

Actuated Valves

Type 01313 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, PN50

Bronze body and stainless steel topwork (internal parts bronze)

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01313.X.*010

Socket end for copper pipes acc. to DIN EN 12449 or ASTM B88

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Socket end for stainless steel pipes acc. to ISO 1127
- Actuator "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc

Applications:

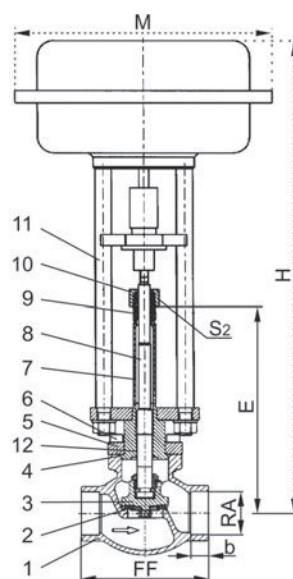
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	CC491K	B 62 UNS C83600
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	CW614N	B 283 UNS C38500
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	CW614N	B 283 UNS C38500
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 01313 - Standard design	Technical data	10	15	20	25	32	40	50
Nominal size	DN							
Dimension code	.X.	X=DNRA, Example: valve DN 15 for copper pipe RA Ø 18mm, X=1518						
Face-to-face dimension	FF	60	85	85	115	115	140	160
Height	H	dependent on actuator						
Length	E	195	195	200	200	230	230	235
Outside pipe-Ø	RA	dependent on order						
Socket depth	b	6	6	8	8	10	13	20
Actuator-Ø	M	dependent on actuator						
Wrench size across flats	S ₂	30	30	30	30	36	36	36
Weight w/o actuator	ca. kg	1.6	2.3	2.7	3.1	4.3	6.2	9.2
Kvs-Value	m ³ /h	1.6	4.3	6.7	11.5	12.1	22.6	37.1
Cv-Value	gal/min	1.9	5.0	7.8	13.4	14.1	26.3	43.2
Stroke	mm	10	10	7	9	9	11	15

Dimensions in mm.

Actuated Valves

Type 01313 - Actuated Globe Valve

HEROSE



Cryogenic-Globe Valves with Pneumatic Actuator, PN50

Bronze body and stainless steel topwork (internal parts bronze)

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01313.X.*017

Complete with stainless steel stubs acc. to DIN EN 10216-5 or ASTM A312

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Actuator "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc
- Valve with control disc (tapered design)

Applications:

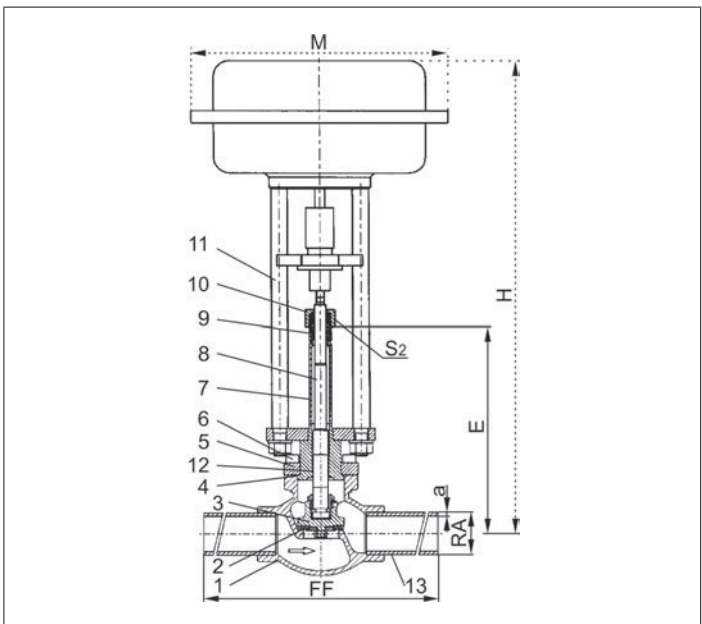
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	CC491K	B 62 UNS C83600
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	CW614N	B 283 UNS C38500
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	CW614N	B 283 UNS C38500
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900
13 Stainless steel stubs	1.4306	A 312 TP304L

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 01313 - Standard design	Technical data								
Nominal size	DN	10	10	15	20	25	32	40	50
Dimension code	.X.	1012	1017	1521	2027	2533	3242	4048	5060
Face-to-face dimension	FF	210	210	235	235	265	265	290	310
Height	H	dependent on actuator							
Length	E	195	195	195	200	200	230	230	235
Outside pipe-Ø ISO 1127	RA	12.0	17.2	21.3	26.9	33.7	42.4	48.3	60.3
Wall thickness pipe ISO 1127	a	1.0	2.3	2.6	2.9	3.2	3.2	3.6	3.6
Outside pipe-Ø ASTM A312	RA	-	17.15	21.34	26.67	33.4	42.16	48.26	60.33
Wall thickness pipe ASTM A312	a	dimensions acc. to S10 or S40							
Actuator-Ø	M	dependent on actuator							
Wrench size across flats	S ₂	30	30	30	30	30	36	36	36
Weight w/o actuator	ca. kg	1.75	1.85	2.6	3.0	3.5	4.7	6.7	9.8
Kvs-Value	m ³ /h	1.6	2.2	4.3	6.7	11.5	12.1	22.6	37.1
Cv-Value	gal/min	1.9	2.6	5.0	7.8	13.4	14.1	26.3	43.2
Stroke	mm	10	10	10	7	9	9	11	15

Dimensions in mm.



Actuated Valves

Type 01314 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, PN50

Bronze body and stainless steel topwork (internal parts bronze)

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01314.X.*011

Female thread connection (G) acc. to ISO 228/1

Part No. 01314.X.*016

Female thread connection NPT acc. to ANSI B 1.20.1

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Actuator "cleaned and degreased for oxygen service"
- Electric actuator · Valve with check disc

Applications:

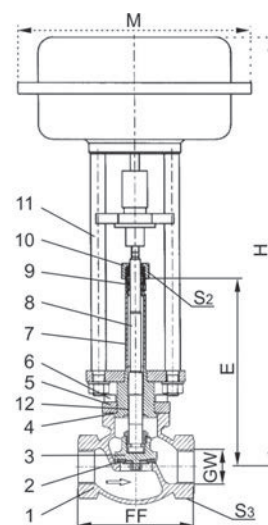
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	CC491K	B 62 UNS C83600
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	CW614N	B 283 UNS C38500
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	CW614N	B 283 UNS C38500
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 01314 - Standard design	Technical data								
Nominal size	DN	10	10	15	20	25	32	40	50
Thread size	GW	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Dimension code	.X.	0200	0300	0400	0600	1000	1200	1400	2000
Face-to-face dimension	FF	60	60	85	85	115	115	140	160
Height	H	dependent on actuator							
Length	E	195	195	195	200	200	230	230	235
Actuator-Ø	M	dependent on actuator							
Wrench size across flats	S ₂	30	30	30	30	30	36	36	36
Wrench size across flats	S ₃	rund	rund	30	36	41	rund	60	75
Weight w/o actuator	ca. kg	1.6	1.6	2.3	2.7	3.1	4.3	6.2	9.2
Kvs-Value	m ³ /h	1.6	2.2	4.3	6.7	11.5	12.1	22.6	37.1
Cv-Value	gal/min	1.9	2.6	5.0	7.8	13.4	14.1	26.3	43.2

Dimensions in mm.

Actuated Valves

Type 02413 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, PN50

Bronze body and stainless steel topwork, inner parts in brass

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 02413.X.*011

Male thread for union connection

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Socket end for stainless steel pipes acc. to ISO 1127
- Actuator "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc

Applications:

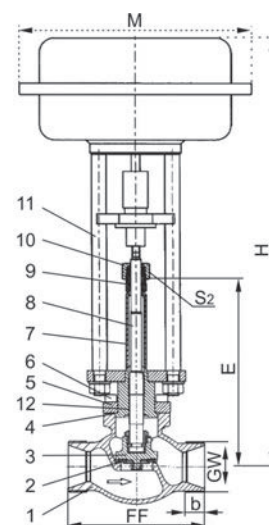
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	CC491K	B 62 UNS C83600
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	CW614N	B 283 UNS C38500
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	CW614N	B 283 UNS C38500
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 02413 - Standard design	Technical data					
Nominal size	DN	10	20	32	40	50
Dimension code	.X.	0100	0200	0320	0400	0500
Face-to-face dimension	FF	60	85	115	140	160
Union thread	GW	M26x1.5	M40x2.0	M55x2.0	M65x2.0	M78x2.0
Height	H	dependent on actuator				
Length	E	195	200	230	230	235
Thread length	b	10	11	14	17	20
Actuator-Ø	M	dependent on actuator				
Wrench size across flats	S ₂	30	30	36	36	36
Weight w/o actuator	ca. kg	1.6	2.7	4.3	6.2	9.2
Kvs-Value	m ³ /h	2.2	6.7	12.1	22.6	37.1
Cv-Value	gal/min	2.6	7.8	14.1	26.3	43.2

Dimensions in mm.

Actuated Valves

Type 01343 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, (DN100/150=PN40)

Stainless steel body and topwork

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01343.X.*01*

Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Part No. 01343.X.*014

Socket weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Available accessories:

- Solenoid valve · Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Welded stainless steel stubs acc. to ISO 1127 or ASTM A312 - length FF + 200mm
- Actuator "cleaned and degreased for oxygen service"
- Electric actuator · Valve with check disc, valve with control disc (tapered design)

Applications:

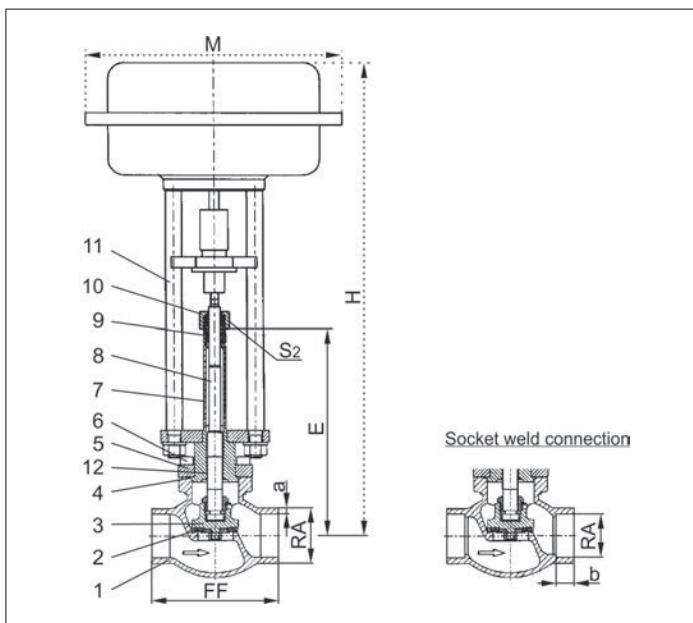
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a Valve seal from DN65	PTFE	
3 Disc	1.4301	A 276 Grade 304
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE / MICA	
10 Gland nut	1.4305	A 276 Grade 303
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 01343 - Standard	Technical data													
Nominal size	DN	10	15	15	20	25	32	40	40	50	65	80	100	150
Dimension code	.X.	1012	1517	1521	2026	2533	3238	4042	4048	5060	657x	8088	0114	0168
Face-to-face dimension	FF	70	85	85	100	115	115	130	130	155	205	245	280	400
Height	H	dependent on actuator												
Length	E	195	195	195	200	200	230	230	230	235	300	300	300	300
Outside pipe-Ø ISO 1127	RA	12.0	17.2	21.3	26.9	33.7	38.0	42.4	48.3	60.3	76.1	88.9	114.3	168.3
Wall thickness pipe ISO 1127	a	1.0	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.2	6.0	7.1
Outside pipe-Ø ASTM A312	RA	13.72	17.15	21.34	26.67	33.40	-	42.16	48.26	60.33	73.03	88.90	114.3	168.3
Wall thickness pipe ASTM A312	a	dimensions acc. to S10 or S40												
Socket depth	b	6	10	10	13	13	-	13	13	16	16	16	20	20
Actuator-Ø	M	dependent on actuator												
Wrench size across flats	S ₂	30	30	30	30	30	36	36	36	36	36	36	41	41
Weight w/o actuator	ca. kg	1.9	2.15	2.2	2.4	3.1	3.8	6.5	6.5	9.0	15.2	20.0	28.0	60.9
Kvs-Value	m ³ /h	1.6	3.8	4.3	6.7	11.5	14.0	20.6	22.6	37.1	71.1	104.0	170.0	350.0
Cv-Value	gal/min	1.9	4.4	5.0	7.8	13.4	16.2	23.9	26.3	43.2	82.7	120.9	195.2	401.8
Stroke	mm	10	10	10	7	9	9	11	11	15	23	23	30	40

Dimensions in mm. Compliance of tightness requirements acc. to EN 1626 for DN150 up to 20 bar differential pressure.

Actuated Valves

Type 03343 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, PN16

Stainless steel body and topwork

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 03343.X.*014

Flanged connection acc. to DIN EN 1092-1 PN16

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Actuator - "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc
- Valve with control disc (tapered design)
- Nominal sizes DN15, DN20 and DN150 with welding-neck flange

Applications:

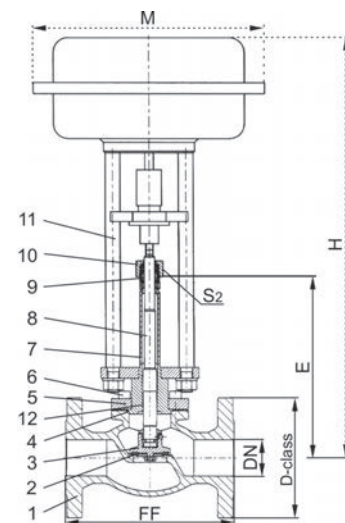
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a Valve seal from DN65	PTFE	
3 Disc	1.4301	A 276 Grade 304
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	1.4305	A 276 Grade 303
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03343 - Standard design	Technical data								
Nominal size	DN	25	40	50	65	80	100	125	150
Dimension code - Flange EN 1092-1 PN40	.X.	0250	0400	0500	0650	0800	1000	1250	1500
Flange-Ø	D-PN	115	150	165	185	200	235	250	285
Face-to-face dimension	FF	160	200	230	290	310	350	390	510
Height	H	dependent on actuator							
Length	E	200	230	235	300	300	300	300	350
Actuator-Ø	M	dependent on actuator							
Wrench size across flats	S ₂	30	36	36	36	36	41	41	41
Weight w/o actuator	ca. kg	5.4	11.2	15.3	23.6	31.0	46.8	56.0	68.5
Kvs-Value	m ³ /h	11.5	22.6	37.1	71.1	104.0	170.0	170.0	350.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2	195.2	401.8
Stroke	mm	9	11	15	23	23	30	30	40

Dimensions in mm.

Actuated Valves

Type 03343 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, PN40

Stainless steel body and topwork

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 03343.X.*012

Flanged connection acc. to DIN EN 1092-1 PN40

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Actuator - "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc
- Valve with control disc (tapered design)
- Nominal sizes DN15, DN20 and DN150 with welding-neck flange

Applications:

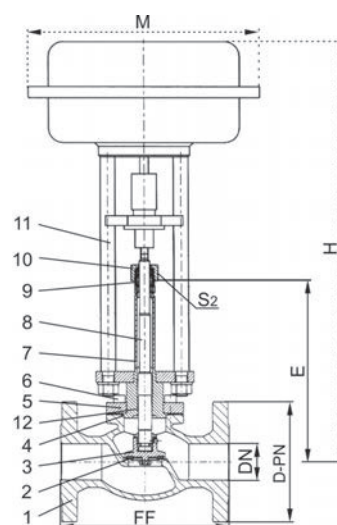
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a Valve seal from DN65	PTFE	
3 Disc	1.4301	A 276 Grade 304
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	1.4305	A 276 Grade 303
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03343 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code - Flange EN 1092-1 PN40	.X.	0250	0400	0500	0650	0800	1000
Flange-Ø	D-PN	115	150	165	185	200	235
Face-to-face dimension	FF	160	200	230	290	310	350
Height	H	dependent on actuator					
Length	E	200	230	235	300	300	300
Actuator-Ø	M	dependent on actuator					
Wrench size across flats	S ₂	30	36	36	36	36	41
Weight w/o actuator	ca. kg	5.4	11.2	15.3	23.6	31.0	46.8
Kvs-Value	m ³ /h	11.5	22.6	37.1	71.1	104.0	170.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2
Stroke	mm	9	11	15	23	23	30

Dimensions in mm.

Actuated Valves

Type 03343 - Actuated Globe Valve



Cryogenic-Globe Valves with Pneumatic Actuator, class 300

Stainless steel body and topwork

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 03343.X.*013

Flanged connection acc. to ANSI B16.5 class 300

Available accessories:

- Solenoid valve
- Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Actuator - "cleaned and degreased for oxygen service"
- Electric actuator
- Valve with check disc
- Valve with control disc (tapered design)
- Nominal sizes DN15, DN20 and DN150 with welding-neck flange

Applications:

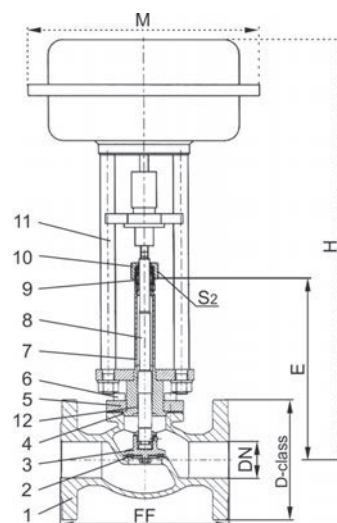
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a Valve seal from DN65	PTFE	
3 Disc	1.4301	A 276 Grade 304
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	1.4305	A 276 Grade 303
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 03343 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code - Flange ANSI B16.5 class 300	.X.	1000	1400	2000	2400	3000	4000
Flange-Ø	D-class	123.9	155.4	165	190.5	209.5	254
Face-to-face dimension	FF	160	200	230	290	310	350
Height	H	dependent on actuator					
Length	E	200	230	235	300	300	300
Actuator-Ø	M	dependent on actuator					
Wrench size across flats	S ₂	30	36	36	36	36	41
Weight w/o actuator	ca. kg	5.4	11.2	15.3	23.6	31.0	46.8
Kvs-Value	m ³ /h	11.5	22.6	37.1	71.1	104.0	170.0
Cv-Value	gal/min	13.4	26.3	43.2	82.7	120.9	195.2
Stroke	mm	9	11	15	23	23	30

Dimensions in mm.

Actuated Valves

Type 01343 - Actuated Control Valve



Cryogenic-Control Valves with Pneumatic Actuator, PN50 (DN100=PN40)

Control characteristic: linear or equal percentage

Stainless steel body and topwork

Actuator - air opens, spring closes or contrary

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01343.X.*61*

Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Part No. 01343.X.*614

Socket weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Available accessories:

- Solenoid valve · Limit switch
- Electropneumatic positioner etc.

Available options - on request only:

- Welded stainless steel stubs acc. to ISO 1127 or ASTM A312 - length FF + 200mm
- Actuator "cleaned and degreased for oxygen service"
- Electric actuator

Applications:

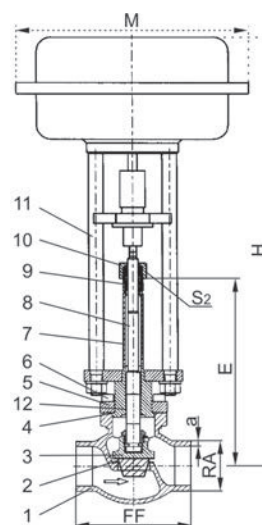
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a Valve seal from DN65	PTFE	
3 Disc	1.4301	A 276 Grade 304
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4541	A 213 TP 321
8 Stem	1.4301	A 276 Grade 304
9 Gland packing	Graphite / PTFE	
10 Gland nut	1.4305	A 276 Grade 303
11 Pillars	1.4404	A 276 Grade 316L
12 Bush	CW452K	B 159 UNS C51900

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 01343 - Standard design	Technical data									
Nominal size	DN	15	20	25	32	40	50	65	80	100
Dimension code	.X.	1521	2026	2533	3238	4048	5060	657x	8088	0114
Face-to-face dimension	FF	85	100	115	115	130	155	205	245	280
Height	H									
Length	E	195	200	200	230	230	235	300	300	300
Outside pipe-Ø ISO 1127	RA	21.3	26.9	33.7	38.0	48.3	60.3	76.1	88.9	114.3
Wall thickness pipe ISO 1127	a	2.0	2.0	2.0	2.0	2.0	2.0	2.6	3.2	6.0
Outside pipe-Ø ASTM A312	RA	21.34	26.67	33.4	-	48.26	60.33	73.03	88.90	114.3
Wall thickness pipe ASTM A312	a	dimensions acc. to S10 or S40								
Socket depth	b	10	13	13	-	13	16	16	16	20
Actuator-Ø	M									
Wrench size across flats	S ₂	30	30	30	36	36	36	36	36	41
Weight w/o actuator	ca. kg	2.2	2.4	3.1	3.8	6.5	9.0	15.2	20.0	28.0
Stroke	mm	20	20	20	30	40	30	40	40	40

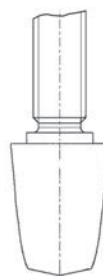
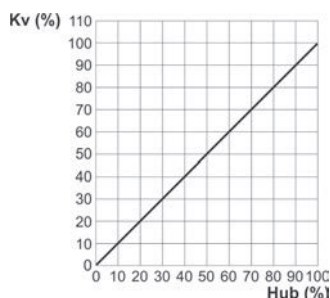
Dimensions in mm.



Flow coefficient for Control Valves - Control characteristic linear Kvs-Value in m³/h, Cv-Value in gal/min

Type 01343 Control valve																		
Lift in mm	20	20	20	20	20	20	30	30	30	30	30	30	40	40	40	40	40	40
Seat-Ø in mm	15	15	20	20	25	25	32	32	36	36	45	45	62	62	76	76	94	94
Nominal size	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv
DN 15	3.5	4.0																
DN 20			6.3	7.3														
DN 25					10.0	11.6												
DN 32							16.0	18.5										
DN 40									19.0	22.0								
DN 50											30.0	34.7						
DN 65													60.0	69.3				
DN 80															86.0	99.4		
DN 100																	140.0	161.8

Ideal inherent linear characteristic line acc. to DIN IEC 60534 Part 2-4

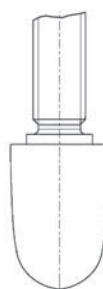
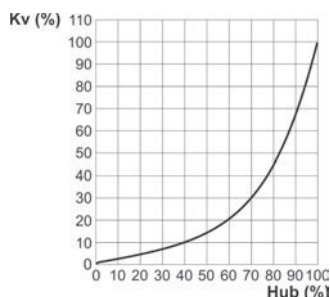


Sample drawing cone,
control characteristic linear

Flow coefficient for Control Valves - Control characteristic equal percentage Kvs-Value in m³/h, Cv-Value in gal/min

Type 01343 Control valve																		
Lift in mm	20	20	20	20	20	20	30	30	30	30	30	30	40	40	40	40	40	40
Seat-Ø in mm	15	15	20	20	25	25	32	32	36	36	45	45	62	62	76	76	94	94
Nominal size	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv	Kvs	Cv
DN 15	3.5	4.0																
DN 20			4.0	4.6														
DN 20			6.0	6.9														
DN 25					2.5	2.9												
DN 25					4.5	5.2												
DN 25					6.3	7.3												
DN 25					10.0	11.6												
DN 32							10.0	11.6										
DN 32							14.0	16.2										
DN 40									10.0	11.6								
DN 40									19.0	22.0								
DN 50											10.0	11.6						
DN 50											16.0	18.5						
DN 50											25.0	28.9						
DN 50											30.0	34.7						
DN 65													60.0	69.3				
DN 80															80.0	92.5		
DN 100																	130.0	150.3

Ideal inherent equal percentage characteristic curve acc. to DIN IEC 60534 Part 2-4



Sample drawing cone,
control characteristic equal percentage

Actuated Valves

Type 27511 - Pneumatic Actuator - Globe Valve (on/off)



Pneumatic Actuators for Globe Valves (on/off)

Actuator - air to open, **spring to close**

maximum air pressure for operation 6.0 bar g

Actuator coating outside - Epoxy resin

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -20°C / -4°F (253K) up to +80°C / 176°F (353K)



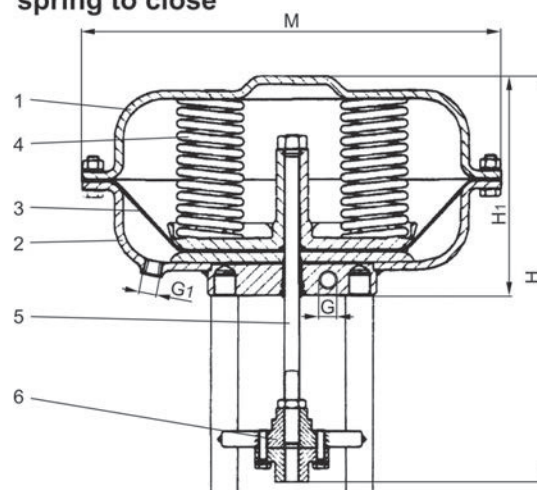
Overview - required actuator sizes for differential pressures

Valve-size	Differential pressure in bar													
	3	4	7	10	11	15	18	20	22	30	33	35	50	
DN 10	A	A	A	A	A	A	A	A	A	A	A	A	A	
DN 15	A	A	A	A	A	A	A	A	A	A	A	A	A	
DN 20	A	A	A	A	A	A	A	A	A	A	B	B	B	
DN 25	A	A	A	A	A	A	A	A	B	B	B	B	B	
DN 32	A	A	A	A	A	B	B	B	B	B	B	B	C	
DN 40	B	B	B	B	B	B	B	B	B	C	C	C	C	
DN 50	B	B	B	B	B	B	C	C	C	C	C	C	D	
DN 65	B	B	B	C	C	C	C	D	E	E	E	F	F	
DN 80	B	B	C	C	D	E	E	E	E	F	F	F	G	
DN 100	B	C	D	E	E	F	F	F	F	G	o.r. - on request			
DN 150	D	E	F	G	o.r. - on request									

Code in Table	Part No.	Actuator
A	27511.15A6.3SPO	
B	27511.35B6.6GPO	
C	27511.60A6.6GPO	
D	27511.60C6.7GPO	
E	27511.75B6.3DPO	
F	27511.75B6.5DPO	
G	27511.75B6.7DPO	

Materials	DIN EN	ASTM
1 Body	1.0333	A 619 Grade 1008
2 Body	1.0333	A 619 Grade 1008
3 Diaphragm	NBR	
4 Springs	1.1200	A 576 Grade 1045
5 Actuator stem	1.4301	A 276 Grade 304
6 Coupling	CC333G	B 148 UNS C95800

spring to close



Type 27511		Technical data						
Part No. Actuator		27511						
		.15A6.3SPO	.35B6.6GPO	.60A6.6GPO	.60C6.7GPO	.75B6.3DPO	.75B6.5DPO	.75B6.7DPO
Diameter Actuator	M	162	210	310	310	430	430	430
Height	H	256	276	309	352	353	353	353
Height	H1	116	136	166	186	234	234	234
Thread	G	G1/8" with Ermeto- Fitting L8	-	-	-	-	-	-
Thread	G1	-	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Diaphragm area	cm ²	120	280	530	530	1000	1000	1000
Spring rage	bar	0.9 - 2.0	0.8 - 3.0	0.8 - 2.8	0.7 - 3.0	0.7 - 2.1	1.2 - 3.4	1.6 - 4.7
Regulating lift	mm	20	35	40	60	60	60	60
Weight	ca. kg	3.0	5.0	12.5	14.0	37.0	39.0	41.0

Dimensions in mm.

Actuated Valves

Type 27511 - Pneumatic Actuator - Control Valve



Pneumatic Actuators for Control Valves

Actuator - air to open, **spring to close**

maximum air pressure for operation 6.0 bar g

Actuator coating outside - Epoxy resin

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -20°C / -4°F (253K) up to +80°C / 176°F (353K)



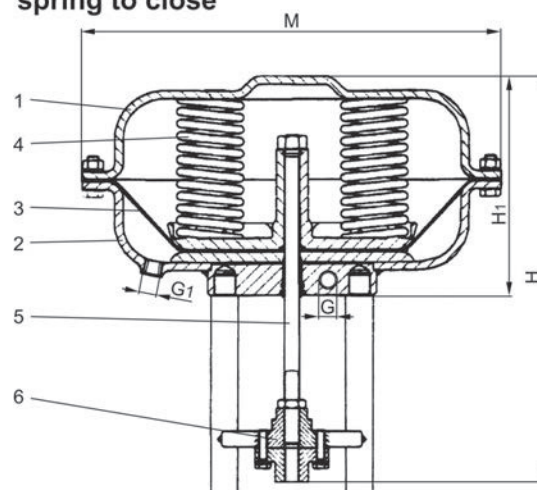
Overview - required actuator sizes for differential pressures

Valve size	Differential pressure in bar															
	2	4	6	8	10	12	15	17	19	22	25	29	35	39	42	50
DN 10	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DN 15	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
DN 20	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B
DN 25	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B	B
DN 32	B	B	B	B	B	B	B	B	B	B	C	C	C	C	C	C
DN 40	B	B	B	B	B	B	B	C	C	C	C	C	C	C	D	D
DN 50	B	B	B	B	B	C	C	C	C	C	C	D	D	E	E	E
DN 65	C	C	D	C	C	C	D	E	E	E	E	E	F	F	F	G
DN 80	C	C	C	D	E	E	E	E	F	F	F	F	G	G	o.r.	
DN 100	C	C	D	E	E	F	F	F	F	G	G	o.r. - on request				
DN 150	D	E	F	F	G	o.r. - on request										

Code in Table	Part No. Actuator
A	27511.15A6.3SPO
B	27511.35B6.6GPO
C	27511.60A6.6GPO
D	27511.60C6.7GPO
E	27511.75B6.3DPO
F	27511.75B6.5DPO
G	27511.75B6.7DPO

Materials	DIN EN	ASTM
1 Body	1.0333	A 619 Grade 1008
2 Body	1.0333	A 619 Grade 1008
3 Diaphragm	NBR	
4 Springs	1.1200	A 576 Grade 1045
5 Actuator stem	1.4301	A 276 Grade 304
6 Coupling	CC333G	B 148 UNS C95800

spring to close



Type 27511		Technical data							
Part No. Actuator		27511							
		.15A6.3SPO	.35B6.6GPO	.60A6.6GPO	.60C6.7GPO	.75B6.3DPO	.75B6.5DPO	.75B6.7DPO	
Diameter Actuator	M	162	210	310	310	430	430	430	
Height	H	256	276	309	352	353	353	353	
Height	H1	116	136	166	186	234	234	234	
Thread	G	G1/8" with Ermeto-Fitting L8	-	-	-	-	-	-	
Thread	G1	-	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	
Diaphragm area	cm ²	120	280	530	530	1000	1000	1000	
Spring rage	bar	0.9 - 2.0	0.8 - 3.0	0.8 - 2.8	0.7 - 3.0	0.7 - 2.1	1.2 - 3.4	1.6 - 4.7	
Regulating lift	mm	20	35	40	60	60	60	60	
Weight	ca. kg	3.0	5.0	12.5	14.0	37.0	39.0	41.0	

Dimensions in mm.

Actuated Valves

Type 27512 - Pneumatic Actuator - Globe Valve (on/off)



Pneumatic Actuators for Globe Valves (on/off)

Actuator - **spring to open**, air to close
 maximum air pressure for operation 6.0 bar g
 Actuator coating outside - Epoxy resin

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -20°C / -4°F (253K) up to +80°C / 176°F (353K)



Overview - required actuator sizes for differential pressures

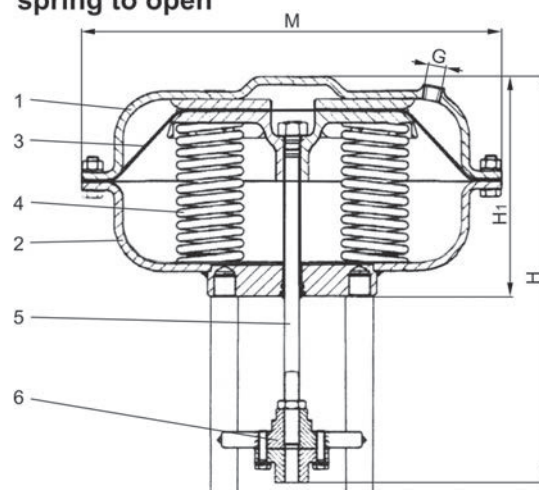
Valve size	Differential pressure in bar											
	5	7	14	17	19	22	26	29	35	37	45	50
DN 10	A	A	A	A	A	A	A	A	A	A	A	A
DN 15	A	A	A	A	A	A	A	A	A	A	A	A
DN 20	A	A	A	A	A	A	A	A	A	A	A	A
DN 25	A	A	A	A	A	A	A	A	A	A	A	A
DN 32	A	A	A	A	A	A	A	A	A	B	C	C
DN 40	A	A	A	A	A	A	A	B	C	C	C	C
DN 50	A	A	A	A	B	C	C	C	C	C	C	C
DN 65	B	B	B	C	C	C	C	C	C	C	D	E
DN 80	B	B	C	C	C	C	D	E	E	E	E	E
DN 100	B	C	C	D	E	E	E	E	E	E	E	E
DN 150	D	E	E	E	E	E						

o.r. - on request

Code in Part No. Actuator Table

A	27512.15A6.3SPS
B	27512.35B6.6GPS
C	27512.60A6.6GPS
D	27512.60C6.7GPS
E	27512.75B6.2SPS

spring to open



Materials	DIN EN	ASTM
1 Body	1.0333	A 619 Grade 1008
2 Body	1.0333	A 619 Grade 1008
3 Diaphragm	NBR	
4 Springs	1.1200	A 576 Grade 1045
5 Actuator stem	1.4301	A 276 Grade 304
6 Coupling	CC333G	B 148 UNS C95800

Type 27512	Technical data					
Part No. Actuator		.15A6.3SPS	.35B6.6GPS	.60A6.6GPS	.60C6.7GPS	.75B6.2SPS
Diameter Actuator	M	162	210	310	310	430
Height	H	256	276	309	352	353
Height	H1	116	136	166	186	234
Thread	G	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Diaphragm area	cm ²	120	280	530	530	1000
Spring rage	bar	0.9 - 2.0	0.8 - 3.0	0.8 - 2.8	0.7 - 3.0	0.3 - 0.9
Regulating lift	mm	20	35	40	60	60
Weight	ca. kg	3.0	5.0	12.5	14.0	37.0

Dimensions in mm.

Actuated Valves

Type 27512 - Pneumatic Actuator - Control Valve



Pneumatic Actuators for Control Valves

Actuator - **spring to open**, air to close

maximum air pressure for operation 6.0 bar g

Actuator coating outside - Epoxy resin

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -20°C / -4°F (253K) up to +80°C / 176°F (353K)



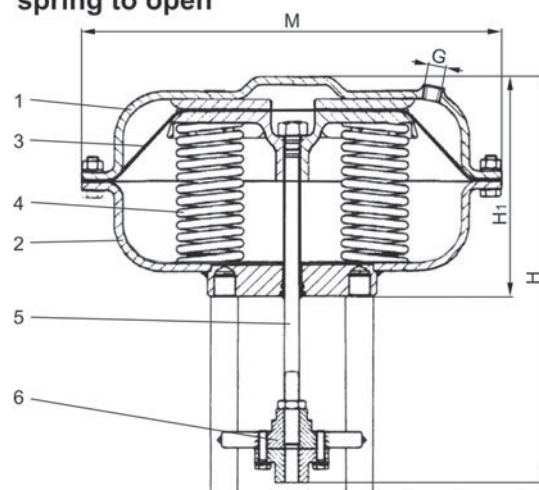
Overview - required actuator sizes for differential pressures

Valve size	Differential pressure in bar								
	5	13	15	21	23	29	34	37	50
DN 10	A	A	A	A	A	A	A	A	A
DN 15	A	A	A	A	A	A	A	A	A
DN 20	A	A	A	A	A	A	A	A	A
DN 25	A	A	A	A	A	A	A	A	A
DN 32	B	B	B	B	B	B	B	B	C
DN 40	B	B	B	B	B	B	B	C	C
DN 50	B	B	B	B	C	C	C	C	C
DN 65	C	C	C	C	C	C	C	E	E
DN 80	C	C	C	C	D	E	E	E	E
DN 100	C	C	D	E	E	E	E	E	E
DN 150	D	E	E	E	E	o.r. - on request			

Code in Table	Part No. Actuator
A	27512.15A6.3SPS
B	27512.35B6.6GPS
C	27512.60A6.6GPS
D	27512.60C6.7GPS
E	27512.75B6.2SPS

Materials	DIN EN	ASTM
1 Body	1.0333	A 619 Grade 1008
2 Body	1.0333	A 619 Grade 1008
3 Diaphragm	NBR	
4 Springs	1.1200	A 576 Grade 1045
5 Actuator stem	1.4301	A 276 Grade 304
6 Coupling	CC333G	B 148 UNS C95800

spring to open



Type 27512	Technical data					
Part No. Actuator		.15A6.3SPS	.35B6.6GPS	.60A6.6GPS	.60C6.7GPS	.75B6.2SPS
Diameter Actuator	M	162	210	310	310	430
Height	H	256	276	309	352	353
Height	H1	116	136	166	186	234
Thread	G	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT	1/4" NPT
Diaphragm area	cm ²	120	280	530	530	1000
Spring rage	bar	0.9 - 2.0	0.8 - 3.0	0.8 - 2.8	0.7 - 3.0	0.3 - 0.9
Regulating lift	mm	20	35	40	60	60
Weight	ca. kg	3.0	5.0	12.5	14.0	37.0

Dimensions in mm.

Actuated Valves

Type 27514 - Pneumatic Actuator - Globe Valve (on/off)



Pneumatic Actuators for Globe Valves (on/off)

Actuator - air to open, **spring to close**

maximum air pressure for operation 6.0 bar

Actuator coating: Delta Seal GZ (silver-grey)

Corrosion-protection class C5-M acc. to DIN EN ISO 12944

Available options - on request only:

- Pneumatic actuator with override handwheel

Ambient temperature limit: -40°C / -40°F (233K) up to +100°C / 212°F (373K)

Overview - required actuator sizes for differential pressures

Valve size	Differential pressure in bar											
	6	10	12	14	18	26	29	33	37	45	48	50
DN 10	A	A	A	A	A	A	A	A	A	A	A	A
DN 15	A	A	A	A	A	A	A	A	A	A	A	A
DN 20	A	A	A	A	A	A	A	A	A	A	A	A
DN 25	A	A	A	A	A	A	A	A	A	A	A	A
DN 32	A	A	A	A	A	A	A	A	A	B	B	B
DN 40	A	A	A	A	A	A	B	B	B	B	C	C
DN 50	A	A	A	A	B	B	C	C	C	C	C	C
DN 65	C	C	C	C	C	C	C	D	D	D	E	E
DN 80	C	C	C	C	D	D	D	D	E	E	E	E
DN 100	C	C	D	D	D	E	E	E	F	F	F	o.r.
DN 150	D	E	E	F	F	o.r. - on request						

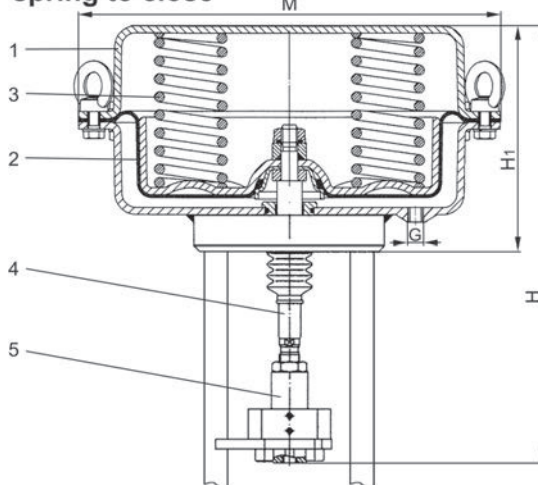


Code in Part No. Actuator Table

A	27514.DP32.2008
B	27514.DP32.2020
C	27514.DP33.3020
D	27514.DP34.5015
E	27514.DP34.5020
F	27514.DP34.T0PO (Tandem - Actuator)

Materials	DIN EN	ASTM
1 Body	1.0335	A 622 Grade 1008
2 Diaphragm	NBR + tissue	
3 Springs	1.4310	A 313 Grade 301
4 Actuator stem	1.4571	A 276 Grade 316Ti
5 Coupling	1.4571	A 276 Grade 316Ti

spring to close



Type 27514 Technical data

Part No. Actuator		27514					
		.DP32.2008	.DP32.2020	.DP33.3020	.DP34.5015	.DP34.5020	.DP34.T0PO (Tandem)
Diameter Actuator	M	250	250	300	405	405	405
Height	H	ca. 240	ca. 240	ca. 300	ca. 375	ca. 375	ca. 635
Height	H1	124	124	166	228	228	450
Thread	G	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 3/8"	G 3/8"
Diaphragm area	cm ²	250	250	400	800	800	1600 (2x800)
Spring rage	bar	0.8 - 2.4	2.0 - 3.8	2.0 - 4.0	1.5 - 3.0	2.0 - 4.0	2.0 - 4.0
Regulating lift	mm	20	20	30	50	50	50
Weight	ca. kg	9.0	9.0	15.0	45.0	45.0	116.0

Dimensions in mm.

Actuated Valves

Type 27514 - Pneumatic Actuator - Control Valve



Pneumatic Actuators for Control Valves

Actuator - air to open, **spring to close**

maximum air pressure for operation 6.0 bar

Actuator coating: Delta Seal GZ (silver-grey)

Corrosion-protection class C5-M acc. to DIN EN ISO 12944

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -40°C / -40°F (233K) up to +100°C / 212°F (373K)



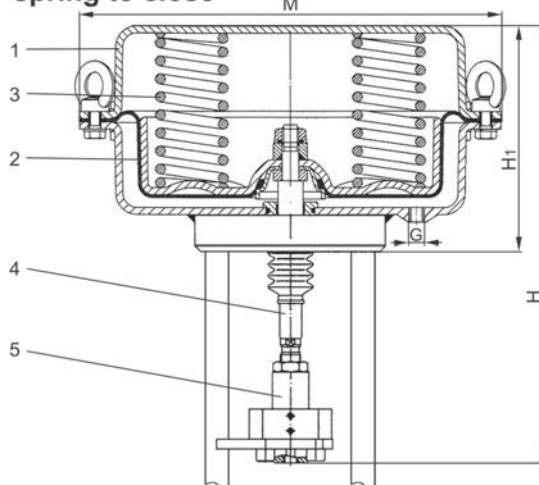
Overview - required actuator sizes for differential pressures

Valve size	Differential pressure in bar									
	6	10	14	17	25	28	35	40	46	50
DN 10	A	A	A	A	A	A	A	A	A	A
DN 15	A	A	A	A	A	A	A	A	A	A
DN 20	A	A	A	A	A	A	A	A	A	B
DN 25	A	A	A	A	A	A	B	B	B	B
DN 32	C	C	C	C	C	C	C	C	C	C
DN 40	C	C	C	C	C	C	C	C	C	C
DN 50	C	C	C	C	C	C	C	C	C	C
DN 65	D	D	D	D	D	D	D	D	E	E
DN 80	D	D	D	D	D	E	E	F	F	F
DN 100	D	D	D	D	E	F	F	F	F	F
DN 150	D	E	F	o.r. - on request						

Code in Table	Part No. Actuator
A	27514.DP32.2008
B	27514.DP32.2020
C	27514.DP33.3020
D	27514.DP34.5015
E	27514.DP34.5020
F	27514.DP34.T0PO (Tandem - Actuator)

Materials	DIN EN	ASTM
1 Body	1.0335	A 622 Grade 1008
2 Diaphragm	NBR + tissue	
3 Springs	1.4310	A 313 Grade 301
4 Actuator stem	1.4571	A 276 Grade 316Ti
5 Coupling	1.4571	A 276 Grade 316Ti

spring to close



Type 27514		Technical data					
Part No. Actuator		27514					
		.DP32.2008	.DP32.2020	.DP33.3020	.DP34.5015	.DP34.5020	.DP34.T0PO (Tandem)
Diameter Actuator	M	250	250	300	405	405	405
Height	H	ca. 240	ca. 240	ca. 300	ca. 375	ca. 375	ca. 635
Height	H1	124	124	166	228	228	450
Thread	G	G 1/4"	G 1/4"	G 1/4"	G 3/8"	G 3/8"	G 3/8"
Diaphragm area	cm ²	250	250	400	800	800	1600 (2x800)
Spring rage	bar	0.8 - 2.4	2.0 - 3.8	2.0 - 4.0	1.5 - 3.0	2.0 - 4.0	2.0 - 4.0
Regulating lift	mm	20	20	30	50	50	50
Weight	ca. kg	9.0	9.0	15.0	45.0	45.0	116.0

Dimensions in mm.

Actuated Valves

Type 27515 - Pneumatic Actuator - Globe Valve (on/off)



Pneumatic Actuators for Globe Valves (on/off)

Actuator - **spring to open**, air to close

maximum air pressure for operation 6.0 bar

Actuator coating: Delta Seal GZ (silver-grey)

Corrosion-protection class C5-M acc. to DIN EN ISO 12944

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -40°C / -40°F (233K) up to +100°C / 212°F (373K)

Overview - required actuator sizes for differential pressures

Valve size	Differential pressure in bar						
	13	18	20	25	35	45	50
DN 10	A	A	A	A	A	A	A
DN 15	A	A	A	A	A	A	A
DN 20	A	A	A	A	A	A	A
DN 25	A	A	A	A	A	A	A
DN 32	A	A	A	A	A	A	A
DN 40	A	A	A	A	A	A	A
DN 50	A	A	A	A	A	A	A
DN 65	A	A	A	A	A	B	B
DN 80	A	A	A	B	B	C	C
DN 100	A	B	B	B	C	C	C
DN 150	C	C	C				

o.r. - on request

Code in Table	Part No.	Actuator
A	27515.DP32.3S02	
B	27515.DP33.3S02	
C	27515.DP34.5S02	

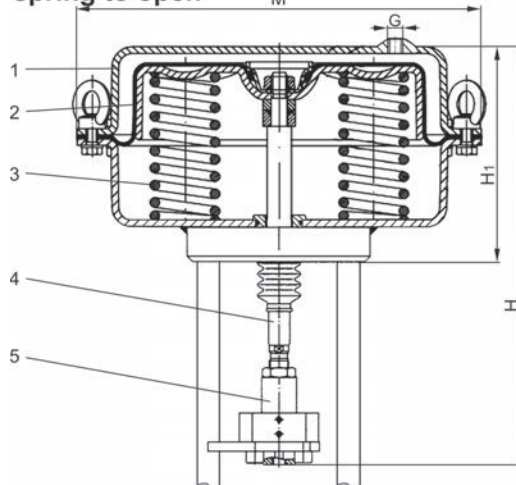
Materials	DIN EN	ASTM
1 Body	1.0335	A 622 Grade 1008
2 Diaphragm	NBR + tissue	
3 Springs	1.4310	A 313 Grade 301
4 Actuator stem	1.4571	A 276 Grade 316Ti
5 Coupling	1.4571	A 276 Grade 316Ti

Type 27515	Technical data			
Part No. Actuator	27515			
	.DP32.3S02	.DP33.3S02	.DP34.5S02	
Diameter Actuator	M	250	300	405
Height	H	ca. 240	ca. 300	ca. 375
Height	H1	124	166	228
Thread	G	G 1/4"	G 1/4"	G 3/8"
Diaphragm area	cm ²	250	400	800
Spring rage	bar	0.2 - 1.0	0.2 - 1.0	0.2 - 1.0
Regulating lift	mm	30	30	50
Weight	ca. kg	9.0	15.0	45.0

Dimensions in mm.



spring to open



Actuated Valves

Type 27515 - Pneumatic Actuator - Control Valve



Pneumatic Actuators for Control Valves

Actuator - **spring to open**, air to close

maximum air pressure for operation 6.0 bar

Actuator coating: Delta Seal GZ (silver-grey)

Corrosion-protection class C5-M acc. to DIN EN ISO 12944

Available options - on request only:

· Pneumatic actuator with override handwheel

Ambient temperature limit: -40°C / -40°F (233K) up to +100°C / 212°F (373K)

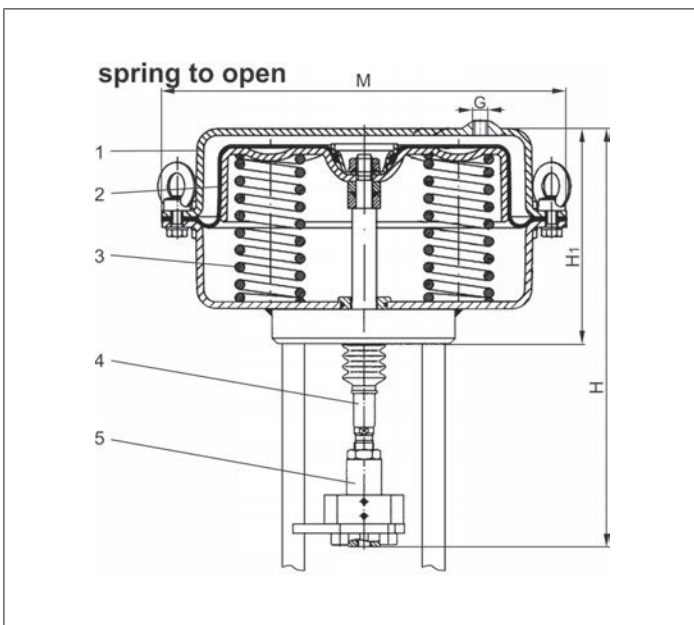


Overview - required actuator sizes for differential pressures

Valve size	Differential pressure in bar		
	21	45	50
DN 10	A	A	A
DN 15	A	A	A
DN 20	A	A	A
DN 25	A	A	A
DN 32	A	A	A
DN 40	A	A	A
DN 50	A	A	A
DN 65	C	C	C
DN 80	C	C	C
DN 100	C	C	o.r.
DN 150	C	o.r. - on request	

Code in Table	Part No. Actuator
A	27515.DP32.3S02
B	27515.DP33.3S02
C	27515.DP34.5S02

Materials	DIN EN	ASTM
1 Body	1.0335	A 622 Grade 1008
2 Diaphragm	NBR + tissue	
3 Springs	1.4310	A 313 Grade 301
4 Actuator stem	1.4571	A 276 Grade 316Ti
5 Coupling	1.4571	A 276 Grade 316Ti



Type 27515	Technical data			
Part No. Actuator	27515			
		.DP32.3S02	.DP33.3S02	.DP34.5S02
Diameter Actuator	M	250	300	405
Height	H	ca. 240	ca. 300	ca. 375
Height	H1	124	166	228
Thread	G	G 1/4"	G 1/4"	G 3/8"
Diaphragm area	cm ²	250	400	800
Spring rage	bar	0.2 - 1.0	0.2 - 1.0	0.2 - 1.0
Regulating lift	mm	30	30	50
Weight	ca. kg	9.0	15.0	45.0

Dimensions in mm.

Actuated Valves

Type 01353 - Actuated Trailervalue



Cryogenic-Globe Valves with Pneumatic Actuator, PN50

air pressure for operation 6,0 bar g (maximum 10.0 bar g)

Stainless steel body and topwork,

Actuator - air opens, spring closes

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 01353.X.T0**

* Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Part No. 01353.X.T0*4

Socket weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Available options - on request only:

· Welded stainless steel stubs acc. to ISO 1127 or ASTM A312 - length FF + 200mm

Applications:

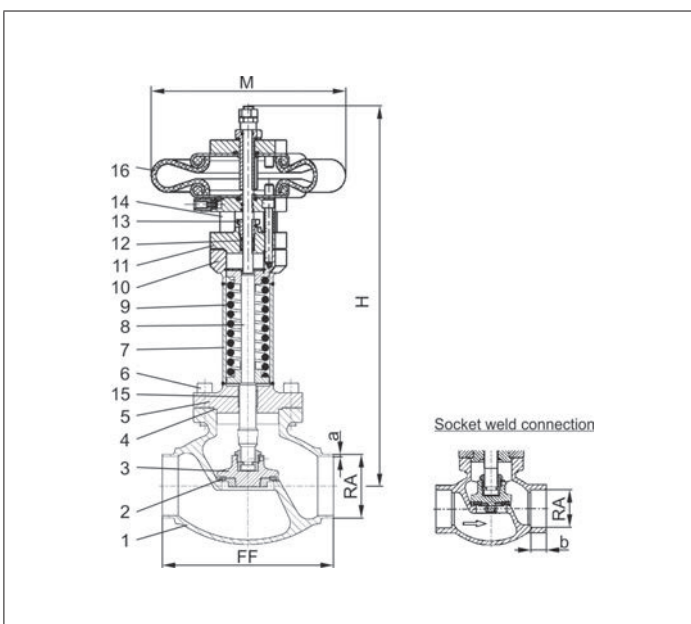
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal up to DN50	PTFE / Carbon filled (25%)	
2a Valve seal from DN65	PTFE	
3 Disc	1.4301	A 276 Grade 304
4 Bonnet gasket	PTFE	
5 Headpiece	1.4301	A 276 Grade 304
6 Bolts	1.4301/A2	A 194 B8
7 Elongation tube	1.4306	A 312 TP 304L
8 Stem	1.4301	A 276 Grade 304
9 Spring	1.4571	A 313 Grade 316Ti
10 Flange	1.4301	A 276 Grade 304
11 Headpiece	1.4301	A 276 Grade 304
12 Gland packing	Graphite / PTFE	
13 Gland nut	1.4571	A 276 Grade 316Ti
14 Pillars	1.4301	A 276 Grade 304
15 Bush	CW452K	B 159 UNS C51900
16 Actuator	Rubber	

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 01353	Technical data							
Nominal size	DN	15	25	40	40	50	65	80
Dimension code	.X.	1521	2533	4042	4048	5060	657x	8088
Face-to-face dimension	FF	85	115	130	130	155	205	245
Height	H	395	444	400	400	440	470	500
Outside pipe-Ø ISO 1127	RA	21.3	33.7	42.4	48.3	60.3	76.1	88.9
Wall thickness pipe ISO 1127	a	2.0	2.0	2.0	2.0	2.0	2.6	3.2
Outside pipe-Ø ASTM A312	RA	21.34	33.40	42.16	48.26	60.33	73.03	88.90
Wall thickness pipe ASTM A312	a	dimensions acc. to S10 or S40						
Socket depth	b	10	13	13	13	16	16	16
Actuator-Ø	M	229	229	229	229	229	229	229
Weight	ca. kg	7.2	9.1	10.5	10.5	14.5	17.4	22.5
Kvs-Value	m³/h	4.3	11.5	22.6	22.6	37.1	71.1	104.0
Cv-Value	gal/min	5.0	13.4	23.9	26.3	43.2	82.7	120.9
Stroke	mm	10	9	11	11	15	23	23
Δ P max	bar	50	50	31	16	16	10	4

Dimensions in mm.

Actuated Valves

Type 09343 - Actuated Gate Valve



Cryogenic-Gate Valves with Pneumatic Actuator, PN50

air pressure for operation 6.0 bar g (maximal 10.0 bar g),
Stainless steel body and topwork,
Actuator - air opens, spring closes
one way tightening (in flow direction),
"live loaded" gland packing
"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

Part No. 09343.X.T02*

* Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Part No. 09343.X.T024

Socket weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312

Available options - on request only:

· other connections are in preparation

Applications:

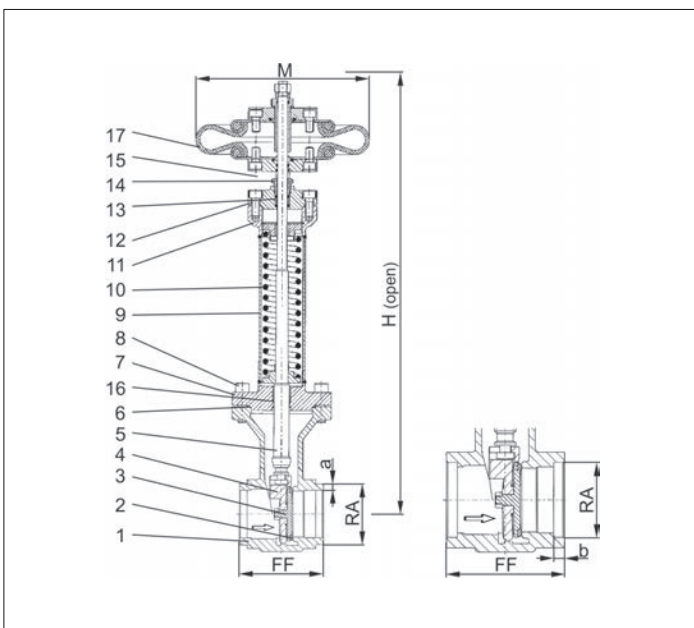
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +120°C / +248°F (393K)



Materials	DIN EN	ASTM
1 Body	1.4308	A 351 CF8
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	CW452K	B 159 UNS C51900
4 Wedge	1.4308	A 351 CF8
5 Stem	1.4301	A 276 Grade 304
6 Bonnet gasket	PTFE	
7 Headpiece	1.4308	A 351 CF8
8 Bolts	1.4301/A2	A 194 B8
9 Elongation tube	1.4541	A 213 TP 321
10 Spring	1.4571	A 313 Grade 316Ti
11 Flange	1.4301	A 276 Grade 304
12 Headpiece	1.4301	A 276 Grade 304
13 Gland packing	Graphite / PTFE	
14 Gland nut	1.4305	A 276 Grade 303
15 Pillars	1.4301	A 276 Grade 304
16 Bush	CW452K	B 159 UNS C51900
17 Actuator	Rubberchuk	

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 09343 - Standard design	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code	.X.	2533	4048	5060	657x	8088	0114
Face-to-face dimension	FF	133	133	110	110	110	130
Height	H	500	560	590	630	650	880
Outside pipe-Ø ISO 1127	RA	33.7	48.3	60.3	76.1	88.9	114.3
Wall thickness pipe ISO 1127	a	2.6	2.0	2.0	2.6	3.2	3.2
Outside pipe-Ø ASTM A312	RA	33.4	48.26	60.33	73.03	88.90	114.30
Wall thickness pipe ASTM A312	a	dimensions acc. to S10 or S40					
Socket depth	b	8	13	16	16	16	20
Actuator-Ø	M	229	229	229	229	229	229
Weight	ca. kg	9.9	11.1	13.5	14.9	17.5	30.2
Kvs-Value	m³/h	43	93	125	283	310	792
Cv-Value	gal/min	51	111	149	337	369	943

Dimensions in mm.

Accessories Actuated Valves

Type 41060 - Solenoid Valve



3/2 way Solenoid Valve, including fixing accessories

direct acting solenoid valve DN3, fast acting, body in brass, protecting class IP65, with cable plug for cable-Ø7 mm, circuit function: power free - outlet balanced, Pressure range 0 - 10.0 bar, Voltage tolerance $\pm 10\%$, with flat seal and fixing screw

Version with NBR sealing

port connections G (BSPP) 1/4 female thread, for neutral medium like air and water

Medium temperature: 0°C / 32°F up to +80°C / 176°F

Ambient temperature: 0°C / 32°F up to max. +55°C / 131°F

for actuators type 27511 and 27521

Part No. 41060.0200.C24A000 - Operating voltage 24V, AC (50Hz)

Part No. 41060.0200.C11A000 - Operating voltage 110V, AC (50Hz)

Part No. 41060.0200.C23A000 - Operating voltage 230V, AC (50Hz)

Part No. 41060.0200.C24D000 - Operating voltage 24V, DC

Part No. 41060.0200.C48D000 - Operating voltage 48V, DC

for actuators type 27512 and 27522

Part No. 41060.0210.C24A000 - Operating voltage 24V, AC (50Hz)

Part No. 41060.0210.C11A000 - Operating voltage 110V, AC (50Hz)

Part No. 41060.0210.C23A000 - Operating voltage 230V, AC (50Hz)

Part No. 41060.0210.C24D000 - Operating voltage 24V, DC

Part No. 41060.0210.C48D000 - Operating voltage 48V, DC

for actuators type 27514

Part No. 41060.0220.C24A000 - Operating voltage 24V, AC (50Hz)

Part No. 41060.0220.C11A000 - Operating voltage 110V, AC (50Hz)

Part No. 41060.0220.C23A000 - Operating voltage 230V, AC (50Hz)

Part No. 41060.0220.C24D000 - Operating voltage 24V, DC

Part No. 41060.0220.C48D000 - Operating voltage 48V, DC

for actuators type 27515

Part No. 41060.0230.C24A000 - Operating voltage 24V, AC (50Hz)

Part No. 41060.0230.C11A000 - Operating voltage 110V, AC (50Hz)

Part No. 41060.0230.C23A000 - Operating voltage 230V, AC (50Hz)

Part No. 41060.0230.C24D000 - Operating voltage 24V, DC

Part No. 41060.0230.C48D000 - Operating voltage 48V, DC

Version with EPDM sealing

port connections G (BSPP) 1/4 female thread, for oil- / degrease-free medium

Medium temperature: -30°C / -22°F up to +90°C / 194°F

Ambient temperature: -30°C / -22°F up to max. +55°C / 131°F

for actuators type 27511 and 27521

Part No. 41060.0200.C23A00E - Operating voltage 230V, AC (50Hz)

Part No. 41060.0200.C23D00E - Operating voltage 24V, DC

for actuators type 27512 and 27522

Part No. 41060.0210.C23A00E - Operating voltage 230V, AC (50Hz)

Part No. 41060.0210.C23D00E - Operating voltage 24V, DC

for actuators type 27514

Part No. 41060.0220.C23A00E - Operating voltage 230V, AC (50Hz)

Part No. 41060.0220.C23D00E - Operating voltage 24V, DC

for actuators type 27515

Part No. 41060.0230.C23A00E - Operating voltage 230V, AC (50Hz)

Part No. 41060.0230.C23D00E - Operating voltage 24V, DC

Available options - on request only:

- other port connections (1/4"NPT, G1/8), body and seat material 1.4401
- circuit functions: power free - outlet pressure loaded

Standard version



Accessories Actuated Valves

Type 41061 - Solenoid Valve EEx



3/2 way Solenoid Valve, EEx-protected, including fixing accessories

direct acting solenoid valve DN3, fast acting, body in brass, protecting class IP65 EEx ed IIC T5, with cable 3 x 0,75 mm² - cable 3 meter long, circuit function: power free - outlet balanced, Pressure range 0 - 10.0 bar, Voltage tolerance $\pm 10\%$, semi time-lag fuse acc. to nominal voltage

Version with NBR sealing

port connections G (BSPP) 1/4 female thread, for neutral medium like air and water

Medium temperature: 0°C / 32°F up to +70°C / 158°F

Ambient temperature: 0°C / 32°F up to max. +55°C / 131°F

for actuators type 27511 and 27521

Part No. 41061.0200.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0200.C230030 - Operating voltage 230V, UC, with 3 meter cable

for actuators type 27512 and 27522

Part No. 41061.0210.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0210.C230030 - Operating voltage 230V, UC, with 3 meter cable

for actuators type 27514

Part No. 41061.0220.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0220.C230030 - Operating voltage 230V, UC, with 3 meter cable

for actuators type 27515

Part No. 41061.0230.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0230.C230030 - Operating voltage 230V, UC, with 3 meter cable

port connections 1/4" NPT female thread, for neutral medium like air and water

Medium temperature: 0°C / 32°F up to +70°C / 158°F

Ambient temperature: 0°C / 32°F up to max. +55°C / 131°F

for actuators type 27511 and 27521

Part No. 41061.0206.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0206.C024050 - Operating voltage 24V, UC, with 5 meter cable

Part No. 41061.0206.C11A030 - Operating voltage 110V, AC (50 Hz), with 3 meter cable

Part No. 41061.0206.C11A050 - Operating voltage 110V, AC (50 Hz), with 5 meter cable

for actuators type 27512 and 27522

Part No. 41061.0216.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0216.C024050 - Operating voltage 24V, UC, with 5 meter cable

Part No. 41061.0216.C11A030 - Operating voltage 110V, AC (50 Hz), with 3 meter cable

Part No. 41061.0216.C11A050 - Operating voltage 110V, AC (50 Hz), with 5 meter cable

for actuators type 27514

Part No. 41061.0226.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0226.C024050 - Operating voltage 24V, UC, with 5 meter cable

Part No. 41061.0226.C11A030 - Operating voltage 110V, AC (50 Hz), with 3 meter cable

Part No. 41061.0226.C11A050 - Operating voltage 110V, AC (50 Hz), with 5 meter cable

for actuators type 27515

Part No. 41061.0236.C024030 - Operating voltage 24V, UC, with 3 meter cable

Part No. 41061.0236.C024050 - Operating voltage 24V, UC, with 5 meter cable

Part No. 41061.0236.C11A030 - Operating voltage 110V, AC (50 Hz), with 3 meter cable

Part No. 41061.0236.C11A050 - Operating voltage 110V, AC (50 Hz), with 5 meter cable

UC = DC and AC

Available options - on request only:

- other port connections (G1/8), body and seat material 1.4401
- circuit functions: power free - outlet pressure loaded

EEx-protected
version



Accessories Actuated Valves

Type 41060 - Solenoid Valve, suitable for oxygen



3/2 way Solenoid Valve, including fixing accessories

direct acting solenoid valve DN3, fast acting, body in brass, protecting class IP65, with cable plug for cable-Ø7 mm, circuit function: power free - outlet balanced, Pressure range 0 - 10.0 bar, Voltage tolerance $\pm 10\%$, with flat seal and fixing screw

Version with FKM sealing, cleaned and degreased, suitable for oxygen

port connections G (BSPP) 1/4 female thread, for neutral medium like air and water

Medium temperature: 0°C / 32°F up to +90°C / 194°F

Ambient temperature: 0°C / 32°F up to max. +55°C / 131°F

for actuators type 27511 and 27521

Artikel-Nr. 41060.0200.C24AO2F - Operating voltage 24V, AC (50Hz)

Artikel-Nr. 41060.0200.C23AO2F - Operating voltage 230V, AC (50Hz)

for actuators type 27512 and 27522

Artikel-Nr. 41060.0210.C24AO2F - Operating voltage 24V, AC (50Hz)

Artikel-Nr. 41060.0210.C23AO2F - Operating voltage 230V, AC (50Hz)

for actuators type 27514

Artikel-Nr. 41060.0220.C24AO2F - Operating voltage 24V, AC (50Hz)

Artikel-Nr. 41060.0220.C23AO2F - Operating voltage 230V, AC (50Hz)

for actuators type 27515

Artikel-Nr. 41060.0230.C24AO2F - Operating voltage 24V, AC (50Hz)

Artikel-Nr. 41060.0230.C23AO2F - Operating voltage 230V, AC (50Hz)

Available options - on request only:

- other port connections (1/4"NPT, G1/8)
- circuit functions: power free - outlet pressure loaded

Standard
version



Accessories Actuated Valves

Type 41070, Type 41071 - Position and Limit Switches



Position and Limit Switches, including fixing device

Limit switch (0/100%) with parallel roller lever and fixing device, quick-break switch,
Max. fuse rating 6A gL/gD D-fuse, Switching frequency 3600/h

Standard version

for actuators type 27511, 27512, 27521 and 27522

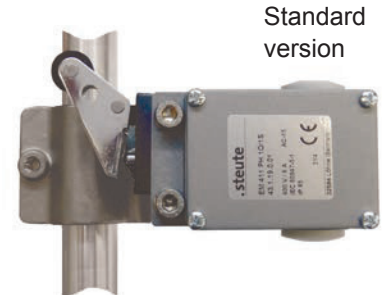
Part No. 41070.0011.0100100

Protection class IP65 acc. to EN 60529,
Rated operating current/-voltage Ie/Ue: 6A / 400VAC,
3 cable entries M16 x 1.5,
change-over contact with double break (1 break contact/ 1 make contact),
Ambient temperature -20°C / -4°F up to +80°C / 176°F

for actuators type 27514 and 27515

Part No. 41370.0011.0100100

Protection class IP65 acc. to EN 60529,
Rated operating current/-voltage Ie/Ue: 6A / 400VAC,
3 cable entries M16 x 1.5,
change-over contact with double break (1 break contact/ 1 make contact),
Ambient temperature -20°C / -4°F up to +80°C / 176°F



Standard
version

EEx-protected version

for actuators type 27511, 27512, 27521 and 27522

Part No. 41071.0012.1322000

Protection class IP65 acc. to EN 60529, EEX d IIC T6,
Rated operating current/-voltage Ie/Ue: 5A / 250VAC,
with cable 4 x 0,75 mm² - cable 3 meter long,
change-over contact with single break (1 break contact/ 1 make contact),
Ambient temperature -20°C / -4°F up to +65°C / 149°F

for actuators type 27514 and 27515

Part No. 41371.0012.1322000

Protection class IP65 acc. to EN 60529, EEX d IIC T6,
Rated operating current/-voltage Ie/Ue: 5A / 250VAC,
with cable 4 x 0,75 mm² - cable 3 meter long,
change-over contact with single break (1 break contact/ 1 make contact),
Ambient temperature -20°C / -4°F up to +65°C / 149°F



EEx-protected
version

Available options - on request only:

- overrun limit switch to signal intermediate positions
- other cable length

Accessories Actuated Valves

Type 41080 - Inductive Proximity Switches



Inductive proximity switches, including fixing device

Functions: inductive, Switching element function NAMUR NC, Output polarity NAMUR,
Rated operating distance 2 mm, Assured operating distance 0 - 1.62 mm, Installation embeddable,
Nominal voltage 8V, Switch frequency 0 - 1000 Hz, Short-circuit and reverse polarity protection,
Protecting class IP67 acc. to EN 60529, EEX ia IIC T6
Indication of the switching state all direction LED yellow, with cable 2 x 0.34 mm²
Ambient temperature: -25°C / -13°F up to +70°C / 158°F

for actuators type 27511, 27512, 27521 and 27522

Part No. 41080.1235.AA20100 (Valve size DN10 - DN150), with 2 meter cable

Part No. 41080.1235.AA20400 (Valve size DN10 - DN150), with 10 meter cable

for actuators type 27514 and 27515

Part No. 41080.1235.BA20100 (Valve size DN10 - DN50), with 2 meter cable

Part No. 41080.1235.BA20400 (Valve size DN10 - DN50), with 10 meter cable

Part No. 41080.1235.CA20100 (Valve size DN65), with 2 meter cable

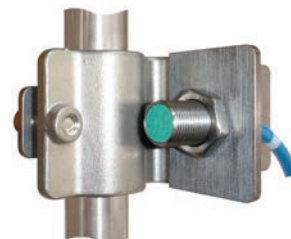
Part No. 41080.1235.CA20400 (Valve size DN65), with 10 meter cable

Part No. 41080.1235.DA20100 (Valve size DN80 - DN100), with 2 meter cable

Part No. 41080.1235.DA20400 (Valve size DN80 - DN100), with 10 meter cable

Part No. 41080.1235.EA20100 (Valve size DN150), with 2 meter cable

Part No. 41080.1235.EA20400 (Valve size DN150), with 10 meter cable



Functions: inductive, Switching element function PNP closer, Output polarity DC,
Rated operating distance 2 mm, Assured operating distance 0 - 1.62 mm, Installation embeddable,
Nominal voltage 10 - 60V, Switch frequency 0 - 3000 Hz, Short-circuit and reverse polarity protection,
Protecting class IP67 acc. to EN 60529, EEX ia IIC T6
Indication of the switching state all direction LED yellow, with appliance inlet M12 x 1 - 4 pole
Ambient temperature: -25°C / -13°F up to +70°C / 158°F

for actuators type 27511, 27512, 27521 and 27522

Part No. 41080.1240.AB10100 (Valve size DN10 - DN150)

for actuators type 27514 and 27515

Part No. 41080.1240.BB10100 (Valve size DN10 - DN50)

Part No. 41080.1240.CB10100 (Valve size DN65)

Part No. 41080.1240.DB10100 (Valve size DN80 - DN100)

Part No. 41080.1240.EB10100 (Valve size DN150)

Inductive sensor: NCB2-12GM40-Z0

Functions: inductive, Switching element function DC closer, Output polarity DC,
Rated operating distance 2 mm, Assured operating distance 0 - 1.62 mm, Installation embeddable,
Nominal voltage 5 - 60V, Switch frequency 0 - 800 Hz, Short-circuit clocking,
Protecting class IP67 acc. to EN 60529, EEX ia IIC T6
Indication of the switching state all direction LED yellow, with cable 2 x 0.14 mm² - 2 meter long
Ambient temperature: -25°C / -13°F up to +70°C / 158°F

for actuators type 27511, 27512, 27521 and 27522

Part No. 41080.1240.AC10100 (Valve size DN10 - DN150)

for actuators type 27514 and 27515

Part No. 41080.1240.BC10100 (Valve size DN10 - DN50)

Part No. 41080.1240.CC10100 (Valve size DN65)

Part No. 41080.1240.DC10100 (Valve size DN80 - DN100)

Part No. 41080.1240.EC10100 (Valve size DN150)

Available options - on request only:

· other cable length

Accessories Actuated Valves

Type 08003 - Air Control Sets

Air Control sets, including fixing accessories

Diaphragm pressure regulator with secondary ventilation,
Installation position vertical - drain plug at bottom,
Inlet pressure maximal 16.0 bar,
filter element in Polyethylen (sinterted), pore diameter in filter element 5µm,
port connections G1/4, body zinc-diecasting, with NBR seal,
tank capacity maximal 0.35 cm³ condensate, condensate draining manuel,
Ambient temperature: -10°C / 14°F up to +60°C / 140°F,
including pressure gauge (0 - 10.0 bar)

Part No. 08003.021K.0000

condensate tank Polycarbonat, control range 0.5 - 10.0 bar

Part No. 08003.021M.0000

condensate tank in metal, control range 0,5 - 16.0 bar



Condensate-tank
Polycarbonat



Condensate-tank
brass

Air Control sets in stainless steel, including fixing accessories

Installation position vertical - drain plug at bottom,
Inlet pressure maximal 20.0 bar, control range 0.5 - 10.0 bar
filter element in stainless steel (1.4408 / ASTM 316), pore diameter in filter element 40µm,
body in stainless steel (1.4408 / ASTM 316), with NBR seal,
condensate draining manuel,
Medium temperature: -50°C / 58°F up to +90°C / 194°F,
Ambient temperature: -50°C / 58°F up to +90°C / 194°F,
including pressure gauge (0 - 10.0 bar)

Part No. 08003.0200.0000

port connections G1/4 female thread

Part No. 08003.0206.0000

port connections 1/4" NPT female thread



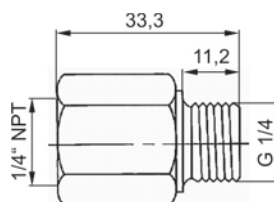
Adapter 1/4" NPT female thread - G1/4 male thread

Part No. 29001.0004.0302

material brass (CW614N / ASTM B 283 UNS C38500)

Part No. 29001.0004.0783

material stainless steel (1.4404 / ASTM 316L))



Accessories Actuated Valves

Type 41090 - Electropneumatic Positioner



Electropneumatic positioner for pneumatic Actuator

ATTENTION - operate only with dry, oil-free air acc. to IEC654-2 !

Protecting class IP65 acc. to EN 60529,

Operation: simple, Inlet air pressure: max. 6.0 bar - connection with female thread G1/4

Electrical connection: screw type terminals 2.5 mm², cable gland: M 20 x 1.5

Set point x:

4 - 20 mA with 2 conductor connections

0/4 - 20 mA with 3/4 conductor connections

Auxiliary power with 3/4 conductor connections: UH: 18-30V DC

Internal resistance:

R_i = 500 Ohm (2-wire)

R_i = 50 Ohm (3/4-wire)

Ambient temperature: -30°C / -22°F up to +80°C / 176°F



inclusive fixing device for actuators with lift up to 35.0 mm

for actuators type 27511, 27514 and 27521 (spring to close)

Part No. 41090.6136.00DA000

standard version (3/4-wire)

Part No. 41090.6136.00DA010

with installed limit indicator, incl. 2nd cable fitting, alarm module; electronic (6DR4004-8A), (3/4-wire)

Part No. 41090.6136.00DA020

with LY-module: 4...20 mA check-back signal (3/4-wire)

Part No. 41090.6136.00EA000

with Profibus PA connection

Part No. 41090.6136.00FA000

with foundation fieldbus and fixable friction clutch

Part No. 41090.6136.00BA100

with HART connection (2-wire)

for actuators type 27512, 27515 and 27522 (spring to open)

Part No. 41090.6136.01DA000

standard version (3/4-wire)

Part No. 41090.6136.01DA010

with installed limit indicator, incl. 2nd cable fitting, alarm module; electronic (6DR4004-8A), (3/4-wire)

Part No. 41090.6136.01DA020

with LY-module: 4...20 mA check-back signal (3/4-wire)

Part No. 41090.6136.01EA000

with Profibus PA connection

Part No. 41090.6136.01FA000

with foundation fieldbus and fixable friction clutch

Part No. 41090.6136.01BA100

with HART connection (2-wire)

inclusive fixing device for actuators with lift from 35.0 mm up to 130.0 mm

for actuators type Typ 27511, 27512, 27514, 27515, 27521 and 27522

Part No. 41090.6136.12DA000

standard version (3/4-wire)

Part No. 41090.6136.12DA010

with installed limit indicator, incl. 2nd cable fitting, alarm module; electronic (6DR4004-8A), (3/4-wire)

Part No. 41090.6136.12DA020

with LY-module: 4...20 mA check-back signal (3/4-wire)

Part No. 41090.6136.12EA000

with Profibus PA connection

Part No. 41090.6136.12FA000

with foundation fieldbus and fixable friction clutch

Part No. 41090.6136.12BA100

with HART connection (2-wire)

Accessories Actuated Valves

Type 41091 - Electropneumatic Positioner EEx



Electropneumatic positioner for pneumatic Actuator

ATTENTION - operate only with dry, oil-free air acc. to IEC654-2 !

Protecting class IP65 acc. to EN 60529, with EEx-protection: II 2 G EEx ia IIC T6

Operation: simple, Inlet air pressure: max. 6.0 bar - connection with female thread G1/4

Electrical connection: screw type terminals 2.5 mm², cable gland: M 20 x 1.5

Set point x:

4 - 20 mA with 2 conductor connections

0/4 - 20 mA with 3/4 conductor connections

Auxiliary power with 3/4 conductor connections: UH: 18-30V DC

Internal resistance:

R_i = 500 Ohm (2-wire)

R_i = 50 Ohm (3/4-wire)

Ambient temperature: -30°C / -22°F up to +50°C / 122°F



inclusive fixing device for actuators with lift up to 35.0 mm

for actuators type 27511, 27514 and 27521 (spring to close)

Part No. 41091.6136.00AA000

standard version - 2 wire connection

Part No. 41091.6136.00AA020

with LY-module: 4...20 mA check-back signal (3/4-wire with HART connection)

Part No. 41091.6136.00EA000

with Profibus PA connection

for actuators type 27512, 27515 and 27522 (Feder öffnet)

Part No. 41091.6136.01AA000

standard version - 2 wire connection

Part No. 41091.6136.01AA020

with LY-module: 4...20 mA check-back signal (3/4-wire with HART connection)

Part No. 41091.6136.01EA000

with Profibus PA connection

inclusive fixing device for actuators with lift from 35.0 mm up to 130.0 mm

for actuators type 27511, 27512, 27514, 27515, 27521 and 27522

Part No. 41091.6136.12AA000

standard version - 2 wire connection

Part No. 41091.6136.12AA020

with LY-module: 4...20 mA check-back signal (3/4-wire with HART connection)

Part No. 41091.6136.12EA000

with Profibus PA connection



Accessories Actuated Valves

Type 41090 - Pneumatic Positioner

Pneumatic positioner for pneumatic Actuator, including fixing device

ATTENTION - operate only with dry, oil-free air acc. to IEC654-2 !

Protecting class IP54 acc. to EN 60529,

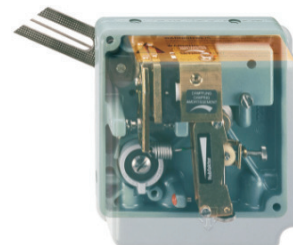
Part No. 41090.0981.22NB200

Operation: simple, Inlet air pressure: max. 6.0 bar - connection with female thread G1/8

Independent adjustment of stroke range and zero,

Signal range 0.2 - 1.0 bar or split range down to Δw 0.2 bar,
adjustable amplification and damping,

Ambient temperature: -40°C / -40°F up to +80°C / 176°F



Accessories Actuated Valves

Type 41281 - Inductive Proximity Switches EEx-Box



Inductive Proximity Switches - EEx-protected, including fixing device

Functions: inductive, Switching element function NAMUR Opener, Output polarity NAMUR, Rated operating distance 5mm, Nominal voltage 8V DC, Switch frequency 0 - 3000Hz, until SIL2 acc. to IEC 61508 suitable, protecting class IP67 acc. to EN 60529, EEX ia IIC T6 Bracket, shaft and screws made of stainless steel SS316

Working temperature: -40°C / -40°F (233K) up to +80°C / +176°F (353K)

Dimensions (width x height x depth): 8 x 15 x 7 cm (without bracket)

Part No. 41281.1114.FA300A0

with cable gland M20, made of plastic, WAGO terminal block
with universal limit switch box ATEX EexialICT6 made of plastic IP67
with 2 x switches (P+F NJ5-11-NG)
including bracket for pneumatic actuator DN10 - DN150

Part No. 41281.1114.FA500A0

with 2 cable glands M20, made of plastic, WAGO terminal block
with universal limit switch box ATEX EexialICT6 made of plastic IP67
with 2 x switches (P+F NJ5-11-NG)
including bracket for pneumatic actuator DN10 - DN150

Part No. 41281.1114.GA300A0

with cable gland M20, made of plastic, WAGO terminal block
with universal limit switch box ATEX EexialICT6 made of plastic IP67
with 2 x switches (P+F NJ5-11-NG)
including bracket for Firestone actuator (rubber bellow) for stroke up to 40mm

Special equipment with limit switch box made of aluminium

Part No. 41281.1114.FA400B0

with cable gland M20, made of brass, nickel plated, WAGO terminal block
with universal limit switch box ATEX EexialICT6 made of aluminium IP67
with 2 x switches (P+F NJ5-11-NG)
including bracket for pneumatic actuator DN10 - DN150

Part No. 41281.1114.FA600B0

with cable gland 1/2" NPT, made of plastic, WAGO terminal block
with universal limit switch box ATEX EexialICT6 made of aluminium IP67
with 2 x switches (P+F NJ5-11-NG)
including bracket for pneumatic actuator DN10 - DN150



Spare Parts Actuated Valves

Type 29343 - Topwork with pneumatic actuator



for Cryogenic-Gate Valves with Pneumatic Actuator

air pressure for operation 6,0 bar g (maximal 10,0 bar g),

Stainless steel topwork,

Actuator - air opens, spring closes

one way tightening (in flow direction),

"live loaded" gland packing

"cleaned and degreased for oxygen service" - the actuator is not cleaned and degreased for oxygen

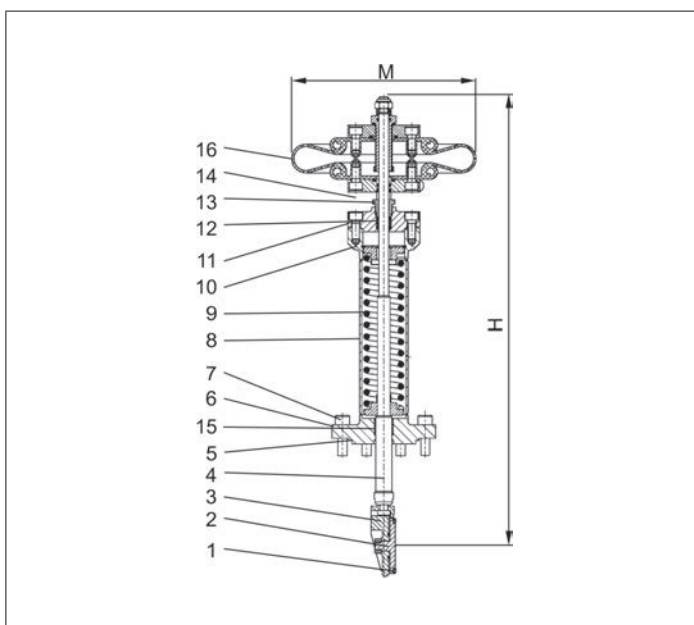
Part No. 29343.X.T020

suitable for:

Type	Nominal size
09343	DN25 - DN100



Materials	DIN EN	ASTM
1 Valve seal	PTFE / Carbon filled (25%)	
2 Disc	CW452K	B 159 UNS C51900
3 Wedge	1.4308	A 351 CF8
4 Stem	1.4301	A 276 Grade 304
5 Bonnet gasket	PTFE	
6 Headpiece	1.4308	A 351 CF8
7 Bolts	1.4301/A2	A 194 B8
8 Elongation tube	1.4541	A 213 TP 321
9 Spring	1.4571	A 313 Grade 316Ti
10 Flange	1.4301	A 276 Grade 304
11 Headpiece	1.4301	A 276 Grade 304
12 Gland packing	Graphite / PTFE	
13 Gland nut	1.4305	A 276 Grade 303
14 Pillars	1.4301	A 276 Grade 304
15 Bush	CW452K	B 159 UNS C51900
16 Actuator	Rubber	



Type 29343.X.T020	Technical data						
Nominal size	DN	25	40	50	65	80	100
Dimension code	.X.	0250	0400	0500	0650	0800	1000
Height	H	500	520	540	560	580	780
Number of bolts		4	4	6	8	6	8
Handwheel-Ø	M	229	229	229	229	229	244
Weight	ca. kg	8.5	8.6	9.6	10.5	11.6	19.0

Dimensions in mm.

Spare Parts Actuated Valves

Type 30003 - Spare part kit



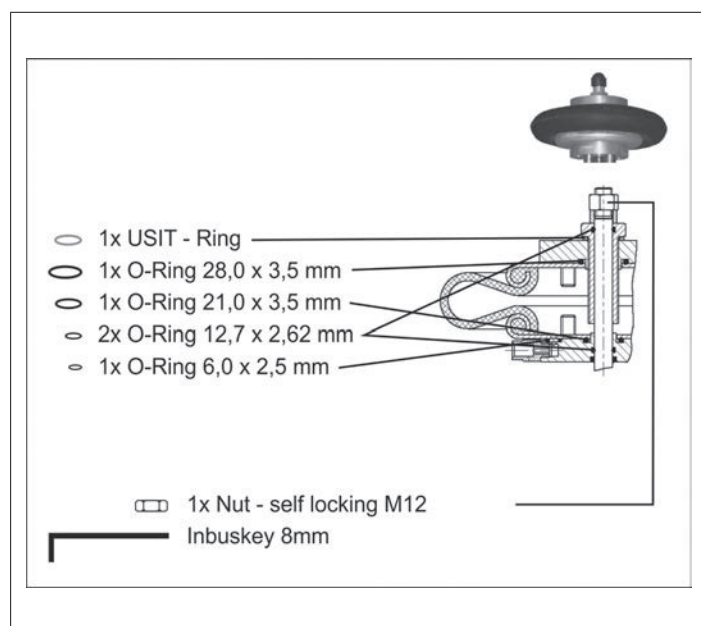
for Rubber Pneumatic Actuator

"cleaned and degreased for oxygen service"

Part No. 30003.0000.T000

suitable for:

Type	Nominal size
01353	DN15 - DN80
01653	DN15 - DN80
01753	DN15 - DN80
01853	DN15 - DN80
09343	DN25 - DN100
09443	DN25 - DN100



Type 30003.0000.T000	Technical data	
Nominal size	DN	15 - 100
Weight	ca. kg	0.25

Dimensions in mm.

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