

SPARE PARTS

Reliable Industrial Controls Since 1902



CONTROL VALVES



Important Information:

Single seated valves:

It is recommended to conduct a seat leakage test after successful repair of control valves. The max allowed leakage rate for single seated valves is 0.05% of Kv100.

Double seated valves:

Repair of double seated valves requires seat leakage test after finishing the repair. Max. allowed leakage rate for double seated valves is 0.5% of Kv100.

If it is not possible to carry out leakage test it is recommended to replace the defective valve with a new one.

3-way valves:

It is recommended to conduct a seat leakage test after successful repair of control valves. The max. allowed leakage rate for 3-way valves is 0.5% of Kv100.

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Product	Type	Dim.	Page No.
Valves	L1S	15/6 - 25 mm	S-2.2.02
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	L2S	40 - 50 mm	S-2.2.05
	L2F	65 - 150 mm	S-2.2.05.01
	L2FR	65 - 150 mm	S-2.2.05.02
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	L2FM-T	65 - 150 mm	S-2.2.11
	L3S	15 - 50 mm	S-2.2.07
	L3F	65 - 150 mm	S-2.2.08
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	L3FA	100 - 500 mm	S-2.2.09.01
	L3FM-T	100 - 500 mm	S-2.2.10
	M1F	15/4 - 50 mm	S-2.3.02
	M1FBN	15 - 80 mm	S-2.3.03.01
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	M2FR	20 - 80 mm	S-2.3.06
	M2FR	100 - 150 mm	S-2.3.07
	M3F	20 - 65 mm	S-2.3.08
	M3F	80 - 150 mm	S-2.3.09
	M3FM	80 - 300 mm	S-2.3.10
	M3FA	80 - 300 mm	S-2.3.10.01
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	M3FA-I	80 - 300 mm	S-2.3.12.02
	M1F	15/4 - 50 mm	S-2.3.02
	M1FBN	15 - 80 mm	S-2.3.03.01
	M2F	20 - 80 mm	S-2.3.04
	M2F	100 - 150 mm	S-2.3.05
	M2FA	250 - 300 mm	S-2.3.05.01
	M2FR	20 - 80 mm	S-2.3.06
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	H1FBN	25 - 80 mm	S-2.4.03
	H1FBN	15 - 80 mm	S-2.4.03.01
	H2F	20 - 80 mm	S-2.4.05
	H2F	100 - 200 mm	S-2.4.06
	H3F	20 - 65 mm	S-2.4.07
	H2FR	20 - 80 mm	S-2.4.09
	H2FR	100 - 150 mm	S-2.4.10

Content Table for Spare Parts

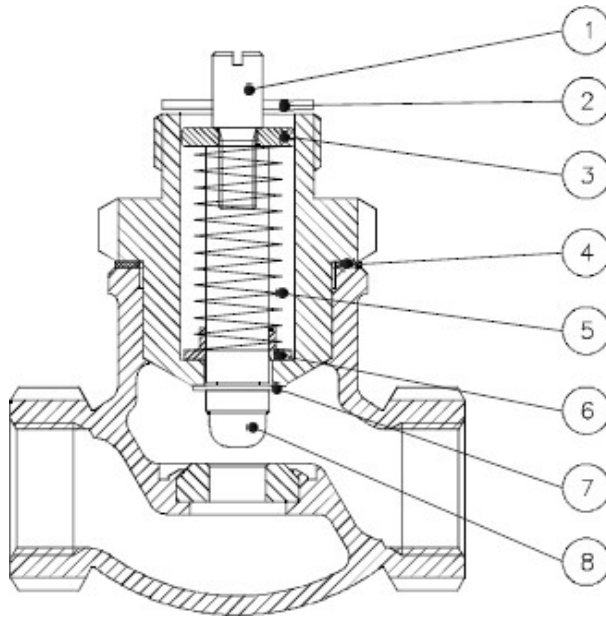
Product	Type	Dim.	Page No.
Valves	G1F	15/4 - 50 mm	S-2.5.02
	G1FB	25 - 65 mm	S-2.5.03
	G1FBN	15 - 80 mm	S-2.5.03.01
	G2F	20 - 80 mm	S-2.5.04
	G2F	100 - 150 mm	S-2.5.05
	G2FM-T	100 - 500 mm	S-2.5.05.01
	G2FR	20 - 80 mm	S-2.5.06
	G1F	15/4 - 50 mm	S-2.5.02
	G2FR	100 - 150 mm	S-2.5.07
	G3F	20 - 65 mm	S-2.5.08
	G3F	80 - 150 mm	S-2.5.09
	G3F-I	80 - 150 mm	S-2.5.09.01
	G3FA	80 - 300 mm	S-2.5.09.02
	G3FM	80 - 300 mm	S-2.5.10
	G3FA-I	80 - 300 mm	S-2.5.13.01
	G3F with soft seats	80 - 300 mm	S-2.5.14
	G3FM-TR	100 - 600 mm	S-2.6.02
	G3FM-TL	100 - 600 mm	S-2.6.03
	G3FM-TM	100 - 500 mm	S-2.6.03.02
	G3FMT – ULL	100 - 250 mm	S-2.6.15
	G3FMT- STD	100 - 250 mm	S-2.6.16
	G3FMT – STD	300 - 400mm	S-2.6.16.01

L1S SPARE PARTS

2-way Control Valves

Gun Metal, PN 16, DN 15/6-20 mm

S-2.2.02-A



DN15-20

Pos.	Component
1	Press Button
2	Gasket
3	Washer
4	Gasket
5	Spring
6	Bushing
7	Cone
8	Locking ring

Order Information:

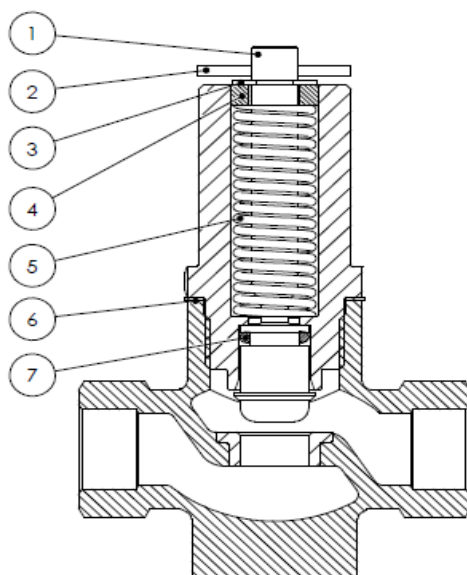
Trim set	Pos.	Valve	Item No.
components pos.	1 to 8	15/6 L1S	1-2990110
	1 to 8	15/9 L1S	1-2990111
	1 to 7	15/12 L1S	1-2990112
	1 to 7	15 L1S	1-2990113
	1 to 7	20 L1S	1-2990121

L1SB SPARE PARTS

2-way Control Valves type

Gun Metal, PN 16, DN 15-32 mm

S-2.2.04-A



DN15-32

Pos.	Component
1	Cone
2	Gasket
3	Locking ring
4	Disc
5	Spring
6	Gasket
7	O-ring

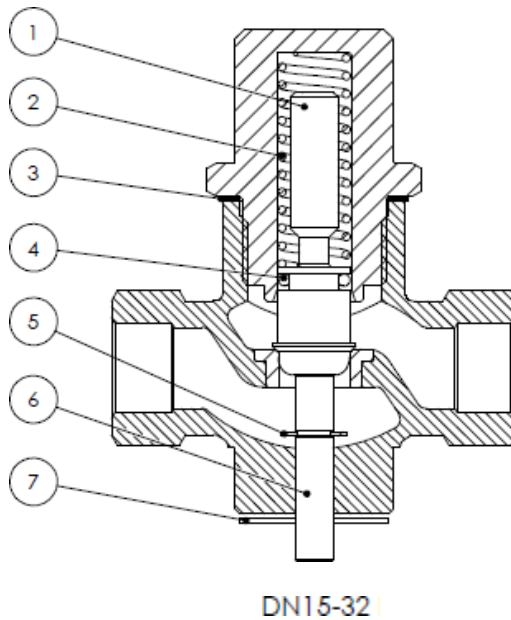
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components pos.	1 to 7	15 L1SB	1-2990115
	1 to 7	20 L1SB	1-2990116
	1 to 7	25 L1SB	1-2990117
	1 to 7	32 L1SB	1-2990118

L1SBR SPARE PARTS

Balanced 2-way Control Valves

Gun Metal, PN 16, DN 15-32 mm, Reverse acting

S-2.2.04.01-A



Pos.	Component
1	Cone
2	Spring
3	Gasket
4	O-ring
5	Locking ring
6	Spindle
7	Gasket

Order Information:

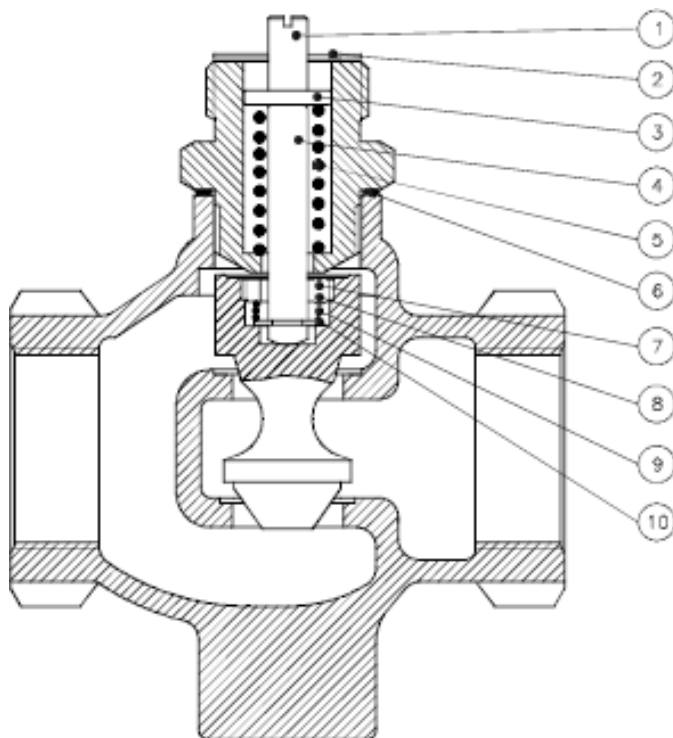
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components pos.	1 to 7	15 L1SBR	1-2990125
	1 to 7	20 L1SBR	1-2990126
	1 to 7	25 L1SBR	1-2990127
	1 to 7	32 L1SBR	1-2990128

L2S SPARE PARTS

2-way Control Valves

Gun Metal, PN 16, DN 40-50 mm

S-2.2.05-A



DN40-50

Pos.	Component
1	Press Button
2	Gasket
3	Disc
4	Cone shaft
5	Spring
6	Gasket
7	Screwed ring
8	Disc
9	Spring
10	Locking ring

Order Information:

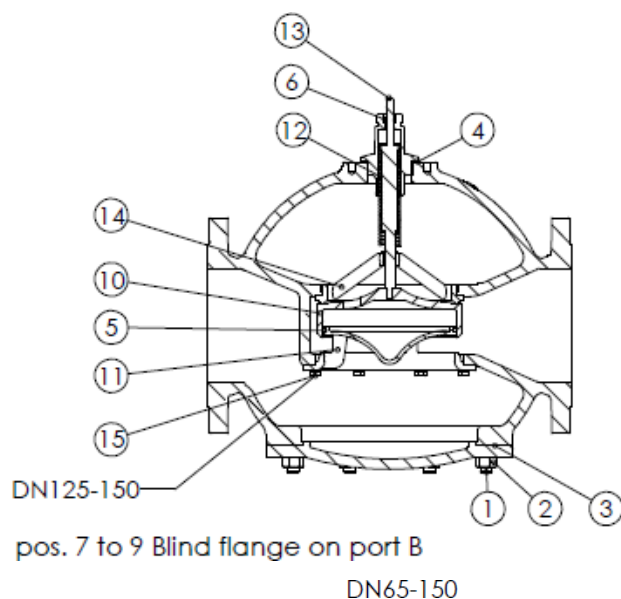
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components pos.	1 to 10	40-50 L2S	1-2990148

L2F SPARE PARTS

2-way Control Valves

Gun Metal, PN 10, DN 65-150 mm

S-2.2.05.01-A



Pos. Component

1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	Gasket of blind flange
8	Nut of blind flange
9	Screw of blind flange
10	Cone
11	Lower seat
12	Spring
13	Spindle
14	Upper seat
15	Screw

Order Information:

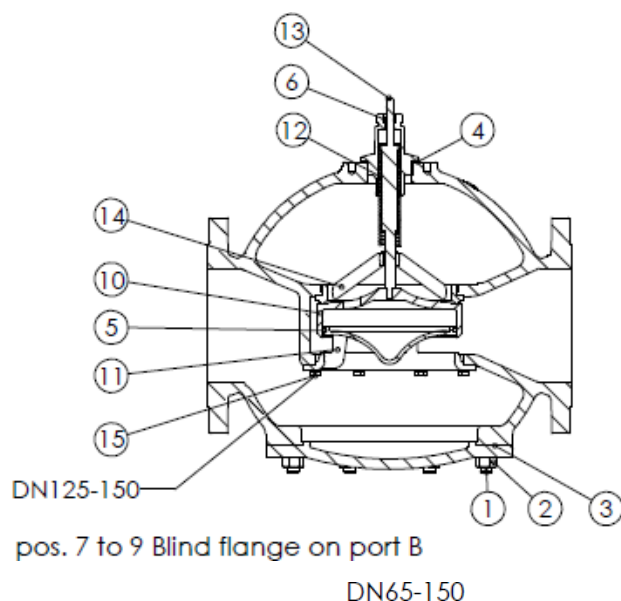
Packing set	Pos.	Valve	Item No.
components pos.	1 to 9	65 L2F	1-2990240
	1 to 9	80 L2F	1-2990241
	1 to 9	100 L2F	1-2990242
	1 to 9	125 L2F	1-2990243
	1 to 9	150 L2F	1-2990244
Trim set	Pos.	Valve	Item No.
components pos.	1 to 13	65 L2F	1-2990246
	1 to 14	80 L2F	1-2990247
	1 to 14	100 L2F	1-2990248
	1 to 15	125 L2F	1-2990249
	1 to 15	150 L2F	1-2990250

L2FR SPARE PARTS

2-way Control Valves

Gun Metal, PN 10, DN 65-150 mm

S-2.2.05.02-A



Pos. Component

1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	Gasket of blind flange
8	Nut of blind flange
9	Screw of blind flange
10	Cone
11	Lower seat
12	Spring
13	Spindle
14	Upper seat
15	Screw

Order Information:

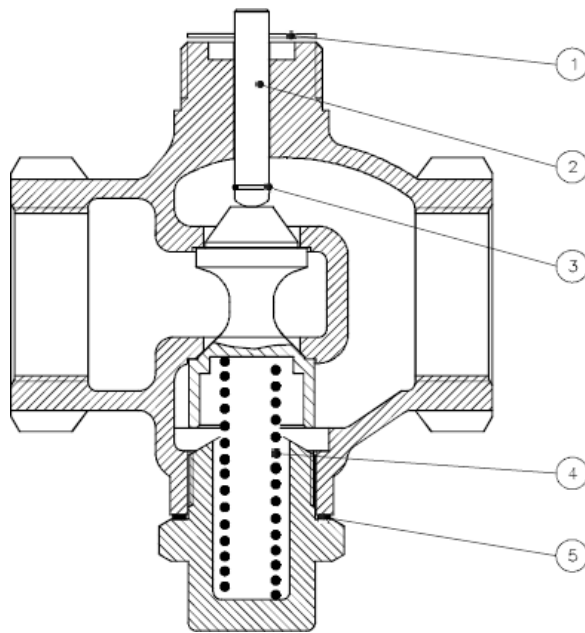
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components pos.	1 to 9	65 L2FR	1-2990240
	1 to 9	80 L2FR	1-2990241
	1 to 9	100 L2FR	1-2990242
	1 to 9	125 L2FR	1-2990243
	1 to 9	150 L2FR	1-2990244
Trim set	Pos.	Valve	Item No.
components pos.	1 to 13	65 L2FR	1-2990246
	1 to 14	80 L2FR	1-2990247
	1 to 14	100 L2FR	1-2990248
	1 to 15	125 L2FR	1-2990249
	1 to 15	150 L2FR	1-2990250

L2SR SPARE PARTS

2-way Control Valves

Gun Metal, PN 16, DN 40-50 mm, 2 seats, Reverse acting

S-2.2.06-A



DN40-50

Pos.	Component
1	Press Button
2	Gasket
3	O-ring
4	Spring
5	Gasket

Order Information:

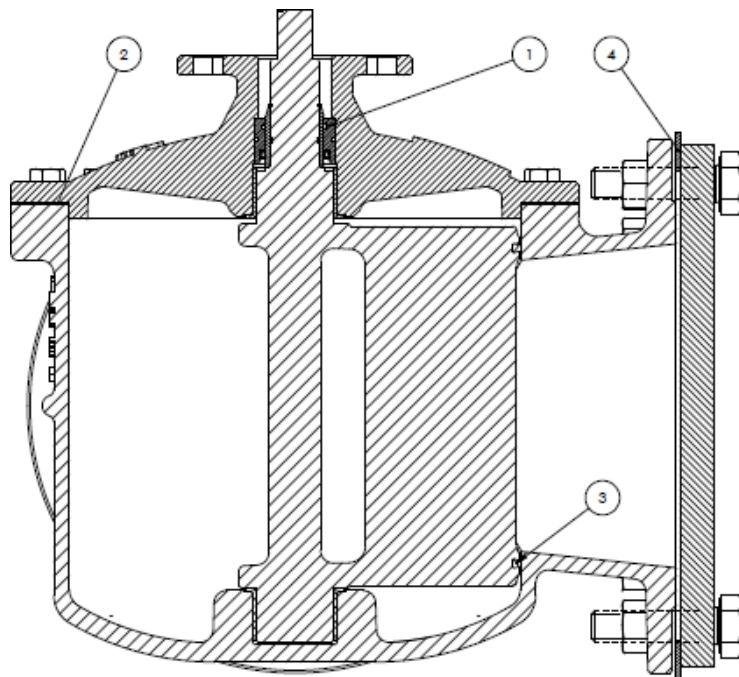
Trim set	Pos.	Valve	Item No.
components pos.	1 to 5	40-50 L2SR	1-2990149

L2FM-T SPARE PARTS

S-2.2.11-A

2-way Control Valves

Gun metal, PN 16, DN 100-300 mm / PN 10, DN 350-500 mm



Pos.	Component
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1	O-ring for bushing
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2	Gasket
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3	O-ring for slide
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4	Gasket
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Order Information:

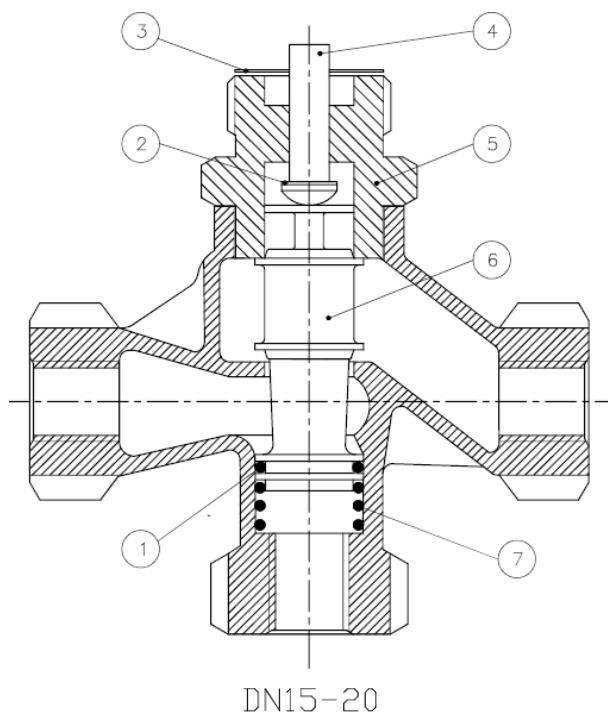
Packing set	Pos.	Valve	Item No.
components	1 to 4	100 L2FM -T	1-2991540
pos.	1 to 4	125 L2FM -T	1-2991541
	1 to 4	150 L2FM -T	1-2991542
	1 to 4	200 L2FM -T	1-2991543
	1 to 4	250 L2FM -T	1-2991544
	1 to 4	300 L2FM -T	1-2991545
	1 to 4	350 L2FM -T	1-2991546
	1 to 4	400 L2FM -T	1-2991547
	1 to 4	450 L2FM -T	1-2991548
	1 to 4	500 L2FM -T	1-2991549

L3S SPARE PARTS

3-way Control Valves

Gun Metal, PN 10, DN 15-20 mm

S-2.2.07-1-A



Pos.	Component
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1	O-ring
2	Washer
3	Packing
4	Press Button
5	Screwed cone
6	Cone
7	Spring

Order Information:

Packing set	Pos.	Valve	Item No.
components pos.	1 to 3	15-20 L3S	1-2990739

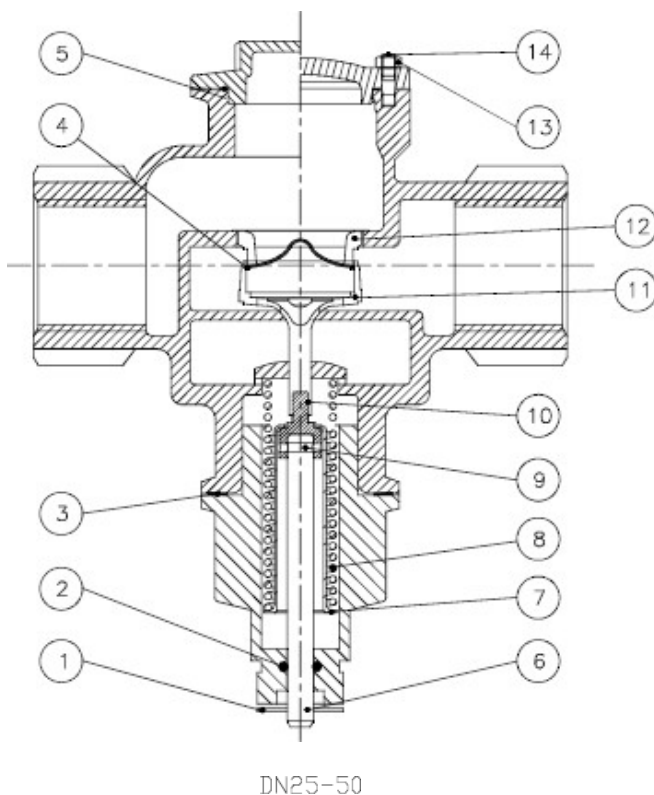
Trim set	Pos.	Valve	Item No.
components pos.	1 to 7	15 L3S	1-2990740
	1 to 7	20 L3S	1-2990741

L3S SPARE PARTS

3-way Control Valves

Gun Metal, PN 10, DN 25-50 mm

S-2.2.07-2-A



Pos.	Component
1	Gasket
2	O-ring
3	Gasket
4	O-ring
5	Gasket
6	Spindle
7	Spring guide
8	Spring
9	Pin
10	Heads of spindle
11	Cone
12	Seat
13	Nut
14	Stud bolt

Order Information:

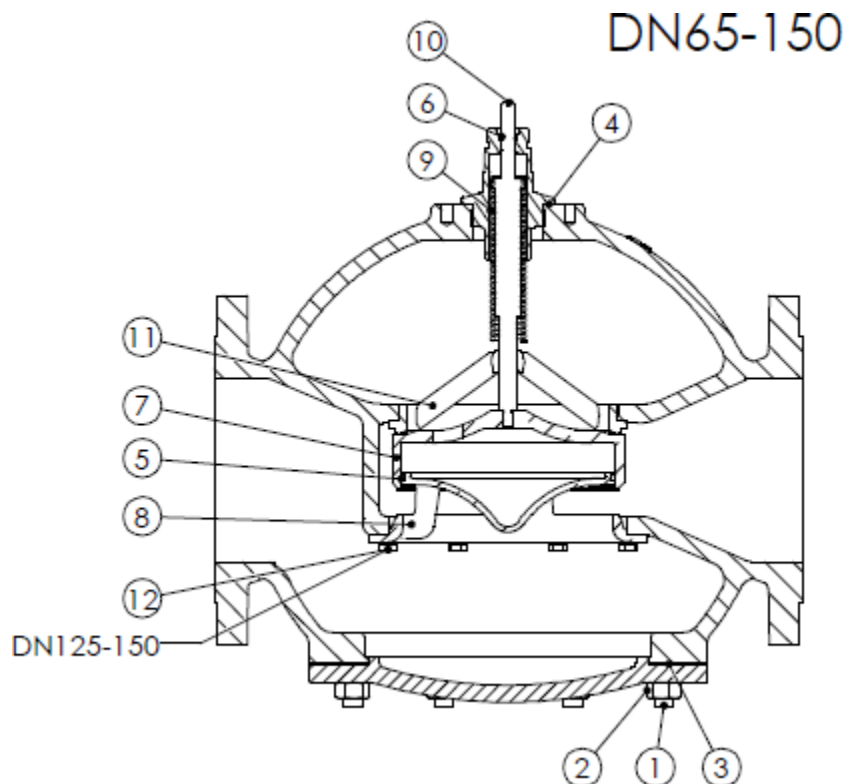
Packing set	Pos.	Valve	Item No.
components pos.	1 to 5	25-32 L3S	1-2991038
	1 to 5 and 13 ,14	40-50 L3S	1-2991046
Trim set	Pos.	Valve	Item No.
components pos.	1 to 14	25-32 L3S	1-2991039
	1 to 14	40-50 L3S	1-2991047

L3F SPARE PARTS

3-way Control Valves

Gun Metal, PN 10, DN 65-150 mm

S-2.2.08-A



Pos.	Component
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1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	Cone
8	Lower seat
9	Spring
10	Spindle
11	Upper seat
12	Screw

Order Information:

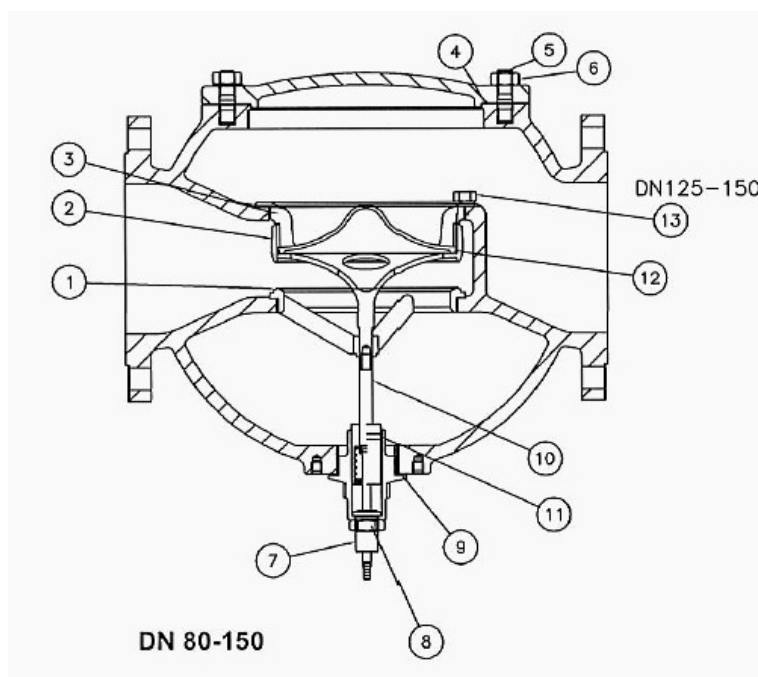
Packing set	Pos.	Valve	Item No.
components pos.	1 to 6	65 L3F	1-2991130
	1 to 6	80 L3F	1-2991132
	1 to 6	100 L3F	1-2991134
	1 to 6	125 L3F	1-2991136
	1 to 6	150 L3F	1-2991138
Trim set	Pos.	Valve	Item No.
components pos.	1 to 10	65 L3F	1-2990237
	1 to 11	80 L3F	1-2990784
	1 to 11	100 L3F	1-2990308
	1 to 12	125 L3F	1-2990318
	1 to 12	150 L3F	1-2990320

L3FM SPARE PARTS

2-way Control Valves

Gun metal, PN 10, DN 80-200 mm

S-2.2.09-A



Pos.	Component
1	Upper seat
2	Cone
3	Lower seat
4	Gasket
5	Stud bolt
6	Nut
7	Packbox
8	Nut
9	Gasket
10	Spindle
11	Pin
12	Gasket
13	Screw

Order Information:

Packing set	Pos.	Valve	Item No.
components pos.	4 to 7;9;12	80 L3FM	1-2991471
	4 to 7;9;12	100 L3FM	1-2991473
	4 to 7;9;12	125 L3FM	1-2991475
	4 to 7;9;12	150 L3FM	1-2991477
	4 to 7;9;12	200 L3FM	1-2991500

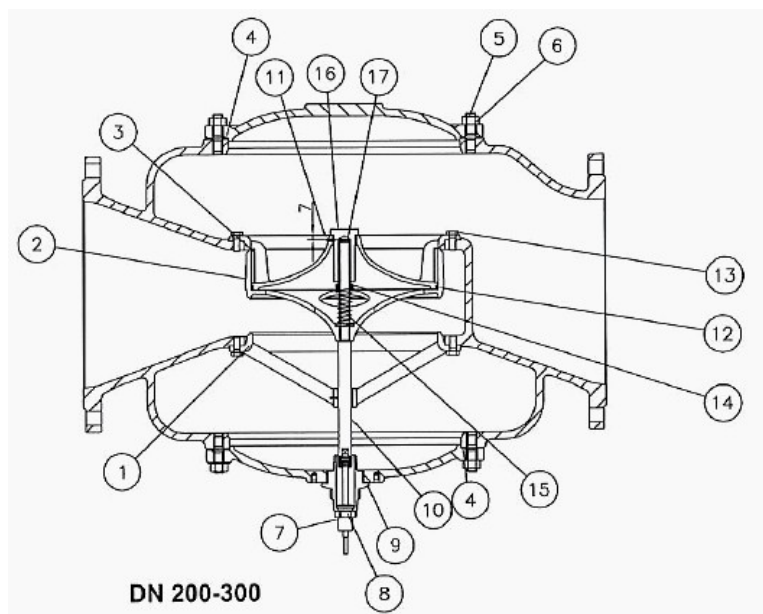
Trim set	Pos.	Valve	Item No.
components pos.	1 to 12	80 L3FM	1-2991472
	1 to 12	100 L3FM	1-2991474
	1 to 13	125 L3FM	1-2991476
	1 to 13	150 L3FM	1-2991478
	1 to 17	200 L3FM	1-2991616

L3FM SPARE PARTS

2-way Control Valves

Gun metal, PN 16, DN 250-300 mm

S-2.2.09.01-A



Pos. Component

1	Upper seat
2	Cone
3	Lower seat
4	Gasket
5	Stud bolt
6	Nut
7	Packbox
8	Nut
9	Gasket
10	Spindle
11	Pin
12	Gasket
13	Screw
14	Guide bushing
15	Spring
16	Screw connection
17	Spring washer

Order Information:

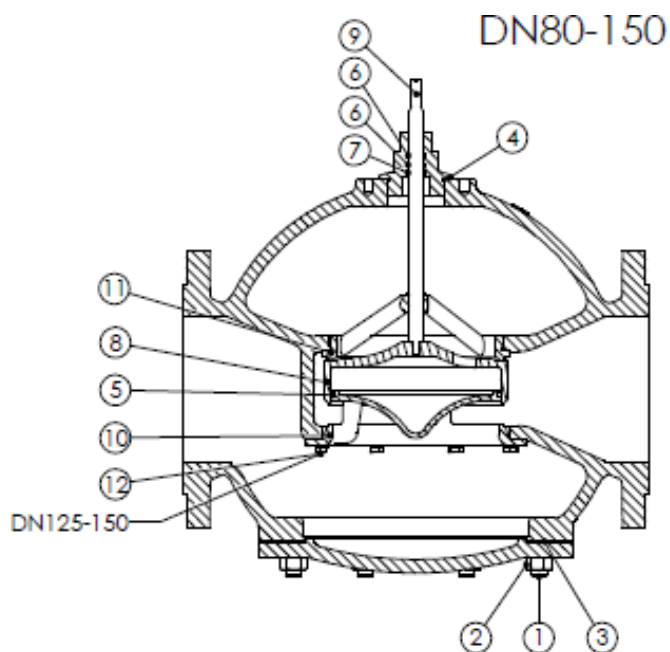
Packing set	Pos.	Valve	Item No.
components pos.	4 to 7;9;12	250 L3FM	1-2991501
	4 to 7;9;12	300 L3FM	1-2991502
Trim set	Pos.	Valve	Item No.
components pos.	1 to 17	250 L3FM	1-2991617
	1 to 17	300 L3FM	1-2991618

L3FA SPARE PARTS

3-way Control Valves

Gun metal, PN 10, DN 80-150 mm

S-2.2.09.02-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-ring
8	Cone
9	Spindle
10	Lower seat
11	Upper seat

Order Information:

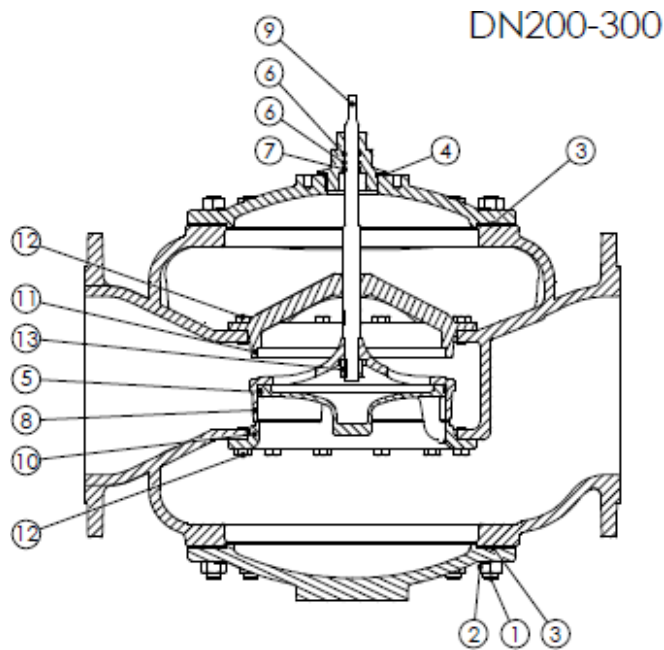
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	80 L3FA	1-2992720
	1 to 7	100 L3FA	1-2992722
	1 to 7	125 L3FA	1-2992724
	1 to 7	150 L3FA	1-2992726
Trim set	Pos.	Valve	Item No.
components pos.	1 to 11	80 L3FA	1-2992721
	1 to 11	100 L3FA	1-2992723
	1 to 12	125 L3FA	1-2992725
	1 to 12	150 L3FA	1-2992727

L3FA SPARE PARTS

3-way Control Valves

Gun metal, PN 10, DN 200/175 mm / PN 6, DN 250/300 - 300 mm

S-2.2.09.03-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-Ring
8	Cone
9	Spindle
10	Lower seat
11	Upper seat
12	Screw
13	Nut

Order Information:

Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	200/175 L3FA	1-2992728
	1 to 7	200 L3FA	1-2992730
	1 to 7	250/300 L3FA	1-2992732
	1 to 7	300 L3FA	1-2992734

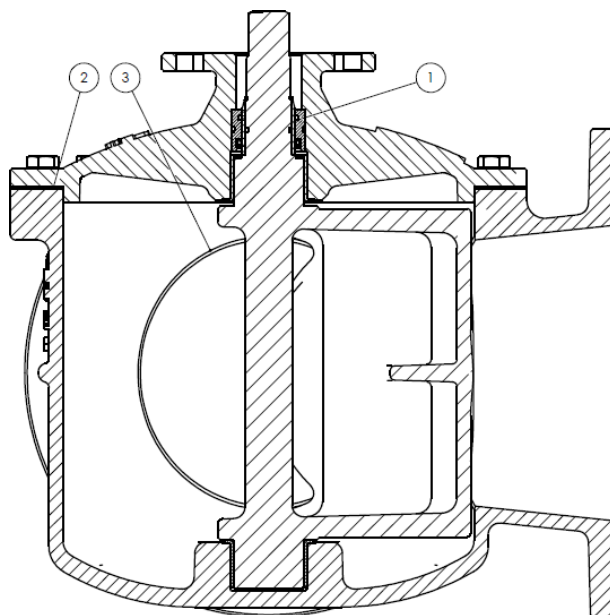
Trim set	Pos.	Valve	Item No.
components pos.	1 to 13	200/175 L3FA	1-2992729
	1 to 13	200 L3FA	1-2992731
	1 to 13	250/300 L3FA	1-2992733
	1 to 13	300 L3FA	1-2992735

L3FM-T SPARE PARTS

3-way Control Valves

Gun metal, PN 10, DN 100-300 mm / PN 6, DN 350-500 mm

S-2.2.10-A



Pos.	Component
1	O-ring for bushing
2	Gasket
3	O-ring for slide

Order Information:

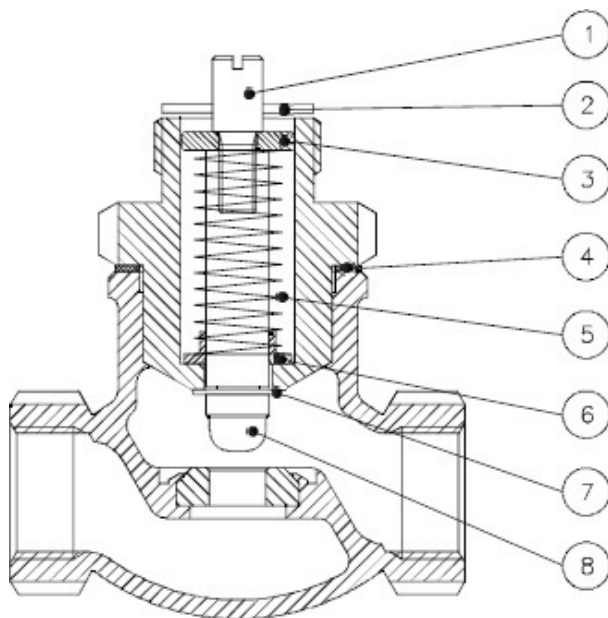
Packing set	Pos.	Valve	Item No.
components pos.	1 to 3	100 L3FM -TL	1-2991510
	1 to 3	125 L3FM -TL	1-2991511
	1 to 3	150 L3FM -TL	1-2991512
	1 to 3	200 L3FM -TL	1-2991513
	1 to 3	250 L3FM -TL	1-2991514
	1 to 3	300 L3FM -TL	1-2991515
	1 to 3	350 L3FM -TL	1-2991516
	1 to 3	400 L3FM -TL	1-2991517
	1 to 3	450 L3FM -TL	1-2991518
	1 to 3	500 L3FM -TL	1-2991519

L1S SPARE PARTS

2-way Control Valves

Gun Metal, PN 16, DN 15/6-20 mm

S-2.2.02-A



DN15-20

Pos.	Component
1	Press Button
2	Gasket
3	Washer
4	Gasket
5	Spring
6	Bushing
7	Cone
8	Locking ring

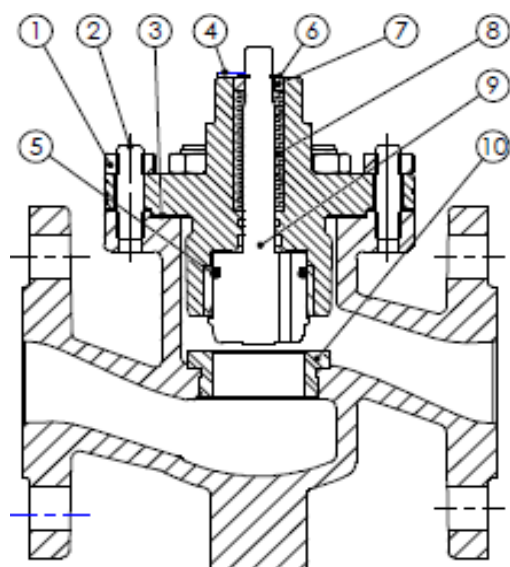
Order Information:

Trim set	Pos.	Valve	Item No.
components pos.	1 to 8	15/6 L1S	1-2990110
	1 to 8	15/9 L1S	1-2990111
	1 to 7	15/12 L1S	1-2990112
	1 to 7	15 L1S	1-2990113
	1 to 7	20 L1S	1-2990121

M1FBN SPARE PARTS

Balanced 2-way Control Valves
Cast iron, PN 16, DN 15-80 mm

S-2.3.03.01-A



DN15-80

Pos.	Component
1	Nut
2	Stud bolt
3	Gasket
4	Gasket
5	O-ring
6	Locking ring
7	Disc
8	Spring
9	Cone
10	Lower seat

Order Information:

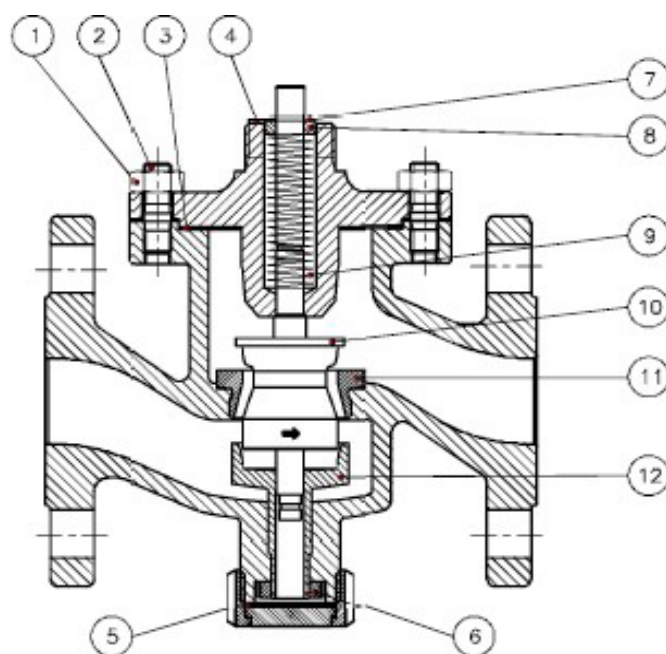
Packing set	Pos.	Valve	Item No.	Trim set	Pos.	Valve	Item No.
components pos.	1 to 5	15 M1FBN	1-2992335	components pos.	1 to 10	15 M1FBN	1-2992345
	1 to 5	20 M1FBN	1-2992336		1 to 10	20 M1FBN	1-2992346
	1 to 5	25 M1FBN	1-2992337		1 to 10	25 M1FBN	1-2992347
	1 to 5	32 M1FBN	1-2992338		1 to 10	32 M1FBN	1-2992348
	1 to 5	40 M1FBN	1-2992339		1 to 10	40 M1FBN	1-2992349
	1 to 5	50 M1FBN	1-2992340		1 to 10	50 M1FBN	1-2992350
	1 to 5	65 M1FBN	1-2992341		1 to 10	65 M1FBN	1-2992351
	1 to 5	80 M1FBN	1-2992342		1 to 10	80 M1FBN	1-2992352

M2F SPARE PARTS

2-way Control Valves

Cast iron, PN 16, DN 20-80 mm, 2 seats, Flanged ends

S-2.3.04-A



DN20-80

Pos.	Component
------	-----------

1	Nut
2	Stud bolt
3	Gasket
4	Gasket
5	Gasket
6	Nut
7	Locking ring
8	Disc
9	Spring
10	Cone
11	Seat
12	Lower seat

Order Information:

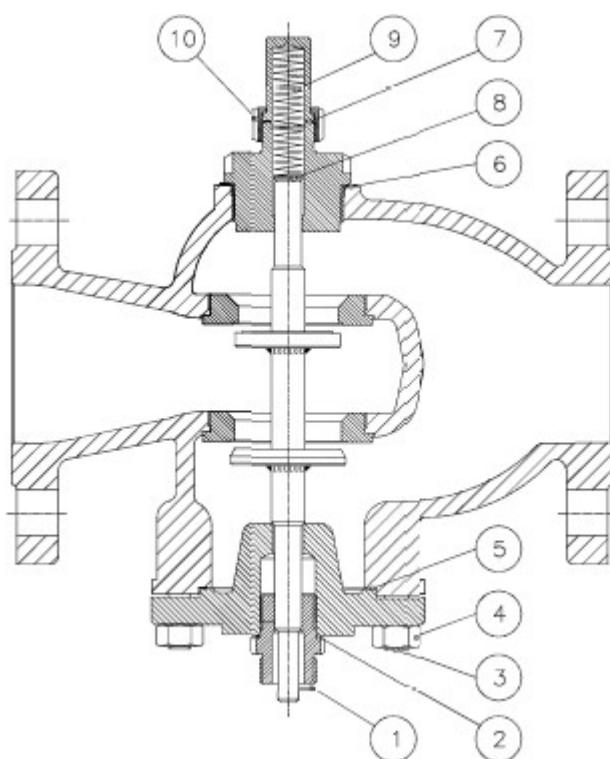
Packing set	Pos.	Valve	Item No.	Trim set	Pos.	Valve	Item No.
components pos.	1 to 5	20 M2F	1-2991345	components pos.	1 to 12	20 M2F	1-2991373
	1 to 5	25 M2F	1-2991349		1 to 12	25 M2F	1-2991375
	1 to 5	32 M2F	1-2991352		1 to 12	32 M2F	1-2991379
	1 to 5	40 M2F	1-2991355		1 to 12	40 M2F	1-2991381
	1 to 5	50 M2F	1-2991360		1 to 12	50 M2F	1-2991385
	1 to 5	65 M2F	1-2991363		1 to 12	65 M2F	1-2991389
	1 to 5	80 M2F	1-2991367		1 to 12	80 M2F	1-2991392

M2F SPARE PARTS

2-way Control Valves

Cast iron, PN 16, DN 100-150 mm

S-2.3.05-A



DN100 and 150

Pos.	Component
------	-----------

1	Gasket
2	Gasket
3	Stud bolt
4	Nut
5	Gasket
6	Gasket
7	Gasket
8	Disc
9	Spring
10	Nut

Order Information:

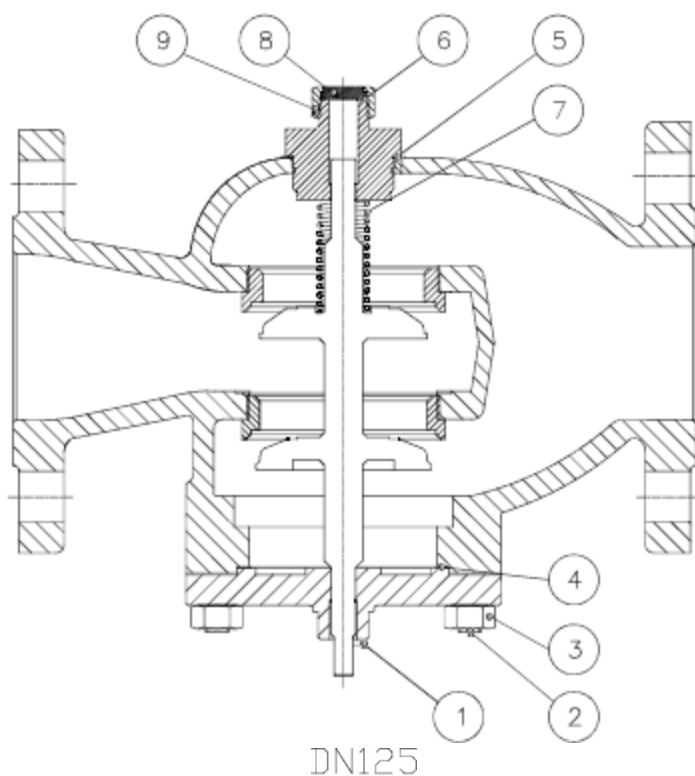
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	100 M2F	1-2992359
	1 to 7	150 M2F	1-2991066
Trim set	Pos.	Valve	Item No.
components pos.	1 to 10	100 M2F	1-2992360
	1 to 10	150 M2F	1-2991065

M2F SPARE PARTS

2-way Control Valves

Cast iron, PN 16, DN 125 mm

S-2.3.05.1-A



Pos.	Component
1	Gasket
2	Stud bolt
3	Nut
4	Gasket
5	Gasket
6	Gasket
7	Spring
8	Disc
9	Nut

Order Information:

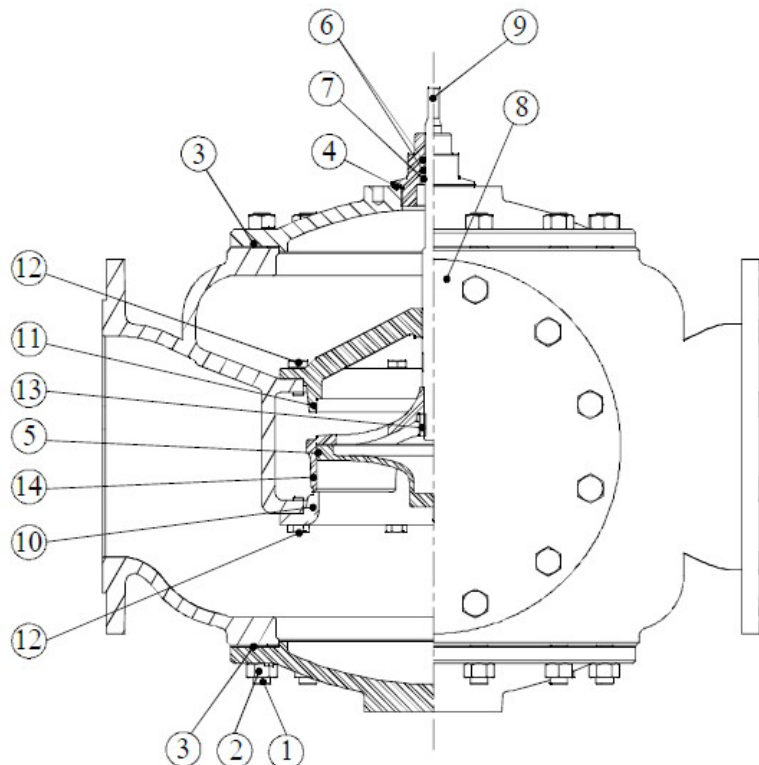
Packing set	Pos.	Valve	Item No.
components pos.	1 to 6	125 M2F	1-2992361
Trim set	Pos.	Valve	Item No.
components pos.	1 to 9	125 M2F	1-2992362

M2FA SPARE PARTS

2-way Control Valves

Cast iron, PN 10, DN 200 mm / PN 6, DN 250-300 mm

S-2.3.05.02-A



Pos.	Component
------	-----------

1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-Ring
8	Gasket
9	Spindle
10	Lower seat
11	Upper seat
12	Screw
13	Nut
14	Cone

Order Information:

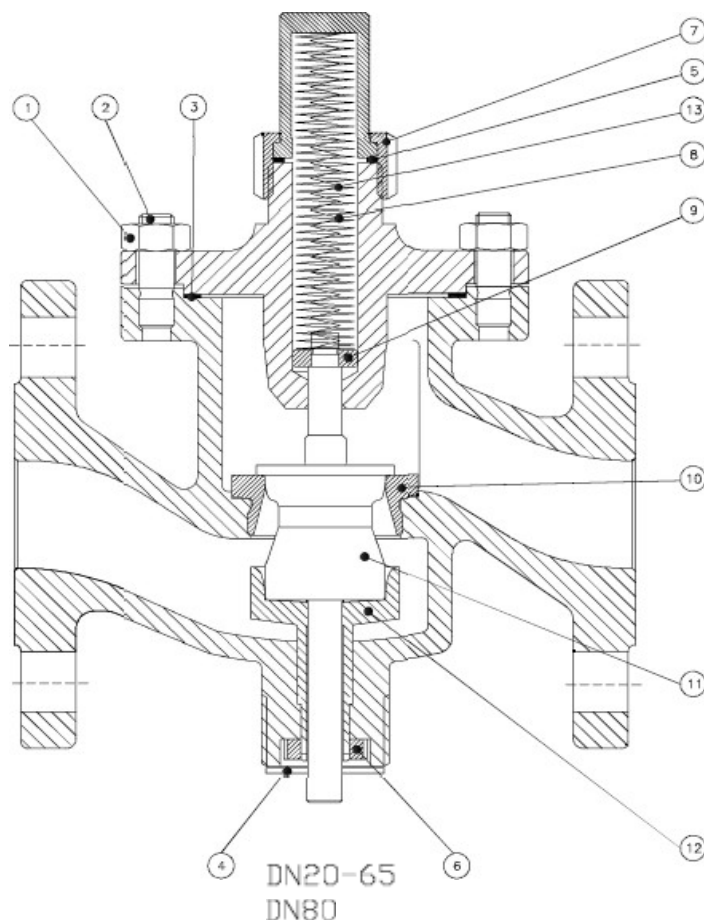
Packing set	Pos.	Valve	Item No.
components pos.	1 to 8	200 M2FA	1-2992750
	1 to 8	250 M2FA	1-2992752
	1 to 8	300 M2FA	1-2992754
Trim set	Pos.	Valve	Item No.
components pos.	1 to 14	200 M2FA	1-2992751
	1 to 14	250 M2FA	1-2992753
	1 to 14	300 M2FA	1-2992755

M2FR SPARE PARTS

2-way Control Valves

Cast iron, PN 16, DN 20-80 mm, 2 seats, Reverse acting

S-2.3.06-A



Pos.	Component
1	Nut
2	Stud bolt
3	Gasket
4	Gasket
5	Gasket
6	Nut
7	Nut
8	Spring
9	Disc
10	Cone
11	Seat
12	Lower seat
13	Spring

Order Information:

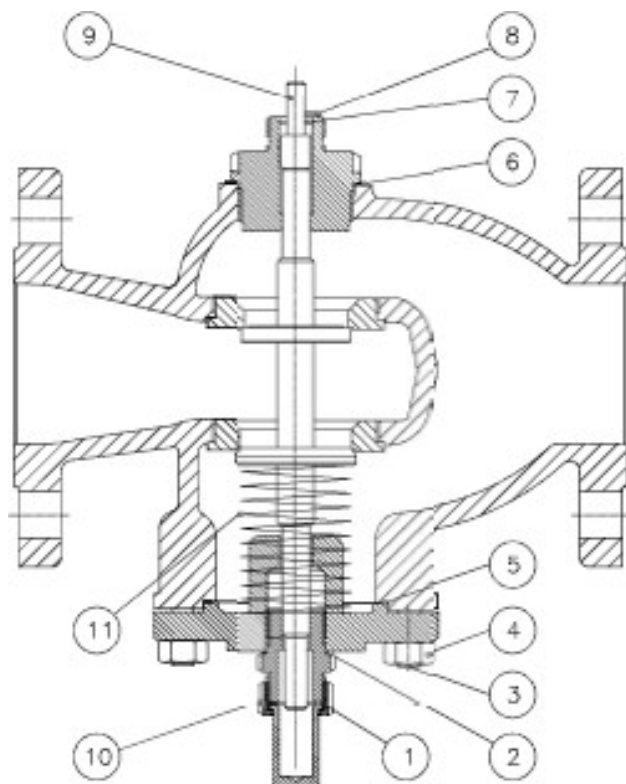
Packing set	Pos.	Valve	Item No.	Trim set	Pos.	Valve	Item No.
components pos.	1 to 5	20 M2FR	1-2991345	components pos.	1 to 12	20 M2FR	1-2990806
	1 to 5	25 M2FR	1-2991349		1 to 12	25 M2FR	1-2990808
	1 to 5	32 M2FR	1-2991352		1 to 12	32 M2FR	1-2990810
	1 to 5	40 M2FR	1-2991355		1 to 12	40 M2FR	1-2990938
	1 to 5	50 M2FR	1-2991360		1 to 12	50 M2FR	1-2990911
	1 to 5	65 M2FR	1-2991363		1 to 13	65 M2FR	1-2991427
	1 to 5	80 M2FR	1-2991367		1 to 13	80 M2FR	1-2991429

M2FR SPARE PARTS

2-way Control Valves

Cast iron, PN 16, DN 100-150 mm, Reverse acting

S-2.3.07-A



DN100 and 150

Pos.	Component
1	Gasket
2	Gasket
3	Stud bolt
4	Nut
5	Gasket
6	Gasket
7	Locking ring
8	Gasket
9	Cone Shaft
10	Nut
11	Spring

Order Information:

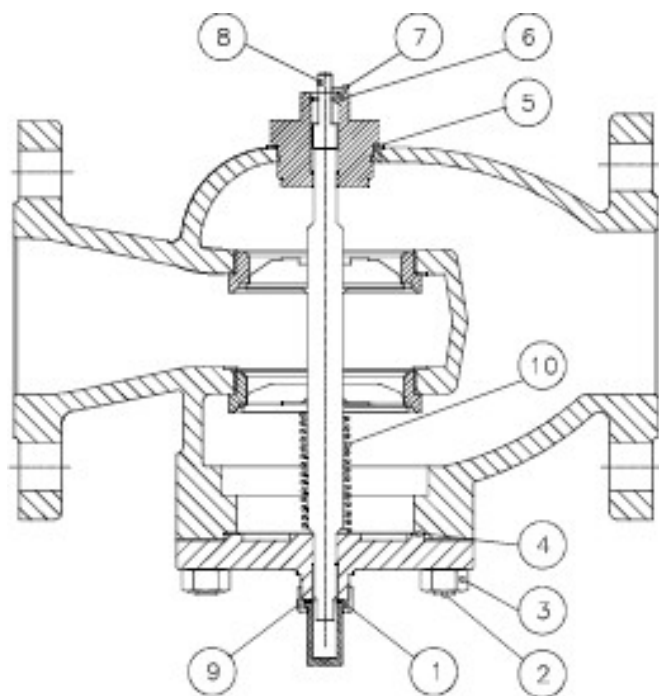
Packing set	Pos.	Valve	Item No.
components pos.	1 to 8	100 M2FR	1-2991901
	1 to 8	150 M2FR	1-2991905
Trim set	Pos.	Valve	Item No.
components pos.	1 to 11	100 M2FR	1-2991902
	1 to 11	150 M2FR	1-2991906

M2FR SPARE PARTS

2-way Control Valves

Cast iron, PN 16, DN 125 mm, Reverse acting

S-2.3.07.01-A



DN125

Pos.	Component
------	-----------

1	Gasket
2	Stud bolt
3	Nut
4	Gasket
5	Gasket
6	Locking ring
7	Gasket
8	Cone shaft
9	Nut
10	Spring

Order Information:

Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	125 M2FR	1-2991903

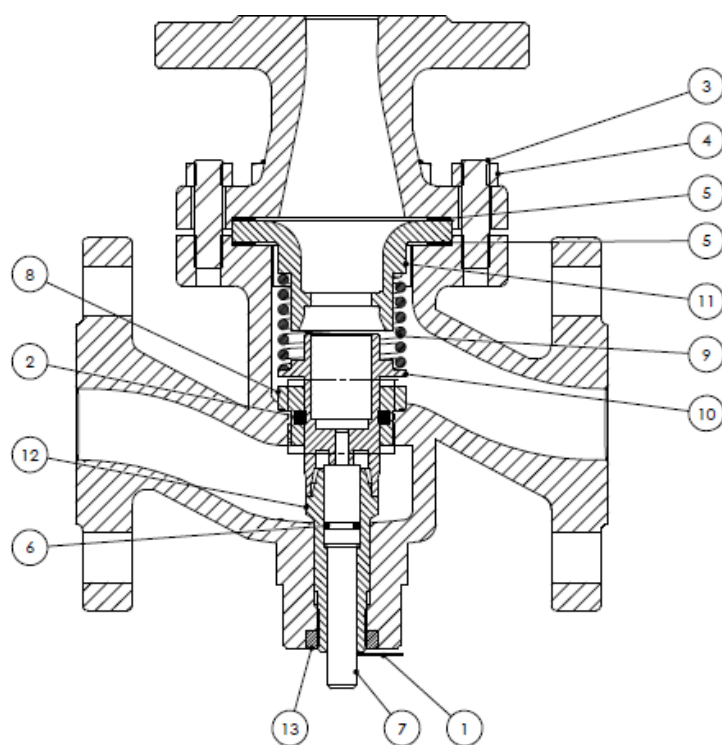
Trim set	Pos.	Valve	Item No.
components pos.	1 to 10	125 M2FR	1-2991904

M3F SPARE PARTS

3-way Control Valves

Cast iron, PN 16, DN 20-65 mm, Flanged ends

S-2.3.08-A



DN20 - 65

Pos.	Component
1	Gasket
2	O-ring
3	Stud bolt
4	Nut
5	Gasket
6	O-ring
7	Spindel
8	Seat seal
9	Spring
10	Cone
11	Seat
12	Lower seat
13	Locknut

Order Information:

Packing set	Pos.	Valve	Item No.	Trim set	Pos.	Valve	Item No.
components pos.	1 to 6	20 M3F	1-2990731	components pos.	1 to 13	20 M3F	1-2990766
	1 to 6	25 M3F	1-2990732		1 to 13	25 M3F	1-2990767
	1 to 6	32 M3F	1-2990733		1 to 13	32 M3F	1-2990768
	1 to 6	40 M3F	1-2990734		1 to 13	40 M3F	1-2990769
	1 to 6	50 M3F	1-2990735		1 to 13	50 M3F	1-2990770
	1 to 6	65 M3F	1-2990736		1 to 13	65 M3F	1-2990771

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E-mail: mail@cloriuscontrols.com

Web: www.cloriuscontrols.com

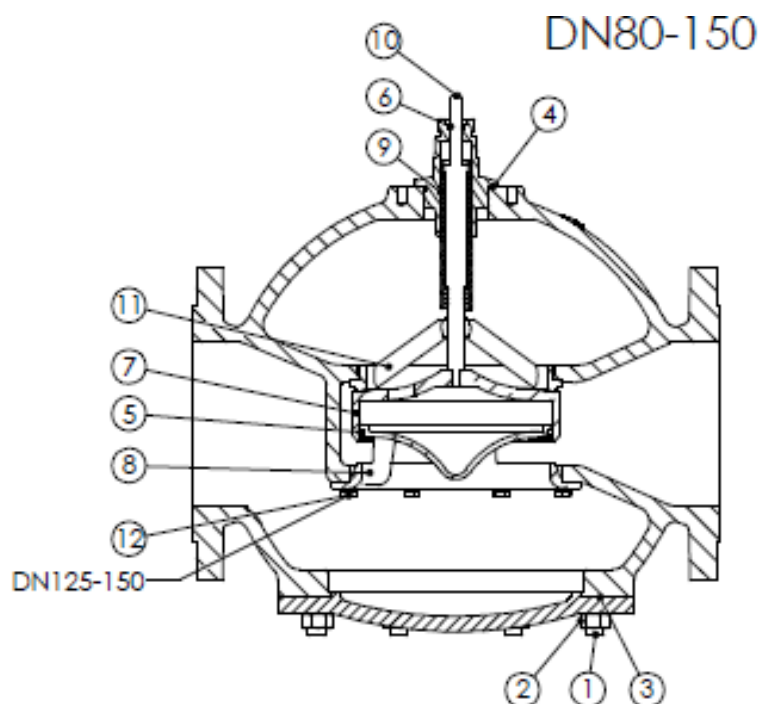
Clorius
CONTROLS

M3F SPARE PARTS

3-way Control Valves

Cast iron, PN 10, DN 80-150 mm

S-2.3.09-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	Cone
8	Lower seat
9	Spring
10	Spindle
11	Upper seat
12	Screw

Order Information:

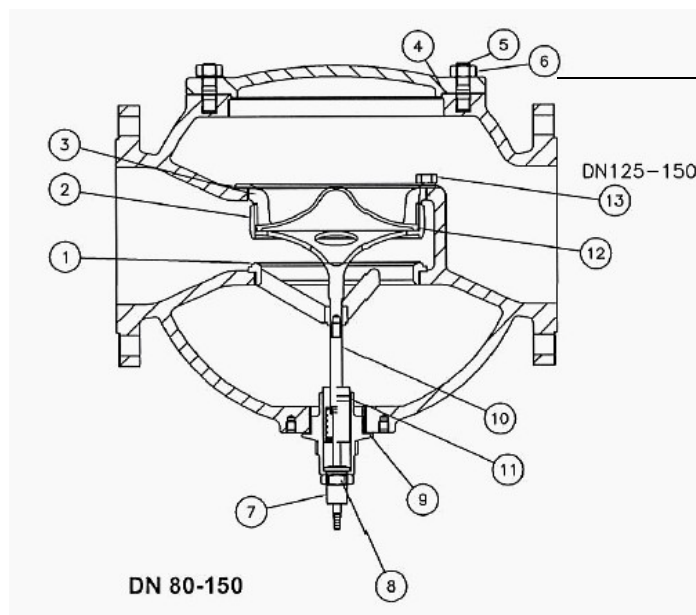
Packing set	Pos.	Valve	Item No.
components pos.	1 to 6	80 M3F	1-2991620
	1 to 6	100 M3F	1-2991623
	1 to 6	125 M3F	1-2991627
	1 to 6	150 M3F	1-2991632
Trim set	Pos.	Valve	Item No.
components pos.	1 to 11	80 M3F	1-2991640
	1 to 11	100 M3F	1-2991643
	1 to 12	125 M3F	1-2991645
	1 to 12	150 M3F	1-2991649

M3FM SPARE PARTS

S-2.3.10-A

3-way Control Valves

Cast iron, PN 10, DN 80 -150 & PN16, DN 200/175 and 200mm



Pos.	Component
1	Upper seat
2	Cone
3	Lower seat
4	Gasket
5	Stud bolt
6	Nut
7	Packbox
8	Nut
9	Gasket
10	Spindle
11	Pin
12	Gasket
13	Screw

Order Information:

Packing set	Pos.	Valve	Item No.
components pos.	4 to 7;9;12	80 M3FM	1-2991482
	4 to 7;9;12	100 M3FM	1-2991485
	4 to 7;9;12	125 M3FM	1-2991487
	4 to 7;9;12	150 M3FM	1-2991492
	4 to 7;9;12	200/175 M3FM	1-2991495
	4 to 7;9;12	200 M3FM	1-2991495

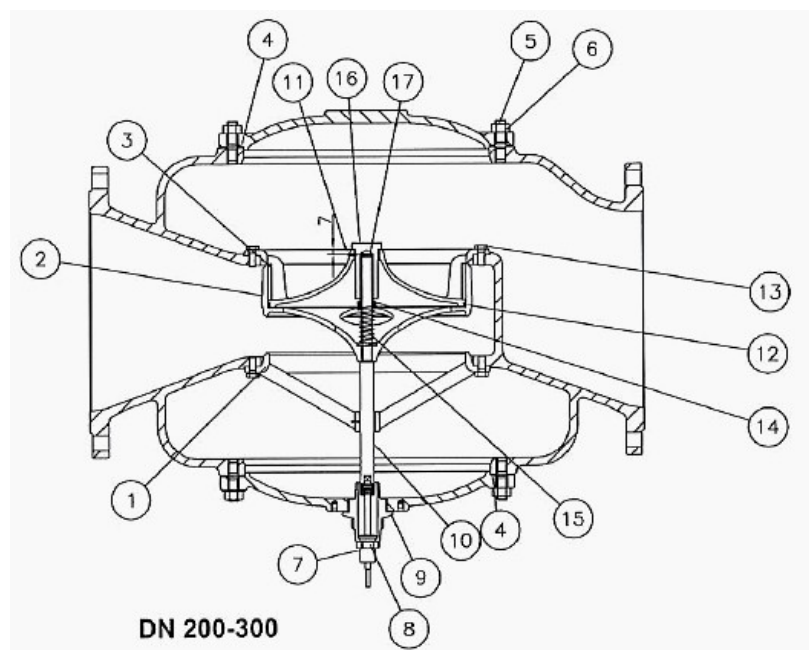
Trim set	Pos.	Valve	Item No.
components pos.	1 to 12	80 M3FM	1-2991505
	1 to 12	100 M3FM	1-2991508
	1 to 13	125 M3FM	1-2991602
	1 to 13	150 M3FM	1-2991607
	1 to 17	200/175 M3FM	1-2991609
	1 to 17	200 M3FM	1-2991610

M3FM SPARE PARTS

3-way Control Valves

Cast iron, PN 16, DN 300/250 - 300mm

S-2.3.10.01-A



Pos.	Component
1	Upper seat
2	Cone
3	Lower seat
4	Gasket
5	Stud bolt
6	Nut
7	Packbox
8	Nut
9	Gasket
10	Spindle
11	Pin
12	Gasket
13	Screw
14	Guide bushing
15	Spring
16	Screw connection
17	Spring washer

Order Information:

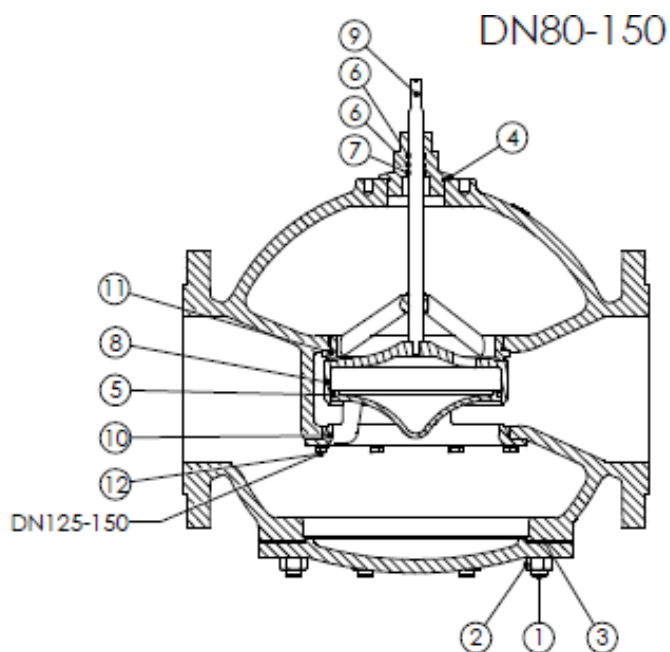
Packing set	Pos.	Valve	Item No.
components pos.	4 to 7;9;12	300/250 M3FM	1-2991499
	4 to 7;9;12	300 M3FM	1-2991499
Trim set	Pos.	Valve	Item No.
components pos.	1 to 17	300/250 M3FM	1-2991612
	1 to 17	300 M3FM	1-2991615

M3FA SPARE PARTS

3-way Control Valve

Cast iron, PN 10, DN 80 - 150mm

S-2.3.10.02-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-ring
8	Cone
9	Spindle
10	Lower seat
11	Upper seat
12	Screw
13	Nut

Order Information:

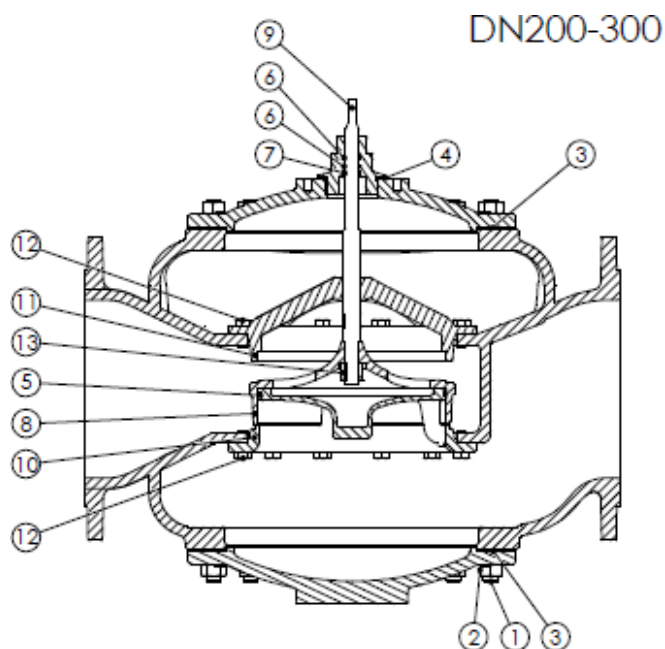
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	80 M3FA	1-2992701
	1 to 7	100 M3FA	1-2992703
	1 to 7	125 M3FA	1-2992705
	1 to 7	150 M3FA	1-2992707
Trim set	Pos.	Valve	Item No.
components pos.	1 to 11	80 M3FA	1-2992700
	1 to 11	100 M3FA	1-2992702
	1 to 12	125 M3FA	1-2992704
	1 to 12	150 M3FA	1-2992706

M3FA SPARE PARTS

3-way Control Valves

Cast iron, PN 16 -DN 200/175, 200, 250/300, 300 mm

S-2.3.10.03-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-Ring
8	Cone
9	Spindle
10	Lower seat
11	Upper seat
12	Screw
13	Nut

Order Information:

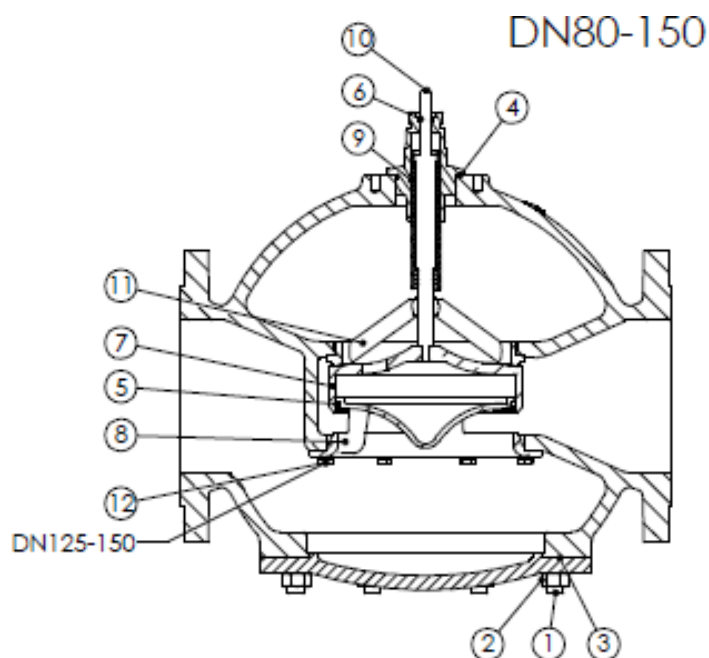
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	200/175 M3FA	1-2992709
	1 to 7	200 M3FA	1-2992711
	1 to 7	250/300 M3FA	1-2992713
	1 to 7	300 M3FA	1-2992715
Trim set	Pos.	Valve	Item No.
components pos.	1 to 13	200/175 M3FA	1-2992708
	1 to 13	200 M3FA	1-2992710
	1 to 13	250/300 M3FA	1-2992712
	1 to 13	300 M3FA	1-2992714

M3F-I SPARE PARTS

3-way Control Valves

Cast iron, PN 10, DN 80 -150 mm

S-2.3.12-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	Cone
8	Lower seat
9	Spring
10	Spindle
11	Upper seat
12	Screw

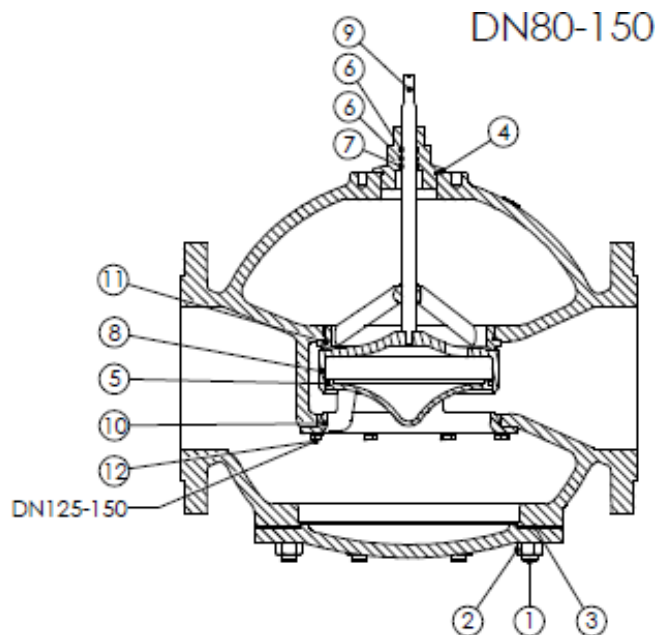
Order Information:

Packing set	Pos.	Valve	Item No.
components pos.	1 to 6	80 M3F-I	1-2991620
	1 to 6	100 M3F-I	1-2991623
	1 to 6	125 M3F-I	1-2991627
	1 to 6	150 M3F-I	1-2991632
Trim set	Pos.	Valve	Item No.
components pos.	1 to 11	80 M3F-I	1-2991640
	1 to 11	100 M3F-I	1-2991643
	1 to 12	125 M3F-I	1-2991645
	1 to 12	150 M3F-I	1-2991649

M3FA-I(Ports A-AB interchanged) **SPARE PARTS**

3-way Control Valves

Cast iron, PN 10, DN 80-150mm

S-2.3.12.02-A

Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-ring
8	Cone
9	Spindle
10	Lower seat
11	Upper seat
12	Screw
13	Nut

Order Information:

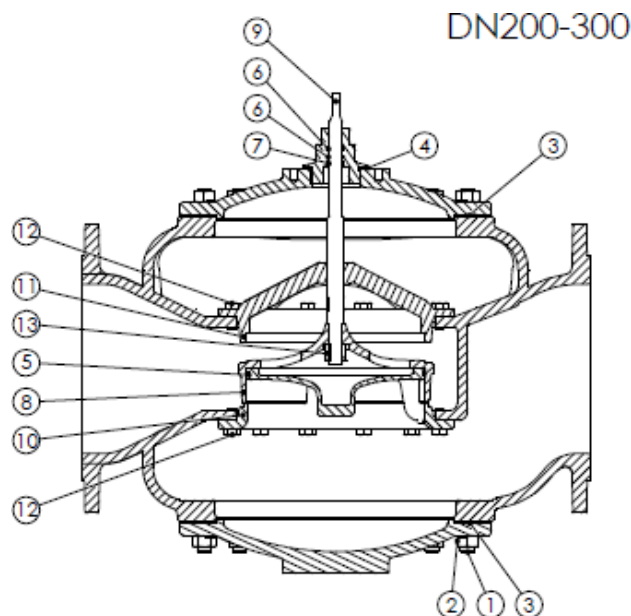
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	80 M3FA-I	1-2992701
	1 to 7	100 M3FA-I	1-2992703
	1 to 7	125 M3FA-I	1-2992705
	1 to 7	150 M3FA-I	1-2992707

Trim set	Pos.	Valve	Item No.
components pos.	1 to 11	80 M3FA-I	1-2992700
	1 to 11	100 M3FA-I	1-2992702
	1 to 12	125 M3FA-I	1-2992704
	1 to 12	150 M3FA-I	1-2992706

M3FA-I(Ports A-AB interchanged) **SPARE PARTS****S-2.3.12.02-A**

3-way Control Valves

Cast iron, PN 16, DN 200/175-200 mm / PN 10, DN 300/250-300 mm



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	O-ring
6	O-ring
7	U-ring
8	Cone
9	Spindle
10	Lower seat
11	Upper seat
12	Screw
13	Nut

Order Information:

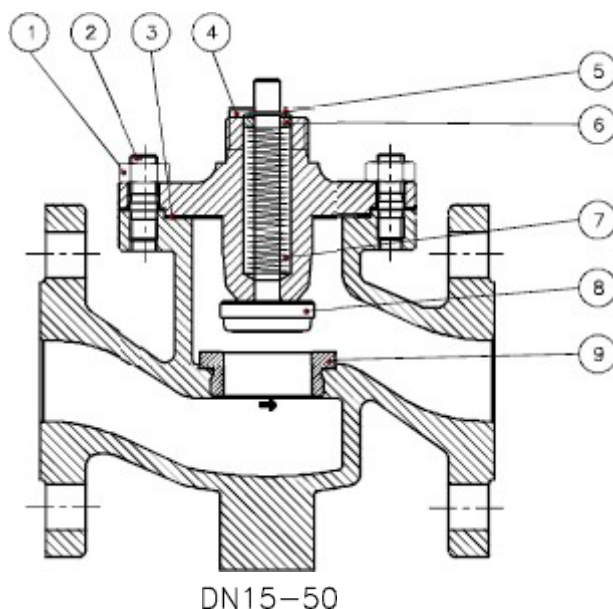
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	200/175 M3FA-I	1-2992709
	1 to 7	200 M3FA-I	1-2992711
	1 to 7	250/300 M3FA-I	1-2992713
	1 to 7	300 M3FA-I	1-2992715
Trim set	Pos.	Valve	Item No.
components pos.	1 to 13	200/175 M3FA-I	1-2992708
	1 to 13	200 M3FA-I	1-2992710
	1 to 13	250/300 M3FA-I	1-2992712
	1 to 13	300 M3FA-I	1-2992714

H1F SPARE PARTS

2-way Control Valves

Cast steel, PN 40, DN 15/4-50 mm

S-2.4.02-A



Pos.	Component
1	Stud bolt
2	Nut
3	Gasket
4	Gasket
5	Spring
6	Disc
7	Locking ring
8	Seat
9	Cone

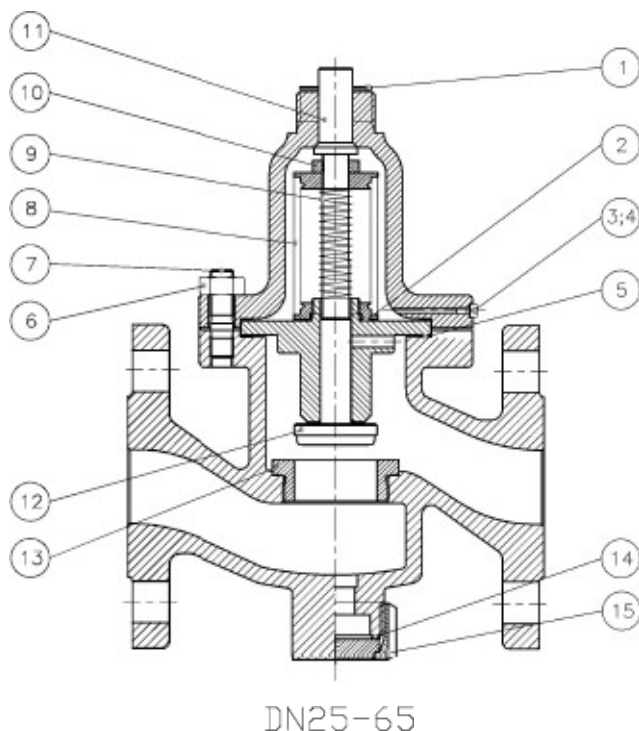
Order Information:

Packing set components pos.	Pos.	Valve	Item No.	Trim set components pos.	Pos.	Valve	Item No.
	1 to 4	15/4-15 H1F	1-2991209		1 to 9	15/4 H1F	1-2991271
	1 to 4	20/9-20 H1F	1-2991217		1 to 9	15/6 H1F	1-2991273
	1 to 4	25/20-25 H1F	1-2991225		1 to 9	15/9 H1F	1-2991275
	1 to 4	32/25-32 H1F	1-2991238		1 to 9	15/12 H1F	1-2991278
	1 to 4	40/32-40 H1F	1-2991249		1 to 9	15 H1F	1-2991281
	1 to 4	50/40-50 H1F	1-2991268		1 to 9	20/9 H1F	1-2991284
					1 to 9	20 H1F	1-2991290
					1 to 9	25 H1F	1-2991299
					1 to 9	32H1F	1-2991314
					1 to 9	40 H1F	1-2991330
					1 to 9	50 H1F	1-2991341

H1FB SPARE PARTS

Balanced 2-way Control Valves
Cast steel, PN 40, DN 25-65 mm

S-2.4.03-A



Pos.	Component
1	Gasket
2	Gasket
3	Washer
4	Nut
5	Gasket
6	Nut
7	Stud bolt
8	Bellows
9	Spring
10	Nut
11	Press button
12	Cone
13	Seat
14	Gasket
15	Screw cap

Order Information:

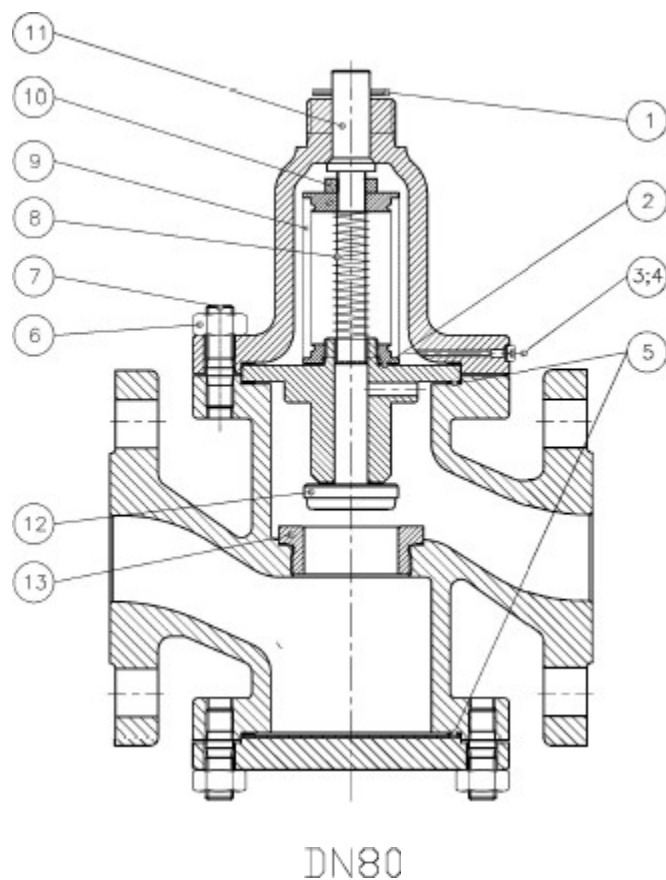
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	25 H1FB	1-2992310
	1 to 7	32 H1FB	1-2992312
	1 to 7	40 H1FB	1-2992315
	1 to 7	50 H1FB	1-2992317
	1 to 7 ;14	65 H1FB	1-2992319

Trim set	Pos.	Valve	Item No.
components pos.	1 to 13	25 H1FB	1-2992327
	1 to 13	32 H1FB	1-2992329
	1 to 13	40 H1FB	1-2992331
	1 to 13	50 H1FB	1-2992332
	1 to 15	65 H1FB	1-2992333

H1FB SPARE PARTS

Balanced 2-way Control Valves
Cast steel, PN 40, DN 80 mm

S-2.4.03.01-A



Pos.	Component
------	-----------

1	Gasket
2	Gasket
3	Washer
4	Nut
5	Gasket
6	Nut
7	Stud bolt
8	Bellow
9	Spring
10	Nut
11	Press button
12	Cone
13	Seat
14	Gasket
15	Screw cap

Order Information:

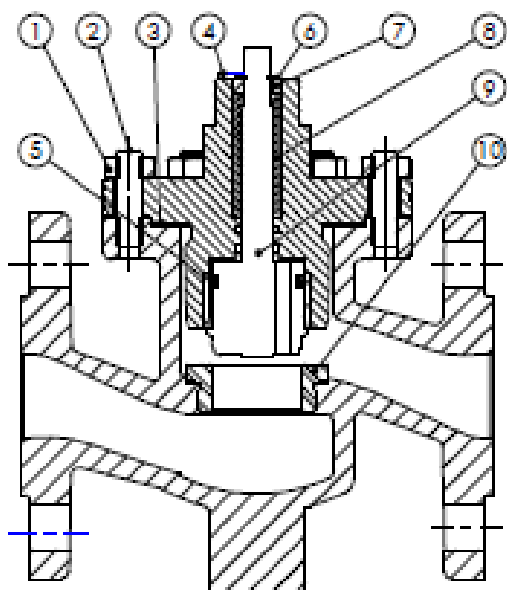
Packing set	Pos.	Valve	Item No.
components pos.	1 to 7	80 H1FB	1-2992323

Trim set	Pos.	Valve	No.
components pos.	1 to 13	80 H1FB	1-2992334

H1FBN SPARE PARTS

Balanced 2-way Control Valves
Cast steel, PN 40, DN 15-80 mm

S-2.4.03.01-A



DN15-80

Pos.	Component
1	Nut
2	Stud bolt
3	Gasket
4	Gasket
5	O-ring
6	Locking ring
7	Disc
8	Spring
9	Cone
10	Lower seat

Order Information:

Packing set	Pos.	Valve	Item No.	Trim set	Pos.	Valve	Item No.
components pos.	1 to 5	15 H1FBN	1-2992335	components pos.	1 to 10	15 H1FBN	1-2992345
	1 to 5	20 H1FBN	1-2992336		1 to 10	20 H1FBN	1-2992346
	1 to 5	25 H1FBN	1-2992337		1 to 10	25 H1FBN	1-2992347
	1 to 5	32 H1FBN	1-2992338		1 to 10	32 H1FBN	1-2992348
	1 to 5	40 H1FBN	1-2992339		1 to 10	40 H1FBN	1-2992349
	1 to 5	50 H1FBN	1-2992340		1 to 10	50 H1FBN	1-2992350
	1 to 5	65 H1FBN	1-2992341		1 to 10	65 H1FBN	1-2992351
	1 to 5	80 H1FBN	1-2992342		1 to 10	80 H1FBN	1-2992352