



The SED Angle Seat Valve is composed of a 2/2-way angle seat valve body and a pneumatically operated piston actuator, which is mounted with a stainless steel adaption to the valve body.

Depending on the size, the actuators are made of plastic or aluminium.

The plastic actuators consist of a high temperature resistant plastic.

A self-adjusting gland assures reliable longlife performance. The gland is protected against dust and damage by a wiper, which is located in front of the gland.

The SED Angle Seat Valve is suitable for shut off, dosing, control and regulating liquid or gaseous media.

The angle seat valve can be designed to specific requirements.

Applications engineered for optimized flow characteristics is achieved by reduced Kv/Cv-values and equal percentage or linear flow curves.

Even simple solutions like noise reduction are possible.

Features

- High flow rate.
- Assembly of actuator is isolated from the media with sealing prior to the thread.
- 360° adjustable actuator orientation.
- Comprehensive modular accessories suitable for retrofitting after installation.
- Actuator options include normally closed, normally open, or double acting.
- Variety of valve body end connections including threaded socket, butt weld and socket weld in different international standards, flanged ends and sanitary clamps.

Industries, applications, and media where the SED seat valves may be used.

Industry:

Pharmaceutical, medical, food, beverage, cosmetics, chemical, packaging, plastic, rubber, textile and color industry.

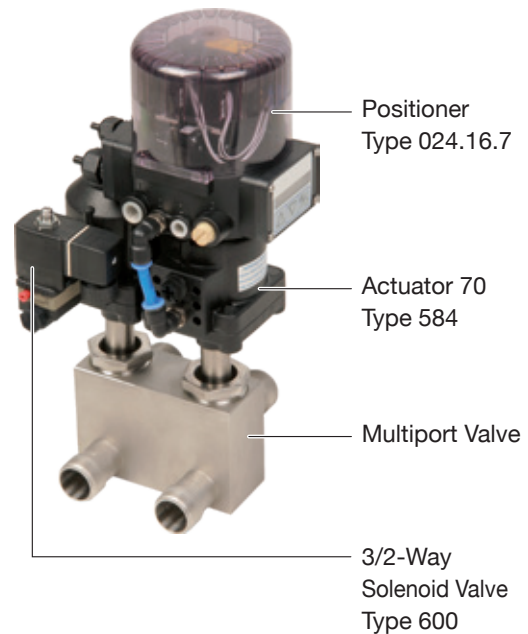
Applications:

Sterilization in CIP and SIP, autoclave, steam generation, washing and cleaning facilities, filling, cooling circuits, heating facilities, boiler construction, dosing, packaging, drying, temperature and pressure control and process flow.

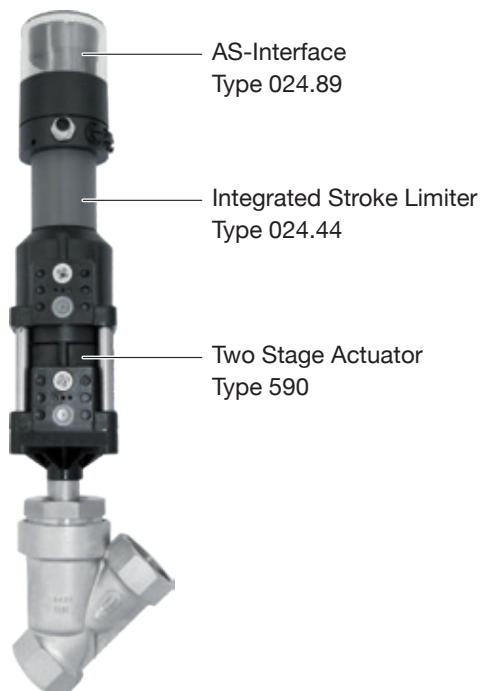
Media:

Steam, water, cooling water, gases, nitrate, compressed air, oils and various chemicals.

Multiport valve for the control and shut off of heating or cooling media, heating of fermentation units and batch boilers.



2/2-way angle seat valves with two stage actuator, adjustable stroke limiter, AS-Interface and circumferential optical position indicator, used for the filling of production containers with weighing equipment.



Bioreactor from Solaris biotechnology with SED 2/2-Way Angle Seat Valves for purified steam and diaphragm valves for aseptic media.





Technical Data

Operating Conditions

Operating Medium:	Neutral, aggressive, gaseous, and liquid media. Media must be compatible with the materials of construction.	Size:	DN 8-80
Viscosity:	Max. 600 mm ² /sec	Valve Body Material:	See ordering key page 110
Medium Temperature:	-10 to +180°C for PTFE sealing	Sealing:	PTFE capsuled (NBR, FKM, EPDM on request)
Working Pressure:	See table	Actuator Material:	See ordering key page 110
Control Medium:	Neutral gases, air	Filling Volume:	Actuator 43, 45, 46 0,03 dm ³
Temperature			Actuator 70/71 0,13 dm ³
Control Medium:	Max. +80°C		Actuator 125 0,63 dm ³
Working Temperature:	-10 to +90°C		

Kv-Value Water (m³/h)

Size	8	10	15	15	20	25	32	40	50	65	65	80
End connection Code												
Threaded socket	-	-	-	1,1N	1,1N	1,1N	1	1,1N	1,1N	-	1,1N	-
Butt weld ends	40	41, 42	45	40, 41, 42	40, 41, 42, 45	40, 41, 42, 45, 49	40, 41, 42	40, 41, 42, 45, 49	40, 41, 42, 45, 49	45, 49	40, 42	40, 45, 49
Clamp ends	740	741, 742	745	740, 741, 742	740, 741, 742, 745	740, 741, 742, 745	740, 741, 742	740, 741, 742, 745	740, 741, 742, 745	745, 749	740, 741, 742	740, 745, 749
Flange	-	-	-	51	51	51	51	51	51	-	51	51
Kv-Value actuator type code 43	2,1	2,4	2,4									
Kv-Value for all actuator types except code 43				5,2	10,0	15,0	22,5	40,0	72,0	72,0	105,0	105,0

Measuring at 20°C, 1 bar pressure at the valve input and the free outlet, measured at the valve body with threaded socket.

Kv-Value Water (m³/h), end connection code 545

Size	15	20	25	40	50	65
Kv-Value actuator type code 43	2,1	4,5	10	23	34	35

Working Pressure for Valves with flow **below** the seat, all end connections except code 545

Actuator Type Code	Type	Ø Actuator Piston	Control Function (Cf.)	Control Pressure min. - max. (bar)	Size								
					8-15	15	20	25	32	40	50	65	80
					Working Pressure max. (bar)								
	580		Manually op.			16	16	16	10	10	10		
	581		Manually op.			10	10	10	10	10	10		
43	584	45	1 (NC)	4,5-7	16								
45	584	45	1 (NC)	4,5-7		11	6	2,5					
70	584/590	70	1 (NC)	4,5-7		25	20	10	7	4,5	3		
70	582	70	1 (NC)	4,5-7		10	10	10					
125	582	125	1 (NC)	4,5-7					10	10	10	10	
125	584	125	1 (NC)	4,5-7			25	25	25	20	15	10	7
43	584	45	2 (NO)	page 98	25								
45	584	45	2 (NO)	page 99		25	22	14					
70	584	70	2 (NO)	page 100		25	25	25	25	16	11		
70	582	70	2 (NO)	max. 7		10	10	10					
125	582	125	2 (NO)	max. 7					10	10	10	10	
125	584	125	2 (NO)	max. 7						25	25	22	16
43	584	45	3 (DA)	page 98	25								
45	584	45	3 (DA)	page 99		25	25	20					
70	584	70	3 (DA)	page 100		25	25	25	25	17	11		
125	584	125	3 (DA)	page 101			25	25	25	25	25	22	16

Working Pressure for Valves with flow **below** the seat, end connection code 545

Actuator Type	Type	Ø Actuator Piston	Control Function	Control Pressure min. - max.	15	20	Size			
Code			(Cf.)	(bar)	Working Pressure max. (bar)					
70	584	70	1 (NC)	4,5-7	25	25	20	7	5	3
70	584	70	2 (NO)	page 100	25	25	25	20	12	8
70	584	70	3 (DA)	page 100	25	25	25	20	12	8

Working Pressure for Valves with flow **above** the seat (suitable to only a limited extent for liquid media, there is a danger of waterhammer)

Actuator Type Code	Type	Ø Actuator Piston	Control Function (Cf.)	Control Pressure min. - max. (bar)	Size								
					8-15	15	20	25	32	40	50	65	80
					Working Pressure max. (bar)								
46	584	45	1 (NC)	page 99		10	10	10					
71	584	70	1 (NC)	page 100		10	10	10	10	10	10		

All pressures are gauge pressures.



Technical Data Regulating Cone

Kv value Correlation, operating pressure, regulating match code 42, 742
Valve body material: 1.4404 (code 7A)

Nominal size DN	Kv-value [m³/h]	Operating pressure [bar]	Actuator size	Regulating article number	
				linear	equal-percentage (mod.)
15	0,10 **	25	70	ALA15	APA15
	0,16 **	25	70	ALB15	APB15
	0,25 **	25	70	ALC15	APC15
	0,40 **	25	70	ALD15	APD15
	0,63 **	25	70	ALE15	APE15
	1,00 **	25	70	ALF15	APF15
	1,60	25	70	ALG15	APG15
	2,50	25	70	ALH15	APH15
20	1,60	20	70	ALA20	APA20
	2,50	20	70	ALB20	APB20
	4,00	20	70	ALC20	APC20
	6,30	20	70	ALD20	APD20
25	2,50	10	70	ALA25	APA25
	4,00	10	70	ALB25	APB25
	6,30	10	70	ALC25	APC25
	10,00	10	70	ALD20	APD25
32	4,00	7	70	ALA32	APA32
	6,30	7	70	ALB32	APB32
	10,00	7	70	ALC32	APC32
	16,00	7	70	ALD32	APD32
40	6,30	4,5	70	ALA40	APA40
	10,00	4,5	70	ALB40	APB40
	16,00	4,5	70	ALC40	APC40
	25,00	20	125	ALD40	APD40
50	10,00	3	70	ALA50	APA50
	16,00	3	70	ALB50	APB50
	25,00	15	125	ALC50	APC50
	40,00	15	125	ALD50	APD50

**Metal-seated

Technical Data Regulating Cone



Kv value Correlation, operating pressure, regulating match code 40, 740
Valve body material: 1.4404 (code 7A)

Nominal size DN	Kv-value [m³/h]	Operating pressure [bar]	Actuator size	Regulating article number	
				linear	equal-percentage (mod.)
15	0,10 **	25	70	BLA15	BPA15
	0,16 **	25	70	BLB15	BPB15
	0,25 **	25	70	BLC15	BPC15
	0,40 **	25	70	BLD15	BPD15
	0,63 **	25	70	BLE15	BPE15
	1,00 **	25	70	BLF15	BPF15
	1,60	25	70	BLG15	BPG15
	2,50	25	70	BLH15	BPH15
20	1,60	20	70	BLA20	BPA20
	2,50	20	70	BLB20	BPB20
	4,00	20	70	BLC20	BPC20
	6,30	20	70	BLD20	BPD20
25	2,50	10	70	BLA25	BPA25
	4,00	10	70	BLB25	BPB25
	6,30	10	70	BLC25	BPC25
	10,00	10	70	BLD20	BPD25
32	4,00	7	70	BLA32	BPA32
	6,30	7	70	BLB32	BPB32
	10,00	7	70	BLC32	BPC32
	16,00	7	70	BLD32	BPD32
40	6,30	4,5	70	BLA40	BPA40
	10,00	4,5	70	BLB40	BPB40
	16,00	4,5	70	BLC40	BPC40
	25,00	20	125	BLD40	BPD40
50	10,00	3	70	BLA50	BPA50
	16,00	3	70	BLB50	BPB50
	25,00	15	125	BLC50	BPC50
	40,00	15	125	BLD50	BPD50

**Metal-seated



Technical Data Regulating Cone

Kv value Correlation, operating pressure, regulating match code 45 Valve body material: 1.4404 (code 7A)					
Nominal size DN	Kv-value [m³/h]	Operating pressure [bar]	Actuator size	Regulating article number	
				linear	equal-percentage (mod.)
15	0,10 **	25	70	CLA15	CPA15
	0,16 **	25	70	CLB15	CPB15
	0,25 **	25	70	CLC15	CPC15
	0,40 **	25	70	CLD15	CPD15
	0,63 **	25	70	CLE15	CPE15
	1,00 **	25	70	CLF15	CPF15
	1,60	25	70	CLG15	CPG15
	2,50	25	70	CLH15	CPH15
20	1,60	20	70	CLA20	CPA20
	2,50	20	70	CLB20	CPB20
	4,00	20	70	CLC20	CPC20
	6,30	20	70	CLD20	CPD20
25	2,50	10	70	CLA25	CPA25
	4,00	10	70	CLB25	CPB25
	6,30	10	70	CLC25	CPC25
	10,00	10	70	CLD20	CPD25
32	4,00	7	70	CLA32	CPA32
	6,30	7	70	CLB32	CPB32
	10,00	7	70	CLC32	CPC32
	16,00	7	70	CLD32	CPD32
40	6,30	4,5	70	CLA40	CPA40
	10,00	4,5	70	CLB40	CPB40
	16,00	4,5	70	CLC40	CPC40
	25,00	20	125	CLD40	CPD40
50	10,00	3	70	CLA50	CPA50
	16,00	3	70	CLB50	CPB50
	25,00	15	125	CLC50	CPC50
	40,00	15	125	CLD50	CPD50

**Metal-seated

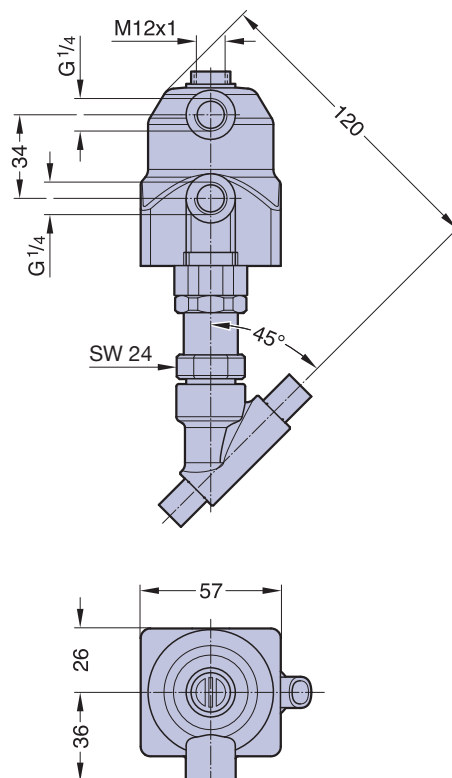
Technical Data Regulating Cone



Kv value Correlation, operating pressure, regulating match code 545 Valve body material: 1.4435 (code 7)					
Nominal size DN	Kv-value [m³/h]	Operating pressure [bar]	Actuator size	Regulating article number	
				linear	equal-percentage (mod.)
15	0,10 **	25	70	DLA15	DPA15
	0,16 **	25	70	DLB15	DPB15
	0,25 **	25	70	DLC15	DPC15
	0,40 **	25	70	DLD15	DPD15
	0,63 **	25	70	DLE15	DPE15
	1,00 **	25	70	DLF15	DPF15
	1,60	25	70	DLG15	DPG15
	2,50	25	70	DLH15	DPH15
20	1,60	20	70	DLA20	DPA20
	2,50	20	70	DLB20	DPB20
	4,00	20	70	DLC20	DPC20
	6,30	20	70	DLD20	DPD20
25	2,50	10	70	DLA25	DPA25
	4,00	10	70	DLB25	DPB25
	6,30	10	70	DLC25	DPC25
	10,00	10	70	DLD20	DPD25
32	4,00	7	70	DLA32	DPA32
	6,30	7	70	DLB32	DPB32
	10,00	7	70	DLC32	DPC32
	16,00	7	70	DLD32	DPD32
40	6,30	4,5	70	DLA40	DPA40
	10,00	4,5	70	DLB40	DPB40
	16,00	4,5	70	DLC40	DPC40
	25,00	20	125	DLD40	DPD40
50	10,00	3	70	DLA50	DPA50
	16,00	3	70	DLB50	DPB50
	25,00	15	125	DLC50	DPC50
	40,00	15	125	DLD50	DPD50

**Metal-seated

Type 584, Actuator 43

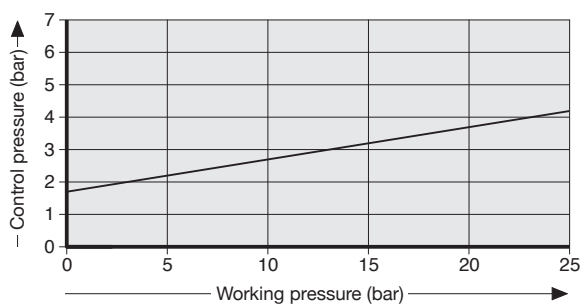


Weight ca. 0,7 kg

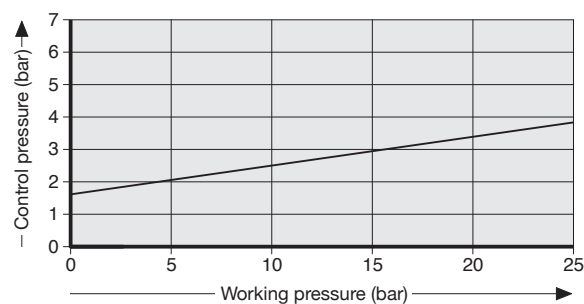
Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Actuator 43 (NO), flow below the seat



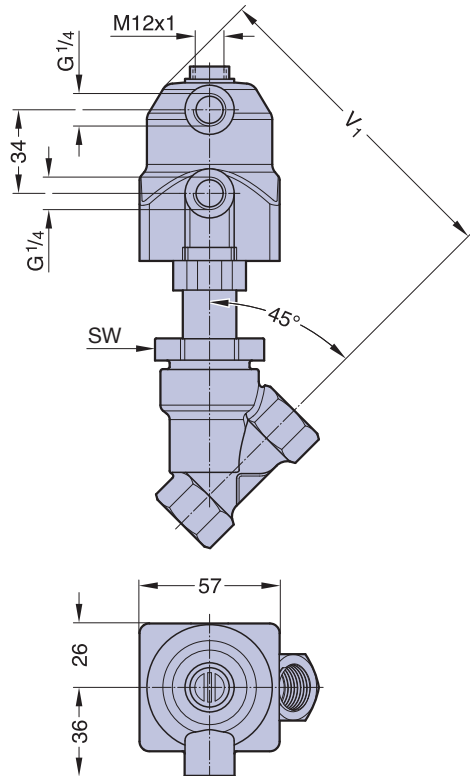
Actuator 43 (DA), flow below the seat



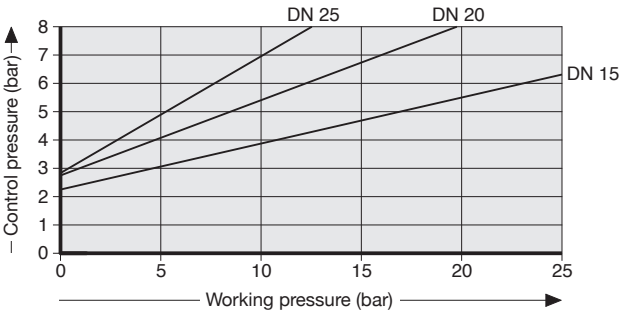
Working pressure normally closed (Cf. 1), flow below the seat as well as Working terms, see table page 93.
All pressures are gauge pressures.

Ordering key and cut view see page 110 and 111.

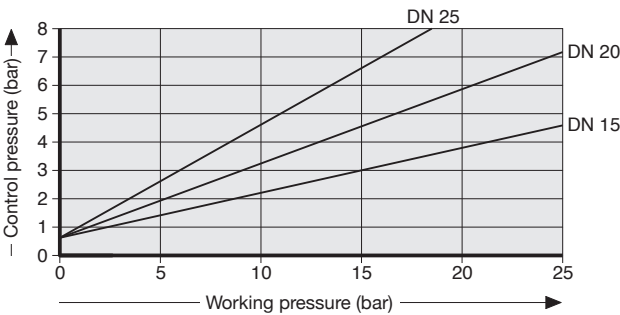
Type 584, Actuator 45 and Actuator 46



Actuator 45 (NO), flow below the seat



Actuator 45 (DA), flow below the seat



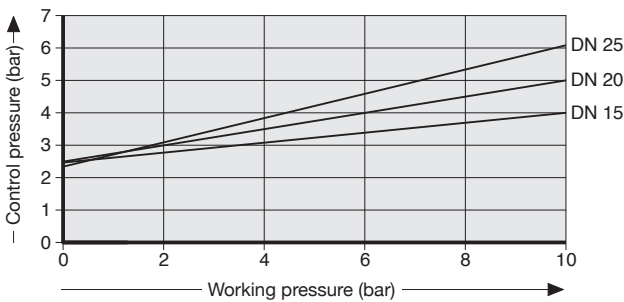
Measurement and weight table Actuator type 45 and 46

DN	SW	V ₁	Total weight ca. (kg)
15	36	130	0,8
20	41	136	1,1
25	46	140	1,2

Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Actuator 46 (NC), flow above the seat



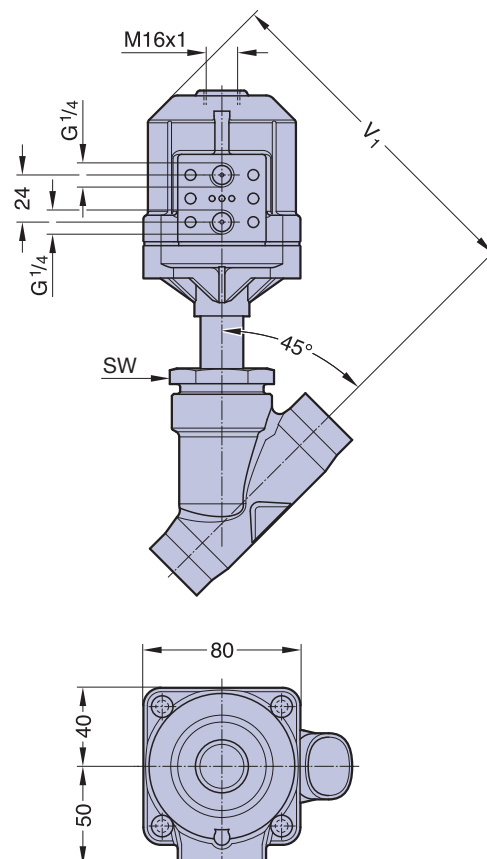
Working pressure normally closed (Cf. 1), flow below the seat as well as Working terms, see table page 93.
All pressures are gauge pressures.

Ordering key and cut view see page 110 and 111.

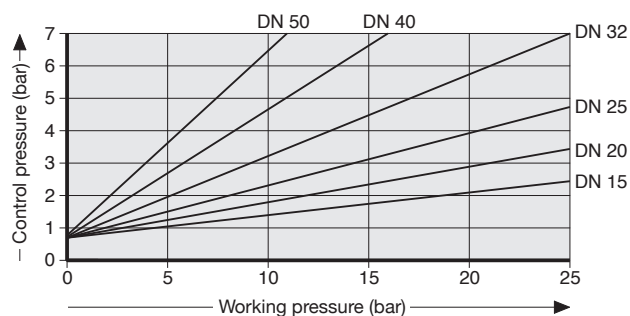
Type 584, Actuator 70 and Actuator 71



Namur-Flange
The threaded
bushing
024.583.001 for
the valve mount-
ing necessary
is available on
request.



Actuator 70 (NO), flow below the seat



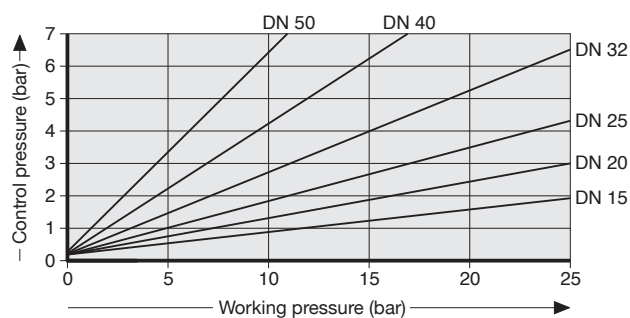
Measurement and weight table Actuator type 70 and 71

DN	SW	V ₁	Total weight ca. (kg)
15	36	162	1,2
20	41	173	1,3
25	46	173	1,6
32	55	179	2,1
40	60	185	2,2
50	75	192	3,2

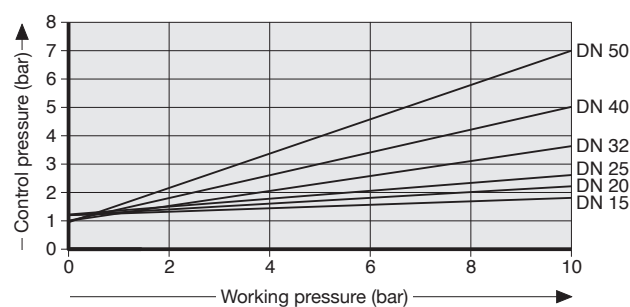
Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Actuator 70 (DA), flow below the seat



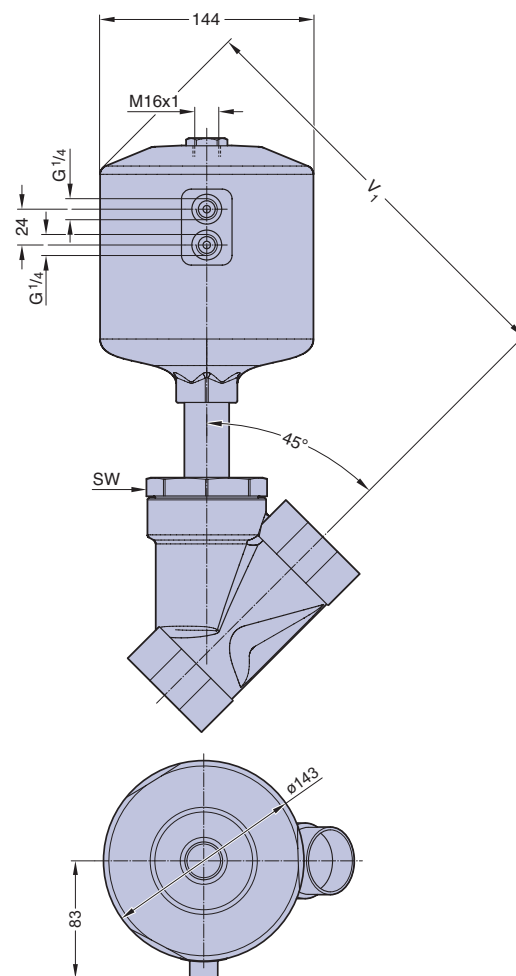
Actuator 71 (NC), flow above the seat



Working pressure normally closed (Cf. 1), flow below the seat as well as Working terms, see table page 93.
All pressures are gauge pressures.

Ordering key and cut view see page 110 and 111.

Type 584, Actuator 125



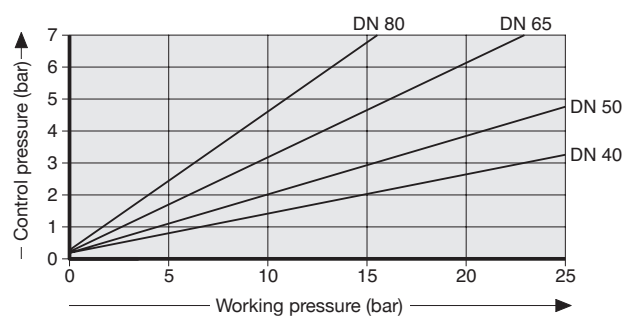
Measurement and weight table Actuator type 125

DN	SW	V ₁	Total weight ca. (kg)
20	41	258	3,7
25	46	263	3,9
32	55	269	4,4
40	60	274	4,9
50	75	282	5,9
65	75	295	7,8

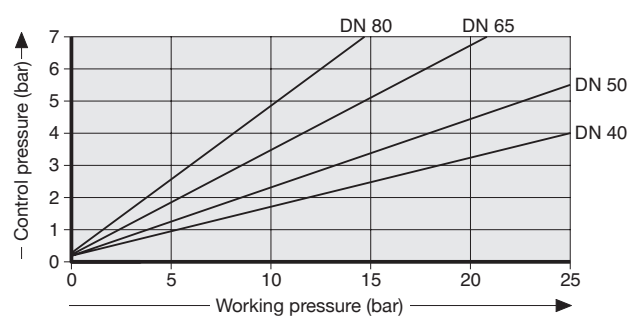
Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Actuator 125 (NO), flow below the seat



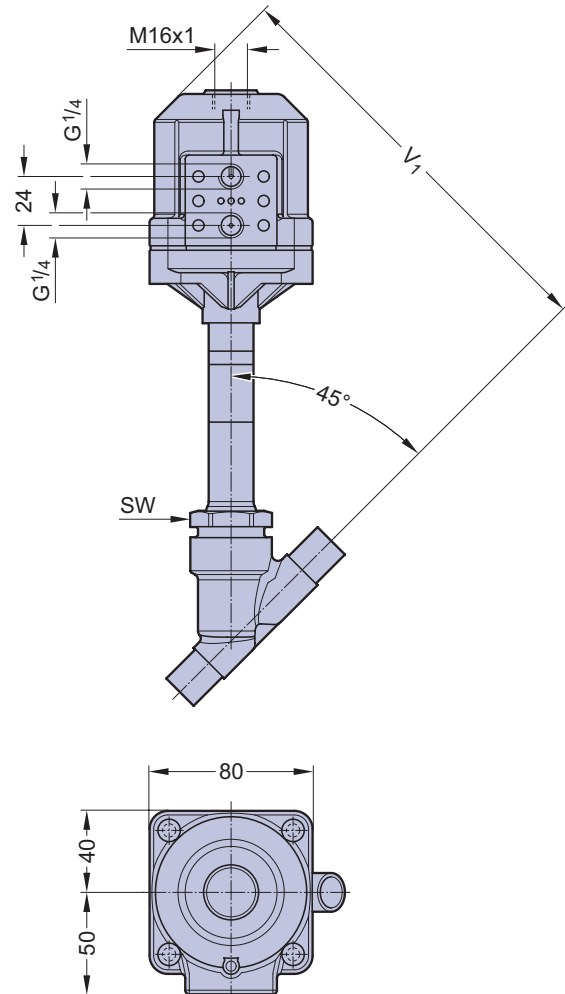
Actuator 125 (DA), flow below the seat



Working pressure normally closed (Cf. 1), flow below the seat as well as Working terms, see table page 93.
All pressures are gauge pressures.

Ordering key and cut view see page 110 and 111.

Type 582, Actuator 70



Advantages:

- Hygienic design, easy cleaning
- High temperature resistance
- Stainless steel below
- Minimized dead leg design
- Easy maintenance
- Good regulation properties
- Clean and smooth exterior for sterile washdowns
- Regulating cone

Specific application:

- Pure or clean steam and gaseous media

Measurement and weight table Actuator type 125

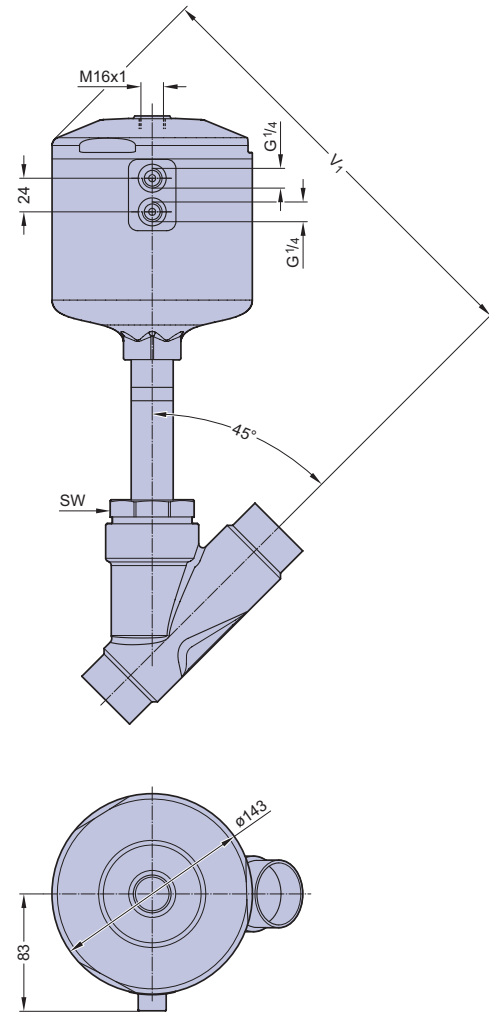
DN	SW	V ₁	Total weight ca. (kg)
15	36	209	1,8
20	41	209	2,2
25	46	209	2,8

Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Ordering key see page 110 and 111.

Type 582, Actuator 125



Advantages:

- Hygienic design, easy cleaning
- High temperature resistance
- Stainless steel below
- Minimized dead leg design
- Easy maintenance
- Good regulation properties
- Clean and smooth exterior for sterile washdowns
- Regulating cone

Specific application:

- Pure or clean steam and gaseous media

Measurement and weight table Actuator type 125

DN	SW	V ₁	Total weight ca. (kg)
32	55	310	5,9
40	60	309	7,0
50	75	309	9,0
65	75	311	13,6

Valve body types see page 107 - 109

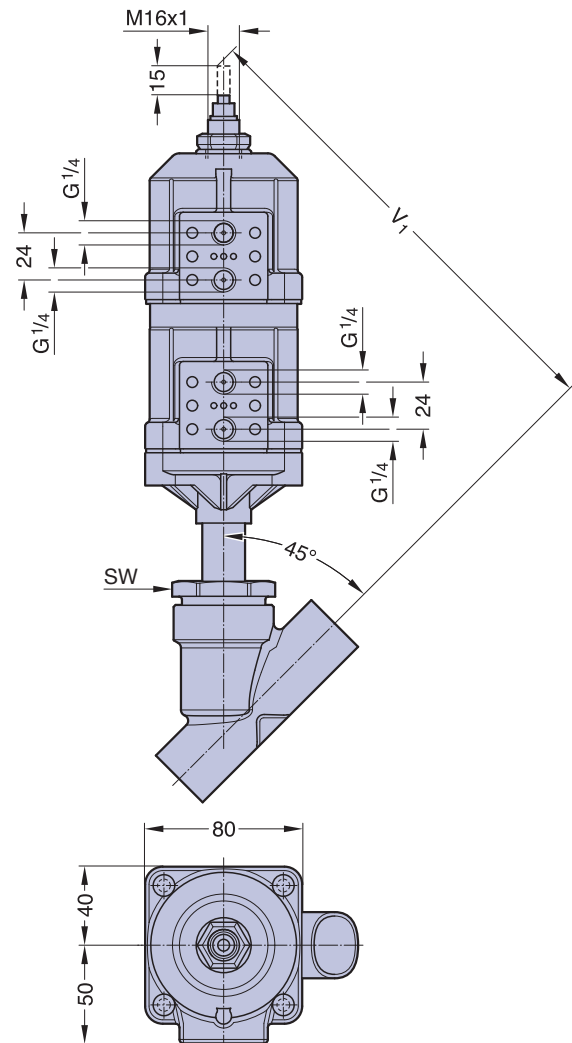
Control equipment and accessories see page 118 - 125

Ordering key see page 110 and 111.

Type 590, Two Stage Actuator 70



Cap
024.17.001
optional



2/2-Way Angle Seat Valves with Two Stage Actuator

The pneumatically controlled two stage piston actuator is made of two plastic actuators. The two stages can be independently actuated from each other.

In order to open the valve completely with the full flowrate, the lower piston has to be actuated. Limited opening or flowrate is possible by actuating the upper piston.

An adjustable stroke limiter allows to adjust the linear movement of the upper position. An optical indicator which is directly connected with the valve spindle shows the stroke.

The control function of the valve is normally closed (Cf.1).

Application

The valve is mainly used for filling with controlled filling of a tank, container or barrel. For filling, the valve is completely opened with the full flow rate. At the end of the filling cycle, the valve automatically reduces to the second stage of filling with a reduced flow rate for an accurate finish fill.

Measurement and weight table Actuator type 70

DN	SW	V ₁	Total weight ca. (kg)
15	36	232	1,9
20	41	238	2,1
25	46	243	2,2
32	55	249	2,9
40	60	255	3
50	75	263	4

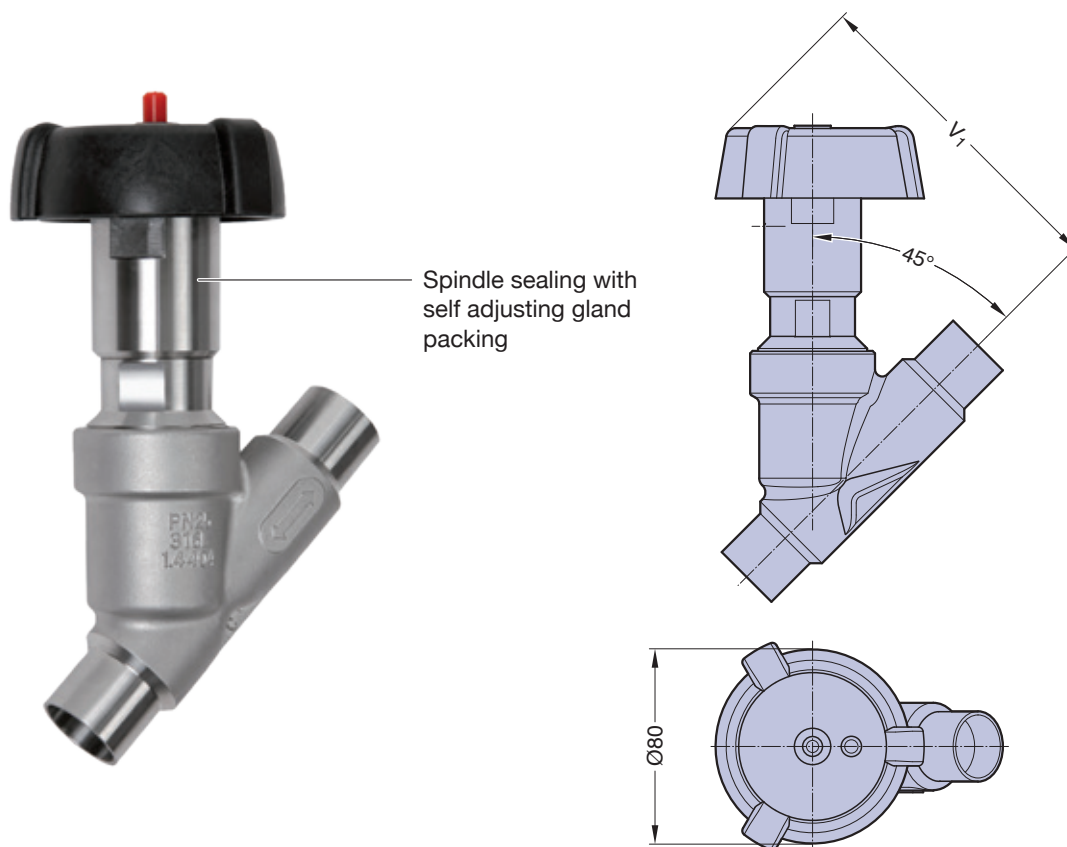
Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Working pressure normally closed (Cf. 1), flow below the seat as well as Working terms, see table page 93.
All pressures are gauge pressures.

Ordering key see page 110 and 111.

Type 580, Manually operated



Advantages:

- Hygienic design, easy cleaning
- High temperature resistance
- Minimized dead leg design
- Optical position indicator
- Easy maintenance
- Good regulation properties
- Clean and smooth exterior for sterile washdowns

Measurement and weight table

DN	V ₁	Total weight ca. (kg)
15	137	1,1
20	135	1,3
25	135	1,6
32	154	2,3
40	154	2,8
50	154	4,3

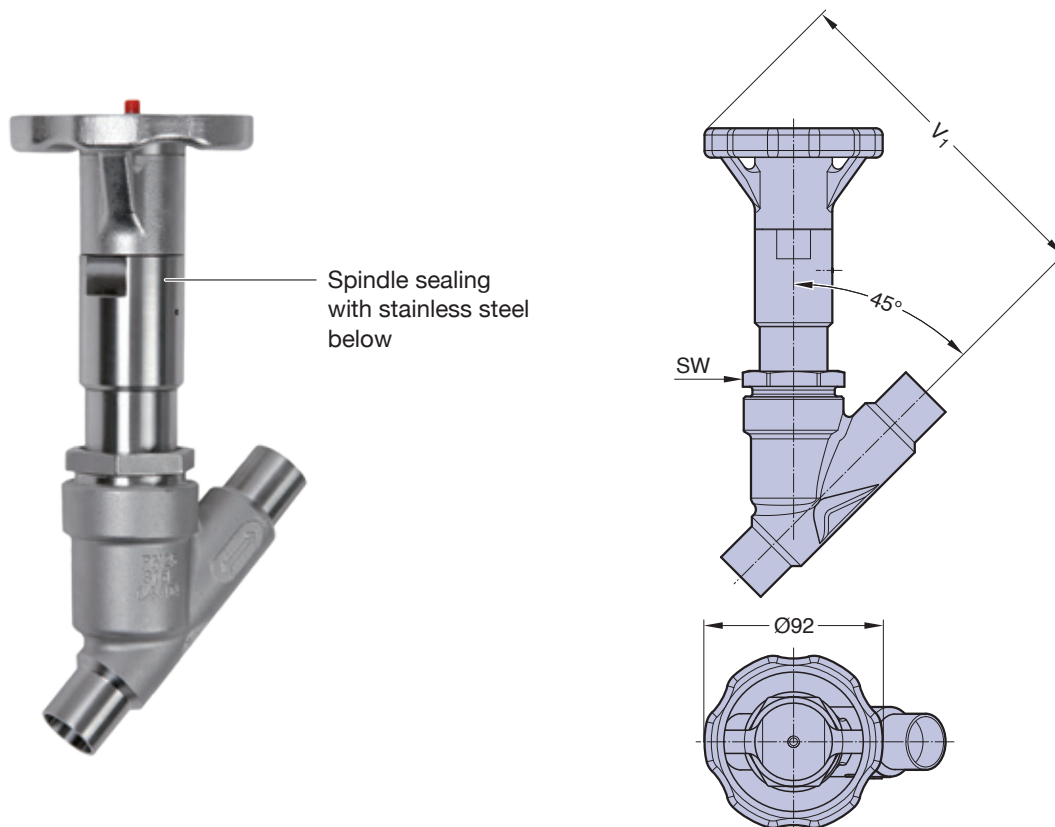
Valve body types see page 107 - 109

Control equipment and accessories see page 118 - 125

Working pressure, see table page 93.
All pressures are gauge pressures.

Ordering key see page 110 and 111.

Type 581, Manually operated



Advantages:

- Hygienic design, easy cleaning
- High temperature resistance
- Stainless steel below
- Minimized dead leg design
- Optical position indicator
- Easy maintenance
- Good regulation properties
- Clean and smooth exterior for sterile washdowns
- Regulating cone

Specific application:

- Pure or clean steam and gaseous media

Measurement and weight table

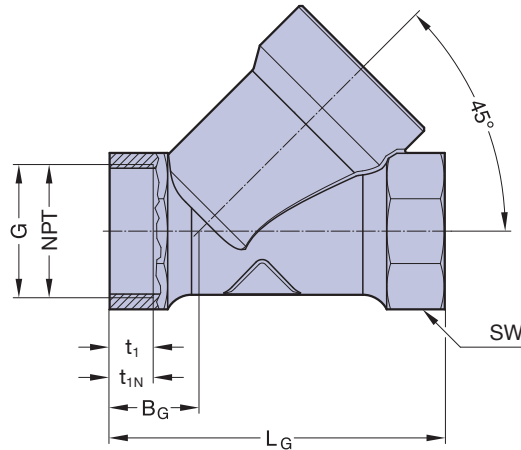
DN	SW	V ₁	Total weight ca. (kg)
15	36	177	1,8
20	41	168	1,9
25	46	175	2,1
32	55	183	2,9
40	60	189	3,4
50	75	197	4,4

Valve body types see page 104 - 105

Control equipment and accessories see page 118 - 125

Working pressure, see table page 93.
All pressures are gauge pressures.

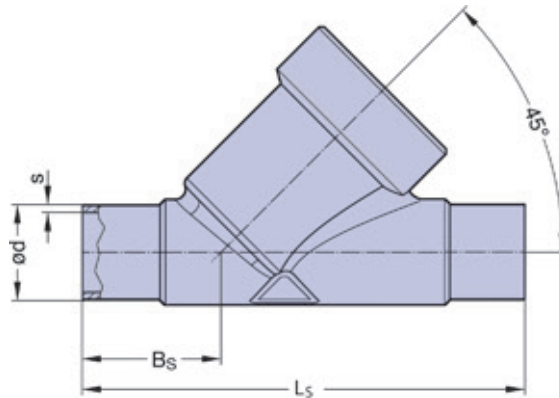
Valve Body Threaded Socket and Butt Weld End



Threaded Socket, Connection Code 1 (DIN ISO 228) & 1N (NPT), Valve Body Material 1.4408 (Code 7B)

DN	LG	BG	Actuator Type	DIN ISO 228, Code 1		NPT, Code 1N		SW	
				G	t ₁	NPT	t _{1N}		
15	65	17	45, 46, 70, 71	G 1/2	15,0	NPT 1/2	16	27	6-kt
20	75	18	45, 46, 70, 71, 125	G 3/4	14,0	NPT 3/4	17	32	6-kt
25	90	24	45, 46, 70, 71, 125	G 1	15,0	NPT 1	17	39	6-kt
32	110	33	70, 71, 125	G 1 1/4	17,0	n.a.	n.a.	50	8-kt
40	120	30	70, 71, 125	G 1 1/2	17,0	NPT 1 1/2	21	55	8-kt
50	150	40	70, 71, 125	G 2	18,5	NPT 2	22	70	8-kt
65	190	46	125	G 2 1/2	26,0	NPT 2 1/2	30	85	8-kt

Measurements in mm, G-Thread

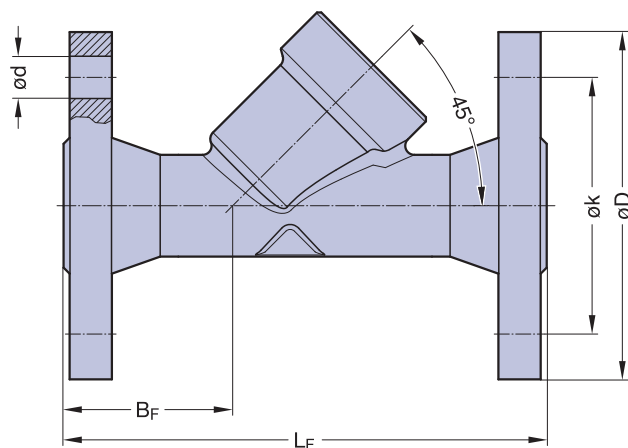


Butt Weld End, Valve Body Material 1.4404/316L (Code 7A)

Connection Code													
				DIN 11850				SMS 3008		ASTM 269 ASME BPE		ISO 1127	
				Series 1		Series 2							
Code				41		42		49		45		40	
DN	LS	BS	Actuator Type	ød	s	ød	s	ød	s	ød	s	ød	s
8	77	26	43, 44	-	-	-	-	-	-	-	-	13,5	1,6
10	77	26	43, 44	12	1	13	1,5	-	-	-	-	-	-
15	77	26	43, 44	-	-	-	-	-	-	12,7	1,65	-	-
15	105	35,5	45, 46, 70, 71	18	1	19	1,5	-	-	-	-	21,3	1,6
20	125	39	45, 46, 70, 71, 125	22	1	23	1,5	-	-	19,05	1,65	26,9	1,6
25	135	38,5	45, 46, 70, 71, 125	28	1	29	1,5	25	1,2	25,4	1,65	33,7	2
32	155	48	70, 71, 125	34	1	35	1,5	-	-	-	-	42,4	2
40	175	47	70, 71, 125	40	1	41	1,5	38	1,2	38,1	1,65	48,3	2
50	205	48	70, 71, 125	52	1	53	1,5	51	1,2	50,8	1,65	60,3	2
65	285	96	125	-	-	70	2	63,5	1,6	63,5	1,65	76,1	2
80	285	96	125	-	-	-	-	76,1	1,6	76,2	1,65	88,9	2,3

Measurements in mm, preferential standards in bold

Valve Body Clamp Socket and Flange

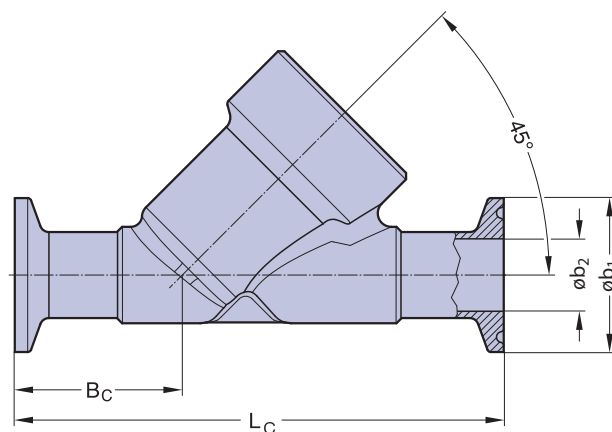


Flange, Connection Code 51, Valve Body Material 1.4404/316L (Code 7A)

DN	L_F	B_F	Actuator Type	ϕD	ϕd	ϕk	number of drilling
15	130	42	45, 46, 70, 71	95	14	65	4
20	150	54	45, 46, 70, 71, 125	105	14	75	4
25	160	56	45, 46, 70, 71, 125	115	18	85	4
32	180	59	70, 71, 125	140	18	100	4
40	200	71	70, 71, 125	150	18	110	4
50	230	83	70, 71, 125	165	18	125	4
65	290	-	125	185	18	145	4
80	310	-	125	200	18	160	8

Measurements in mm

Valve Body Threaded Socket and Butt Weld End



Clamp End, Valve Body Material 1.4404/316L (Code 7A for 740, 741, 742, 745)

					Connection Code					
Clamp End ident. Tube End ident.					Similar ISO 2852 ISO 1127	DIN 32676 DIN 11850		ASME BPE ASME BPE		
					740	741 / 742		745		
DN	NPS	LC	BC	Actuator Type	øb1	øb2	øb1	øb2	øb1	øb2
8	1/4	102	39	43, 44	25	10,3	-	-	-	-
10	3/8	102	39	43, 44	-	-	34	10	-	-
15	1/2	102	39	43, 44	-	-	-	-	25	9,4
15	1/2	130	48	45, 46, 70, 71	50,5	18,1	34	16	-	-
20	3/4	150	54	45, 46, 70, 71, 125	50,5	23,7	34	20	25	15,75
25	1	160	56	45, 46, 70, 71, 125	50,5	29,7	50,5	26	50,5	22,1
32	1 1/4	180	60,5	70, 71, 125	64	38,4	50,5	32	-	-
40	1 1/2	200	67	70, 71, 125	64	44,3	50,5	38	50,5	34,8
50	2	230	73	70, 71, 125	77,5	56,3	64	50	64	47,5
65	2 1/2	290	-	125	91	72,1	91	66	77,5	60,2
80	3	310	-	125	130	109,7	-	-	91	72,9

Measurements in mm, NPS inch

Clamp End, Valve Body Material 1.4435/316L (Code 7 for 545)

					Connection Code	
Clamp End ident. Tube End ident.					ASME BPE ASME BPE	
					545	
DN	NPS	LC	BC	Actuator Type	øb1	øb2
15	1/2	101,6	28,5	45, 46, 70, 71	25	9,4
20	3/4	101,6	35	45, 46, 70, 71, 125	25	15,75
25	1	114,3	33	45, 46, 70, 71, 125	50,5	22,1
40	1 1/2	139,7	40	70, 71, 125	50,5	34,8
50	2	158,8	?	70, 71, 125	64	47,5

Measurements in mm, NPS inch



Ordering Key and Ordering Example

Pos.	Description	Code	Specification
1	Type:	580	Manual valve, plastic hand wheel
		581	Manual valve, stainless steel hand wheel, metal bellow
		582	Pneumatic valve, plastic actuator material PAMX D6, metal bellow
		584	Pneumatic valve, plastic actuator material PAMX D6
		590	Pneumatic valve, two stage plastic actuator (only Cf. 1)
2	Size:	08-80	DN 8, 10, 15, 20, 25, 32, 40, 50, 65, 80
3	Valve body material:	7	1.4435/F316L ASME BPE st. steel investment cast (S = 0,005 – 0,017)
		7A	1.4404/316L/31603 st. steel investment cast (S ≤ 0,030)
		7B	Stainless steel, investment cast 1.4408
4	Valve body end connection:	1	Threaded socket BSP
		1N	Threaded socket NPT
		40	Butt weld end ISO 1127 (DIN 11866 Series B)
		41	Butt weld end DIN 11850 Series 1
		42	Butt weld end DIN 11850 Series 2 (DIN 11866 Series A)
		45	Butt weld end ASTM 269 ASME BPE (DIN 11866 Series C)
		49	Butt weld end SMS 3008
		51	Flange PN10/16 DIN 2564, face to face DIN EN 558-1, Series 1
		740	Clamp ISO 1127, for tube EN ISO 1127 face to face DIN EN 558-1, Series 1
		742	Clamp DIN 32676, for tube DIN 11850 face to face DIN EN 558-1, Series 1
		745	Clamp ASME BPE, for tube ASME BPE face to face DIN EN 558-1, Series 1
5	Sealing:	3	Encapsulated circumferential PTFE sealing
6.1	Actuator control function:	1	Manually operated
		2	Normally closed (NC), orientation 90° to flow direction
		3	Normally open (NO), orientation 90° to flow direction
6.2	Actuator type:	S	Plastic hand wheel
		T	Stainless steel hand wheel
		43	Plastic actuator with Stainless steel adaption, piston Ø 45 Flow below the seat
		44	Plastic actuator with Stainless steel adaption, piston Ø 45 Flow above the seat
		45	Plastic actuator with Stainless steel adaption, piston Ø 45 Flow below the seat
		46	Plastic actuator with Stainless steel adaption, piston Ø 45 Flow above the seat
		70	Plastic actuator with Stainless steel adaption, piston Ø 70 Flow below the seat
		71	Plastic actuator with Stainless steel adaption, piston Ø 70 Flow above the seat
		125	Plastic actuator with Stainless steel adaption, piston Ø 125 Flow below the seat
7	Surface roughness of the bodies in Ra: (µm)	02	Internal mechanically polished Ra ≤ 0,8 µm
		03	Internal mechanically polished Ra ≤ 0,8 µm + Electropolished
		07	Internal mechanically polished Ra ≤ 0,6 µm
		08	Internal mechanically polished Ra ≤ 0,6 µm + Electropolished
		09	Internal mechanically polished Ra ≤ 0,4 µm
		10	Internal mechanically polished Ra ≤ 0,4 µm + Electropolished
8	Regulating Cone:	AL	Linear version for valve body end connection code 42, 742
		AP	Equal-percentage version for valve body end connection code 42, 742
		BL	Linear version for valve body end connection code 40, 740
		BP	Equal-percentage version for valve body end connection code 40, 740
		CL	Linear version for valve body end connection code 45, 745
		CP	Equal-percentage version for valve body end connection code 45, 745
		DL	Linear version for valve body end connection code 545
		DP	Equal-percentage version for valve body end connection code 545

Bold = preferential standards

Type 584, Actuator 70



Code:	1	2	3	4	5	6.1	6.2
Artikel No.:	584	25	75	1	3	1	70
Type:							Actuator Type: Plastic actuator with Stainless steel adaption, piston Ø 70
584 Pneumatic valve Plastic actuator Material PAMX D6							Actuator Control Function: Normally closed (NC), orientation 90° to flow direction
Size: DN 25							Sealing: Encapsulated circumferential PTFE Sealing
Valve Body Material: Stainless steel, investment cast 1.4408/316							
							Valve Body End Connection: Threaded socket

