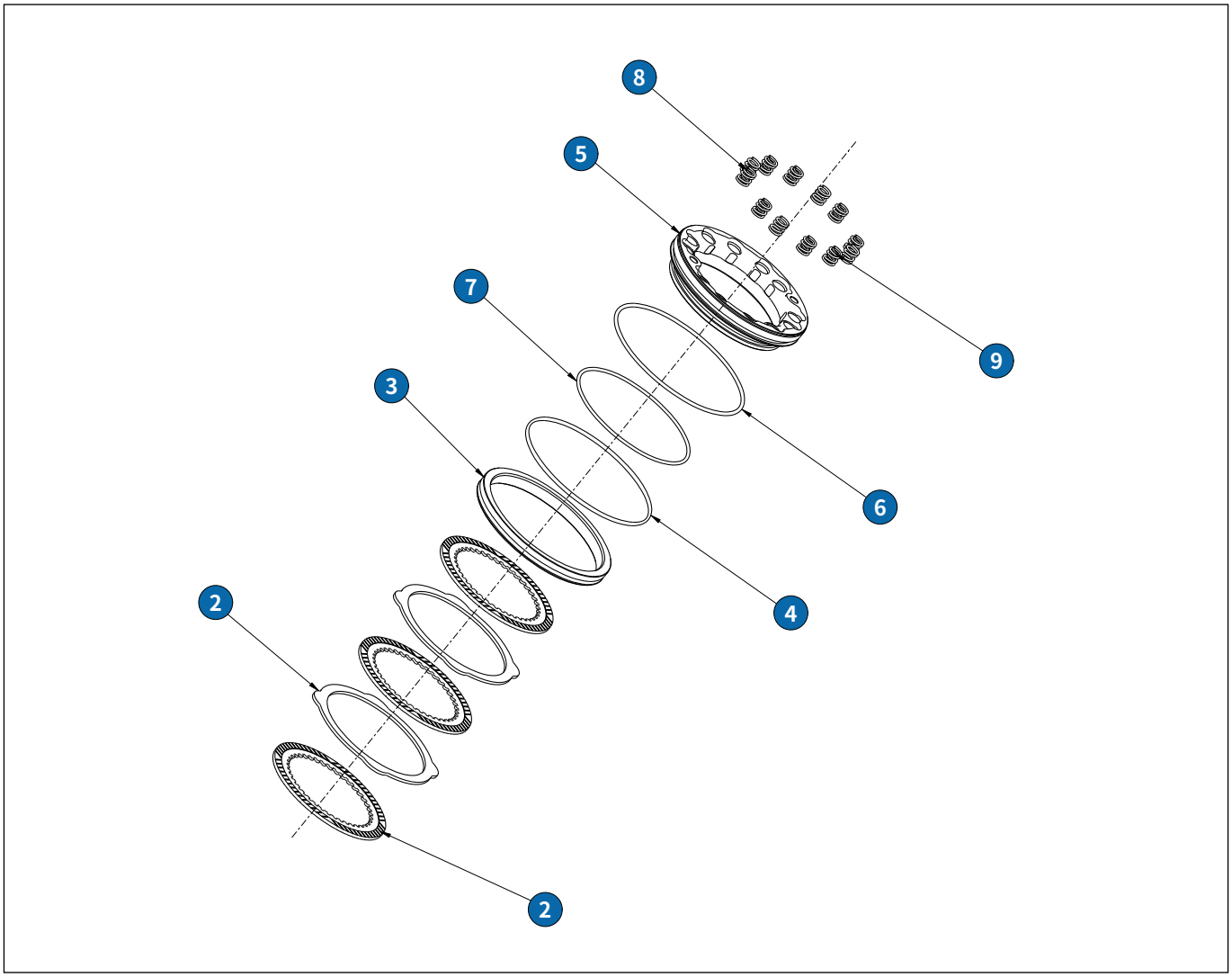
· Order code: Endcap parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Endcap	HM5F47-0510RFG-01	210001209165	1	HM5F47-0510RFG-01
2	Tapered roller bearing	ϕ21.986*ϕ45.237*15.494	210000274060	1	4T-LM12749/LM12710
3	Locating pin	ϕ6*16	210000300931	1	HLPV45-010006
4	Locating pin	ϕ8*22	210000303599	2	ϕ8*22
5	Screw plug	HM5X027-010004	210000292774	1	HM5X027-010004
6	O-ring	ϕ13.8*2.4	110000082543	1	ORP14-N7
7	Screw plug	G1/4	210000293056	2	HM5X45-060004
8	O-ring	ϕ10.8*2.4	110000067694	2	ORP11-N7
9	Coated screw plug	094-1882	210000276169	4	094-1882

3.6.3 HM5F47 Piston Parts

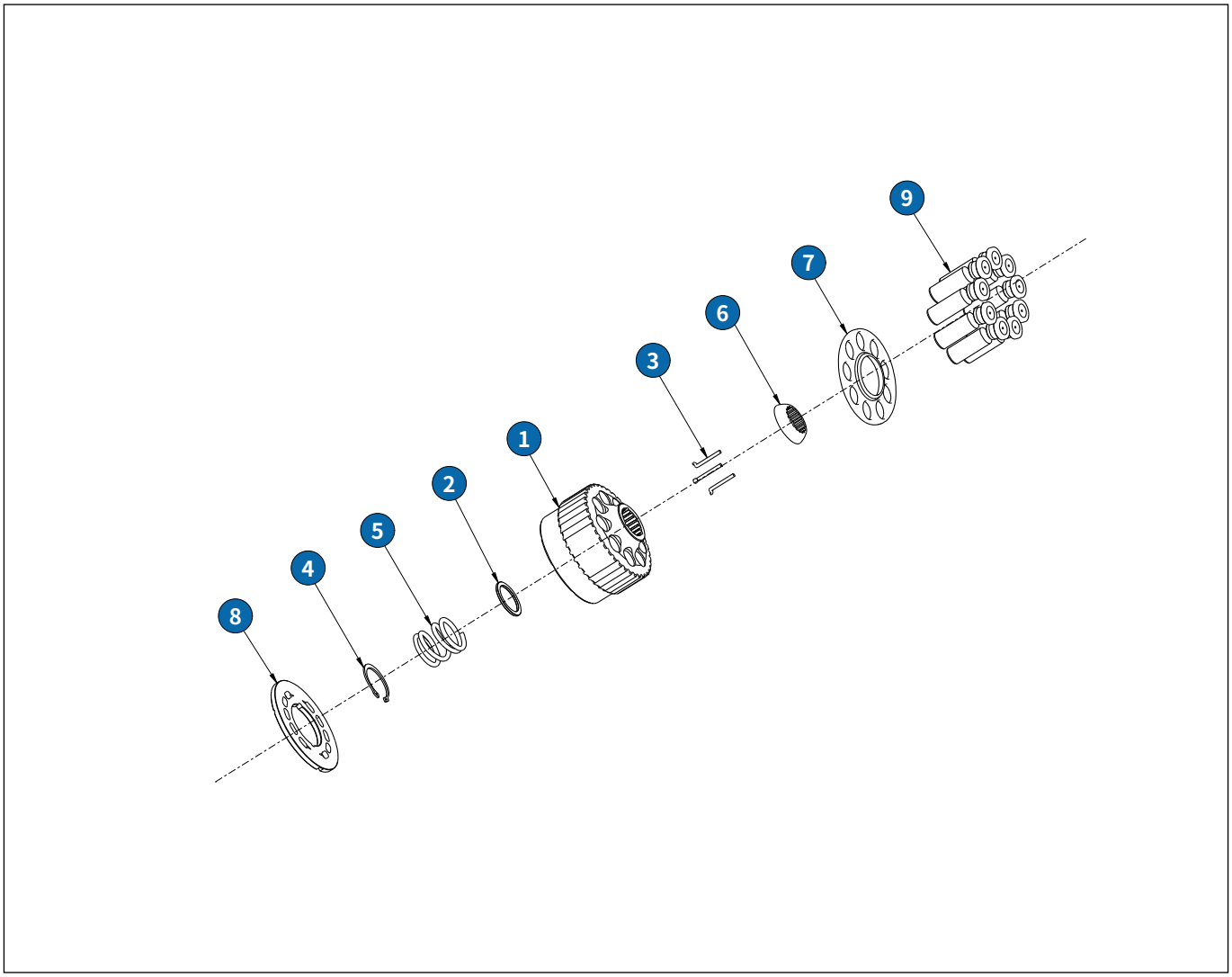
· Order code: Piston parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Friction disc	HM4V47-0400002	210001138857	3	HM4V47-0400002
2	Separation disc	HM5X45-000003	210000301722	16	HM5X45-000003
3	Ring	HM5X45-000005	210000298728	1	HM5X45-000005
4	O-ring	ϕ144.4*3.1	210000006454	1	G-145
5	Piston	HM5X45-000004	210000299681	2	HM5X45-000004
6	O-ring	ϕ148.82*3.53	110000051654	1	OR2-257-N7
7	O-ring	ϕ129.4*3.1	110000084934	1	ORG130-N7
8	Spring	12.6/2*21.1/3.5	210000292569	12	HM5X45-000006
9	Spring	8.2/1.6*18.4/5	210000293663	8	HM5X45-000007

3.6.4 HM5F47 Rotation Parts

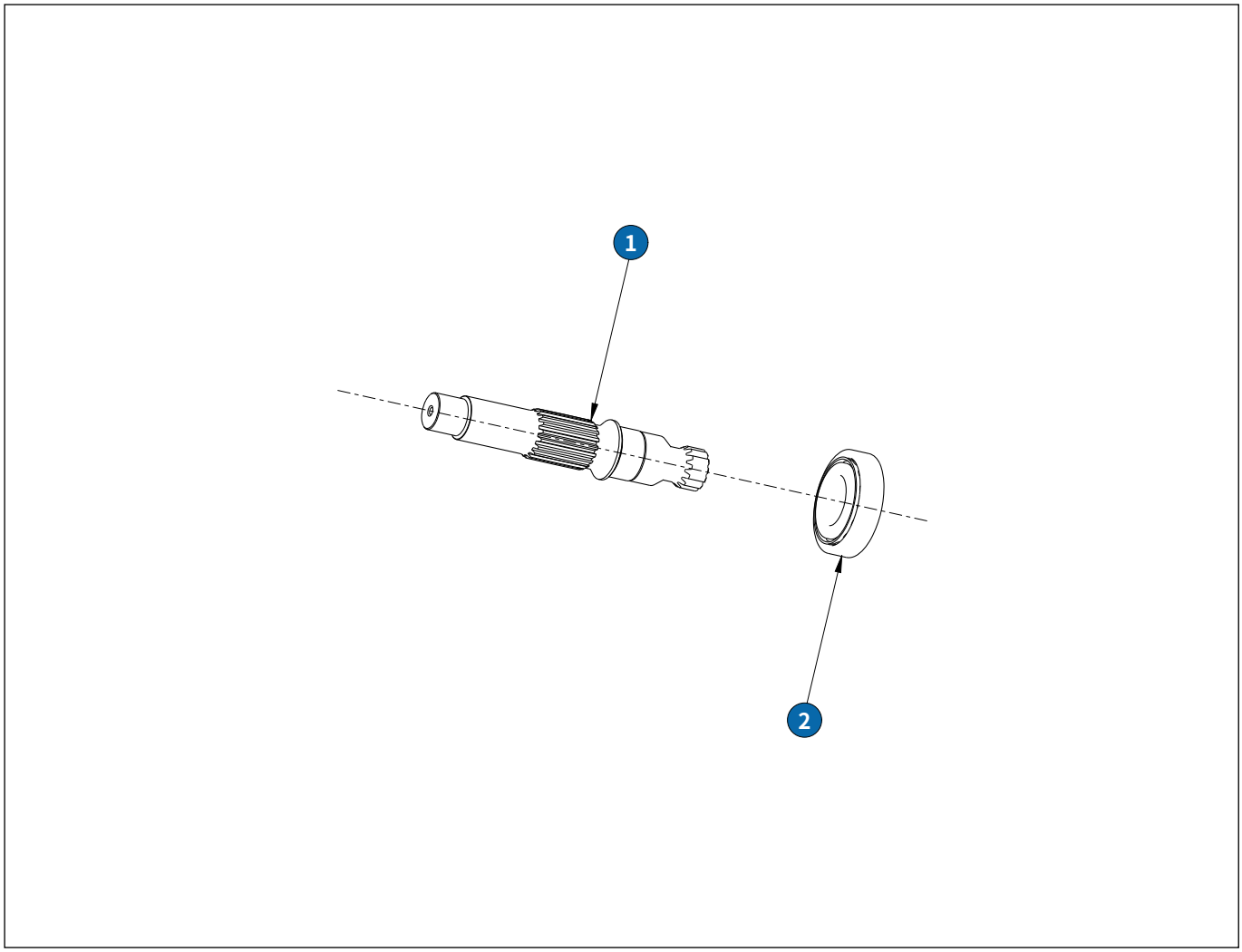
· Order code: Rotation parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Cylinder block	HM5F47-0211CYD	210001204942	1	HM5F47-0211CYD
2	Gasket	ϕ36.5*ϕ28.3*2	210000479852	1	HP4VGT45-050002
3	Thimble	HP4VGT45-050001	210000479850	3	HP4VGT45-050001
4	Retaining ring for reverse bore	IRTW-38	210000475040	1	JIS B 2804
5	Spring	32.55/4.2*71.2/4.5	210000478185	1	HP4VGT45-050003
6	Ball hinge	HP6V47-0230RTB	210000785752	1	HP6V47-0230RTB
7	Return disc	HP6V47-0230RTP	210000786635	1	HP6V47-0230RTP
8	Valve plate	HM4V47-0212CTP	210000292857	1	HM4V47-0212CTP
9	Piston assembly	M70V45-0220000-01	210001065910	9	M70V45-0220000-01

3.6.5 HM5F47 Shaft Parts

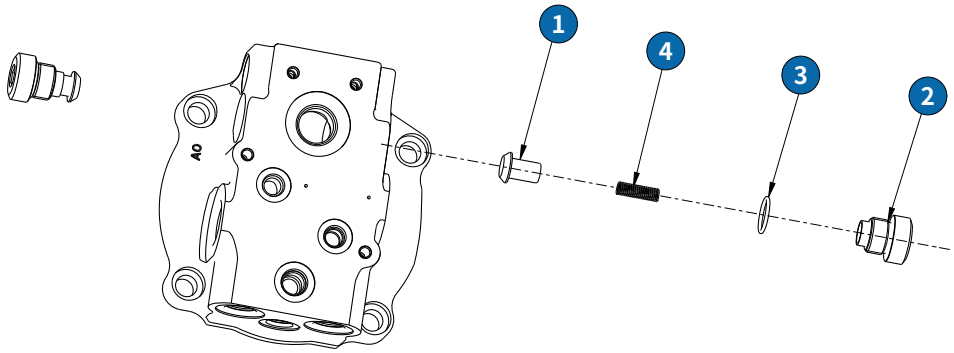
· Order code: Shaft parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Shaft	HM5F47-0110DSF-J13	210001206381	1	HM5F47-0110DSF-J13
2	Tapered roller bearing	ϕ30*ϕ62*17.25	210000762022	1	30206

3.6.6 HM5F47 Check Valve Parts

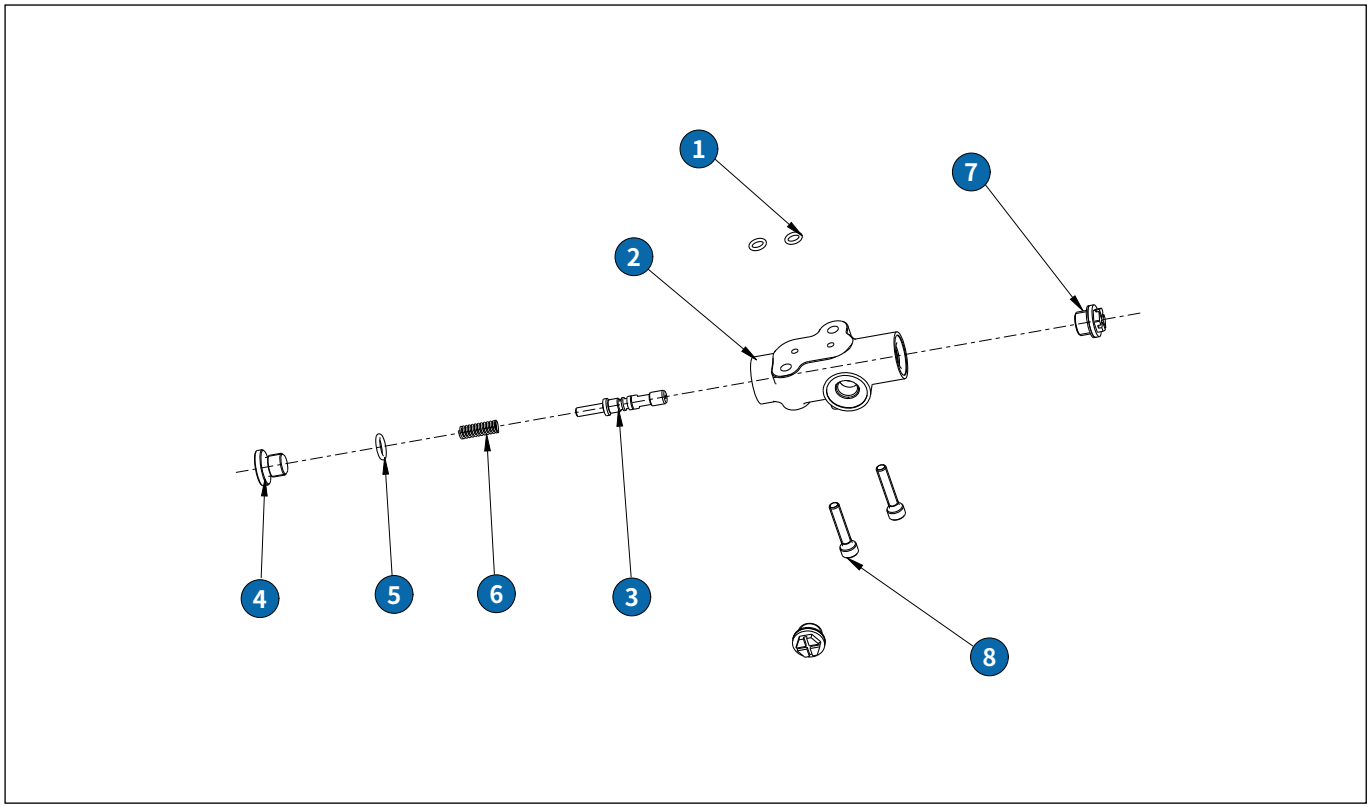
· Order code: Check valve parts are not subject to selection code.



Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Screw plug	HM5X45-040004	210000292759	2	HM5X45-040004
2	Cone valve spool	HM5X45-040002	210000302780	2	HM5X45-040002
3	O-ring	ϕ20.8*2.4	110000051049	2	P-21
4	Spring	7.9/0.8*36.7/20	210000292696	2	7.9/0.8*36.7/20

3.6.7 HM5F47 Delay Valve Parts

· Order code 1: With delay valve./ · Order code 0: Without delay valve, please skip it.

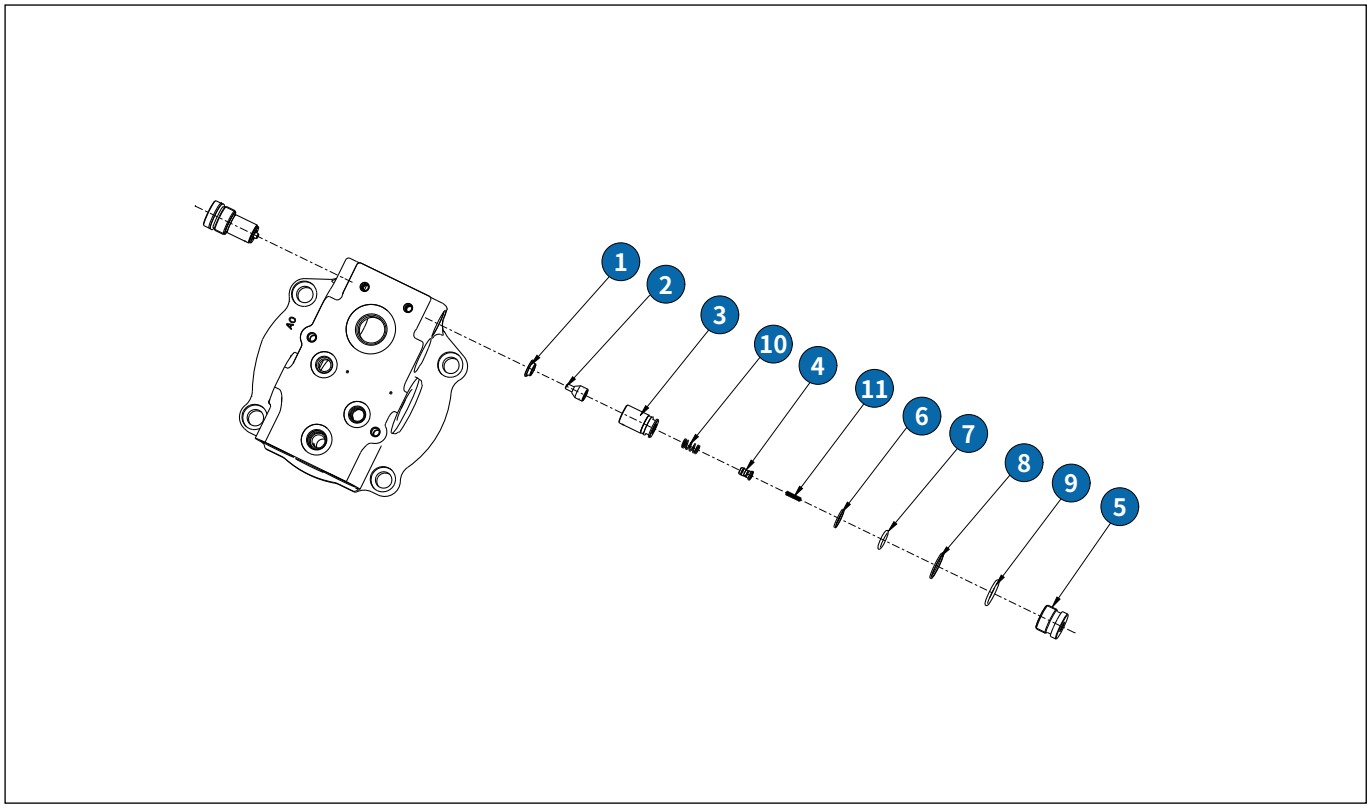


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	O-ring	ϕ6.8*1.9	110000110024	2	ORP7-N7
2	Valve body	HM5X45-060001	210000300630	1	HM5X45-060001
3	Spool	HM5X45-060002	210000297838	1	HM5X45-060002
4	Screw plug	G1/4	210000293056	2	HM5X45-060004
5	O-ring	ϕ10.8*2.4	110000067694	2	ORP11-N7
6	Spring	6.5/1*25.7/13.5	210000292700	1	HM5X45-060003
7	External plugs	G1/4	110000022842	2	G1/4
8	Hexagon socket cheese head screws	M6*30	210000206181	2	GB/T 70.1

3.6.8 HM5F47Anti-reaction Valve Parts

·Order code 1: With anti-reaction valve./ ·Order code 0: Without anti-reaction valve, please skip it.

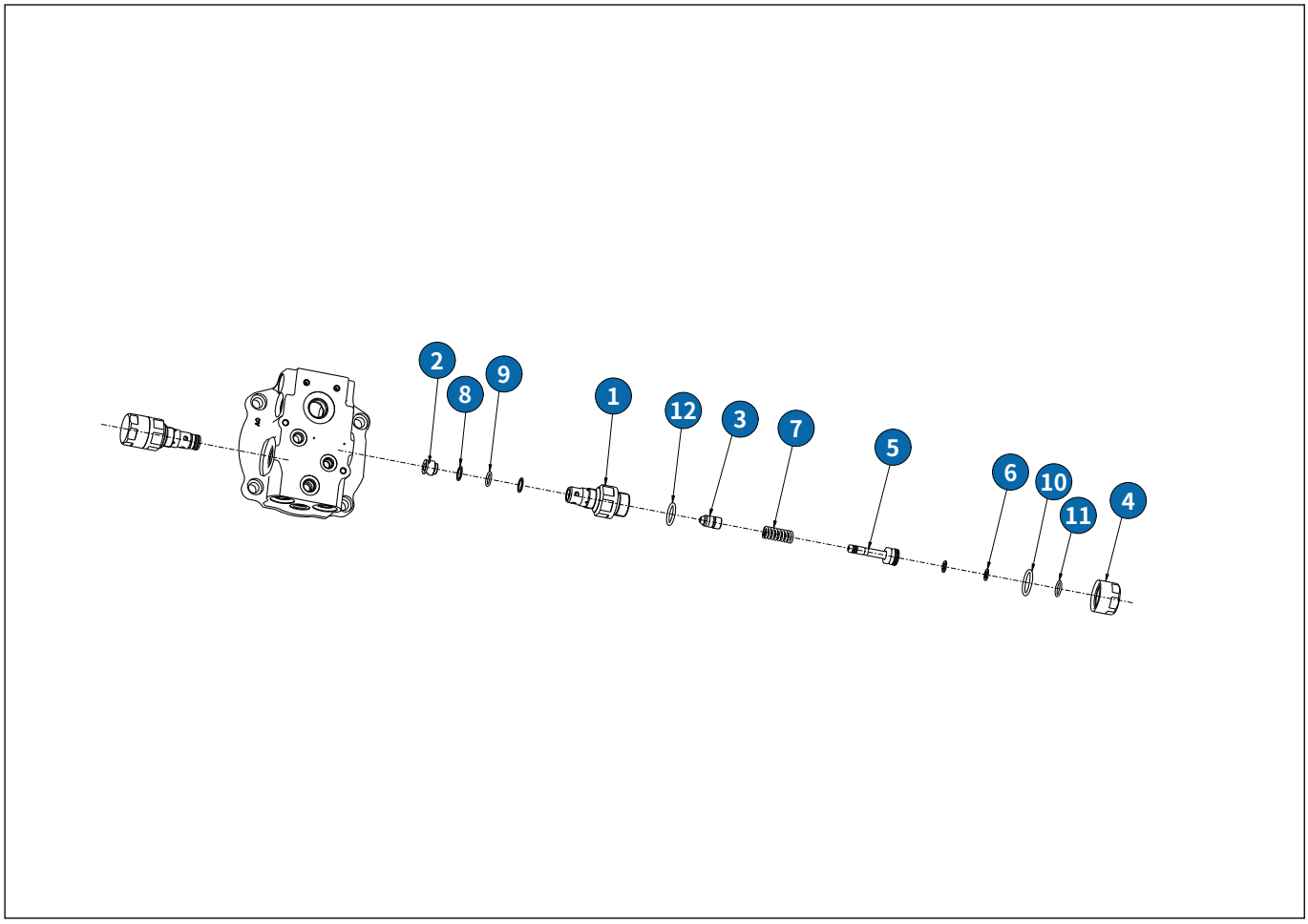


Order code: 1

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Valve sleeve	HM5F34-06P1TUB-01	210001160969	2	HM5F34-06P1TUB-01
2	Spool	HM5F34-06P1SPL-01	21001160903	2	HM5F34-06P1SPL-01
3	Valve sleeve	HM5F34-06P1TUB-02	210001160971	2	HM5F34-06P1TUB-02
4	Spool	HM5F34-06P1SOL-02	210001160973	2	HM5F34-06P1SOL-02
5	Screw plug	M24*1.5	210001162565	2	HM5F34-06P0001-01
6	O-ring retainer	ϕ18*ϕ14*1.25	210000294252	2	P14-T2
7	O-ring	ϕ13.8*2.4	110000082543	2	ORP14-N7
8	O-ring retainer	ϕ25*ϕ21*1.25	210000294694	2	P-21
9	O-ring	ϕ20.8*2.4	110000051049	2	P-21
10	Spring	7.6/0.8*14.6/5	210001160902	2	HM5F34-06P1CSP-01
11	Spring	3/0.5*14.4/14	210001160904	2	HM5F34-06P1CSP-02

3.6.9 HM5F47 Relief Valve Parts

· Order code 240: Relief valve setpoint peak pessure



3.6.9 HM5F47 Relief Valve Parts

Order code: 240

Serial No.	Part Name	Specification	Order No.	QTY.per kit	Drawing No.
1	Screw plug	G3/4	210000293876	1	HM5X027A-010001
2	Valve sleeve	HM5X027-040004	210000297818	1	HM5X027-040004
3	Valve seat	HM5X027-040001	210000303278	1	HM5X027-040001
4	Cone valve spool	HM5X027-040002	210000303319	1	210000303319
5	Spring gasket	HM5X027-040005	210000303515	1	HM5X027-040005
6	Piston	HM5X027A-010002	210000302062	1	HM5X027A-010002
7	Spring	6.8/2*22/6	210000294194	1	HM5X027-040003
8	O-ring	ϕ7.8*1.9	110000022876	1	P-8
9	Valve sleeve	HM5X027-040007	210000297934	1	HM5X027-040007
10	O-ring retainer	ϕ19*ϕ15*1.25	210000343448	2	P15-T3
11	O-ring	ϕ14.8*2.4	110000022872	1	P-15
12	O-ring	ϕ23.7*3.5	110000108198	1	ORP24-F5
13	O-ring retainer	ϕ16*ϕ12*1.25	210000294337	2	P-12
14	O-ring	ϕ11.8*2.4	110000051053	1	P-12
15	Adjusting screw	HM5X027A-010003	210000303288	1	HM5X027A-010003
16	Nut	M8*1.25*5	210000354983	1	M8*1.25*5

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