

Series 240

Type 3349/3379 Pneumatic Control Valve

Type 3349 Aseptic Angle Valve

With USP-VI diaphragm



Application

Control valve for aseptic applications in the food and pharmaceutical industries according to DIN or ANSI standards with USP-VI diaphragm

Valve size	DN 8 to 50 · NPS 3/8 to 2
Maximum pressure	10 bar · 150 psi
Medium temperature	0 to 160 °C · 32 to 320 °F



Type 3349 Angle Valve with Type 3379 Pneumatic Actuator

Special features

- Valve body made of stainless steel 1.4435 or 316L
- Wetted inside surfaces with a smooth or polished finish
- Categorized in conformity assessment module A of the Pressure Equipment Directive
- Wetted sealing materials comply with FDA regulations
- USP-VI 121 °C conformity

The valve body is designed without cavities and can be fitted with various end connections (e.g. welding ends). It can be cleaned and sterilized using the CIP or SIP methods. The plug stem guide is sealed by a diaphragm. The test connection enables the diaphragm to be monitored for leakages. The valve is suitable for aseptic applications.

Versions

Standard version · Angle valve in bar stock with USP-VI certification · DN 15 to 50 (NPS 1/2 to 2) with welding ends according to DIN 11866 Series A (DIN 11850 Series 2) · Type 3379 Actuator, optionally with Type 3724 Positioner

Maximum operating pressure according to Table 1.3 · Valve with bolted-on bonnet with or without backup packing · Plug stem sealed by PTFE diaphragm.

Further versions

- **Welding ends** according to DIN 11866 Series B, (ISO 1127), DIN 11866 Series C (BS 4825/ASTM A-270/ASME BPE), ISO 2037, SMS 3008, JIS 3447/3459
- **Threaded connections** according to DIN 11864-1 GS Form A, Series A, B, C
- **Clamp connections** according to DIN 11864-3 NKS Form A, Series A, B, C. Hygienic connections according to DIN 32676, BS 4825, JIS G 3447/3459, ISO 2852 as special version on request
- **Aseptic flanges** according to DIN 11864-2 NF Form A, Series A, B, C



Fig. 1: Compact automated unit with standard version of the Type 3349/3379 Control Valve with welding ends and Type 3724 Positioner

- **Micro-flow valve version** · Version in bar stock, DN 8 to 25 (NPS 3/8 to 1) · With Type 3379 Actuator with 31 cm² actuator area · Special version with packing · On request
- **With Type 3724 Positioner** (see Data Sheet ► T 8395)

Principle of operation

The process medium flows through the valve in the flow-to-close direction as indicated by the arrow. The position of the valve plug determines the flow rate across the cross-sectional area of flow released between plug and lathed seat.

In the standard version, the plug stem is sealed by the diaphragm. In the special version, an additional backup packing is used.

The test connection allows the diaphragm to be monitored for leakage.

In the version with backup packing, the test connection is sealed by a stopper.

The test connection of valves without a backup packing is fitted with a pipe elbow to allow the safe drainage of any medium that escapes.

Actuator

The valve comes with the Type 3379 Pneumatic Actuator together with the Type 3724 Positioner to form a compact automated unit.

Fail-safe position

Depending on how the compression springs are arranged in the pneumatic actuator, the valve has two fail-safe positions effective upon air supply failure:

- **Actuator stem extends (fail-close):** The valve closes when the supply air fails.
- **Actuator stem retracts (fail-open):** The valve opens when the supply air fails.

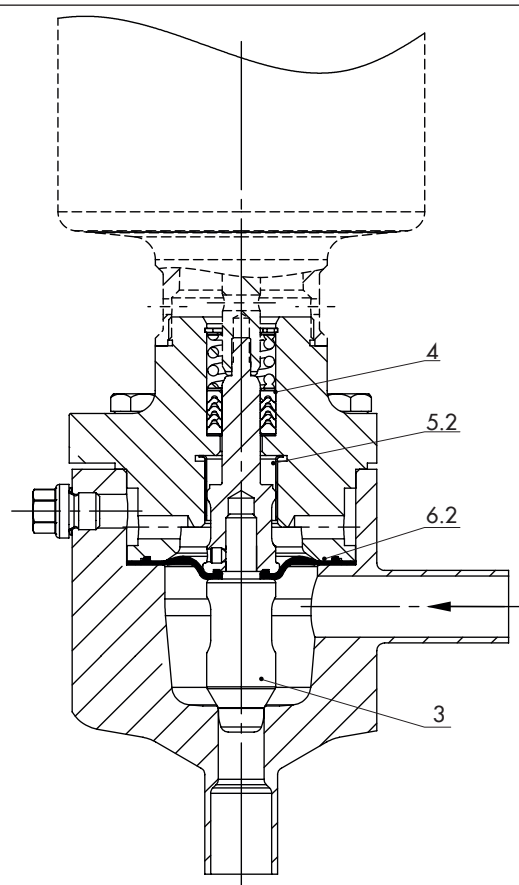


Fig. 2: Type 3349 Angle Valve, special version with packing

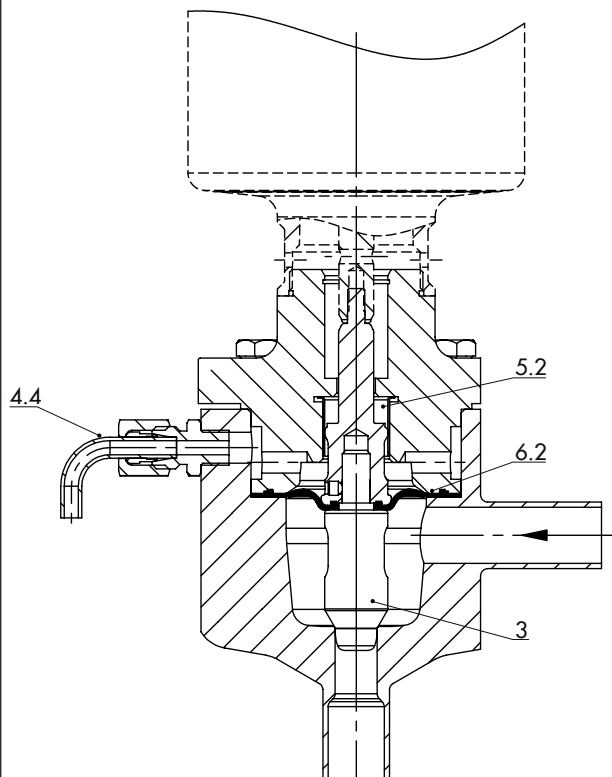


Fig. 3: Type 3349 Angle Valve, version with test connection

Legend for Fig. 2 and Fig. 3

- 3 Plug
- 4 Packing
- 4.4 Test connection
- 5.2 Bearing
- 6.2 Diaphragm

Table 1: Technical data**Table 1.1: Type 3349 Angle Valve**

Version		DIN	ANSI
Valve size		DN 8 to 50	NPS 3/8 to 2
Maximum pressure	See Table 1.3	10 bar	150 psi
Type of connection		According to Table 1.3	
Seat-plug seal		Metal seal · Soft seal ¹⁾	
Characteristic		Equal percentage or linear	
Rangeability		50:1 up to DN 50/NPS 2 · 30:1 for $K_{VS} \leq 0.63/C_V \leq 0.75$	
Permissible temperatures	Operating temperature	0 to 160 °C	32 to 320 °F
	Sterilizing temperature	180 °C for up to 30 min	356 °F for up to 30 min
Leakage class acc. to IEC 60534-4 or ANSI/FCI 70-2		Metal seal: IV	
		Soft seal: VI	
Cleaning		CIP (cleaning in place) or SIP (sterilization in place)	
Peak-to-valley height ²⁾ and surface finish	External	Standard: Shiny metallic	
		$R_a \leq 0.6 \mu\text{m}$ · Polished	
	Internal	Standard: $R_a \leq 0.8 \mu\text{m}$ · Fine machine finish	
		$R_a \leq 0.6 \mu\text{m}$ · Polished	
		$R_a \leq 0.4 \mu\text{m}$ · Satin finish	
		$R_a \leq 0.4 \mu\text{m}$ · Mirror finish	
Certificates		Metal or soft seal (PTFE): USP-VI, FDA Soft seal (PEEK): FDA	
Compliance		EAC	

¹⁾ Special version (not for micro-flow valve version)

²⁾ Other peak-to-valley heights on request

Table 1.2: Type 3379 Pneumatic Piston Actuator

Piston diameter	mm	63				90			
Actuator area	cm ²	31				63			
Rated travel	mm	15				15			
Perm. ambient temperature	°C (°F)	0 to 60 (32 to 140)							
Max. supply pressure	bar (psi)	8 (116)							
Hysteresis	bar (psi)	0.4 (5.8)				0.3 · 0.5 · 0.6 (4.4 · 7.3 · 8.7)			
Fail-safe position		Stem extends (FA)		Stem retracts (FE)		Stem extends (FA)		Stem retracts (FE)	
Number of springs		1		1		2		1	
Control pressure	bar (psi)	4 (58)		6 (87)		6 (87)		4.5 (65)	
Nominal range	bar (psi)	2.3 to 3.7 (33.4 to 53.7)		2.3 to 3.7 (33.4 to 53.7)		3.3 to 5.6 (47.9 to 81.2)		2.5 to 4.0 (36.3 to 58)	
Travel	mm	15	7.5	15	7.5	15	7.5	15	7.5
Thrust	N	720	930	720	930	2090	2670	1590	2030
						2580	2830	1320	1570

Table 1.3: End connections, operating range with maximum pressures and temperature limits

Connection	Standard	Valve sizes	Max. operating pressure	Pressure-temperature diagram
Welding ends	DIN 11850 Series 2 (std)	DIN version DN 8 to 50	10 bar	DIN
	DIN 11866, Series B			
	ISO 1127			
	ISO 2037			
	SMS 3008			
	BS 4825			
	ASTM A-270	ANSI version NPS 3/8 to 2	150 psi	ANSI
Threaded connection	DIN 11864-1, Form A		10 bar	DIN
Clamp connections	DIN 11864-3, Form A			
Flanges	DIN 11864-2, Form A			

Table 2: Materials

Version	DIN	ANSI
Body	1.4435	316 L
Bonnet	1.4404	316 L
Plug	1.4435	316 L
Plug stem guide	PTFE	
Packing	Special version	PTFE
Diaphragm	PTFE	

Table 3: K_{VS} and C_V coefficients and associated nominal sizes**Table 3.1: Standard version**

K_{VS}	0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4	6.3	10	16	25	40	
C_V	0.12	0.2	0.3	0.5	0.75	1.2	2	3	5	7.5	12	20	30	47	
Seat Ø [mm]	6					6 12 ¹⁾	12		12 24 ¹⁾	24 up to DN 25/NPS 1 31 for DN 32/ NPS 1¼ and larger			31	38	48
Rated travel [mm]	Up to DN 25/NPS 1: 7.5 mm											-			
	-									DN 32/NPS 1¼ and larger: 15 mm					
DN	NPS														
15	½	•	•	•	•	•	•	•	•	•					
20	¾	•	•	•	•	•	•	•	•	•					
25	1	•	•	•	•	•	•	•	•	•	•	•			
32	1¼										•	•	•		
40	1½										•	•	•	•	
50	2										•	•	•	•	•

¹⁾ Seat Ø for version with V-port plug

Table 3.2: Micro-flow valve version

K_{VS}	0.01	0.016	0.025	0.04	0.063	0.1	0.16	0.25
C_V	0.012	0.02	0.03	0.05	0.075	0.12	0.2	0.3
Seat Ø [mm]	3 (micro-flow valve)							
Rated travel [mm]	7.5 mm							
DN	NPS							
8	-	•	•	•	•	•	•	•
10	¾	•	•	•	•	•	•	•
15	1	•	•	•	•	•	•	•
25	1¼	•	•	•	•	•	•	•

Table 4: Operating ranges for Type 3349 USP-VI with "actuator stem extends" fail-safe position · Valve closed with 0 bar/psi signal pressure

Table 4.1: All pressures stated in bar

Valve size		Seat Ø [mm]	K _{Vs}	Actuator area [cm ²]	Bench range [bar]	Operating range in bar when p ₂ = 0 bar (valve CLOSED)			
DN	NPS					Δp = 0 to 7 bar	Δp = 8 bar	Δp = 9 bar	Δp = 10 bar
8 to 25 ¹⁾	3/8 to 1 ¹⁾	3	0.01 to 0.25	31	2.3 to 3.7	2.3 to 3.0			
15 to 25	1/2 to 1	6	0.1 to 1.0	31	2.3 to 3.7	2.3 to 3.0	–	–	–
15 to 25	1/2 to 1	6	0.1 to 1.0	63	2.5 to 4.0	2.5 to 3.3			
15 to 25	1/2 to 1	12	1.6 to 4.0	31	2.3 to 3.7	2.3 to 3.0	–	–	–
15 to 25	1/2 to 1	12	1.6 to 4.0	63	2.5 to 4.0	2.5 to 3.3			
25	1	24	6.3 to 10	31	2.3 to 3.7	2.3 to 3.0	–	–	–
25	1	24	6.3 to 10	63	2.5 to 4.0	2.5 to 3.3			
32 to 50	1 1/4 to 2	31	6.3 to 10	63	3.3 to 5.6	3.3 to 5.6	–	–	–
40 to 50	1 1/2 to 2	38	25	63	3.3 to 5.6	3.3 to 5.6		–	–
50	2	48	40	63	3.3 to 5.6	3.3 to 5.6		–	–

¹⁾ Micro-flow valve

Table 4.2: All pressures in psi

Valve size		Seat Ø [mm]	C _v	Actuator area [cm ²]	Bench range [psi]	Operating range in psi when p ₂ = 0 psi (valve CLOSED)			
DN	NPS					Δp = 0 to 100 psi	Δp = 116 psi	Δp = 130 psi	Δp = 145 psi
8 to 25 ¹⁾	3/8 to 1 ¹⁾	3	0.01 to 0.3	31	33 to 53	33 to 43			
15 to 25	1/2 to 1	6	0.12 to 1.2	31	33 to 53	33 to 43	–	–	–
15 to 25	1/2 to 1	6	0.12 to 1.2	63	36 to 58	36 to 47			
15 to 25	1/2 to 1	12	2 to 5	31	33 to 53	33 to 43	–	–	–
15 to 25	1/2 to 1	12	2 to 5	63	36 to 58	36 to 47			
25	1	24	7.5 to 12	31	33 to 53	33 to 43	–	–	–
25	1	24	7.5 to 12	63	36 to 58	36 to 47			
32 to 50	1 1/4 to 2	31	7.5 to 12	63	47 to 81	47 to 81	–	–	–
40 to 50	1 1/2 to 2	38	30	63	47 to 81	47 to 81		–	–
50	2	48	47	63	47 to 81	47 to 81		–	–

¹⁾ Micro-flow valve

Table 5: Supply pressures for Type 3349 USP-VI with "actuator stem retracts" fail-safe position · Valve closed with the required supply pressure

Table 5.1: All pressures stated in bar

Valve size		Seat Ø [mm]	K _{vs}	Actuator area [cm ²]	Bench range (operating range) [bar]	Required supply pressure in bar when p ₂ = 0 bar (valve CLOSED)			
DN	NPS					Δp = 0 to 7 bar	Δp = 8 bar	Δp = 9 bar	Δp = 10 bar
8 to 25 ¹⁾	¾ to 1 ¹⁾	3	0.01 to 0.25	31	2.3 to 3.7 (3.0 to 3.7)	4.7			
15 to 25	½ to 1	6	0.1 to 1.0	31	2.3 to 3.7 (3.0 to 3.7)	6	-	-	-
15 to 25	½ to 1	6	0.1 to 1.0	63	1.0 to 1.9 (1.5 to 1.9)	3.2			
15 to 25	½ to 1	12	1.6 to 4.0	31	2.3 to 3.7 (3.0 to 3.7)	6	-	-	-
15 to 25	½ to 1	12	1.6 to 4.0	63	1.0 to 1.9 (1.5 to 1.9)	3.2			
25	1	24	6.3 to 10	31	2.3 to 3.7 (3.0 to 3.7)	6	-	-	-
25	1	24	6.3 to 10	63	1.0 to 1.9 (1.5 to 1.9)	3.2			
32 to 50	1¼ to 2	31	6.3 to 10	63	1.0 to 1.9	5.1	5.4	5.7	-
40 to 50	1½ to 2	38	25	63	1.0 to 1.9	4.8	5.1	5.4	5.7
50	2	48	40	63	1.0 to 1.9	4.7	5	5.3	5.6

¹⁾ Micro-flow valve

Table 5.2: All pressures in psi

Valve size		Seat Ø [mm]	C _v	Actuator area [cm ²]	Bench range (operating range) [bar]	Required supply pressure in psi when p ₂ = 0 psi (valve CLOSED)			
DN	NPS					Δp = 0 to 100 psi	Δp = 116 psi	Δp = 130 psi	Δp = 145 psi
8 to 25 ¹⁾	¾ to 1 ¹⁾	3	0.01 to 0.3	31	33 to 53 (43 to 53)	68			
15 to 25	½ to 1	6	0.12 to 1.2	31	33 to 53 (43 to 53)	87	-	-	-
15 to 25	½ to 1	6	0.12 to 1.2	63	14 to 27 (21 to 27)	46			
15 to 25	½ to 1	12	2 to 5	31	33 to 53 (43 to 53)	87	-	-	-
15 to 25	½ to 1	12	2 to 5	63	14 to 27 (21 to 27)	46			
25	1	24	7.5 to 12	31	33 to 53 (43 to 53)	87	-	-	-
25	1	24	7.5 to 12	63	14 to 27 (21 to 27)	46			
32 to 50	1¼ to 2	31	7.5 to 12	63	14 to 27	73	78	82	-
40 to 50	1½ to 2	38	30	63	14 to 27	69	73	78	82
50	2	48	47	63	14 to 27	68	72	76	81

¹⁾ Micro-flow valve

Table 6: Dimensions for Type 3349/3379 Control Valve**Table 6.1:** Dimensions and weights for standard version of Type 3349 Angle Valve

Valve	DN	15	20	25	32	40	50
	NPS	½	¾	1	1¼	1½	2
Rated travel	mm	7.5			15		
H1	mm	68			101		
A	mm	84			112		
Weight with welding ends	kg	3.7			13		

Table 6.2: Dimensions and weights for micro-flow valve version of Type 3349 Angle Valve

Valve	DN	8	10	15	20	25
	NPS	–	¾	½	¾	1
Rated travel	mm	7.5				
DIN 11866, Series A						
H1	mm	61	61	65	65	70
A	mm	83				
Weight with welding ends	kg	1				
DIN 11866, Series B						
H1	mm	61	65	65	70	70
A	mm	83				
Weight with welding ends	kg	1				
DIN 11866, Series C						
H1	mm	–	61	61	65	70
A	mm	–	83			
Weight with welding ends	kg	–	1			

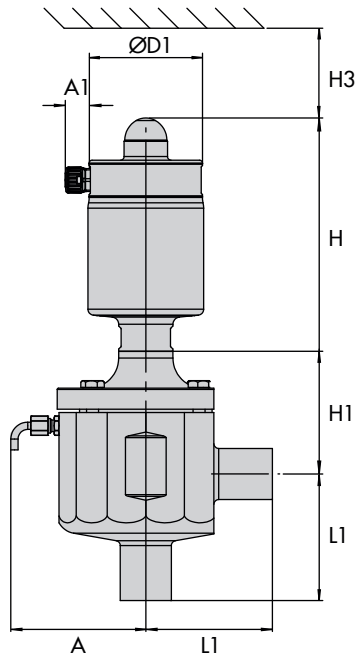
Table 6.3: Dimensions and weights for Type 3379 Pneumatic Actuator · Without positioner

Actuator area	mm	31	63
Actuator diameter ØD1	mm	69	96
Height H	mm	195	
Height H3	mm	150	150
Length A1	mm	20	
Weight	kg	1.8	3.1

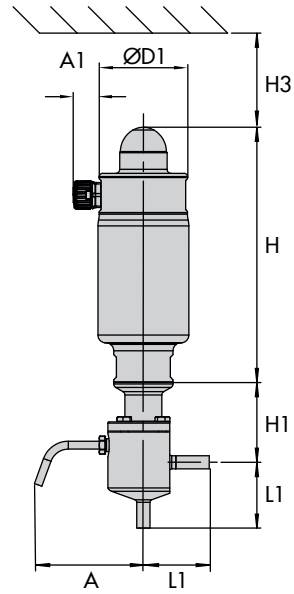
Table 6.4: Dimensions and weights for Type 3379 Pneumatic Actuator with Type 3724 Positioner

Actuator area	mm	31	63
Actuator diameter ØD2	mm	107	
Height H4	mm	285	
Height H3	mm	150	
Length A2	mm	30	
Weight	kg	3.2	4.4

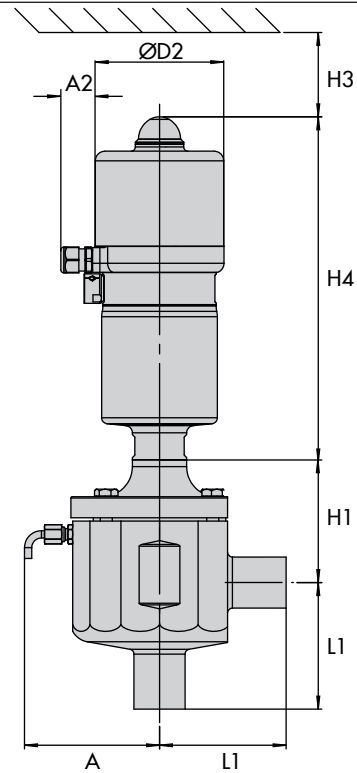
Dimension diagrams for the control valve (see Table 6)



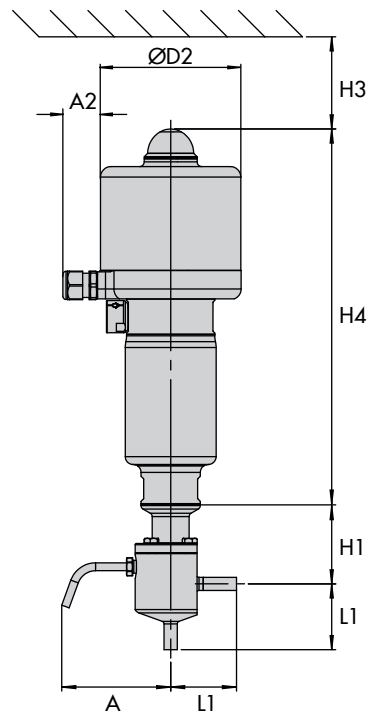
Type 3349 with welding ends and Type 3379
Version with bar stock body



Type 3349 (micro-flow valve version) with welding ends and
Type 3379 · Version with bar stock body

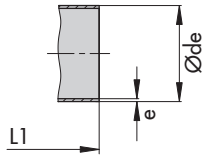


Type 3349 with welding ends, Type 3379 Actuator, and Type 3724
Positioner · Version with bar stock body

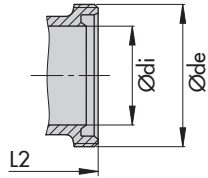


Type 3349 (micro-flow valve version) with welding ends, Type 3379
Actuator, and Type 3724 Positioner · Version with bar stock body

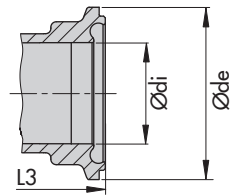
Dimensional drawings for end connections (see Table 7)



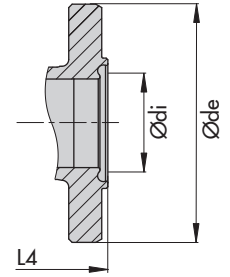
Welding ends



Threaded connection



Clamp connections



Flanges

Table 7: Dimensions of end connections · All dimensions in mm

Table 7.1: Welding ends · Standard version (S) and micro-flow valve version (M) · Dimensions marked by an asterisk (*) are not standardized

Valve	DN (OD) ¹⁾	8 (13.5)	10 (17.2)	15 (21.3)	20 (26.9)	25 (33.7)	32 (42.4)	40 (48.3)	50 (60.3)
	NPS	–	¾	½	¾	1	1¼	1½	2
Welding ends for pipes acc. to DIN 11866 Series A (DIN 11850 Series 2)	L1 (S)	–	–	70*	70*	70*	105*	105*	105*
	L1 (M)	50	50	50	50	50	–	–	–
	Ød _i	8	13	16	20	26	32	38	50
	Ød _e	10	10	19	23	29	35	41	53
	e	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Welding ends for pipes acc. to DIN 11866 Series B	L1 (S)	–	–	70*	70*	70*	105*	105*	105*
	L1 (M)	50	50	50	50	50	–	–	–
	Ød _i	10.3	14	18.1	23.7	29.7	38.4	44.3	56.3
	Ød _e	13.5	17.2	21.3	26.9	33.7	42.4	48.3	60.3
	e	1.6	1.6	1.6	1.6	2	2	2	2
Welding ends for pipes acc. to DIN 11866 Series C (ASTM A-270/ASME BPE)	L1 (S)	–	–	70*	70*	70*	–	105*	105*
	L1 (M)		50	50	50	50		–	–
	Ød _i		7.75	9.4	15.75	22.1		34.8	47.5
	Ød _e		9.53	12.7	19.05	25.4		38.1	50.8
	e		0.89	1.65	1.65	1.65		1.65	1.65
Welding ends for pipes acc. to ISO 1127 Series 1	L1 (S)	–	–	70*	70*	70*	105*	105*	105*
	L1 (M)	50	50	50	50	50	–	–	–
	Ød _i	10.3	14	18.1	23.7	29.7	38.4	44.3	55.1
	Ød _e	13.5	17.2	21.3	26.9	33.7	42.4	48.3	60.3
	e	1.6	1.6	1.6	1.6	2	2	2	2.6
Welding ends for pipes acc. to ISO 2037	L1 (S)	–	–	70*	70*	70*	105*	105*	105*
	L1 (M)		50	50	50	50	–	–	–
	Ød _i		10	15.2	19.3	22.6	31.3	35.6	48.6
	Ød _e		12	17.2	21.3	25	33.7	38	51
	e		1	1	1	1.2	1.2	1.2	1.2
Welding ends for pipes according to BS 4825	L1 (S)	–	–	–	–	70*	–	105*	105*
	L1 (M)					50		–	–
	Ød _i					22.1		34.8	47.5
	Ød _e					25.4		38.1	50.8
	e					1.65		1.65	1.65
Welding ends for pipes acc. to SMS 3008	L1 (S)	–	–	70*	–	70*	105*	105*	105*
	L1 (M)		50	50		50	–	–	–
	Ød _i		10	16		22.6	31.3	35.6	48.6
	Ød _e		12	18		25	33.7	38	51
	e		1	1		1.2	1.2	1.2	1.2
Welding ends according to JIS G 3447	L1 (S)	–	–	–	–	70*	105*	105*	105*
	L1 (M)					50	–	–	–
	Ød _i					23	29.4	35.7	47.8
	Ød _e					25.4	31.8	38.1	50.8
	e					1.2	1.2	1.2	1.5
Welding ends according to JIS G 3459	L1 (S)	–	–	70*	70*	70*	105*	105*	105*
	L1 (M)	50	50	50	50	50	–	–	–
	Ød _i	11.4	14.9	18.4	23.9	30.7	39.4	45.3	57.2
	Ød _e	13.8	17.3	21.7	27.2	34	42.7	48.6	60.5
	e	1.2	1.2	1.65	1.65	1.65	1.65	1.65	1.65

¹⁾ Values in parentheses according to DIN 11866 Series B

Table 7.2: Threaded connections · Standard version (S) and micro-flow valve version (M) · Dimensions marked by an asterisk (*) are not standardized

Valve	DN (OD) ¹⁾	8 (13.5)	10 (17.2)	15 (21.3)	20 (26.9)	25 (33.7)	32 (42.4)	40 (48.3)	50 (60.3)
	NPS	–	¾	½	¾	1	1¼	1½	2
Threaded connections according to DIN 11864-1 GS Form A, Series A	L2 (S)	–	–	70*	70*	70*	100*	100*	100*
	L2 (M)		50	50	50	50	–	–	–
	Ød _i		10	16	20	26	32	38	50
	Ød _e		Rd 28 x 1/8"	Rd 34 x 1/8"	Rd 44 x 1/8"	Rd 52 x 1/8"	Rd 58 x 1/8"	Rd 65 x 1/8"	Rd 78 x 1/8"
Threaded connections according to DIN 11864-1 GS Form A, Series B	L2 (S)	–	–	70*	70*	70*	100*	100*	100*
	L2 (M)			50	50	50	–	–	–
	Ød _i			18.1	23.7	29.7	38.4	44.3	56.3
	Ød _e			Rd 44 x 1/8"	Rd 52 x 1/8"	Rd 58 x 1/8"	Rd 65 x 1/8"	Rd 78 x 1/8"	Rd 95 x 1/8"
Threaded connections according to DIN 11864-1 GS Form A, Series C	L2 (S)	–	–	–	–	70*	–	100*	100*
	L2 (M)					50		–	–
	Ød _i					22.1		34.8	47.5
	Ød _e					Rd 52 x 1/8"		Rd 65 x 1/8"	Rd 78 x 1/8"

¹⁾ Values in parentheses according to DIN 11866 Series B

Table 7.3: Clamp connections · Standard version (S) and micro-flow valve version (M) · Dimensions marked by an asterisk (*) are not standardized

Valve	DN (OD) ¹⁾	8 (13.5)	10 (17.2)	15 (21.3)	20 (26.9)	25 (33.7)	32 (42.4)	40 (48.3)	50 (60.3)	
	NPS	–	¾	½	¾	1	1¼	1½	2	
Clamp connections according to DIN 11864-3 NKS Form A, Series A	L3 (S)	–	–	60.3*	60.3*	60.3*	88.9*	88.9*	88.9*	
	L3 (M)		50	50	50	50	–	–	–	
	Ød _i		10	16	20	26	32	38	50	
	Ød _e		34	34	50.5	50.5	50.5	64	77.5	
Clamp connections according to DIN 11864-3 NKS Form A, Series B	L3 (S)	–	–	60.3*	60.3*	60.3*	88.9*	88.9*	88.9*	
	L3 (M)			50	50	50	–	–	–	
	Ød _i			14	18.1	23.7	29.7	38.4	44.3	56.3
	Ød _e			34	34	50.5	50.5	64	64	91
Clamp connections according to DIN 11864-3 NKS Form A, Series C	L3 (S)	–	–	60.3*	60.3*	60.3*	–	88.9*	88.9*	
	L3 (M)			50	50	50		–	–	
	Ød _i			9.4	15.75	22.1		34.8	47.5	
	Ød _e			34	34	50.5		64	77.5	

¹⁾ Values in parentheses according to DIN 11866 Series B

Table 7.4: Flanges · Standard version (S) and micro-flow valve version (M)

Valve	DN (OD) ¹⁾	8 (13.5)	10 (17.2)	15 (21.3)	20 (26.9)	25 (33.7)	32 (42.4)	40 (48.3)	50 (60.3)	
	NPS	–	¾	½	¾	1	1¼	1½	2	
Flanges according to DIN 11864-2 NF Form A, Series A	L4 (S)	–	–	90	95	100	105	115	125	
	L4 (M)			90	90	95	100	–	–	–
	Ød _i			10	16	20	26	32	38	50
	Ød _e			54	59	64	70	76	82	94
Flanges according to DIN 11864-2 NF Form A, Series B	L4 (S)	–	–	90	95	100	105	115	125	
	L4 (M)			90	95	100	–	–	–	
	Ød _i			18.1	23.7	29.7	38.4	44.3	56.3	
	Ød _e			62	69	74	82	88	103	
Flanges according to DIN 11864-2 NF Form A, Series C	L4 (S)	–	–	–	–	100	–	115	125	
	L4 (M)					100		–	–	
	Ød _i					22.1		34.8	47.5	
	Ød _e					66		79	92	

¹⁾ Values in parentheses according to DIN 11866 Series B

Ordering text

Control valve for aseptic service	Type 3349 with USP-VI diaphragm
Body version	Standard or special version with or without backup packing
Valve size	DN/NPS ... Micro-flow valve DN/NPS ...
K_{VS}/C_v coefficient	...
Plug seal	Metal or soft seal
End connections	Welding ends, threaded connections, clamp connections or flanges
Characteristic	Equal percentage or linear
Actuator	Type 3379
Actuator area	31 or 63 cm ²
Travel	7.5 or 15 mm
Fail-safe position	Fail-close or fail-open
Bench range	... to ... bar or ... to ... psi

Specifications subject to change without notice



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