

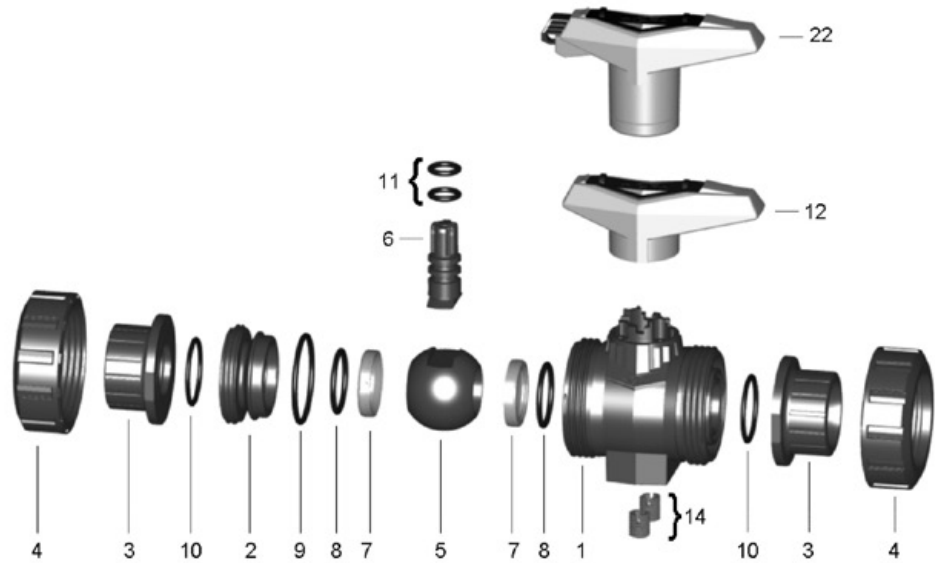
Manual & Actuated Valves

Spare Parts

Issue 1



Spare parts for ball valve type 546 PVC-U (DN10/15-50)



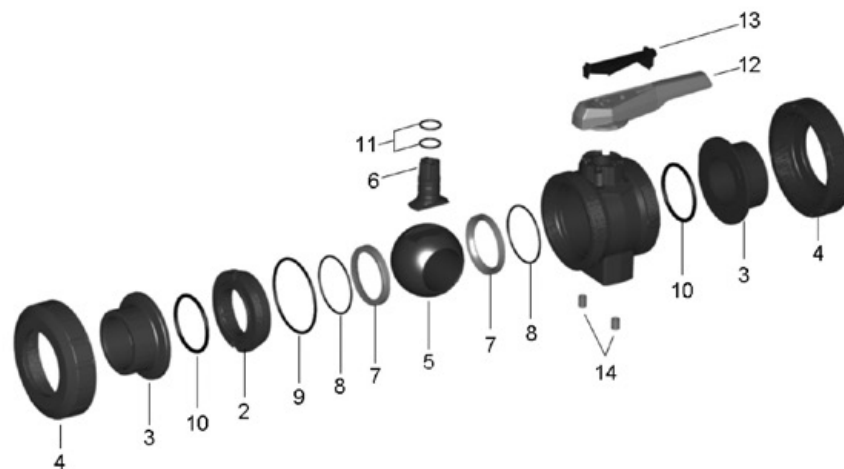
No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
1	Central part Body PVC-U	1	161 486 151	161 486 151	161 486 152	161 486 153	161 486 154	161 486 155	161 486 156
2	Union bush PVC-U	1							
5	Ball PVC-U	1							
6	Stem PVC-U	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
12	Lever PP red	1							
14	Threaded bush Stainless steel	2							
1	Central part Body PVC-U	1	161 486 163	161 486 163	161 486 164	161 486 165	161 486 166	161 486 167	161 486 168
2	Union bush PVC-U	1							
5	Ball PVC-U	1							
6	Stem PVC-U	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
12	Lever PP red	1							
14	Threaded bush Stainless steel	2							

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Ball set		161 486 375	161 486 375	161 486 376	161 486 377	161 486 378	161 486 379	161 486 380
5	Ball PVC-U	1							
6	Stem EPDM	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
11	Stem seal EPDM	2							
	Ball set		161 486 385	161 486 385	161 486 386	161 486 387	161 486 388	161 486 389	161 486 390
5	Ball PVC-U	1							
6	Stem FPM	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
11	Stem seal FPM	2							
	Seal set		161 486 400	161 486 400	161 486 401	161 486 402	161 486 403	161 486 404	161 486 405
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
	Seal set		161 486 410	161 486 410	161 486 411	161 486 412	161 486 413	161 486 414	161 486 415
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
3	Connecting piece 546 PVC-U (G01) with solvent cement socket metric	1	161 490 666	161 490 667	161 490 668	161 490 669	161 490 670	161 490 671	161 490 672
3	Connecting piece 546 PVC-U (G03) with solvent cement socket Inch ASTM	1	161 490 712	161 490 713	161 490 714	161 490 715	161 490 716	161 490 717	161 490 718
3	Connecting piece 546 PVC-U (G04) with solvent cement socket Inch BS	1	161 490 734	161 490 735	161 490 736	161 490 737	161 490 738	161 490 739	161 490 740
3	Connecting piece 546 PVC-U (G05) with solvent cement spigot metric	1	161 490 701	161 490 702	161 490 703	161 490 704	161 490 705	161 490 706	161 490 707
3	Connecting piece 546 PVC-U (G06) with threaded socket Rp	1	161 490 690	161 490 691	161 490 692	161 490 693	161 490 694	161 490 695	161 490 696
3	Connecting piece 546 PVC-U (G07) with threaded socket Rp fortified	1	161 490 825	161 490 826	161 490 827	161 490 828	161 490 829	161 490 830	161 490 831

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
3	Connecting piece 546 PVC-U (G08) with threaded socket NPT	1	161 490 723	161 490 724	161 490 725	161 490 726	161 490 727	161 490 728	161 490 729
3	Connecting piece 546 PP-H (G30) with fusion socket metric	1	167 482 900	167 482 901	167 482 902	167 482 903	167 482 904	167 482 905	167 482 906
3	Connecting piece 546 PP-H (G32) with socket fusion spigot metric	1	167 482 922	167 482 923	167 482 924	167 482 925	167 482 926	167 482 927	167 482 928
3	Connecting piece 546 PP-H (G33) with threaded socket Rp fortified	1	167 482 911	167 482 912	167 482 913	167 482 914	167 482 915	167 482 916	167 482 917
3	Connecting piece 546 PP-H (G34) with threaded socket NPT fortified	1	167 480 966	167 482 967	167 482 968	167 482 969	167 482 970	167 482 971	167 482 972
3	Connecting piece 546 PP-H (G35) with butt fusion spigot IR Plus® SDR11 metric	1	-	167 482 945	167 482 946	167 482 947	167 482 948	167 482 749	167 482 950
3	Connecting piece 546 PP-H (G36) with butt fusion spigot SDR17,6 metric	1	-	-	-	-	167 482 937	167 482 938	167 482 939
3	Connecting piece 546 PP-H (G37) with butt fusion spigot long SDR11 metric	1	-	167 482 956	167 482 957	167 482 958	167 482 959	167 482 960	167 482 961
3	Connecting piece 546 PE 100 (G40) with fusion socket metric	1	193 480 175	193 480 176	193 480 177	193 480 178	193 480 179	193 480 180	193 480 181
3	Connecting piece 546 PE 100 (G41) with butt fusion spigot SDR11 metric	1	-	193 480 102	193 480 103	193 480 104	193 480 105	193 480 106	193 480 107
3	Connecting piece 546 PE 100 (G42) with butt fusion spigot SDR17,6 metric	1	-	-	-	-	193 480 086	193 480 087	193 480 088
3	Connecting piece 546 PE 100 (G43) with butt fusion spigot long SDR11 metric	1	-	193 480 152	193 480 153	193 480 154	193 480 155	193 480 156	193 480 157
3	Connecting piece 546 PVC-U (G60) subassembly with fixed flange serrated PVC-U metric	1	-	161 486 360	161 486 361	161 483 362	161 486 363	161 486 364	161 486 365

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
3	Connecting piece 546 PVC-U (G61) subassembly with fixed flange flat PVC-U metric	1	-	161 486 295	161 486 296	161 486 297	161 486 298	161 486 299	161 486 300
3	Connecting piece 546 PVC-U (G70) subassembly with backing flange PVC-U Inch ANSI	1	-	161 486 265	161 486 266	161 486 267	161 486 268	161 486 269	161 486 270
3	Connecting piece 546 PVC-U (G71) subassembly with backing flange PVC-U Inch ANSI	1	-	161 486 275	161 486 276	161 486 277	161 486 278	161 486 279	161 486 280
3	Connecting piece 546 PVC-U (G72) subassembly with backing flange PP-ST metric	1	-	161 486 285	161 486 286	161 486 287	161 486 288	161 486 289	161 486 290
3	Connecting piece 546 PVC-U (G73) subassembly with backing flange PP-ST ANSI	1	-	161 486 425	161 486 426	161 486 427	161 486 428	161 486 429	161 486 430
3	Connecting piece blank 546 PVC-U (G80)	1	161 490 837	161 490 837	161 490 838	161 490 839	161 490 839	161 490 840	161 490 841
4	Union nut PVC-U	1	161 490 538	161 490 538	161 490 539	161 490 540	161 490 541	161 490 542	161 490 543
12	Standard handle 546 red (K01)	1	167 484 088	167 484 088	167 484 089	167 484 090	167 484 091	167 484 092	167 484 093
12	Standard handle 546 black (K02)	1	167 484 076	167 484 076	167 484 077	167 484 078	167 484 079	161 484 080	167 484 081
22	Multifunction handle 546 red (K11) with ratchet settings lockable	1	167 484 100	167 484 100	167 484 101	167 484 102	167 484 103	167 484 104	167 484 105
10	Face seal EPDM	1	748 410 059	748 410 059	748 410 106	748 410 151	748 410 062	748 410 003	748 410 231
10	Face seal FPM	1	749 410 059	749 410 059	749 410 106	749 410 151	749 410 062	749 410 003	749 410 231

Spare parts for ball valve type 546 PVC-U (DN65-100)

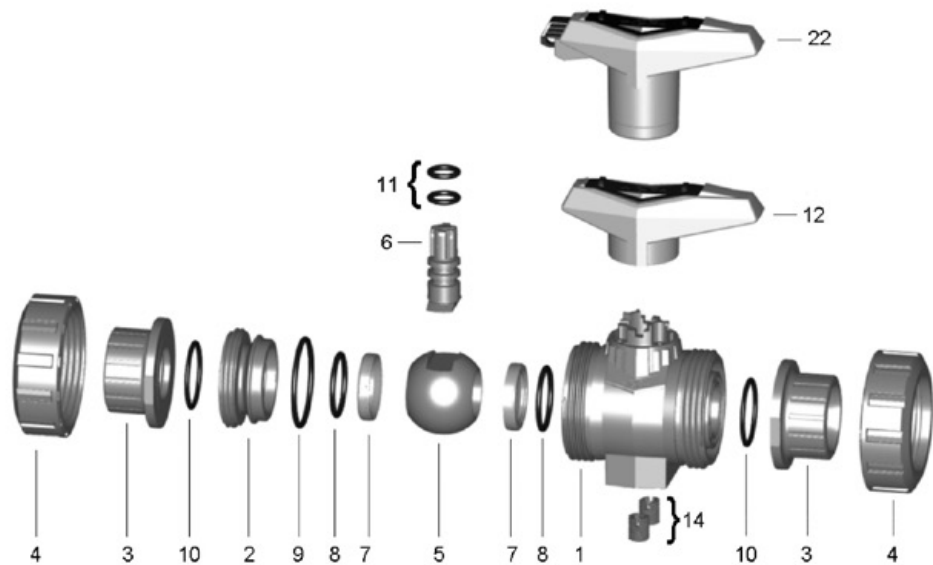


No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
	Central part		161 486 157	161 486 158	161 486 159
1	Body PVC-U	1			
2	Union bush PVC-U	1			
5	Ball PVC-U	1			
6	Stem PVC-U	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
12	Lever PP red	1			
13	handle clip	1			
14	Threaded bush Stainless steel	2			
	Central part		161 486 169	161 486 170	161 486 171
1	Body PVC-U	1			
2	Union bush PVC-U	1			
5	Ball PVC-U	1			
6	Stem PVC-U	1			
7	Ball seal PTFE	2			
8	Backing seal FPM	2			
9	Body seal FPM	1			
10	Face seal FPM	2			
11	Stem seal FPM	2			
12	Lever PP red	1			
13	handle clip	1			
14	Threaded bush Stainless steel	2			

No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
	Ball set		161 486 381	161 486 382	161 486 383
5	Ball PVC-U	1			
6	Stem EPDM	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
11	Stem seal EPDM	2			
	Ball set		161 486 391	161 486 392	161 486 393
5	Ball PVC-U	1			
6	Stem FPM	1			
7	Ball seal PTFE	2			
8	Backing seal FPM	2			
9	Body seal FPM	1			
11	Stem seal FPM	2			
	Seal set		161 486 406	161 486 407	161 486 408
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
	Seal set		161 486 416	161 486 417	161 486 418
8	Backing seal FPM	2			
9	Body seal FPM	1			
10	Face seal FPM	2			
11	Stem seal FPM	2			
3	Connecting piece 546 PVC-U (G01) with solvent cement socket metric	1	161 490 673	161 490 674	161 490 675
3	Connecting piece 546 PVC-U (G02) with solvent cement socket JIS	1	161 490 751	161 490 752	161 490 753
3	Connecting piece 546 PVC-U (G03) with solvent cement socket Inch ASTM	1	161 490 719	161 490 720	161 490 721
3	Connecting piece 546 PVC-U (G04) with solvent cement socket Inch BS	1	161 490 673	161 490 742	161 490 743
3	Connecting piece 546 PVC-U (G05) with solvent cement spigot metric	1	161 490 708	161 490 709	161 490 710
3	Connecting piece 546 PVC-U (G06) with threaded socket Rp	1	161 490 697	161 490 698	161 490 699

No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
3	Connecting piece 546 PVC-U (G08) with threaded socket NPT	1	161 490 761	161 490 762	161 490 763
3	Connecting piece 546 PVC-U (G09) with threaded socket NPT	1	161 490 730	161 490 731	161 490 732
3	Connecting piece 546 PE 100 (G43) with butt fusion spigot long SDR11 metric	1	193 480 158	193 480 159	193 480 160
3	Connecting piece 546 PE 100 (G44) with butt fusion spigot long SDR17,6 metric	1	163 480 168	163 480 169	163 480 170
3	Connecting piece 546 PVC-U (G70) subassembly with backing flange PVC-U ISO BS	1	161 486 271	161 486 272	161 486 273
3	Connecting piece 546 PVC-U (G71) subassembly with backing flange PVC-U Inch ANSI	1	161 486 281	161 486 282	161 486 283
3	Connecting piece 546 PP (G72) subassembly with backing flange PP-ST ISO BS	1	161 486 291	161 486 292	161 486 293
3	Connecting piece 546 PP (G73) subassembly with backing flange PP-ST ANSI	1	161 486 431	161 486 432	161 486 433
3	Connecting piece 546 PVC-U (G78) subassembly with backing flange JIS	1	161 486 201	161 486 202	161 486 203
4	Union nut PVC-U	1	161 490 544	161 490 545	161 490 546
10	Face seal EPDM	1	748 410 119	748 410 023	748 410 254
10	Face seal FPM	1	749 410 119	749 410 023	749 410 254
12	Standard handle 546 red (K01)	1	167 484 094	167 484 095	167 484 096
12	Standard handle 546 black (K02)	1	167 484 082	167 484 083	167 484 084

Spare parts for ball valve type 546 PVC-C (DN10/15-50)

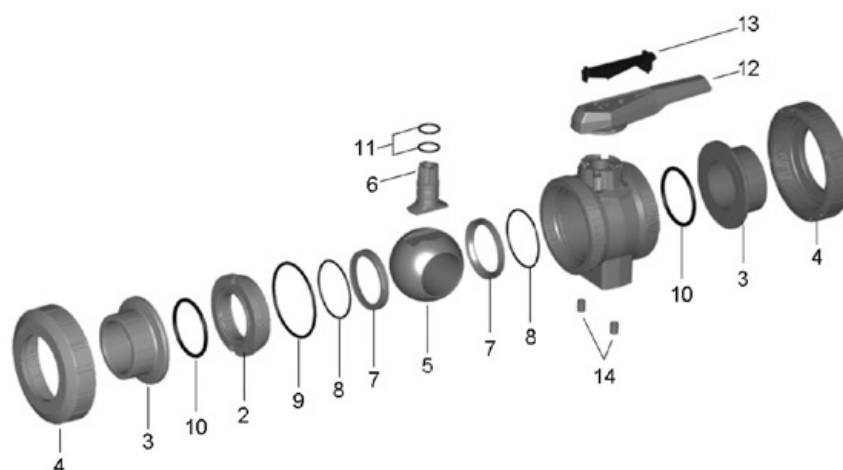


No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Central part		163 481 251	163 481 251	163 481 252	163 481 253	163 481 254	163 480 255	163 481 256
1	Body PVC-C	1							
2	Union bush PVC-C	1							
5	Ball PVC-C	1							
6	Stem PVC-C	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
12	Lever PP red	1							
14	Threaded bush Stainless steel	2							
	Central part		163 481 263	163 481 263	163 481 264	163 481 265	163 481 266	163 481 267	163 481 268
1	Body PVC-C	1							
2	Union bush PVC-C	1							
5	Ball PVC-C	1							
6	Stem PVC-C	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
12	Lever PP red	1							
14	Threaded bush Stainless steel	2							

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Ball set		163 481 375	163 481 375	163 481 376	163 481 377	163 481 378	163 481 379	163 481 380
5	Ball PVC-C	1							
6	Stem PVC-C	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
11	Stem seal EPDM	2							
	Ball set		163 481 385	163 481 385	163 481 386	163 481 387	163 481 388	163 481 389	163 481 390
5	Ball PVC-C	1							
6	Stem PVC-C	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
11	Stem seal FPM	2							
	Seal set		161 486 400	161 486 400	161 486 401	161 486 402	161 486 403	161 486 404	161 486 405
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
	Seal set		161 486 410	161 486 410	161 486 411	161 486 412	161 486 413	161 486 414	161 486 415
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
3	Connecting piece 546 PVC-C (G11) with solvent cement socket metric	1	163 481 275	163 481 276	163 481 277	163 481 278	163 481 279	163 481 280	163 481 281
3	Connecting piece 546 PVC-C (G13) with solvent cement socket Inch ASTM	1	163 481 311	163 481 312	163 481 313	163 481 314	163 481 315	163 481 316	163 481 317
3	Connecting piece 546 PVC-C (G14) with solvent cement spigot metric	1	163 481 300	163 481 301	163 481 302	163 481 303	163 481 304	163 481 305	163 481 306
3	Connecting piece 546 PVC-C (G15) with threaded socket Rp	1	163 481 286	163 481 287	163 481 288	163 481 289	163 481 290	163 481 291	163 481 292
3	Connecting piece 546 PVC-C (G16) with threaded socket Rp fortified	1	163 481 400	163 481 401	163 481 402	163 481 403	163 481 404	163 481 405	163 481 406
3	Connecting piece 546 PVC-C (G17) with threaded socket NPT	1	163 481 322	163 481 323	163 481 324	163 481 325	163 481 326	163 481 327	163 481 328

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
3	Connecting piece 546 PE 100 (G40) with fusion socket metric	1	193 480 175	193 480 176	193 480 177	193 480 178	193 480 179	193 480 180	193 480 181
3	Connecting piece 546 PE 100 (G41) with butt fusion spigot SDR11 metric	1	-	193 480 102	193 480 103	193 480 104	193 480 105	193 480 106	193 480 107
3	Connecting piece 546 PE 100	1	-	-	-	-	193 480 086	193 480 087	193 480 088
3	Connecting piece 546 PE 100 (G43) with butt fusion spigot long SDR11 metric	1	-	193 480 152	193 480 153	193 480 154	193 480 155	193 480 156	193 480 157
3	Connecting piece 546 PE 100 (G72) subassembly with backing flange PP-ST metric	1	-	163 481 412	163 481 413	163 481 414	163 481 415	163 481 416	163 481 417
3	Connecting piece blank 546 PVC-U (G80)	1	161 490 837	161 490 837	161 490 838	161 490 839	161 490 840	161 490 841	161 490 842
4	Union nut PVC-C	1	163 481 226	163 481 226	163 481 227	163 481 228	163 481 229	163 481 230	1634812231
12	Standard handle 546 red (K01)	1	167 484 088	167 484 088	167 484 089	167 484 090	167 484 091	167 484 092	167 484 093
12	Standard handle 546 black (K02)	1	167 484 076	167 484 076	167 484 077	167 484 078	167 484 079	167 484 080	167 484 081
22	Multifunction handle 546 red (K11) with ratchet settings lockable	1	167 484 100	167 484 100	167 484 101	167 484 102	167 484 103	167 484 104	167 484 105
10	Face seal EPDM	1	748 410 059	748 410 059	748 410 106	748 410 159	748 410 062	748 410 003	748 410 231
10	Face seal FPM	1	749 410 059	749 410 059	749 410 106	749 410 159	749 410 062	749 410 003	749 410 231

Spare parts for ball valve type 546 PVC-C (DN65-100)

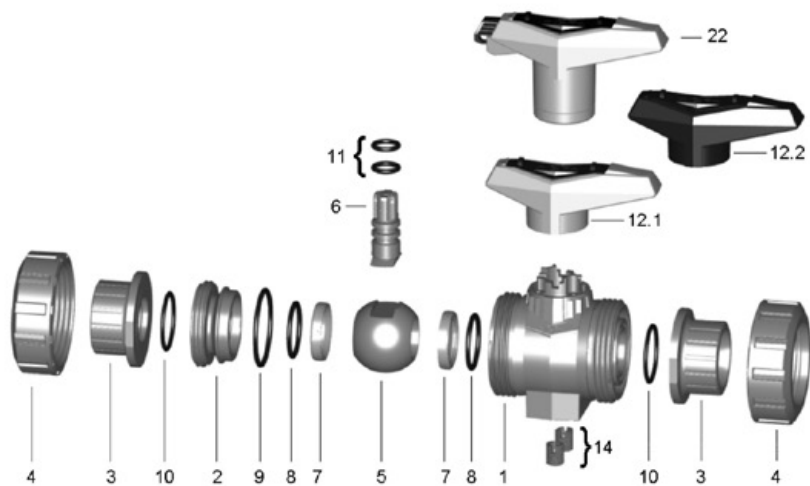


No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
	Central part		163 481 257	163 481 258	163 481 259
1	Body PVC-C	1			
2	Union bush PVC-C	1			
5	Ball PVC-C	1			
6	Stem PVC-C	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
12	Lever PP red	1			
13	handle clip	1			
14	Threaded bush Stainless steel	2			
	Central part		163 481 269	163 481 270	163 481 271
1	Body PVC-C	1			
2	Union bush PVC-C	1			
5	Ball PVC-C	1			
6	Stem PVC-C	1			
7	Ball seal PTFE	2			
8	Backing seal FPM	2			
9	Body seal FPM	1			
10	Face seal FPM	2			
11	Stem seal FPM	2			
12	Lever PP red	1			
13	handle clip	1			
14	Threaded bush Stainless steel	2			

No.	Article / Material	Pieces	d75 DN65 163 481 381	d90 DN80 163 481 382	d110 DN100 163 481 383
	Ball set				
5	Ball PVC-C	1			
6	Stem PVC-C	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
11	Stem seal EPDM	2			
	Ball set		163 481 391	163 481 392	163 481 393
5	Ball PVC-C	1			
6	Stem PVC-C	1			
7	Ball seal PTFE	2			
8	Backing seal FPM	2			
9	Body seal FPM	1			
11	Stem seal FPM	2			
	Seal set		161 486 406	161 486 407	161 486 408
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
	Seal set		161 486 416	161 486 417	161 486 418
8	Backing seal FPM	2			
9	Body seal FPM	1			
10	Face seal FPM	2			
11	Stem seal FPM	2			
3	Connecting piece 546 PVC-C (G11) with solvent cement socket metric	1	163 481 282	163 481 283	163 481 284
3	Connecting piece 546 PVC-C (G12) with solvent cement socket JIS	1	163 481 339	163 481 340	163 481 341
3	Connecting piece 546 PVC-C (G13) with solvent cement socket Inch ASTM	1	163 481 318	163 481 319	163 481 320
3	Connecting piece 546 PVC-C (G14) with solvent cement spigot metric	1	163 481 307	163 481 308	163 481 309
3	Connecting piece 546 PVC-C (G15) with threaded socket Rp	1	163 481 293	163 481 294	163 481 295
3	Connecting piece 546 PVC-C (G17) with threaded socket NPT	1	163 481 329	163 481 330	163 481 331

No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
3	Connecting piece 546 (G72) subassembly with backing flange PP-ST ISO BS	1	163 481 418	163 481 419	163 481 420
3	Connecting piece 546 (G73) subassembly with backing flange PP-ST ASTM	1	163 481 431	163 481 432	163 481 433
4	Union nut PVC-C	1	163 481 232	163 481 233	1634812234
10	Face seal EPDM	1	748 410 119	748 410 023	748 410 254
10	Face seal FPM	1	749 410 119	749 410 023	749 410 254
12	Standard handle 546 red (K01)	1	167 484 094	167 484 095	167 484 096
12	Standard handle 546 black (K02)	1	167 484 082	167 484 083	167 484 084

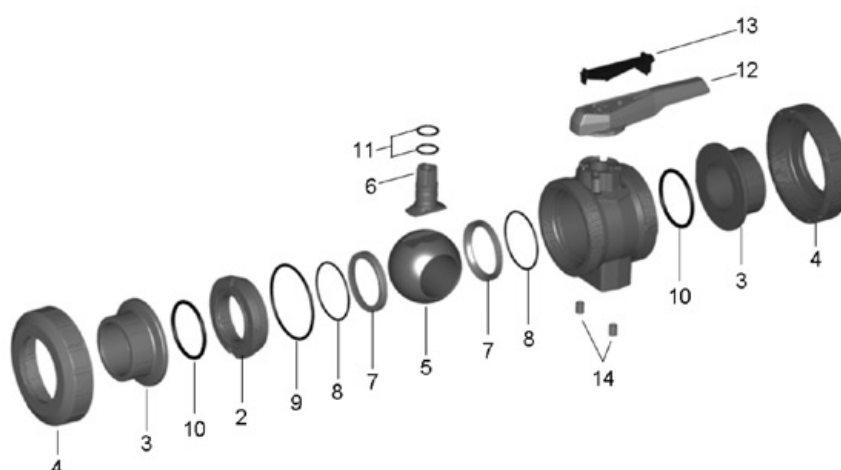
Spare parts for ball valve type 546 ABS (DN10/15-50)



No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
1	Central part Body ABS	1	169 480 751	169 480 751	169 480 752	169 480 753	169 480 754	169 480 755	169 480 756
2	Union bush ABS	1							
5	Ball ABS	1							
6	Stem ABS	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
12	Lever PP red	1							
14	Threaded bush Stainless steel	2							
5	Ball set		169 480 900	169 480 900	169 480 901	169 480 902	169 480 903	169 480 904	169 480 905
6	Ball ABS	1							
7	Stem ABS	1							
8	Ball seal PTFE	2							
9	Backing seal EPDM	2							
10	Body seal EPDM	1							
11	Stem seal EPDM	2							
8	Seal set		161 486 400	161 486 400	161 486 401	161 486 402	161 486 403	161 486 404	161 486 405
9	Backing seal EPDM	2							
10	Body seal EPDM	1							
11	Face seal EPDM	2							
11	Stem seal EPDM	2							

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Seal set		161 486 410	161 486 410	161 486 411	161 486 412	161 486 413	161 486 414	161 486 415
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
3	Connecting piece 546 ABS (G20) with solvent cement socket metric	1	169 480 775	169 480 776	169 480 777	169 480 778	169 480 779	169 480 780	169 480 781
3	Connecting piece 546 ABS (G21) with solvent cement socket Inch BS	1	169 480 800	169 480 801	169 480 802	169 480 803	169 480 804	169 480 805	169 480 806
3	Connecting piece 546 ABS (G22) with threaded socket Rp	1	169 480 786	169 480 787	169 480 788	169 480 789	169 480 790	169 480 791	169 480 792
3	Connecting piece 546 ABS (G23) with threaded socket Rp fortified	1	169 480 925	169 480 926	169 480 927	169 480 928	169 480 929	169 480 930	169 480 931
3	Connecting piece 546 PE 100 (G40) with fusion socket metric	1	193 480 175	193 480 176	193 480 177	193 480 178	193 480 179	193 480 180	193 480 181
3	Connecting piece 546 PE 100	1	-	193 480 102	193 480 103	193 480 104	193 480 105	193 480 106	193 480 107
3	Connecting piece 546 PE 100 (G42) with butt fusion spigot SDR17,6 metric	1	-	-	-	-	193 480 086	193 480 087	193 480 088
3	Connecting piece 546 PE 100 (G43) with butt fusion spigot long SDR11 metric	1	-	193 480 152	193 480 153	193 480 154	193 480 155	193 480 156	193 480 157
3	Connecting piece blank 546 PVC-U (G80)	1	161 490 837	161 490 837	161 490 838	161 490 839	161 490 840	161 490 841	161 490 842
4	Union nut 546 ABS		169 480 713	169 480 713	169 480 714	169 480 715	169 480 716	169 480 717	169 480 718
12	Standard handle 546 red (K01)	1	167 484 088	167 484 088	167 484 089	167 484 090	167 484 091	167 484 092	167 484 093
12	Standard handle 546 black (K02)	1	167 484 076	167 484 076	167 484 077	167 484 078	167 484 079	167 484 080	167 484 081
22	Multifunction handle 546 red (K11) with ratchet settings lockable	1	167 484 100	167 484 100	167 484 101	167 484 102	167 484 103	167 484 104	167 484 105
10	Face seal EPDM		748 410 059	748 410 059	748 410 106	748 410 151	748 410 062	748 410 003	748 410 231

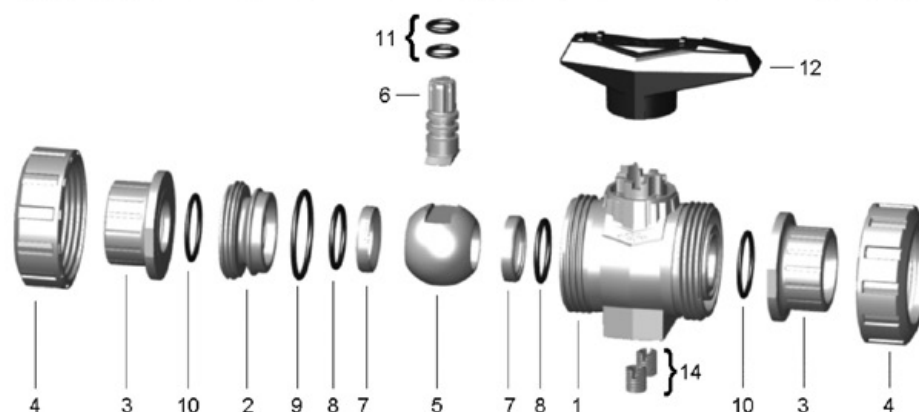
Spare parts for ball valve type 546 ABS (DN65-100)



No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
	Central part		169 480 757	169 480 758	169 480 759
1	Body ABS	1			
2	Union bush ABS	1			
5	Ball ABS	1			
6	Stem ABS	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
12	Lever PP red	1			
13	handle clip	1			
14	Threaded bush Stainless steel	2			
	Ball set		169 480 906	169 480 907	169 480 908
5	Ball ABS	1			
6	Stem ABS	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
11	Stem seal EPDM	2			
	Seal set		161 486 406	161 486 407	161 486 408
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			

No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
3	Connecting piece 546 ABS (G20) with solvent cement socket metric	1	169 480 782	169 480 783	169 480 784
3	Connecting piece 546 ABS (G21) with solvent cement socket Inch BS	1	169 480 782	169 480 808	169 480 809
4	Union nut 546 ABS	1	169 480 719	169 480 720	169 480 721
12	Standard handle 546 red (K01)	1	167 484 094	167 484 095	167 484 096
12	Standard handle 546 black (K02)	1	167 484 082	167 484 083	167 484 084
10	Face seal EPDM	1	748 410 119	748 410 023	748 410 254

Spare parts for ball valve type 546 PP-H (DN10/15-50)



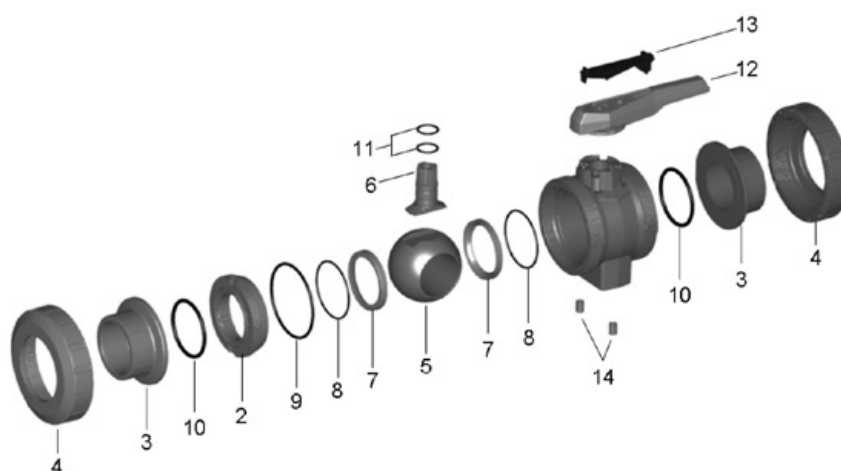
No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Central part		167 482 876	167 482 876	167 482 877	167 482 878	167 482 879	167 482 880	167 482 881
1	Body PP	1							
2	Union bush PP	1							
5	Ball PP	1							
6	Stem PP	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	1							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
12	Lever PP black	1							
14	Threaded bush Stainless steel	3							
	Central part		167 482 888	167 482 888	167 482 889	167 482 890	167 482 891	167 482 892	167 482 893
1	Body PP	1							
2	Union bush PP	1							
5	Ball PP	1							
6	Stem PP	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	1							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
12	Lever PP black	1							
14	Threaded bush Stainless steel	3							
	Ball set		167 484 125	167 484 125	167 484 126	167 484 127	167 484 128	167 484 129	167 484 130
5	Ball PP	1							
6	Stem PP	1							
7	Ball seal PTFE	2							
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
11	Stem seal EPDM	2							

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Ball set		167 484 135	167 484 135	167 484 136	167 484 137	167 484 138	167 484 139	167 484 140
5	Ball PP	1							
6	Stem PP	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
11	Stem seal FPM	2							
	Seal set		161 486 400	161 486 400	161 486 401	161 486 402	161 486 403	161 486 404	161 486 405
8	Backing seal EPDM	2							
9	Body seal EPDM	1							
10	Face seal EPDM	2							
11	Stem seal EPDM	2							
	Seal set		161 486 410	161 486 410	161 486 411	161 486 412	161 486 413	161 486 414	161 486 415
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
3	Connecting piece 546 PP-H (G30) with fusion socket metric	1	167 482 900	167 482 901	167 482 902	167 482 903	167 482 904	167 482 905	167 482 906
3	Connecting piece 546 PP-H (G32) with socket fusion spigot metric	1	167 482 922	167 482 923	167 482 924	167 482 925	167 482 926	167 482 927	167 482 928
3	Connecting piece 546 PP-H (G33) with threaded socket Rp fortified	1	167 482 911	167 482 912	167 482 913	167 482 914	167 482 915	167 482 916	167 482 917
3	Connecting piece 546 PP-H (G34) with threaded socket NPT fortified	1	167 482 966	167 482 967	167 482 968	167 482 969	167 482 970	167 482 971	167 482 972
3	Connecting piece 546 PP-H (G35) with butt fusion spigot IR Plus® SDR11 metric	1	-	167 482 945	167 482 946	167 482 947	167 482 948	167 482 949	167 482 950
3	Connecting piece 546 PP-H (G36) with butt fusion spigot SDR17,6 metric	1	-	-	-	-	167 482 937	167 482 938	167 482 939
3	Connecting piece 546 PP-H (G37) with butt fusion spigot long SDR11 metric	1	-	167 482 956	167 482 957	167 482 958	167 482 959	167 482 960	167 482 961
3	Connecting piece 546 PP-H (G63) subassembly with fixed flange serrated PP-H metric	1	-	167 484 160	167 484 161	167 484 162	167 484 163	167 484 164	167 484 165

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
3	Connecting piece 546 PP-H (G73) subassembly with backing flange PP-ST ANSI	1	-	167 482 956	167 482 957	167 482 958	167 482 959	-	-
3	Connecting piece 546 PE 100 (G40) with fusion socket metric	1	193 480 175	193 480 176	193 480 177	193 480 178	193 480 179	193 480 180	193 480 181
3	Connecting piece 546 PE 100 (G41) with butt fusion spigot SDR11 metric	1	-	193 480 102	193 480 103	193 480 104	193 480 105	193 480 106	193 480 107
3	Connecting piece 546 PE 100 (G42) with butt fusion spigot SDR17,6 metric	1	-	-	-	-	193 480 086	193 480 087	193 480 088
3	Connecting piece 546 PE 100 (G43) with butt fusion spigot long SDR11 metric	1	-	193 480 152	193 480 153	193 480 154	193 480 155	193 480 156	193 480 157
3	Connecting piece 546 PVC-C (G11) with solvent cement socket metric	1	163 481 275	163 481 276	163 481 277	163 481 278	163 481 279	163 481 280	163 481 281
3	Connecting piece 546 PVC-C (G13) with solvent cement socket Inch ASTM	1	163 481 311	163 481 312	163 481 313	163 481 314	163 481 315	163 481 316	163 481 317
3	Connecting piece 546 PVC-C (G14) with solvent cement spigot metric	1	163 481 300	163 481 301	163 481 302	163 481 303	163 481 304	163 481 305	163 481 306
3	Connecting piece 546 PVC-C (G15) with threaded socket Rp	1	163 481 286	163 481 287	163 481 288	163 481 289	163 481 290	163 481 291	163 481 292
3	Connecting piece 546 PVC-C (G16) with threaded socket Rp fortified	1	163 481 400	163 481 401	163 481 402	163 481 403	163 481 404	163 481 405	163 481 406
3	Connecting piece 546 PVC-C (G17) with threaded socket NPT	1	163 481 322	163 481 323	163 481 324	163 481 325	163 481 326	163 481 327	163 481 328
4	Union nut 546 PP-H	1	167 482 712	167 482 712	167 482 713	167 482 714	167 482 715	167 482 716	167 482 717
12	Standard handle 546 red (K01)	1	167 484 088	167 484 088	167 484 089	167 484 090	167 484 091	167 484 092	167 484 093

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
12	Standard handle 546 black (K02)	1	167 484 076	167 484 076	167 484 077	167 484 078	167 484 079	167 484 080	167 484 081
22	Multifunction handle 546 red (K11) with ratchet settings lockable	1	167 484 100	167 484 100	167 484 101	167 484 102	167 484 103	167 484 104	167 484 105
10	Face seal EPDM	1	748 410 059	748 410 059	748 410 106	748 410 151	748 410 062	748 410 003	748 410 231
10	Face seal FPM	1	749 410 059	749 410 059	749 410 106	749 410 151	749 410 062	749 410 003	749 410 231

Spare parts for ball valve type 546 PP-H (DN65-100)

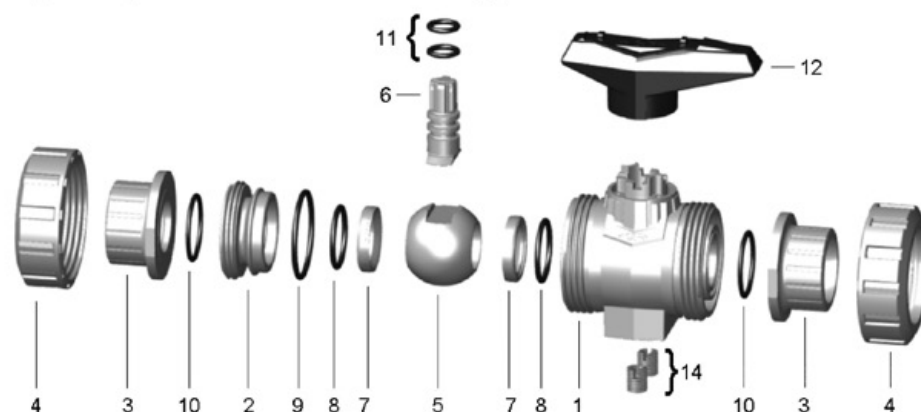


No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
	Central part		167 482 882	167 482 883	167 482 884
1	Body PP	1			
2	Union bush PP	1			
5	Ball PP	1			
6	Stem PP	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	1			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
12	Lever PP	1			
13	black handle clip	1			
14	Threaded bush Stainless steel	3			
	Central part		167 482 894	167 482 895	167 482 896
1	Body PP	1			
2	Union bush PP	1			
5	Ball PP	1			
6	Stem PP	1			
7	Ball seal PTFE	2			
8	Backing seal FPM	1			
9	Body seal FPM	1			
10	Face seal FPM	2			
11	Stem seal FPM	2			
12	Lever PP	1			
13	black handle clip	1			
14	Threaded bush Stainless steel	3			

No.	Article / Material	Pieces	d75 DN65 167 484 131	d90 DN80 167 484 132	d110 DN100 167 484 133
	Ball set				
5	Ball PP	1			
6	Stem PP	1			
7	Ball seal PTFE	2			
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
11	Stem seal EPDM	2			
	Ball set		167 484 141	167 484 142	167 484 143
5	Ball PP	1			
6	Stem PP	1			
7	Ball seal PTFE	2			
8	Backing seal FPM	2			
9	Body seal FPM	1			
11	Stem seal FPM	2			
	Seal set		161 486 406	161 486 407	161 486 408
8	Backing seal EPDM	2			
9	Body seal EPDM	1			
10	Face seal EPDM	2			
11	Stem seal EPDM	2			
	Seal set		161 486 416	161 486 417	161 486 418
8	Backing seal FPM	2			
9	Body seal FPM	1			
10	Face seal FPM	2			
11	Stem seal FPM	2			
3	Connecting piece 546 PP-H (G30) with fusion socket metric	1	167 482 907	167 482 908	167 482 909
3	Connecting piece 546 PP-H (G32) with socket fusion spigot metric	1	167 482 929	167 482 930	167 482 931
3	Connecting piece 546 PP-H (G35) with butt fusion spigot IR Plus® SDR11 metric	1	167 482 951	167 482 952	167 482 953
3	Connecting piece 546 PP-H (G36) with butt fusion spigot SDR17,6 metric	1	167 482 940	167 482 941	167 482 942
3	Connecting piece 546 (G73) subassembly with backing flange PP-ST ANSI	1	167 484 071	167 484 072	167 484 073
3	Connecting piece 546 (G77) subassembly with backing flange PP-GF JIS	1	167 484 481	167 484 482	167 484 483

No.	Article / Material	Pieces	d75 DN65	d90 DN80	d110 DN100
3	Connecting piece 546 (G72) subassembly with backing flange PP-ST ISO BS	1	167 484 418	167 484 419	167 484 420
3	Connecting piece 546 PE 100 (G43) with butt fusion spigot long SDR11 metric	1	193 480 158	193 480 159	193 480 160
3	Connecting piece 546 PE 100 (G44) with butt fusion spigot long SDR17,6 metric	1	193 480 168	193 480 169	193 480 170
4	Union nut 546 PP-H	1	167 482 718	167 482 719	167 482 720
12	Standard handle 546 red (K01)	1	167 484 094	167 484 095	167 484 096
12	Standard handle 546 black (K02)	1	167 484 082	167 484 083	167 484 084
10	Face seal EPDM	1	748 410 119	748 410 023	748 410 254
10	Face seal FPM	1	749 410 119	749 410 023	749 410 254

Spare parts for ball valve type 546 PVDF



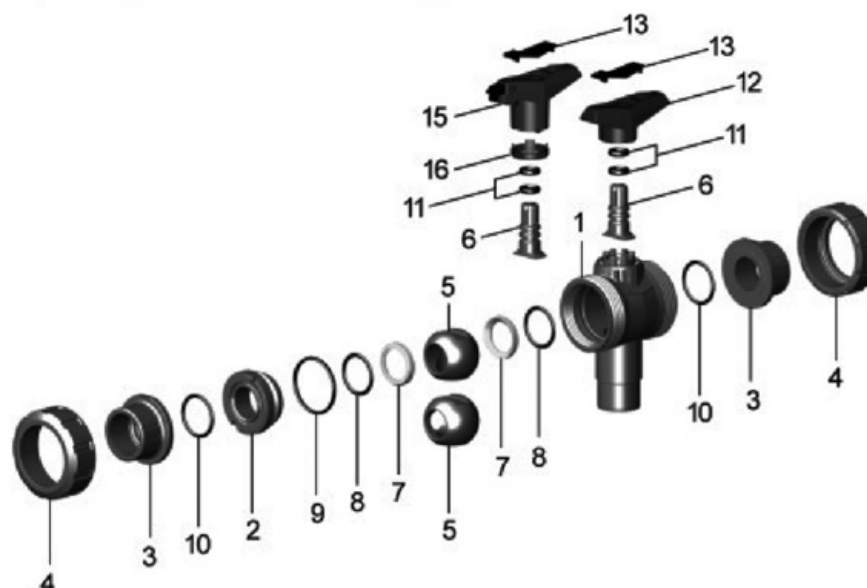
No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
	Central part		175 482 963	175 482 963	175 482 964	175 482 965	175 482 966	175 482 967	175 482 968
1	Body PVDF	1							
2	Union bush PVDF	1							
5	Ball PVDF	1							
6	Stem PVDF	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
12	Lever PP black	1							
14	Threaded bush Stainless steel	2							
	Ball set		175 483 275	175 483 275	175 483 276	175 483 277	175 483 278	175 483 279	175 483 280
5	Ball PVDF	1							
6	Stem PVDF	1							
7	Ball seal PTFE	2							
8	Backing seal FPM	2							
9	Body seal FPM	1							
11	Stem seal FPM	2							
	Seal set		161 486 410	161 486 410	161 486 411	161 486 412	161 486 413	161 486 414	161 486 415
8	Backing seal FPM	2							
9	Body seal FPM	1							
10	Face seal FPM	2							
11	Stem seal FPM	2							
3	Connecting piece 546 PVDF (G50) with fusion socket metric	1	175 483 025	175 483 026	175 483 027	175 483 028	175 483 029	175 483 030	175 483 031
3	Connecting piece 546 PVDF (G51) with socket fusion spigot metric	1	175 483 036	175 483 037	175 483 038	175 483 039	175 483 040	175 483 041	175 483 042
3	Connecting piece 546 PVDF (G52) with butt fusion spigot IR-Plus® metric	1	-	175 483 048	175 483 049	175 483 050	175 483 051	175 483 052	175 483 053

No.	Article / Material	Pieces	d16 DN10	d20 DN15	d25 DN20	d32 DN25	d40 DN32	d50 DN40	d63 DN50
3	Connecting piece 546 PVDF (G53) with threaded socket NPT	1	175 483 058	175 483 059	175 483 060	175 483 061	175 483 062	175 483 063	175 483 064
3	Connecting piece 546 PVDF (G64) subassembly with fixed flange serrated PVDF metric	1	-	175 483 285	175 483 286	175 483 287	175 483 288	175 483 289	175 483 290
4	Union nut 546 PVDF	1	175 482 937	175 482 937	175 482 938	175 482 939	175 482 940	175 482 941	175 482 942
12	Standard handle 546 red (K01)	1	167 484 088	167 484 088	167 484 089	167 484 090	167 484 091	167 484 092	167 484 093
12	Standard handle 546 black (K02)	1	167 484 076	167 484 076	167 484 077	167 484 078	167 484 079	167 484 080	167 484 081
22	Multifunction handle 546 red (K11) with ratchet settings lockable	1	167 484 100	167 484 100	167 484 101	167 484 102	167 484 103	167 484 104	167 484 105
10	Face seal FPM	1	749 470 059	749 470 059	749 470 106	749 470 151	749 470 062	749 470 003	749 470 231

Spare parts

Spare parts ball valves

Spare parts ball valve type 543 vertical



Central part L-port

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 042	161 488 052	169 481 222	
20	3/8	15	161 488 042	161 488 052	169 481 222	
25	3/4	20	161 488 043	161 488 053	169 481 223	
32	1	25	161 488 044	161 488 054	169 481 224	
40	1 1/4	32	161 488 045	161 488 055	169 481 225	
50	1 1/2	40	161 488 046	161 488 056	169 481 226	
63	2	50	161 488 047	161 488 057	169 481 227	



Central part diverter ball

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11) and standard lever (12)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 062	161 488 072	169 481 232	
20	1/2	15	161 488 062	161 488 072	169 481 232	
25	3/4	20	161 488 063	161 488 073	169 481 233	
32	1	25	161 488 064	161 488 074	169 481 234	
40	1 1/4	32	161 488 065	161 488 075	169 481 235	
50	1 1/2	40	161 488 066	161 488 076	169 481 236	
63	2	50	161 488 067	161 488 077	169 481 237	

Spare parts



Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 202	161 488 212	169 481 302	
20	1/2	15	161 488 202	161 488 212	169 481 302	
25	3/4	20	161 488 203	161 488 213	169 481 303	
32	1	25	161 488 204	161 488 214	169 481 304	
40	1 1/4	32	161 488 205	161 488 215	169 481 305	
50	1 1/2	40	161 488 206	161 488 216	169 481 306	
63	2	50	161 488 207	161 488 217	169 481 307	



Ball set diverter ball

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	ABS EPDM Code	
16	3/8	10	161 488 222	161 488 232	169 481 312	
20	1/2	15	161 488 222	161 488 232	169 481 312	
25	3/4	20	161 488 223	161 488 233	169 481 313	
32	1	25	161 488 224	161 488 234	169 481 314	
40	1 1/4	32	161 488 225	161 488 235	169 481 315	
50	1 1/2	40	161 488 226	161 488 236	169 481 316	
63	2	50	161 488 227	161 488 237	169 481 317	



Lever

d [mm]	Inch	DN [mm]	Standard lever L-port red Code	Standard lever diverter ball red Code	Multifunctional- lever L-port red Code	Multifunctional- lever diverter ball red Code	
16	3/8	10	167 484 688	167 484 788	167 484 642	167 484 742	
20	1/2	15	167 484 688	167 484 788	167 484 642	167 484 742	
25	3/4	20	167 484 689	167 484 789	167 484 643	167 484 743	
32	1	25	167 484 690	167 484 790	167 484 644	167 484 744	
40	1 1/4	32	167 484 691	167 484 791	167 484 645	167 484 745	
50	1 1/2	40	167 484 692	167 484 792	167 484 646	167 484 746	
63	2	50	167 484 693	167 484 793	167 484 647	167 484 747	



Face seal

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	748 410 059	749 410 059	
20	1/2	15	748 410 059	749 410 059	
25	3/4	20	748 410 106	749 410 106	
32	1	25	748 410 151	749 410 151	
40	1 1/4	32	748 410 062	749 410 062	
50	1 1/2	40	748 410 003	749 410 003	
63	2	50	748 410 231	749 410 231	

Spare parts



Seal set

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	161 486 400	161 486 410	
20	1/2	15	161 486 400	161 486 410	
25	3/4	20	161 486 401	161 486 411	
32	1	25	161 486 402	161 486 412	
40	1 1/4	32	161 486 403	161 486 413	
50	1 1/2	40	161 486 404	161 486 414	
63	2	50	161 486 405	161 486 415	



Assembly kit

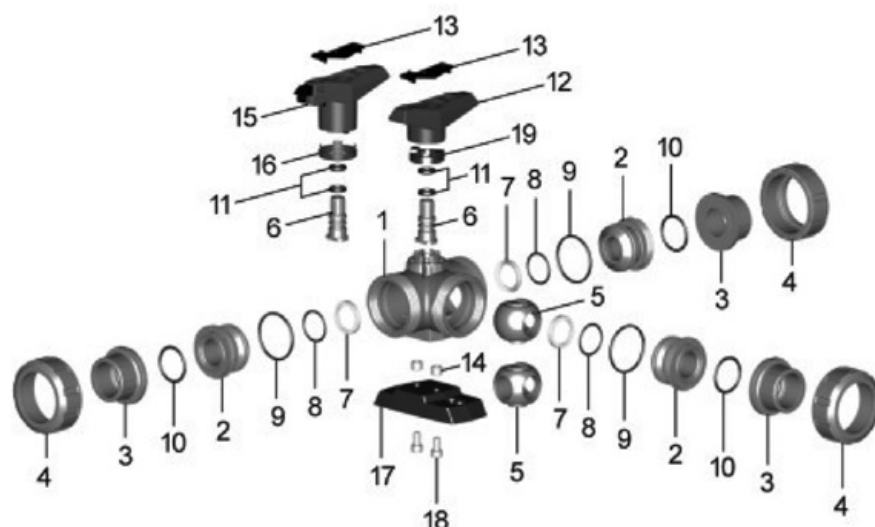
Model:

- Intermediate element for ball valve type 543 vertical and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d [mm]	Inch [inch]	DN [mm]	Code	
16 - 20	3/8 - 1/2	10 - 15	167 484 945	
25 - 32	3/4 - 1	20 - 25	167 484 946	
40 - 50	1 1/4 - 1 1/2	32 - 40	167 484 947	
63	2	50	167 484 948	

Spare parts

Spare parts ball valve type 543 horizontal



Central part L-port

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	3/8	10	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202	
20	1/2	15	161 488 002	161 488 012	163 481 902	163 481 912	169 481 202	
25	3/4	20	161 488 003	161 488 013	163 481 903	163 481 913	169 481 203	
32	1	25	161 488 004	161 488 014	163 481 904	163 481 914	169 481 204	
40	1 1/4	32	161 488 005	161 488 015	163 481 905	163 481 915	169 481 205	
50	1 1/2	40	161 488 006	161 488 016	163 481 906	163 481 916	169 481 206	
63	2	50	161 488 007	161 488 017	163 481 907	163 481 917	169 481 207	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 484 802	167 484 812	175 483 602	
20	1/2	15	167 484 802	167 484 812	175 483 602	
25	3/4	20	167 484 803	167 484 813	175 483 603	
32	1	25	167 484 804	167 484 814	175 483 604	
40	1 1/4	32	167 484 805	167 484 815	175 483 605	
50	1 1/2	40	167 484 806	167 484 816	175 483 606	
63	2	50	167 484 807	167 484 817	175 483 607	

Spare parts



Central part T-port

Model:

- Ball seals standard in PTFE
- Central part consisting of: body (1), union bush (2), ball (5), stem (6), ball-, backing-, body-, face- and stem seal (7-11), standard lever (12) and threaded inserts stainless steel (14)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
20	1/2	15	161 488 022	161 488 032	163 481 922	163 481 932	169 481 212
25	3/4	20	161 488 023	161 488 033	163 481 923	163 481 933	169 481 213
32	1	25	161 488 024	161 488 034	163 481 924	163 481 934	169 481 214
40	1 1/4	32	161 488 025	161 488 035	163 481 925	163 481 935	169 481 215
50	1 1/2	40	161 488 026	161 488 036	163 481 926	163 481 936	169 481 216
63	2	50	161 488 027	161 488 037	163 481 927	163 481 937	169 481 217

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 484 822	167 484 832	175 483 612
20	1/2	15	167 484 822	167 484 832	175 483 612
25	3/4	20	167 484 823	167 484 833	175 483 613
32	1	25	167 484 824	167 484 834	175 483 614
40	1 1/4	32	167 484 825	167 484 835	175 483 615
50	1 1/2	40	167 484 826	167 484 836	175 483 616
63	2	50	167 484 827	167 484 837	175 483 617



Ball set L-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282
20	1/2	15	161 488 162	161 488 172	163 481 982	163 481 992	169 481 282
25	3/4	20	161 488 163	161 488 173	163 481 983	163 481 993	169 481 283
32	1	25	161 488 164	161 488 174	163 481 984	163 481 994	169 481 284
40	1 1/4	32	161 488 165	161 488 175	163 481 985	163 481 995	169 481 285
50	1 1/2	40	161 488 166	161 488 176	163 481 986	163 481 996	169 481 286
63	2	50	161 488 167	161 488 177	163 481 987	163 481 997	169 481 287

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 484 882	167 484 892	175 483 642
20	1/2	15	167 484 882	167 484 892	175 483 642
25	3/4	20	167 484 883	167 484 893	175 483 643
32	1	25	167 484 884	167 484 894	175 483 644
40	1 1/4	32	167 484 885	167 484 895	175 483 645
50	1 1/2	40	167 484 886	167 484 896	175 483 646
63	2	50	167 484 887	167 484 897	175 483 647

Spare parts

Ball set T-port

Model:

- Ball seals standard in PTFE
- Ball set consisting of: lever (12), ball (5), stem (6), ball-, backing-, body- and stem seal (7-9,11)



d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code	
16	3/8	10	161 488 182	161 488 192	163 482 002	163 482 012	169 481 292	
20	1/2	15	161 488 182	161 488 192	163 482 002	163 482 012	169 481 292	
25	3/4	20	161 488 183	161 488 193	163 482 003	163 482 013	169 481 293	
32	1	25	161 488 184	161 488 194	163 482 004	163 482 014	169 481 294	
40	1 1/4	32	161 488 185	161 488 195	163 482 005	163 482 015	169 481 295	
50	1 1/2	40	161 488 186	161 488 196	163 482 006	163 482 016	169 481 296	
63	2	50	161 488 187	161 488 197	163 482 007	163 482 017	169 481 297	

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code	
16	3/8	10	167 484 902	167 484 912	175 483 652	
20	1/2	15	167 484 902	167 484 912	175 483 652	
25	3/4	20	167 484 903	167 484 913	175 483 653	
32	1	25	167 484 904	167 484 914	175 483 654	
40	1 1/4	32	167 484 905	167 484 915	175 483 655	
50	1 1/2	40	167 484 906	167 484 916	175 483 656	
63	2	50	167 484 907	167 484 917	175 483 657	

Lever



d [mm]	Inch	DN [mm]	Standard lever L-port red Code	Standard lever L-port black Code	Standard lever T-port red Code	Standard lever T-port black Code	
16	3/8	10	167 484 488	167 484 376	167 484 588	167 484 576	
20	1/2	15	167 484 488	167 484 376	167 484 588	167 484 576	
25	3/4	20	167 484 489	167 484 377	167 484 589	167 484 577	
32	1	25	167 484 490	167 484 378	167 484 590	167 484 578	
40	1 1/4	32	167 484 491	167 484 379	167 484 591	167 484 579	
50	1 1/2	40	167 484 492	167 484 380	167 484 592	167 484 580	
63	2	50	167 484 493	167 484 381	167 484 593	167 484 581	

d [mm]	Inch	DN [mm]	Multifunctional- lever L-port red Code	Multifunctional- lever T-port red Code	
16	3/8	10	167 484 442	167 484 542	
20	1/2	15	167 484 442	167 484 542	
25	3/4	20	167 484 443	167 484 543	
32	1	25	167 484 444	167 484 544	
40	1 1/4	32	167 484 445	167 484 545	
50	1 1/2	40	167 484 446	167 484 546	
63	2	50	167 484 447	167 484 547	

Face seal



d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	748 410 059	749 410 059	
20	1/2	15	748 410 059	749 410 059	
25	3/4	20	748 410 106	749 410 106	
32	1	25	748 410 151	749 410 151	
40	1 1/4	32	748 410 062	749 410 062	
50	1 1/2	40	748 410 003	749 410 003	
63	2	50	748 410 231	749 410 231	

Spare parts



Seal set

Model:

- Seal set consisting of: backing-, body-, face- and stem seal (8-11)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	161 488 242	161 488 248	
20	1/2	15	161 488 242	161 488 248	
25	3/4	20	161 488 243	161 488 249	
32	1	25	161 488 244	161 488 250	
40	1 1/4	32	161 488 245	161 488 251	
50	1 1/2	40	161 488 246	161 488 252	
63	2	50	161 488 247	161 488 253	



Turn limiter 90°

d [mm]	Inch	DN [mm]	Code	
16	3/8	10	167 482 479	
20	1/2	15	167 482 479	
25	3/4	20	167 482 480	
32	1	25	167 482 480	
40	1 1/4	32	167 482 481	
50	1 1/2	40	167 482 481	
63	2	50	167 482 482	



Assembly kit

Model:

- Intermediate element for ball valve type 543 horizontal and electric or pneumatic actuators EA21; PA11/21
- Including screws and position indicator for actuators

d [mm]	Inch [inch]	DN [mm]	Code	
16 - 20	3/8 - 1/2	10 - 15	167 484 941	
25 - 32	3/4 - 1	20 - 25	167 484 942	
40 - 50	1 1/4 - 1 1/2	32 - 40	167 484 943	
63	2	50	167 484 944	

Spare parts ball valves

Spare parts metering ball valve type 523

Central part

Model:

- Every connecting pieces and union nuts are listed on product range industry valves
- Ball seals standard in PTFE
- Central part consisting of: body, union bush, ball, stem, ball-, backing-, body-, face- and stem seal, standard lever and threaded inserts stainless steel

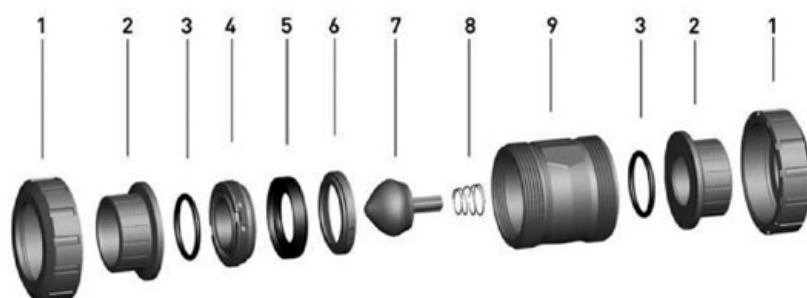


d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PP-H EPDM Code	PP-H FPM Code	
16	¾	10	161 485 351	161 485 361	167 485 371	167 485 381	
20	½	15	161 485 353	161 485 363	167 485 373	167 485 383	

Spare parts

Spare parts cone check valves

Spare parts cone check valve type 561/562



Central part without spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201
20	1/2	15	161 485 201	161 485 211	163 485 201	163 485 211	169 485 201
25	3/4	20	161 485 202	161 485 212	163 485 202	163 485 212	169 485 202
32	1	25	161 485 203	161 485 213	163 485 203	163 485 213	169 485 203
40	1 1/4	32	161 485 204	161 485 214	163 485 204	163 485 214	169 485 204
50	1 1/2	40	161 485 205	161 485 215	163 485 205	163 485 215	169 485 205
63	2	50	161 485 206	161 485 216	163 485 206	163 485 216	169 485 206
75	2 1/2	65	161 485 207	161 485 217	163 485 207	163 485 217	169 485 207
90	3	80	161 485 208	161 485 218	163 485 208	163 485 218	169 485 208
110	4	100	161 485 209	161 485 219	163 485 209	163 485 219	169 485 209

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 485 201	167 485 211	175 485 211
20	1/2	15	167 485 201	167 485 211	175 485 211
25	3/4	20	167 485 202	167 485 212	175 485 212
32	1	25	167 485 203	167 485 213	175 485 213
40	1 1/4	32	167 485 204	167 485 214	175 485 214
50	1 1/2	40	167 485 205	167 485 215	175 485 215
63	2	50	167 485 206	167 485 216	175 485 216
75	2 1/2	65	167 485 207	167 485 217	175 485 217
90	3	80	167 485 208	167 485 218	175 485 218
110	4	100	167 485 209	167 485 219	175 485 219



Central part with spring

Model:

- Central body consisting of: housing (9), union bush (4), support ring (6), cone (7), spring V2A (8), profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
16	3/8	10	161 485 221	161 485 231	163 485 221	163 485 231	169 485 221
20	1/2	15	161 485 221	161 485 231	163 485 221	163 485 231	169 485 221
25	3/4	20	161 485 222	161 485 232	163 485 222	163 485 232	169 485 222
32	1	25	161 485 223	161 485 233	163 485 223	163 485 233	169 485 223
40	1 1/4	32	161 485 224	161 485 234	163 485 224	163 485 234	169 485 224
50	1 1/2	40	161 485 225	161 485 235	163 485 225	163 485 235	169 485 225
63	2	50	161 485 226	161 485 236	163 485 226	163 485 236	169 485 226

Spare parts

d [mm]	Inch	DN [mm]	PVC-U EPDM Code	PVC-U FPM Code	PVC-C EPDM Code	PVC-C FPM Code	ABS EPDM Code
75	2 1/2	65	161 485 227	161 485 237	163 485 227	163 485 237	169 485 227
90	3	80	161 485 228	161 485 238	163 485 228	163 485 238	169 485 228
110	4	100	161 485 229	161 485 239	163 485 229	163 485 239	169 485 229

d [mm]	Inch	DN [mm]	PP-H EPDM Code	PP-H FPM Code	PVDF FPM Code
16	3/8	10	167 485 231	167 485 241	175 485 231
20	1/2	15	167 485 231	167 485 241	175 485 231
25	3/4	20	167 485 232	167 485 242	175 485 232
32	1	25	167 485 233	167 485 243	175 485 233
40	1 1/4	32	167 485 234	167 485 244	175 485 234
50	1 1/2	40	167 485 235	167 485 245	175 485 235
63	2	50	167 485 236	167 485 246	175 485 236
75	2 1/2	65	167 485 237	167 485 247	175 485 237
90	3	80	167 485 238	167 485 248	175 485 238
110	4	100	167 485 239	167 485 249	175 485 239



Cone (7)

d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PP-Talkum 20% Code
16	3/8	10	161 491 151	163 482 151	169 482 151	167 485 151	167 485 351
20	1/2	15	161 491 151	163 482 151	169 482 151	167 485 151	167 485 351
25	3/4	20	161 491 152	163 482 152	169 482 152	167 485 152	167 485 352
32	1	25	161 491 153	163 482 153	169 482 153	167 485 153	167 485 353
40	1 1/4	32	161 491 154	163 482 154	169 482 154	167 485 154	167 485 354
50	1 1/2	40	161 491 155	163 482 155	169 482 155	167 485 155	167 485 355
63	2	50	161 491 156	163 482 156	169 482 156	167 485 156	167 485 356
75	2 1/2	65	161 491 157	163 482 157	169 482 157	167 485 157	167 485 357
90	3	80	161 491 158	163 482 158	169 482 158	167 485 158	167 485 358
110	4	100	161 491 159	163 482 159	169 482 159	167 485 159	167 485 359

d [mm]	Inch	DN [mm]	PVDF Code
16	3/8	10	175 484 151
20	1/2	15	175 484 151
25	3/4	20	175 484 152
32	1	25	175 484 153
40	1 1/4	32	175 484 154
50	1 1/2	40	175 484 155
63	2	50	175 484 156
75	2 1/2	65	175 484 157
90	3	80	175 484 158
110	4	100	175 484 159



Profile seal ring (5)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code
16	3/8	10	748 436 001	749 436 001
20	1/2	15	748 436 001	749 436 001
25	3/4	20	748 436 002	749 436 002
32	1	25	748 436 003	749 436 003
40	1 1/4	32	748 436 004	749 436 004
50	1 1/2	40	748 436 005	749 436 005
63	2	50	748 436 006	749 436 006
75	2 1/2	65	748 436 007	749 436 007
90	3	80	748 436 008	749 436 008
110	4	100	748 436 009	749 436 009

Spare parts

Seal set

Model:

- Seal set consisting of: profile seal ring (5) and face seal (3)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	161 485 240	161 485 250	
20	1/2	15	161 485 241	161 485 251	
25	3/4	20	161 485 242	161 485 252	
32	1	25	161 485 243	161 485 253	
40	1 1/4	32	161 485 244	161 485 254	
50	1 1/2	40	161 485 245	161 485 255	
63	2	50	161 485 246	161 485 256	
75	2 1/2	65	161 485 247	161 485 257	
90	3	80	161 485 248	161 485 258	
110	4	100	161 485 249	161 485 259	

Face seal (3)

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
16	3/8	10	748 410 059	749 410 059	
20	1/2	15	748 410 059	749 410 059	
25	3/4	20	748 410 106	749 410 106	
32	1	25	748 410 151	749 410 151	
40	1 1/4	32	748 410 062	749 410 062	
50	1 1/2	40	748 410 003	749 410 003	
63	2	50	748 410 231	749 410 231	
75	2 1/2	65	748 410 119	749 410 119	
90	3	80	748 410 023	749 410 023	
110	4	100	748 410 254	749 410 254	

Spring (8)

Model:

- Material: V2A, code: 1.4310
- Material: NIMONIC 90, code: 2.4632
- Material: V2A, code: 1.4310, HALAR® coated

d [mm]	Inch	DN [mm]	Stainless steel V2A Code	V2A HALAR coat- ed Code	NIMONIC 90 Code	
16	3/8	10	161 485 132	161 485 142	161 485 152	
20	1/2	15	161 485 132	161 485 142	161 485 152	
25	3/4	20	161 485 132	161 485 142	161 485 152	
32	1	25	161 485 133	161 485 143	161 485 153	
40	1 1/4	32	161 485 134	161 485 144	161 485 154	
50	1 1/2	40	161 485 135	161 485 145	161 485 155	
63	2	50	161 485 136	161 485 146	161 485 156	
75	2 1/2	65	161 485 137	161 485 147	161 485 157	
90	3	80	161 485 138	161 485 148	161 485 158	
110	4	100	161 485 139	161 485 149	161 485 159	

Handle for dismantling

d [mm]	Inch	DN [mm]	red Code	black Code	
16	3/8	10	167 484 088	167 484 076	
20	1/2	15	167 484 088	167 484 076	
25	3/4	20	167 484 089	167 484 077	
32	1	25	167 484 090	167 484 078	
40	1 1/4	32	167 484 091	167 484 079	
50	1 1/2	40	167 484 092	167 484 080	
63	2	50	167 484 093	167 484 081	

Spare parts

d [mm]	Inch	DN [mm]	red Code	black Code	
75	2 ½	65	167 484 094	167 484 082	
90	3	80	167 484 095	167 484 083	
110	4	100	167 484 096	167 484 084	

Spare parts diaphragm valves new generation

Spare parts for hand-operated valves



Bonnet complete



d [mm]	Inch	DN [mm]	Standard configuration PN10 Code	For pressure tight housing PN10 Code	Standard configuration PN16 Code	
20	½	15	198 151 742	198 151 752	198 151 842	
25	¾	20	198 151 743	198 151 753	198 151 843	
32	1	25	198 151 744	198 151 754	198 151 844	
40	1 ¼	32	198 151 745	198 151 755	198 151 845	
50	1 ½	40	198 151 746	198 151 756	198 151 846	
63	2	50	198 151 747	198 151 757	198 151 847	

d [mm]	Inch	DN [mm]	For pressure tight housing PN16 Code	
20	½	15	198 151 852	
25	¾	20	198 151 853	
32	1	25	198 151 854	
40	1 ¼	32	198 151 855	
50	1 ½	40	198 151 856	
63	2	50	198 151 857	

Hand wheel

Model:

- Without position indicator



DN [mm]	Code	
15 - 20	198 204 162	
25 - 32	198 204 164	
40 - 50	198 104 166	

Position indicator



d [mm]	Inch	DN [mm]	Code	
20	½	15	167 484 992	
25	¾	20	167 484 993	
32	1	25	167 484 994	
40	1 ¼	32	167 484 995	
50	1 ½	40	167 484 996	
63	2	50	167 484 997	

Spindle assembly

Model:

- Incl. position indicator and compressor



DN-DN [mm]	Code	
15 - 20	198 204 327	
25 - 32	198 204 328	
40 - 50	198 204 329	

Seal set

Model:

- For manual valve - pressure tight housing
- Incl. position indicator



d [mm]	Inch	DN [mm]	EPDM Code	
20	½	15	198 000 892	
25	¾	20	198 000 893	
32	1	25	198 000 894	
40	1 ¼	32	198 000 895	
50	1 ½	40	198 000 896	
63	2	50	198 000 897	

Spare parts for automatic valves



Diastar Six/Ten/Sixteen



d [mm]	Inch	DN [mm]	Diastar Six Code	Diastar Ten Code	Diastar Sixteen FC Code	Diastar Ten FO Code	
20	½	15	198 151 762	198 151 772	198 151 782	198 151 792	
25	¾	20	198 151 763	198 151 773	198 151 783	198 151 793	
32	1	25	198 151 764	198 151 774	198 151 784	198 151 794	
40	1 ¼	32	198 151 765	198 151 775	198 151 785	198 151 795	
50	1 ½	40	198 151 766	198 151 776	198 151 786	198 151 796	
63	2	50	198 151 767	198 151 777	198 151 787	198 151 797	

d [mm]	Inch	DN [mm]	Diastar Ten DA Code	
20	½	15	198 151 802	
25	¾	20	198 151 803	
32	1	25	198 151 804	
40	1 ¼	32	198 151 805	
50	1 ½	40	198 151 806	
63	2	50	198 151 807	

Indicator cap



Size	Code	
1-2	198 806 639	
3-5	198 806 640	



Compressor set

Model:

- Incl. diaphragm holder

d [mm]	Inch	DN [mm]	Code	
20	1/2	15	198 000 872	
25	3/4	20	198 000 873	
32	1	25	198 000 874	
40	1 1/4	32	198 000 875	
50	1 1/2	40	198 000 876	
63	2	50	198 000 877	

Seal set



Size	Diastar Six/Ten/ Sixteen Code	Only for Diastar Six DN40/DN50 Code	
Gr. 1	198 000 881	-	
Gr. 2	198 000 882	-	
Gr. 3	198 000 883	198 000 886	
Gr. 4	198 000 884	-	
Gr. 5	198 000 885	-	

Spare parts diaphragm



d [mm]	Inch	DN [mm]	NBR Code	EPDM Code	FPM Code	PTFE/EPDM Code	PTFE/EPDM HP Code	
20	1/2	15	745 500 012	748 500 012	749 500 012	747 502 012	747 502 032	
25	3/4	20	745 500 013	748 500 013	749 500 013	747 502 013	747 502 033	
32	1	25	745 500 014	748 500 014	749 500 014	747 502 014	747 502 034	
40	1 1/4	32	745 500 015	748 500 015	749 500 015	747 502 015	747 502 035	
50	1 1/2	40	745 500 016	748 500 016	749 500 016	747 502 016	747 502 036	
63	2	50	745 500 017	748 500 017	749 500 017	747 502 017	747 502 037	

d [mm]	Inch	DN [mm]	PTFE/FPM Code	
20	1/2	15	747 503 012	
25	3/4	20	747 503 013	
32	1	25	747 503 014	
40	1 1/4	32	747 503 015	
50	1 1/2	40	747 503 016	
63	2	50	747 503 017	

Spare parts for valve body type 514

Valve body with true union

Model:

- Without connection parts



d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
20	1/2	15	161 492 062	163 482 052	169 481 322	167 483 522	175 483 682	
25	3/4	20	161 492 063	163 482 053	169 481 323	167 483 523	175 483 683	
32	1	25	161 492 064	163 482 054	169 481 324	167 483 524	175 483 684	
40	1 1/4	32	161 492 065	163 482 055	169 481 325	167 483 525	175 483 685	
50	1 1/2	40	161 492 066	163 482 056	169 481 326	167 483 526	175 483 686	
63	2	50	161 492 067	163 482 057	169 481 327	167 483 527	175 483 687	

d [mm]	Inch	DN [mm]	PVDF HP Code	
20	1/2	15	180 001 002	
25	3/4	20	180 001 003	
32	1	25	180 001 004	

d [mm]	Inch	DN [mm]	PVDF HP Code	
40	1 ¼	32	180 001 005	
50	1 ½	40	180 001 006	
63	2	50	180 001 007	



Union end

d [mm]	Inch	DN [mm]	PVC-U metric Code	PVC-U JIS Code	PVC-U BS Code	PVC-U ASTM Code	PP-H metric Code	
20	½	15	721 600 106	721 605 106	721 601 106	721 602 006	727 600 106	
25	¾	20	721 600 107	721 605 107	721 601 107	721 602 007	727 600 107	
32	1	20	721 600 108	721 605 108	721 601 108	721 602 008	727 600 108	
40	1 ¼	32	721 600 109	721 605 109	721 601 109	721 602 009	727 600 109	
50	1 ½	40	721 600 110	721 605 110	721 601 110	721 602 010	727 600 110	
63	2	50	721 600 111	721 605 111	721 601 111	721 602 011	727 600 111	

d [mm]	Inch	DN [mm]	PVDF metric Code	PVC-C metric Code	PP-H butt fusion metric code	PVDF butt fusion metric code	
20	½	15	735 600 106	723 600 106	727 608 516	735 608 606	
25	¾	20	735 600 107	723 600 107	727 608 517	735 608 607	
32	1	20	735 600 108	723 600 108	727 608 518	735 608 608	
40	1 ¼	32	735 600 109	723 600 109	727 608 519	735 608 609	
50	1 ½	40	735 600 110	723 600 110	727 608 510	735 608 610	
63	2	50	735 600 111	723 600 111	727 608 511	735 608 611	



Union nut

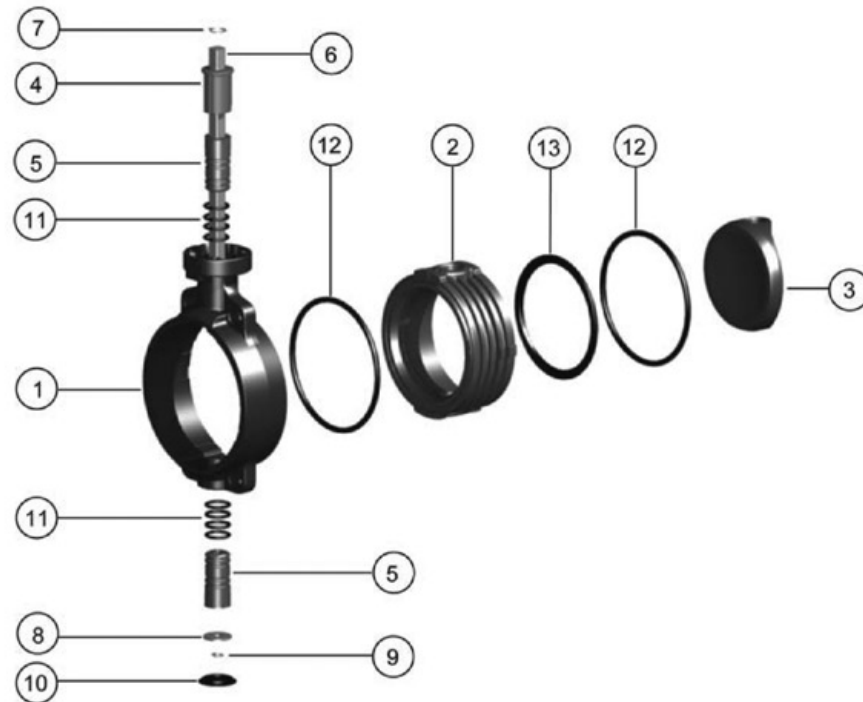
d [mm]	Inch	DN [mm]	PVC-U Code	PVC-C Code	ABS Code	PP-H Code	PVDF Code	
20	½	15	721 690 006	723 690 006	729 690 406	727 690 406	735 690 406	
25	¾	20	721 690 007	723 690 007	729 690 407	727 690 407	735 690 407	
32	1	25	721 690 008	723 690 008	729 690 408	727 690 408	735 690 408	
40	1 ¼	32	721 690 009	723 690 009	729 690 409	727 690 409	735 690 409	
50	1 ½	40	721 690 010	723 690 010	729 690 410	727 690 410	735 690 410	
63	2	50	721 690 011	723 690 011	729 690 411	727 690 411	735 690 411	



O-ring

d [mm]	Inch	DN [mm]	EPDM Code	FPM Code	
20	½	15	748 410 006	749 410 006	
25	¾	20	748 410 007	749 410 007	
32	1	25	748 410 008	749 410 008	
40	1 ¼	32	748 410 009	749 410 009	
50	1 ½	40	748 410 010	749 410 010	
63	2	50	748 410 011	749 410 011	

Spare parts for butterfly valve type 567 PVC-U Hand lever with index plate

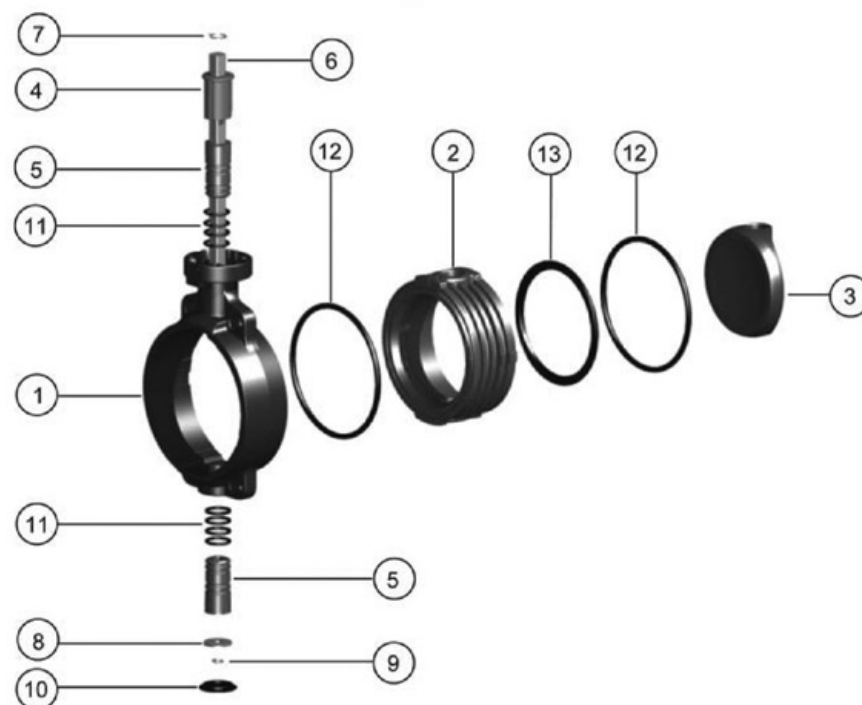


No.	Article / Material	Pieces	d63 DN50	d75 DN65	d90 DN80	d110 DN100	d140 DN125	d160 DN150	d225 DN200
3	Disc PVC-U	1	161 490 889	161 490 890	161 490 891	161 490 892	161 490 893	161 490 894	161 490 895
5	Bearing bush	2	161 486 886	161 486 886	161 486 886	161 486 887	161 486 887	161 486 888	161 486 888
11	Bush PVC-U								
11	O-ring EPDM	2							
5	Bearing bush		161 486 892	161 486 892	161 486 892	161 486 893	161 486 893	161 486 894	161 486 894
11	Bush PVC-U	2							
11	O-ring FPM								
2	Inner body	1	161 486 861	161 486 862	161 486 863	161 486 864	161 486 865	161 486 866	161 486 867
13	Body PVC-U								
13	Profile seal EPDM	1							
2	Inner body	1	161 486 873	161 486 874	161 486 875	161 486 876	161 486 877	161 486 878	161 486 879
13	Body PVC-U								
13	Profile seal FPM	1							
12	Flange gasket EPDM	2	161 486 959	161 486 960	161 486 961	161 486 962	161 486 963	161 486 964	161 486 965
12	Flange gasket FPM	2	161 486 979	161 486 980	161 486 981	161 486 982	161 486 983	161 486 984	161 486 985
4	End stop PP Glasfiber Reinforced	1	167 486 251	167 486 251	167 486 251	167 483 252	167 483 252	167 483 253	167 483 253
6	Shaft set	1	161 486 899	161 486 900	161 486 901	161 486 902	161 486 903	161 486 904	161 486 905
7+9	Shaft Chrom Steel 1.4301 AISI 304								
8	Retention ring	2							
8	Washer	1							
	Lever with index plate	1	161 486 690	161 486 690	161 486 690	161 486 691	161 486 691	161 486 694	161 486 695

No.	Article / Material	Pieces	d280 DN250	d315 DN300
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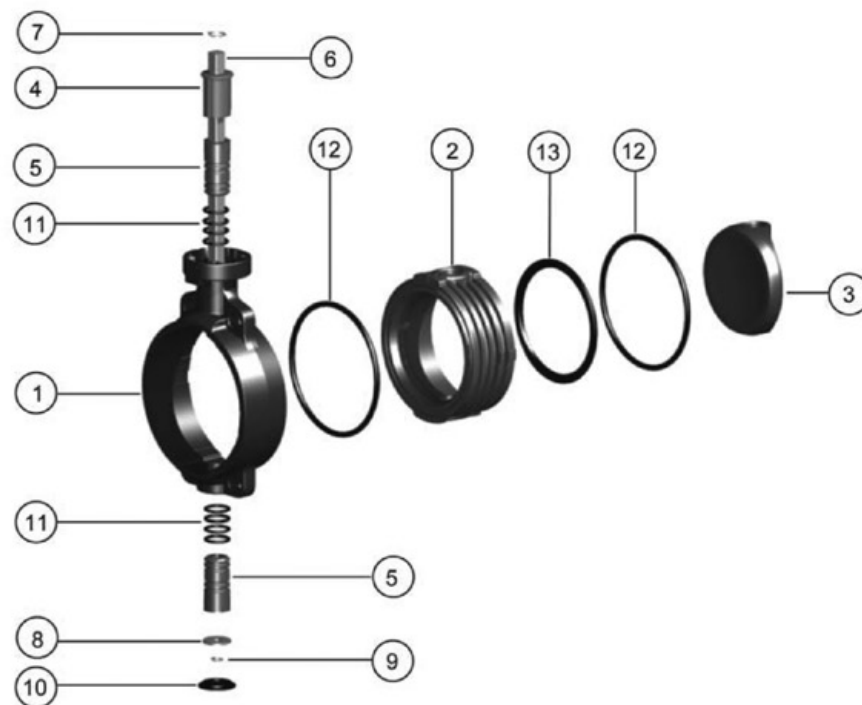
No.	Article / Material	Pieces	d280 DN250	d315 DN300
3	Disc PVC-U	1	161 490 896	161 490 897
5	Bearing bush	2	161 486 889	161 486 889
11	Bush PVC-U			
	O-ring EPDM	2	161 486 895	161 486 895
5	Bearing bush			
11	Bush PVC-U	1	161 486 868	161 486 869
	O-ring FPM			
2	Inner body	1	161 486 880	161 486 881
13	Body PVC-U			
	Profile seal EPDM	1	161 486 966	161 486 967
2	Inner body			
13	Body PVC-U	1	161 486 986	161 486 987
	Profile seal FPM			
12	Flange gasket EPDM	2	167 483 254	167 483 254
12	Flange gasket FPM	2	161 486 906	161 486 907
4	End stop PP Glasfiber Reinforced	1		
6	Shaft set	1	161 486 696	161 486 696
7+9	Shaft Chrom Steel 1.4301 AISI 304			
8	Retention ring	2		
	Washer	1		
	Lever with index plate	1		

Spare parts for butterfly valve type 567 PVC-C Hand lever with index plate



No.	Article / Material	Pieces	d63 DN50	d75 DN65	d90 DN80	d110 DN100	d140 DN125	d160 DN150	d225 DN200
3	Disc PVC-C	1	163 481 451	163 481 452	163 481 453	163 481 454	163 481 455	163 481 456	163 481 457
5	Bearing bush	2	163 481 576	163 481 576	163 481 576	163 481 577	163 481 577	163 481 578	163 481 578
11	Bush PVC-C								
11	O-ring EPDM	2							
5	Bearing bush		163 481 582	163 481 582	163 481 582	163 481 583	163 481 583	163 481 584	163 481 584
11	Bush PVC-C	2							
11	O-ring FPM								
2	Inner body	1	163 481 591	163 481 592	163 481 593	163 481 594	163 481 595	163 481 596	163 481 597
13	Body PVC-C								
13	Profile seal EPDM	1							
2	Inner body	1	163 481 603	163 481 604	163 481 605	163 481 606	163 481 607	163 481 608	163 481 609
13	Body PVC-C								
13	Profile seal FPM	1							
12	Flange gasket EPDM	2	161 486 959	161 486 960	161 486 961	161 486 962	161 486 963	161 486 964	161 486 965
12	Flange gasket FPM	2	161 486 979	161 486 980	161 486 981	161 486 982	161 486 983	161 486 984	161 486 985
4	End stop PP Glasfiber Reinforced	1	167 486 251	167 486 251	167 486 251	167 483 252	167 483 252	167 483 253	167 483 253
6	Shaft set	1	161 486 899	161 486 900	161 486 901	161 486 902	161 486 903	161 486 904	161 486 905
7+9	Shaft Chrom Steel 1.4301 AISI 304								
8	Retention ring	2							
8	Washer	1							
	Lever with index plate	1	161 486 690	161 486 690	161 486 690	161 486 691	161 486 691	161 486 694	161 486 695

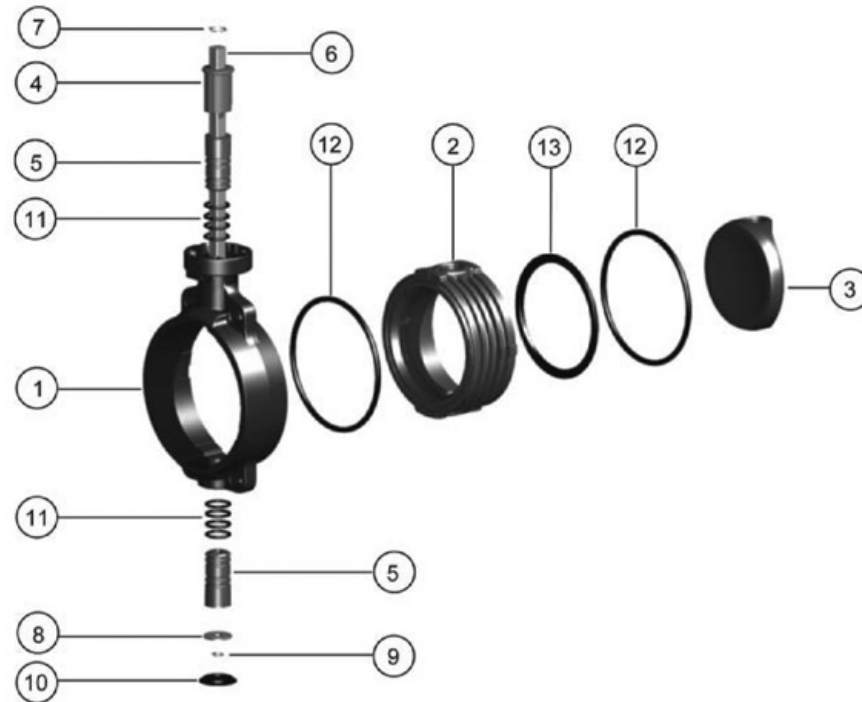
Spare parts for butterfly valve type 567 ABS Hand lever with index plate



No.	Article / Material	Pieces
3	Disc ABS	1
5	Bearing bush	2
11	Bush PP-H O-ring EPDM	
5	Bearing bush	2
11	Bush PP-H O-ring FPM	
2	Inner body	1
13	Body ABS Profile seal EPDM	
12	Flange gasket EPDM	2
12	Flange gasket FPM	2
4	End stop PP Glasfiber Reinforced	1
6	Shaft set	1
7+9	Shaft Chrom Steel 1.4301 AISI 304 Retention ring	
8	Washer	1
	Lever with index plate	1

d63 DN50	d75 DN65	d90 DN80	d110 DN100	d140 DN125	d160 DN150	d225 DN200
169 480 951	169 480 952	169 480 953	169 480 954	169 480 955	169 480 956	169 480 957
167 484 259	167 484 259	167 484 259	167 484 260	167 484 260	167 484 261	167 484 261
167 484 265	167 484 265	167 484 265	167 484 266	167 484 266	167 484 267	167 484 267
169 481 067	169 481 068	169 481 069	169 481 070	169 481 071	169 481 072	169 481 073
161 486 959	161 486 960	161 486 961	161 486 962	161 486 963	161 486 964	161 486 965
161 486 979	161 486 980	161 486 981	161 486 982	161 486 983	161 486 984	161 486 985
167 486 251	167 486 251	167 486 251	167 483 252	167 483 252	167 483 253	167 483 253
161 486 899	161 486 900	161 486 901	161 486 902	161 486 903	161 486 904	161 486 905
161 486 690	161 486 690	161 486 690	161 486 691	161 486 691	161 486 694	161 486 695

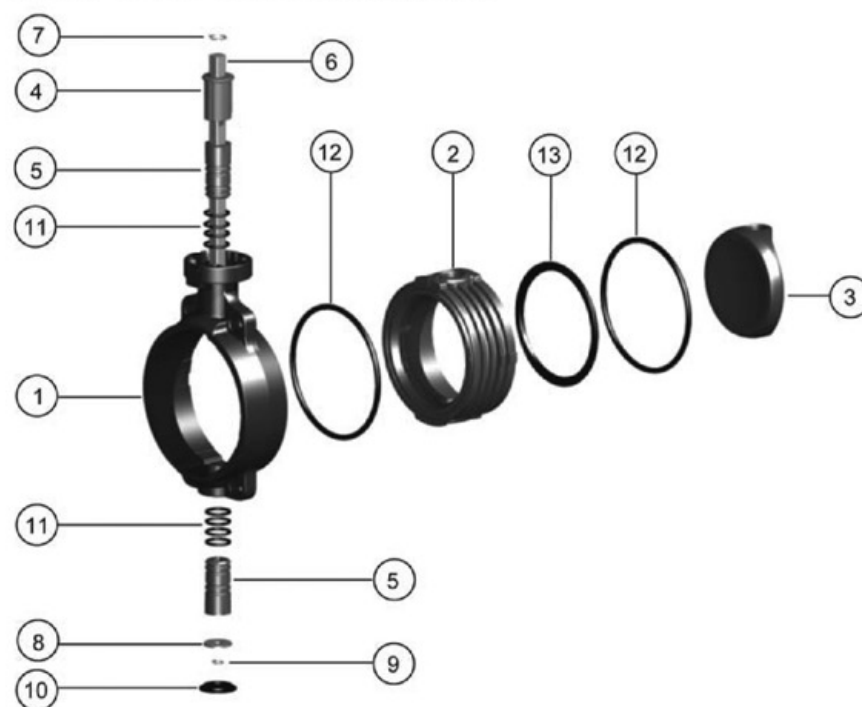
Spare parts for butterfly valve type 567 PP-H Hand lever with index plate



No.	Article / Material	Pieces	d63 DN50	d75 DN65	d90 DN80	d110 DN100	d140 DN125	d160 DN150	d225 DN200
3	Disc PP-H	1	167 483 226	167 483 227	167 483 228	167 483 229	167 483 230	167 483 231	167 483 232
5	Bearing bush	2	167 484 259	167 484 259	167 484 259	167 484 260	167 484 260	167 484 261	167 484 261
11	Bush PP-H								
11	O-ring EPDM	2							
5	Bearing bush		167 484 265	167 484 265	167 484 265	167 484 266	167 484 266	167 484 267	167 484 267
11	Bush PP-H	2							
11	O-ring FPM								
2	Inner body	1	167 484 271	167 484 272	167 484 273	167 484 274	167 484 275	167 484 276	167 484 277
13	Body PP-H								
13	Profile seal EPDM	1							
2	Inner body	1	167 484 286	167 484 287	167 484 288	167 484 289	167 484 290	167 484 291	167 484 292
13	Body PP-H								
13	Profile seal FPM	1							
12	Flange gasket EPDM	2	161 486 959	161 486 960	161 486 961	161 486 962	161 486 963	161 486 964	161 486 965
12	Flange gasket FPM	2	161 486 979	161 486 980	161 486 981	161 486 982	161 486 983	161 486 984	161 486 985
4	End stop PP Glasfiber Reinforced	1	167 486 251	167 486 251	167 486 251	167 483 252	167 483 252	167 483 253	167 483 253
6	Shaft set	1	161 486 899	161 486 900	161 486 901	161 486 902	161 486 903	161 486 904	161 486 905
7+9	Shaft Chrom Steel 1.4301 AISI 304								
8	Retention ring	2							
8	Washer	1							
	Lever with index plate	1	161 486 690	161 486 690	161 486 690	161 486 691	161 486 691	161 486 694	161 486 695

No.	Article / Material	Pieces	d280 DN250	d315 DN300
3	Disc PP-H	1	167 483 233	167 483 234
5	Bearing bush	2	167 484 262	167 484 262
11	Bush PP-H			
	O-ring EPDM	2	167 484 268	167 484 268
5	Bearing bush			
11	Bush PP-H	1	167 484 278	167 484 279
	O-ring FPM			
2	Inner body	1	167 484 293	167 484 294
13	Body PP-H			
	Profile seal EPDM	1	161 486 966	161 486 967
2	Inner body			
13	Body PP-H	2	161 486 986	161 486 987
	Profile seal FPM			
12	Flange gasket EPDM	1	167 483 254	167 483 254
12	Flange gasket FPM			
4	End stop PP Glasfiber Reinforced	1	161 486 906	161 486 907
6	Shaft set			
	Shaft Chrom Steel 1.4301	2		
7+9	AISI 304			
8	Retention ring	1	161 486 696	161 486 696
	Washer			
	Lever with index plate	1		

Spare parts for butterfly valve type 567 PVDF Hand lever with index plate



No.	Article / Material	Pieces
3	Disc PVDF	1
5	Bearing bush	2
11	Bush PVDF	
11	O-ring FPM	2
12	Flange gasket FPM	
4	End stop PP Glasfiber Reinforced	1
6	Shaft set	1
7+9	Shaft Chrom Steel 1.4301 AISI 304	
8	Retention ring	2
8	Washer	1
	Hand lever with index plate Lever	1

d63 DN50	d75 DN65	d90 DN80	d110 DN100	d140 DN125	d160 DN150	d225 DN200
175 483 251	175 483 252	175 483 253	175 483 254	175 483 255	175 483 256	175 483 257
175 483 426	175 483 426	175 483 426	175 483 427	175 483 427	175 483 428	175 483 428
175 483 413	175 483 414	175 483 415	175 483 416	175 483 417	175 483 418	175 483 419
161 486 979	161 486 980	161 486 981	161 486 982	161 486 983	161 486 984	161 486 985
167 486 251	167 486 251	167 486 251	167 483 252	167 483 252	167 483 253	167 483 253
161 486 899	161 486 900	161 486 901	161 486 902	161 486 903	161 486 904	161 486 905
161 486 690	161 486 690	161 486 690	161 486 691	161 486 691	161 486 694	161 486 695

No.	Article / Material	Pieces
3	Disc PVDF	1
5	Bearing bush	2
11	Bush PVDF	
11	O-ring FPM	2
12	Flange gasket FPM	
4	End stop PP Glasfiber Reinforced	1
6	Shaft set	1
7+9	Shaft Chrom Steel 1.4301 AISI 304	
8	Retention ring	2
8	Washer	1
	Hand lever with index plate Lever	1

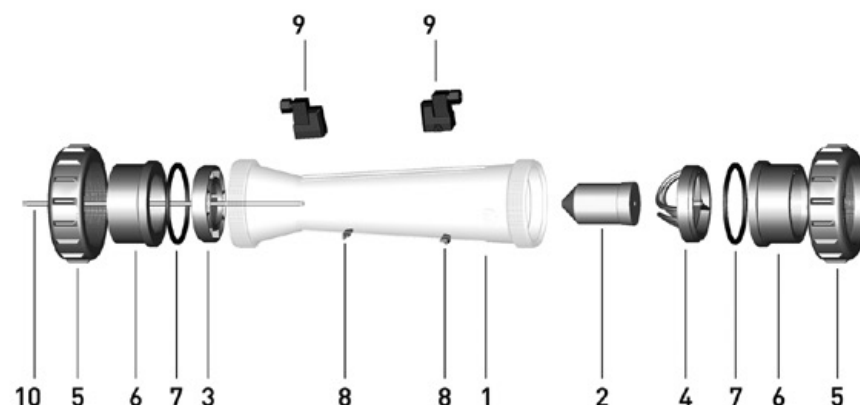
d280 DN250	d315 DN300
175 483 258	175 483 259
175 483 429	175 483 429
175 483 420	175 483 421

No.	Article / Material	Pieces	d280 DN250	d315 DN300
12	Flange gasket FPM	2	161 486 986	161 486 987
4	End stop PP Glasfiber Reinforced	1	167 483 254	167 483 254
6	Shaft set Shaft Chrom Steel 1.4301 AISI 304	1	161 486 906	161 486 907
7+9	Retention ring	2		
8	Washer	1		
	Hand lever with index plate Lever	1	161 486 696	161 486 696

Spare parts

Spare parts variable area flow meters

Variable area flow meter type 335



Taper tube with water scale (1)

- PVC-U transparent



Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transpar- ent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 335 055	198 335 070	198 335 085	
100 - 1000	32	1	25	198 335 056	198 335 071	198 335 086	
150 - 1500	40	1 1/4	32	198 335 057	198 335 072	198 335 087	
250 - 2500	40	1 1/4	32	198 335 058	198 335 073	198 335 088	
200 - 2000	50	1 1/2	40	198 335 059	198 335 074	198 335 089	
300 - 3000	50	1 1/2	40	198 335 060	198 335 075	198 335 090	
600 - 6000	50	1 1/2	40	198 335 061	198 335 076	198 335 091	
600 - 6000	63	2	50	198335062*	198 335 077	198 335 092	
1000 - 10000	63	2	50	198335063*	198 335 078	198 335 093	
1500 - 15000	63	2	50	198335064*	198 335 079	198 335 094	
2000 - 20000	75	2 1/2	65	198335065*	198 335 080	198 335 095	
3000 - 30000	75	2 1/2	65	198335066*	198 335 081	198 335 096	
8000 - 60000	75	2 1/2	65	198335067*	198 335 082	198 335 097	

Taper tube without scale (1)

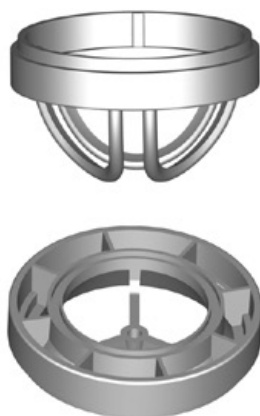
- PVC-U transparent



Scale range [l/h]	d [mm]	Inch	DN [mm]	PVC-U transpar- ent Code	Polyamid Code	Polysulfon Code	
50 - 500	32	1	25	198 335 255	198 335 270	198 335 285	
100 - 1000	32	1	25	198 335 256	198 335 271	198 335 286	
150 - 1500	40	1 1/4	32	198 335 257	198 335 272	198 335 287	
250 - 2500	40	1 1/4	32	198 335 258	198 335 273	198 335 288	
200 - 2000	50	1 1/2	40	198 335 259	198 335 274	198 335 289	
300 - 3000	50	1 1/2	40	198 335 260	198 335 275	198 335 290	
600 - 6000	50	1 1/2	40	198 335 261	198 335 276	198 335 291	
600 - 6000	63	2	50	198335262*	198 335 277	198 335 292	
1000 - 10000	63	2	50	198335263*	198 335 278	198 335 293	
1500 - 15000	63	2	50	198335264*	198 335 279	198 335 294	
2000 - 20000	75	2 1/2	65	198335265*	198 335 280	198 335 295	
3000 - 30000	75	2 1/2	65	198335266*	198 335 281	198 335 296	
8000 - 60000	75	2 1/2	65	198335267*	198 335 282	198 335 297	

Spare parts

Insert PVDF (3,4)



Scale range [l/h]	d [mm]	Inch	DN [mm]	top (4) Code	bottom (3) Code	
50 - 500	32	1	25	198 335 970	198 335 977	
100 - 1000	32	1	25	198 335 970	198 335 977	
150 - 1500	40	1 ¼	32	198 335 971	198 335 978	
250 - 2500	40	1 ¼	32	198 335 971	198 335 978	
200 - 2000	50	1 ½	40	198 335 972	198 335 979	
300 - 3000	50	1 ½	40	198 335 972	198 335 979	
600 - 6000	50	1 ½	40	198 335 972	198 335 979	
600 - 6000	63	2	50	198 335 973	198 335 980	
1000 - 10000	63	2	50	198 335 973	198 335 980	
1500 - 15000	63	2	50	198 335 974	198 335 982	
2000 - 20000	75	2 ½	65	198 335 975	198 335 981	
3000 - 30000	75	2 ½	65	198 335 975	198 335 981	
8000 - 60000	75	2 ½	65	198 335 975	198 335 981	

Float PVDF (2)



Scale range [l/h]	d [mm]	Inch	DN [mm]	Without magnet Code	With magnet (bistabil) Code	
50 - 500	32	1	25	198 335 455	198 335 470	
100 - 1000	32	1	25	198 335 455	198 335 470	
150 - 1500	40	1 ¼	32	198 335 455	198 335 470	
250 - 2500	40	1 ¼	32	198 335 455	198 335 470	
200 - 2000	50	1 ½	40	198 335 456	198 335 471	
300 - 3000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	50	1 ½	40	198 335 457	198 335 471	
600 - 6000	63	2	50	198 335 457	198 335 471	
1000 - 10000	63	2	50	198 335 457	198 335 471	
1500 - 15000	63	2	50	198 335 458	198 335 472	
2000 - 20000	75	2 ½	65	198 335 459	198 335 473	
3000 - 30000	75	2 ½	65	198 335 459	198 335 473	
8000 - 60000	75	2 ½	65	198 335 460	198 335 474	

Guiding rod (10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

Scale range [l/h]	d [mm]	Inch	DN [mm]	Peek Code	Stainless steel Code	
1500 - 15000	63	2	50	198 335 985	198 335 098	
2000 - 20000	75	2 ½	65	198 335 985	198 335 098	
3000 - 30000	75	2 ½	65	198 335 985	198 335 098	
8000 - 80000	75	2 ½	65	198 335 985	198 335 098	

Insert guiding rod PVDF (for 10)

Model:

- Only for DN50 (1'500 - 15'000 l/h) and DN65 (all metering ranges)

Scale range [l/h]	d [mm]	Inch	DN [mm]	Insert guiding rod Code	
1500 - 15000	63	2	50	198 335 986	
2000 - 20000	75	2 ½	65	198 335 987	
3000 - 30000	75	2 ½	65	198 335 987	
8000 - 80000	75	2 ½	65	198 335 987	

Automation and actuators

Pneumatic rotary actuators PA

Pneumatic actuator type PA11/PA21

Fail safe to close (FC)



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FC	10 - 25	3/8 - 1	198 150 127	
PA 21 FC	32 - 50	1 1/4 - 2	198 150 130	

Fail safe to open (FO)



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FO	10 - 25	3/8 - 1	198 150 128	
PA 21 FO	32 - 50	1 1/4 - 2	198 150 131	

Double action (DA)



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 DA	10 - 25	3/8 - 1	198 150 129	
PA 21 DA	32 - 50	1 1/4 - 2	198 150 132	

Fail safe to close (FC) with stroke limiter



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FC	10 - 25	3/8 - 1	198 150 144	
PA 21 FC	32 - 50	1 1/4 - 2	198 150 147	

Fail safe to open (FO) with stroke limiter



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 FO	10 - 25	3/8 - 1	198 150 145	
PA 21 FO	32 - 50	1 1/4 - 2	198 150 148	

Double action (DA) with stroke limiter



Type	DN-DN [mm]	Inch [inch]	Code	
PA 11 DA	10 - 25	3/8 - 1	198 150 146	
PA 21 DA	32 - 50	1 1/4 - 2	198 150 149	

Pneumatic actuator type PA30 PA90

Fail safe to close/fail safe to open (FC/FO)



* Only valid for butterfly valve type 240, 241, 242 and ball valve type 230 - 235

Type	hard anodized Code	nickel plated Code	hard anodized with stroke limiter Code	epoxy coated Code	
PA 30 FC/FO	198 800 757	198 800 034	-	198 811 194	
* PA 30 FO	198 811 025	-	-	-	
PA 35 FC/FO	198 800 037	198 800 052	-	198 800 029	
* PA 35 FO	198 811 026	-	-	-	
PA 40 FC/FO	198 800 728	198 800 004	198 800 017	198 800 025	
* PA 40 FO	198 811 027	-	-	-	

Automation and actuators

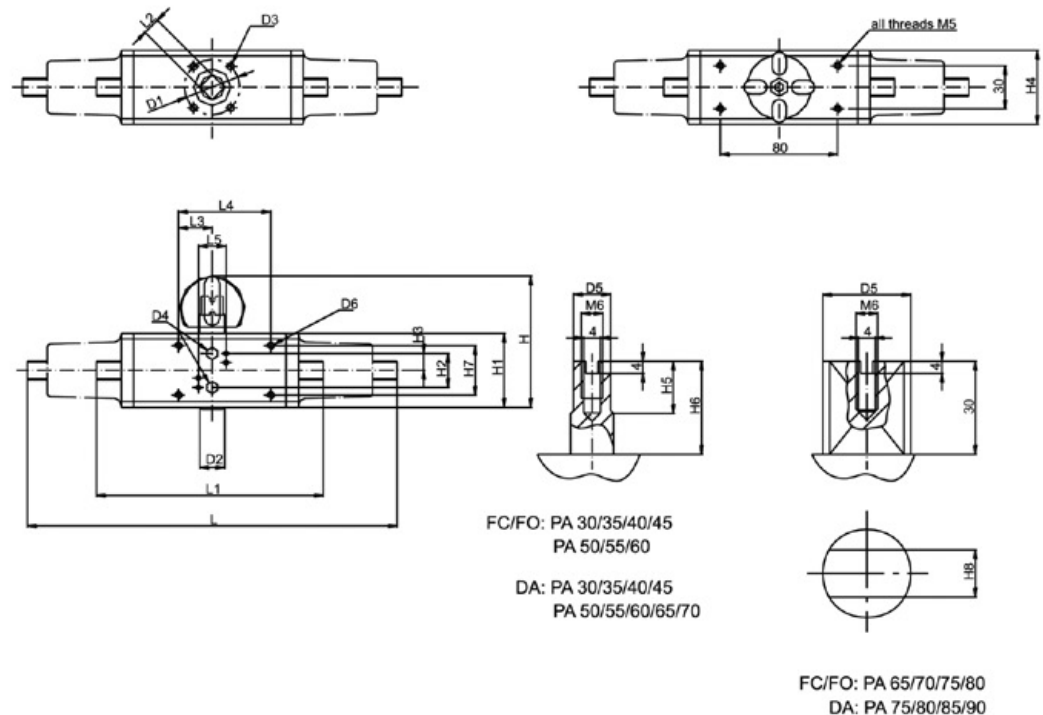
Type	hard anodized Code	nickel plated Code	hard anodized with stroke limiter Code	epoxy coated Code	
PA 45 FC/FO	198 800 039	198 800 054	-	-	
* PA45 FO	198 811 028	-	-	-	
PA 50 FC/FO	198 800 729	198 800 005	198 800 018	198 800 026	
* PA50 FO	198 811 029	-	-	-	
PA 55 FC/FO	198 800 041	198 800 056	-	198 811 190	
* PA 55 FO	198 811 030	-	-	-	
PA 60 FC/FO	198 800 730	198 800 006	198 800 019	-	
PA 65 FC/FO	198 800 043	198 800 058	-	-	
PA 70 FC/FO	198 800 731	198 800 007	198 800 020	198 800 028	
PA 70 FO	198 811 198	-	-	-	
PA 75 FC/FO	198 800 045	198 800 060	-	-	
PA 80 FC/FO	198 800 047	198 800 062	-	-	

Type		D1 [mm]	D2 [mm]	D3[M] [mm]	D4 [inch]	D5 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]
PA 30 FC/FO	F04	42	30	M5x9		10	276	11	35	70	32	102	70
* PA 30 FO	F04	42	30	M5x9	1/8	10	276	11	35	70	32	102	70
PA 35 FC/FO	F05	50	35	M6x11		12	326	14	35	70	32	111	78
* PA 35 FO	F05	50	35	M6x11	1/8	12	326	14	35	70	32	111	78
PA 40 FC/FO	F05	50	35	M6x11		12	370	14	35	70	32	129	86
* PA 40 FO	F05	50	35	M6x11	1/8	12	370	14	35	70	32	129	86
PA 45 FC/FO	F07	70	55	M8x15	1/8	15	411	17	35	70	32	139	96
* PA45 FO	F07	70	55	M8x15	1/8	15	411	17	35	70	32	139	96
PA 50 FC/FO	F07	70	55	M8x15		15	423	17	35	70	32	149	106
* PA50 FO	F07	70	55	M8x15	1/8	15	423	17	35	70	32	149	106
PA 55 FC/FO	F10	102	70	M10x17		19	452	22	35	70	32	161	118
* PA 55 FO	F10	102	70	M10x17	1/8	19	452	22	35	70	32	161	118
PA 60 FC/FO	F10	102	70	M10x17	1/8	19	503	22	35	70	32	173	130
PA 65 FC/FO	F12	125	85	M12x21	1/4		648	27			32	191	148
PA 70 FC/FO	F12	125	85	M12x21			663	27			32	196	153
PA 70 FO	F12	125	85	M12x21	1/4		663	27			32	196	153
PA 75 FC/FO	F14	140	100	M16x25	1/4		824	36			32	229	186
PA 80 FC/FO	F14	140	100	M16x25	1/4		918	36			32	241	198

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 30 FC/FO	21	18	65	13	20	36		
* PA 30 FO	21	18	65	13	20	36		
PA 35 FC/FO	21	18	72	13	20	36		
* PA 35 FO	21	18	72	13	20	36		
PA 40 FC/FO	25	21	80	13	30	36		
* PA 40 FO	25	21	80	13	30	36		
PA 45 FC/FO	25	21	90	16	30	36		
* PA45 FO	25	21	90	16	30	36		
PA 50 FC/FO	25	26	100	17	30	36		
* PA50 FO	25	26	100	17	30	36		
PA 55 FC/FO	25	25	112	19	30	36		
* PA 55 FO	25	25	112	19	30	36		
PA 60 FC/FO	25	32	124	19	30	36		
PA 65 FC/FO	24	34	137				22	
PA 70 FC/FO	24	38	145				24	

Automation and actuators

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 70 FO	24	38	145				24	
PA 75 FC/FO	24	43	166				27	
PA 80 FC/FO	24	44	180				32	



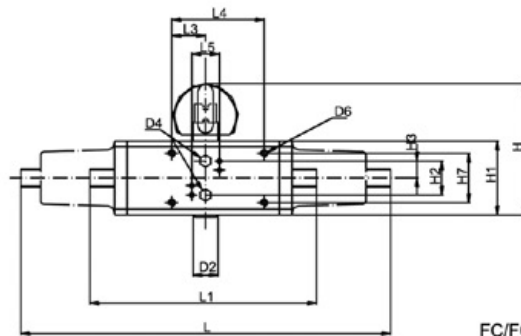
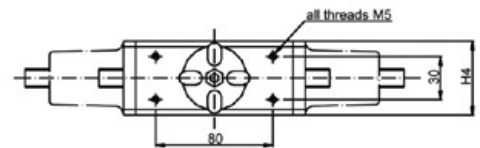
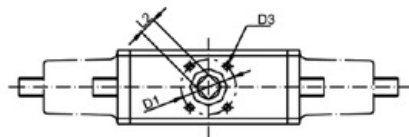
Double acting (DA)

Type	hard anodized Code	
PA 30 DA	198 800 737	
PA 35 DA	198 800 758	
PA 40 DA	198 800 759	
PA 45 DA	198 800 040	
PA 50 DA	198 800 733	
PA 55 DA	198 800 042	
PA 60 DA	198 800 734	
PA 65 DA	198 800 044	
PA 70 DA	198 800 735	
PA 75 DA	198 800 046	
PA 80 DA	198 800 048	
PA 85 DA	198 800 050	
PA 90 DA	198 800 051	

Type		D1 [mm]	D2 [mm]	D3[M] [mm]	D4 [inch]	D5 [mm]	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]	H [mm]	H1 [mm]
PA 30 DA	F03	36	25	M5x9	1/8	9	177	9	35	70		92	60
PA 35 DA	F03	42	30	M5x9	1/8	10	190	11	35	70		98	66
PA 40 DA	F05	42	30	M5x9	1/8	10	198	11	35	70		102	70
PA 45 DA	F05	50	35	M6x11	1/8	12	235	14	35	70		111	78
PA 50 DA	F05	50	35	M6x11	1/8	12	250	14	35	70		129	86
PA 55 DA	F07	70	55	M8x15	1/8	15	279	17	35	70		139	96
PA 60 DA	F07	70	55	M8x15	1/8	15	341	17	35	70		149	106
PA 65 DA	F10	102	70	M10x17	1/8	19	350	22	35	70		161	118
PA 70 DA	F10	102	70	M10x17	1/8	19	381	22	35	70		173	130
PA 75 DA	F12	125	85	M12x21	1/4		416	27			32	191	148
PA 80 DA	F12	125	85	M12x21	1/4		466	27			32	197	153
PA 85 DA	F14	140	100	M16x25	1/4		555	36			32	229	186
PA 90 DA	F14	140	100	M16x25	1/4		581	36			32	241	198

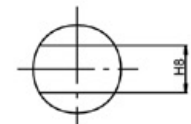
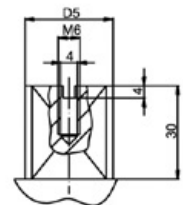
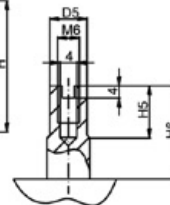
Automation and actuators

Type	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	H6 [mm]	H7 [mm]	H8 [mm]	
PA 30 DA	25	12	55	10	20	36		
PA 35 DA	25	13	60	13	20	36		
PA 40 DA	21	18	65	13	20	36		
PA 45 DA	21	18	72	13	20	36		
PA 50 DA	25	21	80	13	30	36		
PA 55 DA	25	21	90	16	30	36		
PA 60 DA	25	26	100	17	30	36		
PA 65 DA	25	25	112	19	30	36		
PA 70 DA	25	32	124	19	30	36		
PA 75 DA	24	34	137				22	
PA 80 DA	24	38	145				24	
PA 85 DA	24	43	166				27	
PA 90 DA	24	44	180				32	



FC/FO: PA 30/35/40/45
PA 50/55/60

DA: PA 30/35/40/45
PA 50/55/60/65/70



FC/FO: PA 65/70/75/80
DA: PA 75/80/85/90

Automation and actuators

Accessories for pneumatic rotary actuators

For pneumatic actuators type PA30-PA55 and PA11/21

Namur connecting plate

- PA30 - PA55 FC/FO, PA30 - PA65 DA



DN [mm]	Series PA11/21 Code	Series PA30-55 Code	
15	199 190 378	199 190 275	
20	199 190 378	199 190 275	
25	199 190 378	199 190 275	
32	199 190 378	199 190 275	
40	199 190 378	199 190 275	
50	199 190 378	199 190 275	

For pneumatic actuators type PA11 - PA90

Namur mounting flange



No	Code	
3	199 190 281	

Automation and actuators

Electric actuators

Electric actuator type EA11



Note:

F05 (WS11/14) per EN ISO 5211 with adapter 198.000.587

Voltage	Code	
100-230 V~ 24 V= / ~	198 150 180 198 150 181	

Electric actuator type EA21



Note:

F05 (WS11/14) per EN ISO 5211 with adapter 198.000.587

Voltage	Code	
100-230 V~ 24 V= / ~	198 150 182 198 150 183	

Electric actuator type EA31



Note:

F07 (WS 17) per EN ISO 5211

Voltage	Code	
100-230 V~ 24 V= / ~	198 150 184 198 150 185	

Electric actuator type EA42



Note:

F07 (WS 22) per EN ISO 5211

Voltage	Code	
100-230 V~ 24 V= / ~	198 150 186 198 150 187	

Automation and actuators

Accessories for electric actuators

For electric actuators

Type EA11/EA21/EA31/EA42

Heating element



Voltage	Code	
24 V=	199 190 086	

Fail safe return incl. battery kit



Voltage	Code	
24 V=	199 190 085	

Heating element + fail safe return incl. battery kit



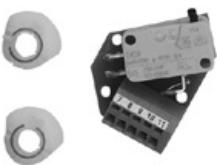
Voltage	Code	
24 V=	199 190 087	

Battery kit (spare)



Voltage	Code	
24 V=	198 151 317	

Limit switch kit with mechanical limit switches AgNi



Voltage	Code	
250 V ~6 A	199 190 092	

For electric actuators

Type EA21/EA31/EA42

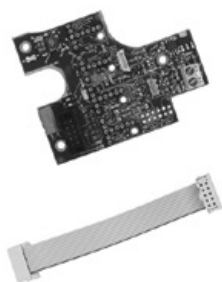
Testing adapter kit



Code	
198 151 426	

Automation and actuators

Monitoring print



Code	
199 190 099	



Cycle time extension

Model:

- Monitoring print required

Code	
199 190 080	



Cycle time monitoring

Model:

- Monitoring print required

Code	
199 190 082	



Cycle counter

Model:

- Monitoring print required

Code	
199 190 083	



Motor current monitoring

Model:

- Monitoring print required

Code	
199 190 081	



Position signalization

Model:

- Enables a 4... 20mA feedback signal
- Must be used with either the PE25 positioner or the monitoring print

Code	
199 190 084	

Automation and actuators

Positioner PE25

Model:

- Positioner must use position signalization

** galvanic isolated set value inputs

* not galvanic isolated set value inputs



Voltage	Code	
* 24 V=	199 190 100	
** 24 V=	199 190 101	



Limit switch kit with gold contacts Au

Voltage	Code	
30 V=, 100mA	199 190 093	



Limit switch kit with inductive switches PNP

Voltage	Code	
5-30 V= 0,1 A	199 190 095	



Assembly kit for 4 limit switches

Model:

- Limit switches need to be ordered separately

Code	
199 190 097	



Limit switch kit with inductive switches NPN

Voltage	Code	
5-30 V= 0,1 A	199 190 096	



Limit switch kit with mechanical limit switches Middle position

Voltage	Code	
4-30 V= 1-100 mA	199 190 094	

Automation and actuators

Accessories for pneumatic stroke actuators

For diaphragm valve type DIASTAR

Min./max. stroke limiter/manual override



DN-DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code	
- 15	199 190 381	199 190 382	199 190 381	
- 20	199 190 382	199 190 382	199 190 382	
- 25	199 190 382	199 190 383	199 190 382	
- 32	199 190 383	199 190 384	199 190 383	
- 40	199 190 384	199 190 385	199 190 384	
- 50	199 190 384	199 190 385	199 190 384	
65 - 80		199 190 318	199 190 318	
* 100 - 150		199 190 319	199 190 319	

Automation and actuators

Pilot valves

Solenoid pilot valve type PV2000

- Version for 3/2-way and 5/2-way valves
- Electrical control over multiple and field bus connector

2 x 3/2-way valve

Model:

- lockable manual override



No	Voltage	Code	
1	24V/DC 100%	199 190 435	

1 x 5/2-way valve



No	Voltage	Code	
2	24 V/DC 100%	199 190 436	

Connection module with D-sub connector



No	Code	
3	199 190 424	

End module



No	Code	
4	199 190 426	

Connection module AS-interface



No	Code	
1	199 190 430	

Connection module profibus



No	Code	
1	199 190 431	

Automation and actuators

Connection module with bus interface



No	Code	
2	199 190 425	

Accessories to type PV2000

Silencer 8mm

Code	
199 190 427	

Plug (white)

d [mm]	Code	
8	199 190 428	
6	199 190 429	

D-Sub connector 25 poles With connection cable

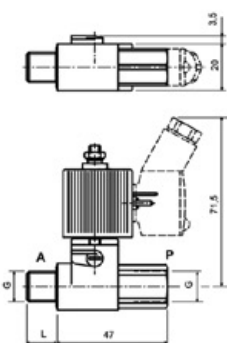
Cable length [m]	Code	
1.50	199 190 432	
3.00	199 190 433	
5.00	199 190 434	

Solenoid pilot valve type PV94

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/8
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



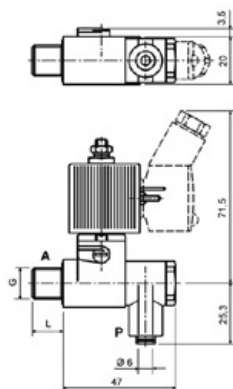
Voltage	DN [mm]	Com- pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	G 1/8	G 1/8	10	48	199 190 498	
24 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 499	
110 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 500	
230 V, 50-60 Hz	1.2	G 1/8	G 1/8	10	48	199 190 501	

Automation and actuators

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection tube push-in 6mm
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass

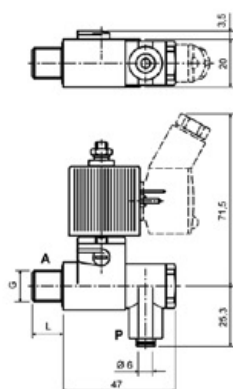


Voltage	DN [mm]	Com- pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	push-in	G 1/8	10	48	199 190 510	
24 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 511	
110 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 512	
230 V, 50-60 Hz	1.2	push-in	G 1/8	10	48	199 190 513	

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/8
- With connector plug form C
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material polyamid / brass



Voltage	DN [mm]	Com- pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.2	NPT 1/8	G 1/8	10	48	199 190 546	
24 V AC	1.2	NPT 1/8	G 1/8	10	48	199 190 561	
110 V, 50-60 Hz	1.2	NPT 1/8	G 1/8	10	48	199 190 547	

Accessory

Model:

- Cable plug to DIN EN 175301-803 (DIN 43 650) form C



Voltage	Version	NBR Code	
0-250 V	no circuitry	199 190 518	
0-24 V	with LED	199 190 519	
0-24 V	with LED and varistor	199 190 520	
0-24 V	with rectifier LED and varistor	199 190 521	
200-240 V	with LED	199 190 522	
200-240 V	with LED and varistor	199 190 523	

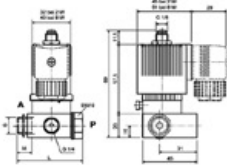
Automation and actuators

Solenoid pilot valve type PV95

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection G 1/4
- Port A actuator connection G 1/8
- With connector plug form A
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC

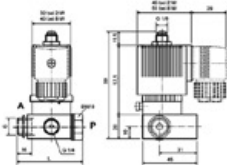


Voltage	DN [mm]	Com- pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	2.0	G 1/4	G 1/8	10	120	199 190 532	
24 V, 50-60 Hz	2.0	G 1/4	G 1/8	10	120	199 190 533	
110 V, 50-60 Hz	2.0	G 1/4	G 1/8	10	120	199 190 534	
230 V, 50-60 Hz	2.0	G 1/4	G 1/8	10	120	199 190 535	

Pilot valve 3/2-ways

Model:

- For direct installation (including valve body and hollow screw)
- Port P compressed air connection NPT 1/8
- Port A actuator connection G 1/4
- With connector plug form A
- With adapter G1/8 to G1/4
- To pneumatic actuators FC/FO (single acting)
- Circuit function C: de-energized closed
- Valve material: brass
- Power consumption: 24VA at AC inrush; 17VA/8W at AC hold; 8W at DC



Voltage	DN [mm]	Com- pressed air con- nection P	Actuator connec- tion	PN	kv-value ($\Delta p=1$ bar) [l/min]	NBR Code	
24 V=	1.5	NPT 1/8	G 1/4	10	120	199 190 554	
110 V, 50-60 Hz	1.5	NPT 1/8	G 1/4	10	120	199 190 555	

Accessory

Model:

- Cable plug to DIN EN 175301-803 (DIN 43 650) form A

Voltage	Version	NBR Code	
0-250 V	no circuitry	199 190 540	
0-24 V	with LED	199 190 541	
0-24 V	with LED and varistor	199 190 542	
0-24 V	with rectifier LED and varistor	199 190 543	
200-240 V	with LED	199 190 544	
200-240 V	with LED and varistor	199 190 545	

Pilot valve type 5470

- to pneumatic actuators DA (Double acting)
- Version with NAMUR connection
- Circuit function: 4/2-way valve, in rest position pressure inlet 1 connected to outlet 2, outlet 4 exhausted
- Valve material: polyamid

Automation and actuators

- Electrical connection: cable plug

Pilot valve 4/2-ways

- For AC 50-60 Hz and DC



Voltage	DN [mm]	NBR Code	
230 V, AC/DC	4	199 190 302	
115 V, AC/DC	4	199 190 303	
24 V, AC/DC	4	199 190 304	

Pilot valve type MNL532

Model:

- With NAMUR connection and two silencers/throttle screws

Mode of action:

- 3/2-way valve, in rest position pressure inlet 1 closed, outlet 3 exhausted
- 5/2-way valve, in rest position pressure inlet 1 connected to outlet 4, outlet 3 exhausted
- Material of body: Aluminum
- **to pneumatic actuators**
- Electrical connection: cable plug

Pilot valve 3/2-5/2-ways



Voltage	DN [mm]	Inch	NBR Code	
230 V, AC	5	1/8	199 190 360	
110 V, AC	5	1/8	199 190 359	
48 V, AC	5	1/8	199 190 361	
24 V, AC	5	1/8	199 190 358	
24 V, DC	5	1/8	199 190 357	

Automation and actuators

Position indicator

For butterfly valve type 037M/038M

With electric position indicator

- Limit switch box and hand lever included

Limit switch box with 2 auxiliary switches

- Solution for PNP, NPN, NAMUR on request



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 151 341	
110 - 110	100 - 100	4	198 151 342	
140 - 140	125 - 125	5	198 151 343	
160 - 225	150 - 200	6-8	198 151 344	

For actuator units pneumatic type PA11 - PA90

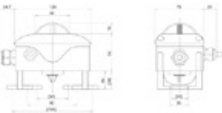
Namur mounting flange



No	Code	
3	199 190 281	

Limit switch box with 2 auxiliary switches

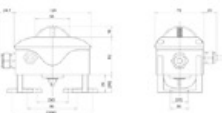
- Including namur mounting flange



Voltage	Code	
250 V ~/10 A	199 190 282	

Limit switch box with 2 inductive auxiliary switches NPN With luminous diode

- Including namur mounting flange



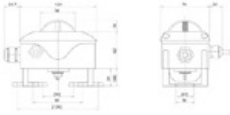
Voltage	Code	
10...30 V/ 0.1 A	199 190 283	

Automation and actuators

Limit switch box with 2 inductive auxiliary switches PNP With luminous diode

- Including namur mounting flange

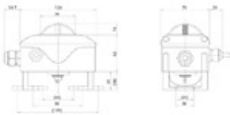
Voltage	Code	
10...30 V/ 0.1 A	199 190 284	



Limit switch box with 2 inductive auxiliary switches Namur Eexi (intrinsically safe)

- Including namur mounting flange

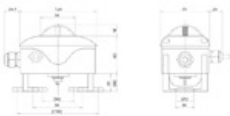
Voltage	Code	
5-15 V	199 190 285	



Limit switch box with 2 auxiliary switches Eexd

- Including namur mounting flange

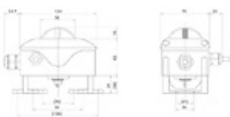
Voltage	Code	
250 V ~/5 A	199 190 286	



Limit switch box with 2 auxiliary switches With gold contact

- Including namur mounting flange

Voltage	Code	
30 V =/ 1-100 mA	199 190 287	



For diaphragm valve type DIASTAR

Electric position indicator with 2 auxiliary switches Ag Ni

- Connection: Plug

DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-1	250 V~ 6 A	199 190 305	
65 - 150	2 ½ - 6	ER 53-1	250 V~ 6 A	199 190 293	



Automation and actuators

Electric position indicator with 2 auxiliary switches With gold contact

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-2	4-30 V= 1-100 mA	199 190 306	
65 - 150	2 ½ - 6	ER 53-2	4-30 V= 1-100 mA	199 190 297	

Electric position indicator with 2 inductive switches NPN

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-3	5-30 V= 100 mA	199 190 307	
65 - 150	2 ½ - 6	ER 53-3	10-30 V= 100 mA	199 190 294	

Electric position indicator with 2 inductive switches PNP

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-4	5-30 V= 100 mA	199 190 308	
65 - 150	2 ½ - 6	ER 53-4	10-30 V= 100 mA	199 190 295	

Electric position indicator with 2 inductive switches Namur Eexi (intrinsically safe)

- Connection: Plug



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-5	8 V=	199 190 309	
65 - 150	2 ½ - 6	ER 53-5	8 V=	199 190 296	

Electric position indicator with 2 auxiliary switches Eexd

- Connection: Cable, 2 m



DN-DN [mm]	Inch [inch]	Type	Voltage	Code	
15 - 50	½ - 2	ER 52-6	250 V ~ 5 A	199 190 405	
65 - 150	2 ½ - 6	ER 53-6	250 V ~ 5 A	199 190 298	

Adapter complete

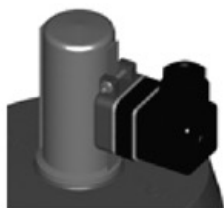
- For combination Electric Position Indicator / Lift limiter / Manual override



DN-DN [mm]	Type	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO/DA Code	
- 15	ER 52	199 190 387	199 190 387	199 190 387	
- 20	ER 52	199 190 387	199 190 387	199 190 387	
- 25	ER 52	199 190 387	199 190 388	199 190 387	
- 32	ER 52	199 190 388	199 190 389	199 190 388	
- 40	ER 52	199 190 389	199 190 389	199 190 389	
- 50	ER 52	199 190 389	199 190 389	199 190 389	
65 - 150	ER 53		199 190 310	199 190 310	

Automation and actuators

Electric position indicator with reed contact Type ER-55 for Diastar DN 15-150



For one position open or closed

Further position indicator with limit contact (198 804 875)

Connection: plug

Voltage: 250V ~ 200 mA

DN [mm]	Type	Ten/028 FC Code	Ten/Sixteen/025 FC/FO/DA Code	
15	ER 55-1	199 190 462	199 190 462	
20	ER 55-1	199 190 462	199 190 462	
25	ER 55-1	199 190 462	199 190 462	
32	ER 55-1	199 190 462	199 190 462	
40	ER 55-1	199 190 462	199 190 462	
50	ER 55-1	199 190 462	199 190 462	
65	ER 55-2		199 190 464	
80	ER 55-2		199 190 464	
100	ER 55-2		199 190 464	
150	ER 55-2		199 190 464	

Limit contact to ER55



Code	
198 804 875	

Automation and actuators

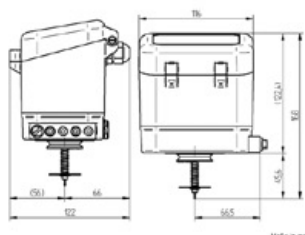
Controllers

Digital electro-pneumatic positioner

- Other versions and accessories on request

Without feedback signal

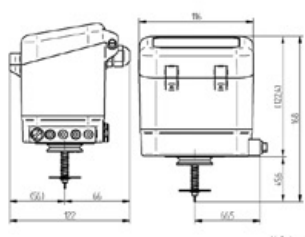
- For actuators function FC
- For actuators function FO only possible by assembly in the factory



No	DSR 500-1 for Diastar DN 15-50 FC Code	DSR 500-2 for Diastar DN 65-150 FC Code	DSR 500-3 for pneumatic rotary actuator Code	
1	199 190 001	199 190 029	199 190 108	

With feedback signal 4-20mA

- For actuators function FC
- For actuators function FO only possible by assembly in the factory

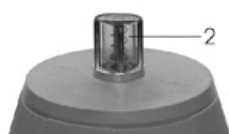


No	DSR 500-1 for Diastar DN 15-50 FC Code	DSR 500-2 for Diastar DN 65-150 FC Code	DSR 500-3 for pneumatic rotary actuator Code	Feedback module 4-20mA Code	
1	199 190 575	199 190 576	199 190 577	199 190 109	

Accessories for digital electro-pneumatic positioner

Attachment kit to type DSR 500-1

With optical position indicator for Diastar DN 15-50



Pos	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
2	15		199 190 417		
2	20	199 190 417	199 190 417	199 190 417	
2	25	199 190 417	199 190 418	199 190 417	

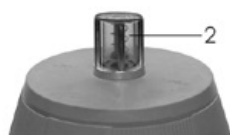
Automation and actuators

Pos	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
2	32	199 190 418	199 190 418	199 190 418	
2	40	199 190 418	199 190 418	199 190 418	
2	50	199 190 418	199 190 418	199 190 418	



Attachment kit to type DSR 500-1 Without optical position indicator for Diastar DN 15-50

No	DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
3	15		199 190 414		
3	20	199 190 414	199 190 414	199 190 414	
3	25	199 190 414	199 190 415	199 190 414	
3	32	199 190 415	199 190 415	199 190 415	
3	40	199 190 415	199 190 415	199 190 415	
3	50	199 190 415	199 190 415	199 190 415	



Attachment kit to type DSR 500-2 For Diastar DN 65-150

Part No.	with optical position indicator Code	without optical position indicator Code	
2	199 190 419		
3		199 190 416	



Attachement kit to type DSR 500-3 For rotary actuators

Code	
199 190 281	

Electro-pneumatic positioner Positioner type Eckardt SRI 986



No	single acting (FC/FO) Code	double acting (DA) Code	
1	199 190 348	199 190 349	

Automation and actuators

Accessories for electro-pneumatic positioner

Attachment kit for type Eckardt SRI 986



No	Typ DIASTAR DN 15-150 Code	Type PA 30 - PA 90 Code	Electr. pos. trans- former with 4- 20mA output Code	
2	199 190 350	199 190 351	199 190 395	



Positioner mounting flange for type DIASTAR

No	DN-DN [mm]	Ten/028 FC Code	Sixteen/025 FC Code	Ten/025 FO Code	
3	- 15		199 190 372	199 190 372	
3	- 20	199 190 372	199 190 372	199 190 372	
3	- 25	199 190 372	199 190 373	199 190 373	
3	- 32	199 190 373	199 190 373	199 190 373	
3	- 40	199 190 373	199 190 373	199 190 373	
3	- 50	199 190 373	199 190 373	199 190 373	
3	65 - 150		199 190 311	199 190 311	

Industrial controller type PE70

For single loop only

Model:

- 1 sensor input
- Continuous control
- 3-point control
- L/W/H: 128/48/96



Type	Voltage	Code	
PE70-3	90..250 V ~	199 192 162	
PE70-4	24 V ~/ 18..30 V=	199 192 163	

For ratio and single loop control

Model:

- 2 sensor inputs
- Ratio control
- Continuous control
- 3-point control
- L/W/H: 128/48/96



Type	Voltage	Code	
PE70-1	90..250 V ~	199 192 160	
PE70-2	24 V ~/ 18..30 V=	199 192 161	

Automation and actuators

Assembly parts for butterfly valves

Hand lever kit for type 037M/038M



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 803 049	
110 - 110	100 - 100	4-5	198 803 050	
140 - 140	125 - 125	6	198 803 051	
160 - 225	150 - 200	8	198 803 052	
280 - 315	250 - 300	10-12	198 803 645	

Intermediate element

Pneumatic type 240 / 241 / 242

Without manual override

d [mm]	DN [mm]	Type of actuator	Code	
63	50	PA30 FC/FO	198 000 595	
63	50	PA35 DA	198 000 595	
75	65	PA30 FC/FO	198 000 595	
75	65	PA35 DA	198 000 595	
90	80	PA40 DA	198 000 595	
90	80	PA35 FC/FO	198 000 595	
110	100	PA40 FC/FO	198 000 600	
110	100	PA45 DA	198 000 600	
140	125	PA45 DA	198 000 600	
140	125	PA45 FC/FO	198 000 597	
160	150	PA55 DA	198 000 600	
160	150	PA50 FC	198 000 599	
225	200	PA55 FC/FO	198 000 598	
225	200	PA55 DA	198 000 600	
280	250	PA65 FC/FO	198 000 730	
280	250	PA65 DA	198 000 731	
315	300	PA70 FC/FO	198 000 730	
315	300	PA70 DA	198 000 731	

Electric type 140 / 141 / 142

Without manual override

d [mm]	DN [mm]	Type of actuator	Code	
63	50	EA31	198 000 601	
75	65	EA31	198 000 601	
90	80	EA31	198 000 601	
110	100	EA31	198 000 602	
140	125	EA31	198 000 602	
160	150	EA31	198 000 599	
225	200	EA42	198 000 603	
280	250	EA42	198 000 732	
315	300	EA42	198 000 732	

Electric type 140 / 141 / 142

With manual override

d-d [mm]	DN-DN [mm]	Type of actuator	Code	
63 - 90	50 - 80	EA31	198 000 623	
110 - 140	100 - 125	EA31	198 000 624	
160 -	150 -	EA31	198 000 625	
225 -	200 -	EA42	198 000 627	

Automation and actuators

Gear operated with handwheel 567 / 568

d [mm]	DN [mm]	Code	
63	50	198 000 621	
75	65	198 000 621	
90	80	198 000 621	
110	100	198 000 622	
140	125	198 000 622	
160	150	198 000 599	
225	200	198 000 599	
280	250	198 000 880	
315	300	198 000 880	

Hand lever kit with fine adjustment For type 037M/038M



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 803 384	
110 - 110	100 - 100	4	198 803 385	
140 - 140	125 - 125	5	198 803 386	
160 - 225	150 - 200	6-8	198 803 387	

Reduction gear with handwheel for type 037G/038G

- Including assembly kit



d-d [mm]	DN-DN [mm]	Inch	Code	
63 - 90	50 - 80	2-3	198 806 690	
110 - 140	100 - 125	4-5	198 806 691	
160 - 225	150 - 200	6-8	198 806 692	
225 - 315	200 - 300	8-12	198 806 693	

Intermediate element to type 037E/038E

Without manual override

d-d [mm]	DN-DN [mm]	Inch	Type	Code	
63 - 90	50 - 80	2-3	EA 31	198 000 411	
110 - 140	100 - 125	4-5	EA 31	198 000 412	
160 - 225	150 - 200	6-8	EA 42	198 000 415	
- 280	- 250	10	EA 42	198 000 416	

With manual override

Model:

- EA30/41 no longer available, replacement by EA31/42
- EA50 will soon be phased out

d-d [mm]	DN-DN [mm]	Inch	Type	Code	
63 - 90	50 - 80	2-3	EA 31	198 000 338	
110 - 140	100 - 125	4-5	EA 42	198 000 339	
160 - 225	150 - 200	6-8	EA 42	198 000 340	
- 280	- 250	10	EA 50	-	

Automation and actuators

Intermediate element to type 037P/038P

Without manual override

d [mm]	DN [mm]	Inch	Type of actuator	Code	
63	50	2	PA30 FC/FO	198 000 382	
63	50	2	PA35 DA	198 000 382	
75	65	2 ½	PA30 FC/FO	198 000 382	
75	65	2 ½	PA35 DA	198 000 382	
90	80	3	PA35 FC/FO	198 000 383	
90	80	3	PA35 DA	198 000 384	
110	100	4	PA40 FC/FO	198 000 385	
110	100	4	PA45 DA	198 000 385	
140	125	5	PA45 FC/FO	198 000 386	
140	125	5	PA45 DA	198 000 387	
160	150	6	PA50 FC/FO	198 000 388	
160	150	6	PA55 DA	198 000 388	
225	200	8	PA60 FC/FO	198 000 389	
225	200	8	PA60 DA	198 000 390	
280	250	10	PA60 FC/FO	198 000 391	
280	250	10	PA65 DA	198 000 391	
315	300	12	PA70 FC/FO	198 000 392	
315	300	12	PA70 DA	198 000 393	

Automation and actuators

Assembly parts for ball valves

Retrofit ball valve bracket

For EA11/21 PA11/21 to ball valve 346

Type of actuator	d-d [mm]	Inch [inch]	DN-DN [mm]	Master gauge	Code	
PA11	- 20	½	- 15	F04	198 000 608	
PA11 / EA11/21	16 - 20	¾ - ½	10 - 15	F05	198 000 580	
PA11	- 25	¾	- 20	F04	198 000 609	
EA11/21	- 25	¾	- 20	F05	198 000 604	
PA11	- 32	1	- 25	F04	198 000 610	
PA11 / EA11/21	- 32	1	- 25	F05	198 000 582	
PA21 EA11/21	- 40	1 ¼	- 32	F05	198 000 605	
PA21 EA11/21	- 50	1 ½	- 40	F05	198 000 606	
PA21 EA11/21	- 63	2	- 50	F05	198 000 607	

Ball valve bracket type 175-7/275-7

Model:

- For EA21 and PA11/21 to ball valve 343

Type of actuator	d-d [mm]	Inch [inch]	DN-DN [mm]	Master gauge	EPDM Code	
EA21 / PA11	16 - 20	¾ - ½	10 - 15	F04 / F05	198 000 570	
EA21 / PA11	- 25	¾	- 20	F04 / F05	198 000 571	
EA21 / PA11	- 32	1	- 25	F04 / F05	198 000 572	
EA21 / PA21	- 40	1 ¼	- 32	F05	198 000 573	
EA21 / PA21	- 50	1 ½	- 40	F05	198 000 574	
EA21 / PA21	- 63	2	- 50	F05	198 000 575	

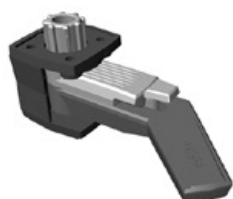
Ball valve bracket type 178/278

Model:

- For EA21 and PA11/21 to ball valve 343 vertical
- 3-way ball valve only with EA21

Type of actuator	d-d [mm]	Inch [inch]	DN-DN [mm]	Master gauge	EPDM Code	
PA11 / EA11/21	16 - 20	¾ - ½	10 - 15	F05	198 000 580	
PA11 / EA21	- 25	¾	- 20	F05	198 000 581	
PA11 / EA11/21	- 32	1	- 25	F05	198 000 582	
PA21 / EA21	- 40	1 ¼	- 32	F05	198 000 583	
PA21 / EA21	- 50	1 ½	- 40	F05	198 000 584	
PA21 / EA21	- 63	2	- 50	F05	198 000 585	

Intermediate element to type 230-235 with manual override



DN-DN [mm]	Inch [inch]	Code	
10 - 25	¾ - 1	198 000 500	
32 - 50	1 ¼ - 2	198 000 501	

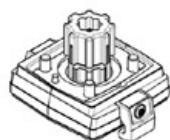
Automation and actuators

Adapter plate incl. coupling

For actuator units electric type EA11/EA21

Pneumatic type PA11/PA21

To type 546



d-d [mm]	Inch [inch]	DN-DN [mm]	Code	
16 - 20	¾ - ½	10 - 15	198 150 556	
25 - 32	¾ - 1	20 - 25	198 150 557	
40 - 50	1 ¼ - 1 ½	32 - 40	198 150 558	
- 63	- 2	- 50	198 150 559	

Intermediate element

(screws/distance pieces/reducing bush)

For actuator units pneumatic PA30-45

To type 546

d [mm]	DN [mm]	Type of actuator	Code	
75	65	PA30 FC/FO	198 000 595	
75	65	PA35 DA	198 000 595	
90	80	PA35 FC/FO	198 000 596	
90	80	PA40 DA	198 000 595	
110	100	PA40 FC/FO	198 000 599	
110	100	PA45 DA	198 000 599	

Intermediate element

(screws/distance pieces/reducing bush)

For actuator unit EA31

To type 546

d-d [mm]	DN-DN [mm]	Code	
75 - 90	65 - 80	198 000 601	
- 110	- 100	198 000 602	

Intermediate element to type 108

With manual override

d [mm]	d-d [mm]	DN [mm]	DN-DN [mm]	Inch	Type	Code	
75	-	65	-	2 1/2	EA 31	198 000 132	
90	-	80	-	3	EA 31	198 000 133	
	110 - 160		100 - 150	4 / 6	EA 31 / EA 41	198 000 134	

Intermediate element to type 208

Without manual override (with flanges)

d [mm]	DN [mm]	Inch [inch]	Type	Code	
75	65	2 ½	PA 40 FC/FO	198 000 236	
75	65	2 ½	PA 40 DA	198 000 237	
90	80	3	PA 50 FC/FO	198 000 238	
90	80	3	PA 50 DA	198 000 239	
110 - 160	100 - 150	4 - 6	PA 50 FC/FO	198 000 240	
110 - 160	100 - 150	4 - 6	PA 50 DA	198 000 241	

Automation and actuators

Without manual override (with unions)

d [mm]	DN [mm]	Inch	Type	Code	
75	65	2 1/2	PA 40 FC/FO	198 000 276	
75	65	2 1/2	PA 40 DA	198 000 277	
90	80	3	PA 50 FC/FO	198 000 278	
90	80	3	PA 50 DA	198 000 279	
110	100	4	PA 50 FC/FO	198 000 280	
110	100	4	PA 50 DA	198 000 281	

Assembly parts for actuators

Adapter set for PA11

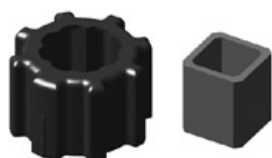
F04 (WS11) per EN ISO 5211



Code	
198 000 586	

Adapter set for PA21 EA11 EA21

F05 (WS11/14) per EN ISO 5211



Code	
198 000 587	