

ASCO™ Pneumatic Angle Seat Valves

2-way, Pressure Operated, Stainless Steel Body, Plastic or Stainless Steel Actuator
17.2 to 76.1 O.D. Stub, Butt Welding Body

2/2
Series
290

Features and Benefits

- Special design of the valve prevents external build up and is easy to clean
- All wetted parts are available for contact with food in compliance with the EC Directive 1935/2004 and FDA CFR21
- Exhaust air can be easily ducted to reduce emissions and protect the environment
- Specifications are laser marked on the valve to prevent loss during high pressure washing
- Ample fluid passage for optimal flow
- Adjustable actuator enables 360° access to pilot port
- Modular design provides exceptional flexibility
- Anti-water hammer design and back pressure resistant
- Extensive range of actuators, options, certifications and accessories

General

Differential pressure	See Specifications section [1 bar = 100 kPa]
Vacuum	10 ⁻² mbar (10 ⁻² Torr/mm Hg)
Maximum allowable pressure	16 bar (240 psi)
Ambient temperature range	
Plastic actuator	-10°C to +60°C (14°F to 140°F)
Stainless steel actuator	-20°C to +70°C (-4°F to 158°F)
Maximum viscosity	800 cSt (mm ² /s) (2.700 SSU)
Pilot fluid	Filtered air or water
Maximum pilot pressure	10 bar (150 psi) / bistable function: 8 bar (120 psi)
Minimum pilot pressure	See Specifications section
Response time	See dedicated pilot catalog pages

Fluids (*)	Temperature range (TS) ⁽¹⁾	Disc seal (*)
Up to DN 50: air and gas groups 1 and 2	Plastic actuator: -10°C to +184°C (14°F to 360°F)	PTFE
All DN: liquids and steam groups 1 and 2	Stainless steel actuator: -20°C to 140°C (-4°F to 184°F)	
	WSF option: -10°C to +184°C (14°F to 360°F)	

Materials of components in contact with fluid

(*) Ensure that compatibility of materials in contact with fluids is verified.

	Plastic and stainless steel actuators	All 316L grade version with body passivation
Body	Stainless steel AISI 316L	Stainless steel AISI 316L
Stuffing box housing	Stainless steel AISI 316L	Stainless steel AISI 316L
Stem	Stainless steel AISI 431	Stainless steel AISI 316L
Disc	Stainless steel AISI 316L	Stainless steel AISI 316L
Disc seal	PTFE	PTFE
Wiper seal	FPM	FPM
Stuffing box packing	PTFE	PTFE
Valve body seal	PTFE	PTFE
Butt welding connection	AISI 316L (NET-INOX treatment / for all 316L grade version) ISO 1127 (page 2) DIN EN 10357-A (DIN 11850-S2) (page 6) SMS 3008 (page 8) ASME BPE (page 11) Brass or stainless steel AISI 316L	
Pilot port insert	Brass or stainless steel AISI 316L	

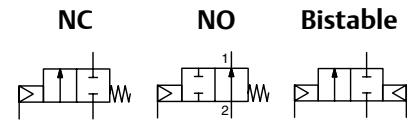
Other components

Actuator	Glass fiber filled PA or stainless steel AISI 316L
Optical position indicator	PA 12

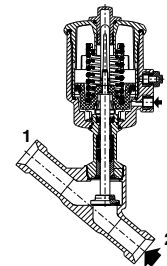
Certifications and Approvals

- Pressure Equipment Directive 2014/68/EU, Category 1 (DN > 25) or article 4.3 (DN ≤ 25)
- Functional Safety of Machinery: EN ISO 13849-1
- Reach compliant
- IEC 61508 Standard (2010 route 2_H version) certified with integrity levels: SIL 2 for HFT = 0
- The valves satisfy all relevant EU and EAC directives
- RoHS compatible

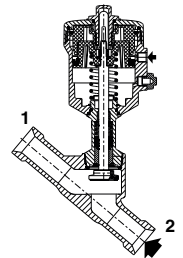
⁽¹⁾ The minimum ambient temperature of the valve is determined by the limitations of minimum temperature indicated.



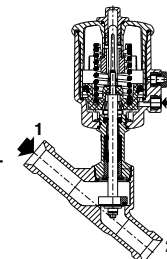
NC function, entry under the disc, 63 mm plastic actuator



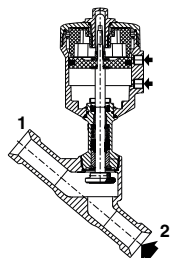
NO function, entry under the disc, 63 mm stainless steel actuator



NC function, entry above the disc, 63 mm plastic actuator



Bistable function, 63 mm stainless steel actuator



Options ⁽¹⁾

- Food contact certified: Wetted parts EC 1935/2004 and FDA CFR21
- Oxygen service pressure limited to 15 bar (220 psi), ambient and media temperatures limited to +60°C (140°F)
- Explosive atmospheres, ATEX and IECEx compliant
- Medium vacuum service up to 10⁻³ mb (10⁻³ Torr)
- Visual position indicator for 32 mm and 50 mm plastic actuators (standard position indicators for other plastic actuator sizes and stainless steel actuators)
- Pilots (see dedicated catalog pages)
- Large range of switch boxes and digital positioners (see dedicated catalog pages)
- Valve body material composition certificate 3.1

⁽¹⁾ See Choice of options and accessories (page 19)

Specifications (Butt welding ISO 1127)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter	Dimensions / Type ⁽²⁾	Pilot connection	Catalog number		
			Kv (Cv)	m ³ /h (gal/min)	l/min	bar (psi)		Air, inert gas (*)	Water, oil, liquids (*)				Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)	Butt welding ISO 1127	
						Min.	Max.							Plastic actuator	Stainless steel actuator
NC - Normally closed, entry under the disc															
17.2	14	10	2.5 (2.9)	41	4.7 (75)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	G*	W290D011WSA0000	W290D01PWSA0000	
												NPT	W290D012WSA0000	W290D01QWSA0000	
21.3	18.1	15	4.7 (5.4)	78	4.7 (75)	10 (150)	10 (150)	10 (150)	10 (150)	32	01	G*	W290D021WSA0000	W290D02PWSA0000	
												NPT	W290D022WSA0000	W290D02QWSA0000	
		90	5.4 (6.2)	90	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D023WSA0000	W290D02RWSA0000	
												NPT ⁽³⁾	W290D024WSA0000	W290D02SWSA0000	
												G*	W290D025WSA0000	W290D02TWSA0000	
												NPT ⁽³⁾	W290D026WSA0000	W290D02UWSA0000	
26.9	23.7	20	7.5 (8.7)	125	4.7 (75)	10 (150)	6 (90)	6 (90)	6 (90)	32	01	G*	W290D031WSA0000	W290D03PWSA0000	
												NPT ⁽³⁾	W290D032WSA0000	W290D03QWSA0000	
		113	4.5 (70)	10 (150)	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	50	02	G*	W290D033WSA0000	W290D03RWSA0000	
													NPT ⁽³⁾	W290D034WSA0000	W290D03SWSA0000
			2.8 (45)	10 (150)	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	G*	W290D035WSA0000	W290D03TWSA0000	
													NPT ⁽³⁾	W290D036WSA0000	W290D03UWSA0000
											G*	W290D735WSA0000	W290D73TWSA0000		
												NPT ⁽³⁾	W290D736WSA0000	W290D73UWSA0000	
33.7	29.7	25	12.9 (15)	215	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	50	02	G*	W290D043WSA0000	W290D04RWSA0000	
												NPT ⁽³⁾	W290D044WSA0000	W290D04SWSA0000	
		14.9 (17.3)	248	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	63	03	G*	W290D045WSA0000	W290D04TWSA0000		
												NPT ⁽³⁾	W290D046WSA0000	W290D04UWSA0000	
		15.4 (17.8)	256	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	90	04	G*	W290D048WSA0000	W290D04XWSA0000		
												NPT ⁽³⁾	W290D04CWSA0000	W290D04YWSA0000	
14.9 (17.3)	248	2.8 (45)	10 (150)	6 (90)	6 (90)	6 (90)	63	03	G*	W290D745WSA0000	W290D74TWSA0000				
										NPT ⁽³⁾	W290D746WSA0000	W290D74UWSA0000			
												G*	W290D748WSA0000	W290D74XWSA0000	
												NPT ⁽³⁾	W290D74CWSA0000	W290D74YWSA0000	

(*) Ensure that compatibility of materials in contact with fluids is verified.

⁽¹⁾ Only with stainless steel actuator.

⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).

⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

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Specifications (Butt welding ISO 1127)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter	Dimensions / Type ⁽²⁾	Pilot connection	Catalog number				
							bar (psi)						Butt welding ISO 1127				
			m³/h (gal/min)	(l/min)	Min.	Max.	Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)				(mm)	Plastic actuator	Stainless steel actuator		
42.4	38.4	32	27.3 (31.6)	455	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	63	03	G*	W290D055WSA0000	W290D05TWSA0000			
												NPT ⁽³⁾	W290D056WSA0000	W290D05UWSA0000			
			28.5 (33)	475	4.5 (70)	10 (150)	12 (180)	12 (180)	10 (150)	90	04	G*	W290D05BWSA0000	W290D05XWSA0000			
												NPT ⁽³⁾	W290D05CWSA0000	W290D05YWSA0000			
			27.3 (31.6)	455	2.8 (45)	10 (150)	3 (45)	3 (45)	3 (45)	63	03	G*	W290D755WSA0000	W290D75TWSA0000			
											NPT ⁽³⁾	W290D756WSA0000	W290D75UWSA0000				
		28.5 (33)	475	2.8 (45)	10 (150)	7 (105)	7 (105)	7 (105)	90	04	G*	W290D75BWSA0000	W290D75XWSA0000				
											NPT ⁽³⁾	W290D75CWSA0000	W290D75YWSA0000				
		32.3 (37.5)	538	4 (60)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G*	W290D05HWSA0000	-				
											NPT ⁽³⁾	W290D05JWSA0000	-				
48.3	44.3	40	33.7 (39)	561	4.5 (70)	10 (150)	4 (60)	4 (60)	4 (60)	63	03	G*	W290D065WSA0000	W290D06TWSA0000			
												NPT ⁽³⁾	W290D066WSA0000	W290D06UWSA0000			
			35.4 (41)	590	4.5 (70)	10 (150)	8 (120)	8 (120)	8 (120)	90	04	G*	W290D06BWSA0000	W290D06XWSA0000			
												NPT ⁽³⁾	W290D06CWSA0000	W290D06YWSA0000			
			40.2 (46.6)	670	4 (60)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G*	W290D06HWSA0000	-			
											NPT ⁽³⁾	W290D06JWSA0000	-				
		35.4 (41)	590	2.8 (45)	10 (150)	4 (58)	4 (58)	4 (58)	90	04	G*	W290D76BWSA0000	W290D76XWSA0000				
											NPT ⁽³⁾	W290D76CWSA0000	W290D76YWSA0000				
		40.2 (46.6)	670	2.5 (40)	10 (150)	10 (150)	10 (150)	10 (150)	125	05	G*	W290D76HWSA0000	-				
											NPT ⁽³⁾	W290D76JWSA0000	-				
60.3	56.3	50	51 (59.1)	850	4.5 (70)	10 (150)	2.5 (40)	2.5 (40)	2.5 (40)	63	03	G*	W290D075WSA0000	W290D07TWSA0000			
												NPT ⁽³⁾	W290D076WSA0000	W290D07UWSA0000			
			55.1 (63.8)	918	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	90	04	G*	W290D07BWSA0000	W290D07XWSA0000			
												NPT ⁽³⁾	W290D07CWSA0000	W290D07YWSA0000			
			70.4 (81.6)	1173	4 (60)	10 (150)	10 (150)	10 (150)	10 (150)	125	05	G*	W290D07HWSA0000	-			
												NPT ⁽³⁾	W290D07JWSA0000	-			
						2.5 (40)	10 (150)	5 (75)	5 (75)	5 (75)	125	05	G*	W290D77HWSA0000	-		
											NPT ⁽³⁾	W290D77JWSA0000	-				
		90.4 (104.8)	1506	4.5 (70)	10 (150)	2 (30)		2 (30)	2 (30)	90	04	G*	W290D08BWSA0000	W290D08XWSA0000			
											NPT ⁽³⁾	W290D08CWSA0000	W290D08YWSA0000				
109.1 (126.5)	1818	4 (60)	10 (150)	6 (90)	6 (90)	6 (90)	125	05	G*	W290D08HWSA0000	-						
									NPT ⁽³⁾	W290D08JWSA0000	-						
NO - Normally open, entry under the disc																	
17.2	14	10	2.5 (2.9)	41	IX (*)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	G*	W290D111WSA0000	W290D11PWSA0000			
														NPT	W290D112WSA0000	W290D11QWSA0000	
21.3	18.1	15	4.7 (5.4)	78	IX (*)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	G*	W290D121WSA0000	W290D12PWSA0000			
														NPT	W290D122WSA0000	W290D12QWSA0000	
			5.4 (6.2)	90		I (*)	10 (150)	16 (240)	16 (240)			10 (150)	50	02	G*	W290D123WSA0000	W290D12RWSA0000
												NPT ⁽³⁾	W290D124WSA0000	W290D12SWSA0000			
							II (*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	G*	W290D125WSA0000	W290D12TWSA0000	
											NPT ⁽³⁾	W290D126WSA0000	W290D12UWSA0000				

(*) Ensure that compatibility of materials in contact with fluids is verified.
 (*) Minimum pilot pressure varies with differential pressure, see page 18
⁽¹⁾ Only with stainless steel actuator.
⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).
⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

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Specifications (Butt welding ISO 1127)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter / Dimensions / Type ⁽²⁾	Pilot connection	Catalog number		
			Kv (Cv)	m ³ /h (gal/min) (l/min)	bar (psi)		Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)			Butt welding ISO 1127		
					Min.	Max.						Plastic actuator	Stainless steel actuator	
26.9	23.7	20	7.5 (8.7)	125	IX(*)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	G*	W290D131WSA0000	W290D13PWSA0000
			NPT	W290D132WSA0000		W290D13QWSA0000								
			6.8 (7.9)	113	I(*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D133WSA0000	W290D13RWSA0000
						NPT ⁽³⁾	W290D134WSA0000	W290D13SWSA0000						
					II(*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	G*	W290D135WSA0000	W290D13TWSA0000
						NPT ⁽³⁾	W290D136WSA0000	W290D13UWSA0000						
33.7	29.7	25	12.9 (15)	215	I(*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D143WSA0000	W290D14RWSA0000
			NPT ⁽³⁾	W290D144WSA0000			W290D14SWSA0000							
			14.9 (17.3)	248	II(*)		16 (240)	16 (240)	10 (150)	63	03	G*	W290D145WSA0000	W290D14TWSA0000
							NPT ⁽³⁾	W290D146WSA0000	W290D14UWSA0000					
			15.4 (17.8)	256	III(*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D148WSA0000	W290D14XWSA0000
							NPT ⁽³⁾	W290D14CWSA0000	W290D14YWSA0000					
42.4	38.4	32	27.3 (31.6)	455	II(*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	G*	W290D155WSA0000	W290D15TWSA0000
			NPT ⁽³⁾	W290D156WSA0000			W290D15UWSA0000							
			28.5 (33)	475	III(*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D158WSA0000	W290D15XWSA0000
							NPT ⁽³⁾	W290D15CWSA0000	W290D15YWSA0000					
			32.3 (37.4)	538	IV(*)		16 (240)	16 (240)	10 (150)	125	05	G*	W290D15HWSA0000	-
							NPT ⁽³⁾	W290D15JWSA0000	-					
48.3	44.3	40	33.7 (39)	561	II(*)	10 (150)	11 (160)	11 (160)	10 (150)	63	03	G*	W290D165WSA0000	W290D16TWSA0000
			NPT ⁽³⁾	W290D166WSA0000			W290D16UWSA0000							
			35.4 (41)	590	III(*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D168WSA0000	W290D16XWSA0000
							NPT ⁽³⁾	W290D16CWSA0000	W290D16YWSA0000					
			40.2 (46.6)	670	IV(*)		16 (240)	16 (240)	10 (150)	125	05	G*	W290D16HWSA0000	-
							NPT ⁽³⁾	W290D16JWSA0000	-					
60.3	56.3	50	51 (59.1)	850	II(*)	10 (150)	7 (105)	7 (105)	7 (105)	63	03	G*	W290D175WSA0000	W290D17TWSA0000
			NPT ⁽³⁾	W290D176WSA0000			W290D17UWSA0000							
			55.1 (63.8)	918	III(*)		13 (200)	13 (200)	10 (150)	90	04	G*	W290D178WSA0000	W290D17XWSA0000
							NPT ⁽³⁾	W290D17CWSA0000	W290D17YWSA0000					
			70.4 (81.6)	1173	IV(*)		16 (240)	16 (240)	10 (150)	125	05	G*	W290D17HWSA0000	-
							NPT ⁽³⁾	W290D17JWSA0000	-					
76.1	72.1	65	90.4 (104.8)	1506	III(*)	10 (150)	7 (105)	7 (105)	7 (105)	90	04	G*	W290D188WSA0000	W290D18XWSA0000
			NPT ⁽³⁾	W290D18CWSA0000			W290D18YWSA0000							
			109.1 (126.5)	1818	IV(*)		16 (240)	16 (240)	10 (150)	125	05	G*	W290D18HWSA0000	-
NPT ⁽³⁾	W290D18JWSA0000	-												
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)														
17.2	14	10	2.7 (3.1)	45	X(*)	10 (150)	10 (150)	-	10 (150)	32	01	G*	W290D311WSA0000	W290D31PWSA0000
			NPT	W290D312WSA0000		W290D31QWSA0000								
21.3	18.1	15	5 (5.8)	83	X(*)	10 (150)	10 (150)	-	10 (150)	32	01	G*	W290D321WSA0000	W290D32PWSA0000
						NPT	W290D322WSA0000	W290D32QWSA0000						
			4.8 (5.5)	80	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D323WSA0000	W290D32RWSA0000
						NPT ⁽³⁾	W290D324WSA0000	W290D32SWSA0000						
			VI(*)	10 (150)	-	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D325WSA0000	W290D32TWSA0000
						NPT ⁽³⁾	W290D326WSA0000	W290D32UWSA0000						

(*) Ensure that compatibility of materials in contact with fluids is verified.
 (*) Minimum pilot pressure varies with differential pressure, see page 18
⁽¹⁾ Only with stainless steel actuator.
⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).
⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding ISO 1127)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter	Dimensions / Type ⁽²⁾	Pilot connection	Catalog number	
							bar (psi)						Butt welding ISO 1127	
			Kv (Cv)	(l/min)	Min.	Max.	Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)				(mm)	Plastic actuator
26.9	23.7	20	7.8 (9)	130	X (*)	10 (150)	10 (150)	-	10 (150)	32	01	G*	W290D331WSA0000	W290D33PWSA0000
			7.2 (8.3)	120	V (*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D333WSA0000	W290D33RWSA0000
					VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	NPT ⁽³⁾	W290D334WSA0000	W290D33SWSA0000
			13.2 (15.3)	220	V (*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D335WSA0000	W290D33TWSA0000
					VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	NPT ⁽³⁾	W290D336WSA0000	W290D33UWSA0000
			15.9 (18.4)	265	V (*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D343WSA0000	W290D34RWSA0000
VI (*)	10 (150)	10 (150)			-	10 (150)	63	03	NPT ⁽³⁾	W290D344WSA0000	W290D34SWSA0000			
42.4	38.4	32	28.3 (32.8)	471	VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D345WSA0000	W290D34TWSA0000
			25.4 (29.4)	423	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D355WSA0000	W290D35TWSA0000
					NPT ⁽³⁾	W290D356WSA0000	W290D35UWSA0000							
			37.9 (44)	631	VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D358WSA0000	W290D35XWSA0000
					VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	NPT ⁽³⁾	W290D359WSA0000	W290D35YWSA0000
			31.9 (37)	531	VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D365WSA0000	W290D36TWSA0000
VII (*)	10 (150)	10 (150)			-	10 (150)	90	04	NPT ⁽³⁾	W290D366WSA0000	W290D36UWSA0000			
60.3	56.3	50	56 (65)	933	VI (*)	10 (150)	9 (135)	-	9 (135)	63	03	G*	W290D367WSA0000	W290D36XWSA0000
			49 (56.8)	816	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D368WSA0000	W290D36YWSA0000
					NPT ⁽³⁾	W290D369WSA0000	W290D37UWSA0000							
			67.8 (78.6)	1130	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D370WSA0000	W290D37TWSA0000
					NPT ⁽³⁾	W290D371WSA0000	W290D37UWSA0000							
			76.1	72.1	65	67.8 (78.6)	1130	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04
NPT ⁽³⁾	W290D373WSA0000	W290D37UWSA0000												
Bistable function (version recommended for high fast cycling)														
17.2	14	10	2.5 (2.9)	41	XII (*)	8 (120)	10 (150)	10 (150)	-	32	01	G*	W290D411WSA0000	W290D41PWSA0000
					NPT ⁽³⁾	W290D412WSA0000	W290D41QWSA0000							
21.3	18.1	15	4.7 (5.4)	78	XII (*)	8 (120)	10 (150)	10 (150)	-	32	01	G*	W290D421WSA0000	W290D42PWSA0000
					NPT ⁽³⁾	W290D422WSA0000	W290D42QWSA0000							
			5.4 (6.2)	90	X (*)	8 (120)	10 (150)	10 (150)	-	50	02	G*	W290D423WSA0000	W290D42RWSA0000
					NPT ⁽³⁾	W290D424WSA0000	W290D42SWSA0000							
			7.5 (8.7)	125	XII (*)	8 (120)	10 (150)	10 (150)	-	32	01	G*	W290D425WSA0000	W290D42TWSA0000
					NPT ⁽³⁾	W290D426WSA0000	W290D42UWSA0000							
26.9	23.7	20	6.8 (7.9)	113	X (*)	8 (120)	10 (150)	10 (150)	-	50	02	G*	W290D431WSA0000	W290D43PWSA0000
					NPT ⁽³⁾	W290D432WSA0000	W290D43QWSA0000							
			12.9 (15)	215	X (*)	8 (120)	10 (150)	10 (150)	-	50	02	G*	W290D433WSA0000	W290D43RWSA0000
					NPT ⁽³⁾	W290D434WSA0000	W290D43SWSA0000							
			14.9 (17.3)	248	XI (*)	8 (120)	10 (150)	10 (150)	-	63	03	G*	W290D435WSA0000	W290D43TWSA0000
					NPT ⁽³⁾	W290D436WSA0000	W290D43UWSA0000							
33.7	29.7	25	12.9 (15)	215	X (*)	8 (120)	10 (150)	10 (150)	-	50	02	G*	W290D443WSA0000	W290D44RWSA0000
					NPT ⁽³⁾	W290D444WSA0000	W290D44SWSA0000							
33.7	29.7	25	14.9 (17.3)	248	XI (*)	8 (120)	10 (150)	10 (150)	-	63	03	G*	W290D445WSA0000	W290D44TWSA0000
					NPT ⁽³⁾	W290D446WSA0000	W290D44UWSA0000							

(*) Ensure that compatibility of materials in contact with fluids is verified.
 (*) Minimum pilot pressure varies with differential pressure, see page 18
⁽¹⁾ Only with stainless steel actuator.
⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).
⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding SMS 3008)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter / Dimensions / Type ⁽¹⁾	Pilot connection	Catalog number	
			Kv (Cv)	m ³ /h (gal/min) / (l/min)	bar (psi)		Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)			Butt welding SMS 3008	
					Min.	Max.						Plastic actuator	Stainless steel actuator
NC - Normally closed, entry under the disc													
25	22.6	25	12.9 (15)	215	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	50	02	G* W290D0432SA0000	W290D04R2SA0000
												NPT ⁽³⁾ W290D0442SA0000	W290D04S2SA0000
			14.9 (17.3)	248	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	63	03	G* W290D0452SA0000	W290D04T2SA0000
												NPT ⁽³⁾ W290D0462SA0000	W290D04U2SA0000
			15.4 (17.8)	256	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	90	04	G* W290D04B2SA0000	W290D04X2SA0000
												NPT ⁽³⁾ W290D04C2SA0000	W290D04Y2SA0000
			14.9 (17.3)	248	2.8 (45)	10 (150)	6 (90)	6 (90)	6 (90)	63	03	G* W290D7452SA0000	W290D74T2SA0000
												NPT ⁽³⁾ W290D7462SA0000	W290D74U2SA0000
			15.4 (17.8)	256	2.8 (45)	10 (150)	12 (180)	12 (180)	10 (150)	90	04	G* W290D74B2SA0000	W290D74X2SA0000
												NPT ⁽³⁾ W290D74C2SA0000	W290D74Y2SA0000
33.7	31.3	32	27.3 (31.6)	455	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	63	03	G* W290D0552SA0000	W290D05T2SA0000
											NPT ⁽³⁾ W290D0562SA0000	W290D05U2SA0000	
			28.5 (33)	475	4.5 (70)	10 (150)	12 (180)	12 (180)	10 (150)	90	04	G* W290D05B2SA0000	W290D05X2SA0000
												NPT ⁽³⁾ W290D05C2SA0000	W290D05Y2SA0000
			27.3 (31.6)	455	2.8 (45)	10 (150)	3 (45)	3 (45)	3 (45)	63	03	G* W290D7552SA0000	W290D75T2SA0000
												NPT ⁽³⁾ W290D7562SA0000	W290D75U2SA0000
			28.5 (33)	475	2.8 (45)	10 (150)	7 (105)	7 (105)	7 (105)	90	04	G* W290D75B2SA0000	W290D75X2SA0000
												NPT ⁽³⁾ W290D75C2SA0000	W290D75Y2SA0000
			32.3 (37.5)	538	4 (60)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G* W290D05H2SA0000	-
												NPT ⁽³⁾ W290D05J2SA0000	-
38	35.6	40	33.7 (39)	561	4.5 (70)	10 (150)	4 (60)	4 (60)	4 (60)	63	03	G* W290D0652SA0000	W290D06T2SA0000
											NPT ⁽³⁾ W290D0662SA0000	W290D06U2SA0000	
			35.4 (41)	590	4.5 (70)	10 (150)	8 (120)	8 (120)	8 (120)	90	04	G* W290D06B2SA0000	W290D06X2SA0000
												NPT ⁽³⁾ W290D06C2SA0000	W290D06Y2SA0000
			40.2 (46.6)	670	4 (60)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G* W290D06H2SA0000	-
												NPT ⁽³⁾ W290D06J2SA0000	-
			35.4 (41)	590	2.8 (45)	10 (150)	4 (58)	4 (58)	4 (58)	90	04	G* W290D76B2SA0000	W290D76X2SA0000
												NPT ⁽³⁾ W290D76C2SA0000	W290D76Y2SA0000
			40.2 (46.6)	670	2.5 (40)	10 (150)	10 (150)	10 (150)	10 (150)	125	05	G* W290D76H2SA0000	-
												NPT ⁽³⁾ W290D76J2SA0000	-
51	48.6	50	51 (59.1)	850	4.5 (70)	10 (150)	2.5 (40)	2.5 (40)	2.5 (40)	63	03	G* W290D0752SA0000	W290D07T2SA0000
											NPT ⁽³⁾ W290D0762SA0000	W290D07U2SA0000	
			55.1 (63.8)	918	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	90	04	G* W290D07B2SA0000	W290D07X2SA0000
												NPT ⁽³⁾ W290D07C2SA0000	W290D07Y2SA0000
			70.4 (81.6)	1173	4 (60)	10 (150)	10 (150)	10 (150)	10 (150)	125	05	G* W290D07H2SA0000	-
													NPT ⁽³⁾ W290D07J2SA0000
					2.5 (40)	10 (150)	5 (75)	5 (75)	5 (75)	125	05	G* W290D77H2SA0000	-
									NPT ⁽³⁾ W290D77J2SA0000	-			

(*) Ensure that compatibility of materials in contact with fluids is verified.
⁽¹⁾ Only with stainless steel actuator.
⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).
⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding SMS 3008)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter (mm)	Dimensions / Type ⁽¹⁾	Piloting connection	Catalog number	
			Kv (Cv)	m ³ /h (gal/min)	Min.	Max.	bar (psi)						Butt welding SMS 3008	
							Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)				Plastic actuator	Stainless steel actuator
NO - Normally open, entry under the disc														
25	22.6	25	12.9 (15)	215	I (*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D1432SA0000	W290D14R2SA0000
			14.9 (17.3)	248	II (*)		16 (240)	16 (240)	10 (150)	63	03	G*	W290D1442SA0000	W290D14S2SA0000
												NPT ⁽³⁾	W290D1462SA0000	W290D14U2SA0000
			15.4 (17.8)	256	III (*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D14B2SA0000	W290D14X2SA0000
												NPT ⁽³⁾	W290D14C2SA0000	W290D14Y2SA0000
			33.7	31.3	32		27.3 (31.6)	455	II (*)	10 (150)	16 (240)	16 (240)	10 (150)	63
28.5 (33)	475	III (*)				16 (240)	16 (240)	10 (150)	90		04	G*	W290D15B2SA0000	W290D15X2SA0000
												NPT ⁽³⁾	W290D15C2SA0000	W290D15Y2SA0000
32.3 (37.4)	538	IV (*)				16 (240)	16 (240)	10 (150)	125		05	G*	W290D15H2SA0000	-
												NPT ⁽³⁾	W290D15J2SA0000	-
38	35.6	40				33.7 (39)	561	II (*)	10 (150)		11 (160)	11 (160)	10 (150)	63
			35.4 (41)	590	III (*)	16 (240)	16 (240)	10 (150)		90	04	G*	W290D16B2SA0000	W290D16X2SA0000
												NPT ⁽³⁾	W290D16C2SA0000	W290D16Y2SA0000
			40.2 (46.6)	670	IV (*)	16 (240)	16 (240)	10 (150)		125	05	G*	W290D16H2SA0000	-
												NPT ⁽³⁾	W290D16J2SA0000	-
			51	48.6	50	51 (59.1)	850	II (*)		10 (150)	7 (105)	7 (105)	7 (105)	63
55.1 (63.8)	918	III (*)				13 (200)	13 (200)	10 (150)	90		04	G*	W290D1762SA0000	W290D17U2SA0000
												NPT ⁽³⁾	W290D17B2SA0000	W290D17X2SA0000
70.4 (81.6)	1173	IV (*)				16 (240)	16 (240)	10 (150)	125		05	G*	W290D17H2SA0000	-
												NPT ⁽³⁾	W290D17J2SA0000	-
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)														
25	22.6	25	13.2 (15.3)	220	V (*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D3432SA0000	W290D34R2SA0000
			15.9 (18.4)	265	VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3442SA0000	W290D34S2SA0000
												NPT ⁽³⁾	W290D3462SA0000	W290D34U2SA0000
33.7	31.3	32	28.3 (32.8)	471	VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3552SA0000	W290D35T2SA0000
			25.4 (29.4)	423	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D35B2SA0000	W290D35X2SA0000
												NPT ⁽³⁾	W290D35C2SA0000	W290D35Y2SA0000
			37.9 (44)	631	VI (*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3652SA0000	W290D36T2SA0000
												NPT ⁽³⁾	W290D3662SA0000	W290D36U2SA0000
			31.9 (37)	531	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D36B2SA0000	W290D36X2SA0000
NPT ⁽³⁾	W290D36C2SA0000	W290D36Y2SA0000												
51	48.6	50	56 (65)	933	VI (*)	10 (150)	9 (135)	-	9 (135)	63	03	G*	W290D3752SA0000	W290D37T2SA0000
			49 (56.8)	816	VII (*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D3762SA0000	W290D37U2SA0000
												NPT ⁽³⁾	W290D37B2SA0000	W290D37X2SA0000
												NPT ⁽³⁾	W290D37C2SA0000	W290D37Y2SA0000

(*) Ensure that compatibility of materials in contact with fluids is verified.

(*) Minimum pilot pressure varies with differential pressure, see page 18

⁽¹⁾ Only with stainless steel actuator.

⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).

⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

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Specifications (Butt welding DIN 11850 s2)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter	Dimensions / Type (1)	Pilot connection	Catalog number						
							bar (psi)						Butt welding DIN EN 10357-A (DIN 11850-S2)						
			Kv (Cv)	m ³ /h (gal/min)	l/min	bar (psi)	Min.	Max.	Air, inert gas (*)				Water, oil, liquids (*)	Steam (1) ≤ 140°C (≤ 284°F) (*)	Plastic actuator	Stainless steel actuator			
NC - Normally closed, entry under the disc																			
19	16	15	5.4 (6.2)	90	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D0231SA0000	W290D02R1SA0000					
					2.8 (45)	10 (150)	16 (240)	16 (240)	10 (150)			NPT (3)	W290D0241SA0000	W290D02S1SA0000					
					63	03	G*	W290D0251SA0000	W290D02T1SA0000										
							NPT (3)	W290D0261SA0000	W290D02U1SA0000										
23	20	20	6.8 (7.9)	113	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	50	02	G*	W290D0331SA0000	W290D03R1SA0000					
					4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)			NPT (3)	W290D0341SA0000	W290D03S1SA0000					
					63	03	G*	W290D0351SA0000	W290D03T1SA0000										
							NPT (3)	W290D0361SA0000	W290D03U1SA0000										
					63	03	G*	W290D7351SA0000	W290D73T1SA0000										
							NPT (3)	W290D7361SA0000	W290D73U1SA0000										
					29	26	25	12.9 (15)	215	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	50	02	G*	W290D0431SA0000	W290D04R1SA0000
								14.9 (17.3)	248	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)			NPT (3)	W290D0441SA0000	W290D04S1SA0000
63	03	G*	W290D0451SA0000	W290D04T1SA0000															
		NPT (3)	W290D0461SA0000	W290D04U1SA0000															
90	04	G*	W290D04B1SA0000	W290D04X1SA0000															
		NPT (3)	W290D04C1SA0000	W290D04Y1SA0000															
63	03	G*	W290D7451SA0000	W290D74T1SA0000															
		NPT (3)	W290D7461SA0000	W290D74U1SA0000															
90	04	G*	W290D74B1SA0000	W290D74X1SA0000															
		NPT (3)	W290D74C1SA0000	W290D74Y1SA0000															
35	32	32	27.3 (31.6)	455	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	63	03	G*	W290D0551SA0000	W290D05T1SA0000					
			28.5 (33)	475	4.5 (70)	10 (150)	12 (180)	12 (180)	10 (150)			NPT (3)	W290D0561SA0000	W290D05U1SA0000					
			90	04	G*	W290D05B1SA0000	W290D05X1SA0000												
					NPT (3)	W290D05C1SA0000	W290D05Y1SA0000												
			63	03	G*	W290D7551SA0000	W290D75T1SA0000												
					NPT (3)	W290D7561SA0000	W290D75U1SA0000												
			90	04	G*	W290D75B1SA0000	W290D75X1SA0000												
					NPT (3)	W290D75C1SA0000	W290D75Y1SA0000												
			125	05	G*	W290D05H1SA0000	-												
					NPT (3)	W290D05J1SA0000	-												
41	38	40	33.7 (39)	561	4.5 (70)	10 (150)	4 (60)	4 (60)	4 (60)	63	03	G*	W290D0651SA0000	W290D06T1SA0000					
			35.4 (41)	590	4.5 (70)	10 (150)	8 (120)	8 (120)	8 (120)			NPT (3)	W290D0661SA0000	W290D06U1SA0000					
			90	04	G*	W290D06B1SA0000	W290D06X1SA0000												
					NPT (3)	W290D06C1SA0000	W290D06Y1SA0000												
			125	05	G*	W290D06H1SA0000	-												
					NPT (3)	W290D06J1SA0000	-												
			90	04	G*	W290D76B1SA0000	W290D76X1SA0000												
					NPT (3)	W290D76C1SA0000	W290D76Y1SA0000												
125	05	G*	W290D76H1SA0000	-															
		NPT (3)	W290D76J1SA0000	-															

(*) Ensure that compatibility of materials in contact with fluids is verified.
 (1) Only with stainless steel actuator.
 (2) For dimensions, see drawing(s) for each construction type on the following page(s).
 (3) Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding DIN 11850 s2)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter / Dimensions / Type ⁽¹⁾	Piloting connection	Catalog number		
			Kv (Cv)	m ³ /h (gal/min) (l/min)	bar (psi)		bar (psi)					Butt welding DIN EN 10357-A (DIN 11850-S2) Stainless steel body		
					Min.	Max.	Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)			Plastic actuator	Stainless steel actuator	
53	50	50	51 (59.1)	850	4.5 (70)	10 (150)	2.5 (40)	2.5 (40)	2.5 (40)	63	03	G*	W290D0751SA0000	W290D07T1SA0000
			NPT ⁽³⁾		W290D0761SA0000	W290D07U1SA0000								
			55.1 (63.8)	918	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	90	04	G*	W290D07B1SA0000	W290D07X1SA0000
			NPT ⁽³⁾		W290D07C1SA0000	W290D07Y1SA0000								
			70.4 (81.6)	1173	4 (60)	10 (150)	10 (150)	10 (150)	10 (150)	125	05	G*	W290D07H1SA0000	-
					NPT ⁽³⁾		W290D07J1SA0000	-						
				2.5 (40)		5 (75)	5 (75)	5 (75)	125	05	G*	W290D77H1SA0000	-	
											NPT ⁽³⁾	W290D77J1SA0000	-	
NO - Normally open, entry under the disc														
19	16	15	5.4 (6.2)	90	I(*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D1231SA0000	W290D12R1SA0000
					NPT ⁽³⁾		W290D1241SA0000	W290D12S1SA0000						
					II(*)		16 (240)	16 (240)	10 (150)	63	03	G*	W290D1251SA0000	W290D12T1SA0000
									NPT ⁽³⁾			W290D1261SA0000	W290D12U1SA0000	
23	20	20	6.8 (7.9)	113	I(*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D1331SA0000	W290D13R1SA0000
					NPT ⁽³⁾		W290D1341SA0000	W290D13S1SA0000						
					II(*)		16 (240)	16 (240)	10 (150)	63	03	G*	W290D1351SA0000	W290D13T1SA0000
									NPT ⁽³⁾			W290D1361SA0000	W290D13U1SA0000	
29	26	25	12.9 (15)	215	I(*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G*	W290D1431SA0000	W290D14R1SA0000
			NPT ⁽³⁾		W290D1441SA0000		W290D14S1SA0000							
			14.9 (17.3)	248	II(*)		16 (240)	16 (240)	10 (150)	63	03	G*	W290D1451SA0000	W290D14T1SA0000
								NPT ⁽³⁾	W290D1461SA0000			W290D14U1SA0000		
			15.4 (17.8)	256	III(*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D14B1SA0000	W290D14X1SA0000
									NPT ⁽³⁾			W290D14C1SA0000	W290D14Y1SA0000	
35	32	32	27.3 (31.6)	455	II(*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	G*	W290D1551SA0000	W290D15T1SA0000
			NPT ⁽³⁾		W290D1561SA0000		W290D15U1SA0000							
			28.5 (33)	475	III(*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D15B1SA0000	W290D15X1SA0000
								NPT ⁽³⁾	W290D15C1SA0000			W290D15Y1SA0000		
			32.3 (37.4)	538	IV(*)		16 (240)	16 (240)	10 (150)	125	05	G*	W290D15H1SA0000	-
									NPT ⁽³⁾			W290D15J1SA0000	-	
41	38	40	33.7 (39)	561	II(*)	10 (150)	11 (160)	11 (160)	10 (150)	63	03	G*	W290D1651SA0000	W290D16T1SA0000
			NPT ⁽³⁾		W290D1661SA0000		W290D16U1SA0000							
			35.4 (41)	590	III(*)		16 (240)	16 (240)	10 (150)	90	04	G*	W290D16B1SA0000	W290D16X1SA0000
								NPT ⁽³⁾	W290D16C1SA0000			W290D16Y1SA0000		
			40.2 (46.6)	670	IV(*)		16 (240)	16 (240)	10 (150)	125	05	G*	W290D16H1SA0000	-
									NPT ⁽³⁾			W290D16J1SA0000	-	
53	50	50	51 (59.1)	850	II(*)	10 (150)	7 (105)	7 (105)	7 (105)	63	03	G*	W290D1751SA0000	W290D17T1SA0000
			NPT ⁽³⁾		W290D1761SA0000		W290D17U1SA0000							
			55.1 (63.8)	918	III(*)		13 (200)	13 (200)	10 (150)	90	04	G*	W290D17B1SA0000	W290D17X1SA0000
														NPT ⁽³⁾
70.4 (81.6)	1173	IV(*)	16 (240)	16 (240)	10 (150)	125	05	G*	W290D17H1SA0000	-				
										NPT ⁽³⁾	W290D17J1SA0000	-		

(*) Ensure that compatibility of materials in contact with fluids is verified.

(*) Minimum pilot pressure varies with differential pressure, see page 18

⁽¹⁾ Only with stainless steel actuator.

⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).

⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding DIN 11850 s2)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter	Dimensions / Type ⁽¹⁾	Piloting connection	Catalog number	
							bar (psi)						Plastic actuator	Stainless steel actuator
			Kv (Cv)	Min.	Max.	Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)	Butt welding DIN EN 10357-A (DIN 11850-S2)					
			m ³ /h (gal/min)	l/min					(mm)					
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)														
19	16	15	4.8 (5.5)	80	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D3231SA0000	W290D32R1SA0000
					NPT ⁽³⁾	W290D3241SA0000	W290D32S1SA0000							
					VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3251SA0000	W290D32T1SA0000
					NPT ⁽³⁾	W290D3261SA0000	W290D32U1SA0000							
23	20	20	7.2 (8.3)	120	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D3331SA0000	W290D33R1SA0000
					NPT ⁽³⁾	W290D3341SA0000	W290D33S1SA0000							
					VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3351SA0000	W290D33T1SA0000
					NPT ⁽³⁾	W290D3361SA0000	W290D33U1SA0000							
29	26	25	13.2 (15.3)	220	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G*	W290D3431SA0000	W290D34R1SA0000
			15.9 (18.4)	265	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3441SA0000	W290D34S1SA0000
												NPT ⁽³⁾	W290D3451SA0000	W290D34T1SA0000
35	32	32	28.3 (32.8)	471	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3551SA0000	W290D35T1SA0000
			NPT ⁽³⁾	W290D3561SA0000	W290D35U1SA0000									
			25.4 (29.4)	423	VII(*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D35B1SA0000	W290D35X1SA0000
			NPT ⁽³⁾	W290D35C1SA0000	W290D35Y1SA0000									
41	38	40	37.9 (44)	631	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G*	W290D3651SA0000	W290D36T1SA0000
			NPT ⁽³⁾	W290D3661SA0000	W290D36U1SA0000									
			31.9 (37)	531	VII(*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D36B1SA0000	W290D36X1SA0000
			NPT ⁽³⁾	W290D36C1SA0000	W290D36Y1SA0000									
53	50	50	56 (65)	933	VI(*)	10 (150)	9 (135)	-	9 (135)	63	03	G*	W290D3751SA0000	W290D37T1SA0000
			NPT ⁽³⁾	W290D3761SA0000	W290D37U1SA0000									
			49 (56.8)	816	VII(*)	10 (150)	10 (150)	-	10 (150)	90	04	G*	W290D37B1SA0000	W290D37X1SA0000
			NPT ⁽³⁾	W290D37C1SA0000	W290D37Y1SA0000									

(*) Ensure that compatibility of materials in contact with fluids is verified.
 (*) Minimum pilot pressure varies with differential pressure, see page 18
 (1) Only with stainless steel actuator.
 (2) For dimensions, see drawing(s) for each construction type on the following page(s).
 (3) Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding ASME BPE)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter / dimensions (1)	Pilot connection	Catalog number			
			Kv (Cv)	m ³ /h (gal/min) (l/min)	bar (psi)		Air, inert gas (*)	Water, oil, liquids (*)	Steam (1) ≤ 140°C (≤ 284°F) (*)			Butt welding ASME BPE			
					Min.	Max.						Plastic actuator	Stainless steel actuator		
NC - Normally closed, entry under the disc															
9.53	7.75	10	1.9 (2.2)	31	4.7 (75)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	G* W290D0113SA0000	W290D01P3SA0000		
												NPT W290D0123SA0000	W290D01Q3SA0000		
12.7	9.4	15	2.5 (2.9)	41	4.7 (75)	10 (150)	10 (150)	10 (150)	10 (150)	32	01	G* W290D0213SA0000	W290D02P3SA0000		
													NPT W290D0223SA0000	W290D02Q3SA0000	
			2.6 (3)	43	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G* W290D0233SA0000	W290D02R3SA0000		
					2.8 (45)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	NPT (3) W290D0243SA0000	W290D02S3SA0000		
												G* W290D0253SA0000	W290D02T3SA0000		
												NPT (3) W290D0263SA0000	W290D02U3SA0000		
19.05	15.75	20	4.7 (5.4)	78	4.7 (75)	10 (150)	6 (90)	6 (90)	6 (90)	32	01	G* W290D0313SA0000	W290D03P3SA0000		
													NPT (3) W290D0323SA0000	W290D03Q3SA0000	
			6.8 (7.9)	113	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	50	02	G* W290D0333SA0000	W290D03R3SA0000		
														NPT (3) W290D0343SA0000	W290D03S3SA0000
					4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	G* W290D0353SA0000	W290D03T3SA0000		
					2.8 (45)	10 (150)	12 (180)	12 (180)	10 (150)	63	03	NPT (3) W290D0363SA0000	W290D03U3SA0000		
											G* W290D7353SA0000	W290D73T3SA0000			
											NPT (3) W290D7363SA0000	W290D73U3SA0000			
25.4	22.1	25	12.9 (15)	215	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	50	02	G* W290D0433SA0000	W290D04R3SA0000		
													NPT (3) W290D0443SA0000	W290D04S3SA0000	
			14.9 (17.2)	248	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	63	03	G* W290D0453SA0000	W290D04T3SA0000		
													NPT (3) W290D0463SA0000	W290D04U3SA0000	
			15.4 (17.8)	256	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	90	04	G* W290D0483SA0000	W290D04X3SA0000		
														NPT (3) W290D04C3SA0000	W290D04Y3SA0000
			14.9 (17.2)	248	2.8 (45)	10 (150)	6 (90)	6 (90)	6 (90)	63	03	G* W290D7453SA0000	W290D74T3SA0000		
														NPT (3) W290D7463SA0000	W290D74U3SA0000
												G* W290D7483SA0000	W290D74X3SA0000		
												NPT (3) W290D74C3SA0000	W290D74Y3SA0000		
38.1	34.8	40	33.7 (39)	561	4.5 (70)	10 (150)	4 (60)	4 (60)	4 (60)	63	03	G* W290D0653SA0000	W290D06T3SA0000		
													NPT (3) W290D0663SA0000	W290D06U3SA0000	
			35.4 (41)	590	4.5 (70)	10 (150)	8 (120)	8 (120)	8 (120)	90	04	G* W290D0683SA0000	W290D06X3SA0000		
														NPT (3) W290D06C3SA0000	W290D06Y3SA0000
			40.2 (46.6)	670	4 (60)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G* W290D06H3SA0000	-		
														NPT (3) W290D06J3SA0000	-
												G* W290D7683SA0000	W290D76X3SA0000		
												NPT (3) W290D76C3SA0000	W290D76Y3SA0000		
													G* W290D76H3SA0000	-	
													NPT (3) W290D76J3SA0000	-	
50.8	47.5	50	51 (59.1)	850	4.5 (70)	10 (150)	2.5 (40)	2.5 (40)	2.5 (40)	63	03	G* W290D0753SA0000	W290D07T3SA0000		
													NPT (3) W290D0763SA0000	W290D07U3SA0000	
			55.1 (63.8)	918	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	90	04	G* W290D0783SA0000	W290D07X3SA0000		
														NPT (3) W290D07C3SA0000	W290D07Y3SA0000
			70.4 (81.6)	1173	4 (60)	10 (150)	10 (150)	10 (150)	10 (150)	125	05	G* W290D07H3SA0000	-		
					2.5 (40)	10 (150)	5 (75)	5 (75)	5 (75)	125	05	NPT (3) W290D07J3SA0000	-		
												G* W290D77H3SA0000	-		
												NPT (3) W290D77J3SA0000	-		

(*) Ensure that compatibility of materials in contact with fluids is verified.

(1) Only with stainless steel actuator.

(2) For dimensions, see drawing(s) for each construction type on the following page(s).

(3) Plastic actuator: NPTF / Stainless steel actuator: NPT

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Specifications (Butt welding ASME BPE)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter / Dimensions / Type ⁽¹⁾	Pilot connection	Catalog number		
			Kv (Cv)	m ³ /h (gal/min) (l/min)	bar (psi)		Air, inert gas (*)	Water, oil, liquids (*)	Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)			Butt welding ASME BPE		
					Min.	Max.						Plastic actuator	Stainless steel actuator	
NO - Normally open, entry under the disc														
9.53	7.75	10	1.9 (2.2)	31	IX (*)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	G* W290D1113SA0000	W290D11P3SA0000	
			2.5 (2.9)	41	IX (*)	10 (150)	16 (240)	16 (240)	10 (150)	32	01	NPT W290D1123SA0000	W290D11Q3SA0000	
12.7	9.4	15	2.6 (3)	43	I (*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G* W290D1233SA0000	W290D12R3SA0000	
					II (*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	NPT ⁽³⁾ W290D1243SA0000	W290D12S3SA0000	
			2.6 (3)	43	I (*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G* W290D1253SA0000	W290D12T3SA0000	
					II (*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	NPT ⁽³⁾ W290D1263SA0000	W290D12U3SA0000	
19.05	15.75	20	4.7 (5.4)	78	IX (*)	10 (150)	10 (150)	10 (150)	10 (150)	32	01	G* W290D1313SA0000	W290D13P3SA0000	
					II (*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	NPT ⁽³⁾ W290D1323SA0000	W290D13Q3SA0000	
			6.8 (7.9)	113	I (*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G* W290D1333SA0000	W290D13R3SA0000	
					II (*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	NPT ⁽³⁾ W290D1343SA0000	W290D13S3SA0000	
25.4	22.1	25	12.9 (15)	215	I (*)	10 (150)	16 (240)	16 (240)	10 (150)	50	02	G* W290D1433SA0000	W290D14R3SA0000	
					II (*)	10 (150)	16 (240)	16 (240)	10 (150)	63	03	NPT ⁽³⁾ W290D1443SA0000	W290D14S3SA0000	
			14.9 (17.2)	248	III (*)	10 (150)	16 (240)	16 (240)	10 (150)	90	04	G* W290D1453SA0000	W290D14T3SA0000	
					IV (*)	10 (150)	16 (240)	16 (240)	10 (150)	90	04	NPT ⁽³⁾ W290D1463SA0000	W290D14U3SA0000	
38.1	34.8	40	33.7 (39)	561	II (*)	10 (150)	11 (160)	11 (160)	10 (150)	63	03	G* W290D1483SA0000	W290D14X3SA0000	
					III (*)	10 (150)	16 (240)	16 (240)	10 (150)	90	04	NPT ⁽³⁾ W290D1493SA0000	W290D14Y3SA0000	
			35.4 (41)	590	IV (*)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G* W290D1533SA0000	W290D15T3SA0000	
					V (*)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	NPT ⁽³⁾ W290D1543SA0000	W290D15U3SA0000	
50.8	47.5	50	51 (59.1)	850	II (*)	10 (150)	7 (105)	7 (105)	7 (105)	63	03	G* W290D1633SA0000	W290D16T3SA0000	
					III (*)	10 (150)	13 (200)	13 (200)	10 (150)	90	04	NPT ⁽³⁾ W290D1643SA0000	W290D16U3SA0000	
			55.1 (63.8)	918	IV (*)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	G* W290D1733SA0000	W290D17T3SA0000	
					V (*)	10 (150)	16 (240)	16 (240)	10 (150)	125	05	NPT ⁽³⁾ W290D1743SA0000	W290D17U3SA0000	

(*) Ensure that compatibility of materials in contact with fluids is verified.
 (*) Minimum pilot pressure varies with differential pressure, see page 18
⁽¹⁾ Only with stainless steel actuator.
⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).
⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

Specifications (Butt welding ASME BPE)

O.D. of stub	I.D. of stub	DN	Flow coefficient		Pilot pressure		Operating pressure differential			Actuator diameter / Dimensions / Type ⁽¹⁾	Pilot connection	Catalog number		
			Kv (Cv)	m ³ /h (gal/min)	l/min	bar (psi)		Air, inert gas (*)	Water, oil, liquids (*)			Steam ⁽¹⁾ ≤ 140°C (≤ 284°F) (*)	Butt welding ASME BPE	
						Min.	Max.						Plastic actuator	Stainless steel actuator
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)														
9.53	7.75	10	2 (2.3)	33	X(*)	10 (150)	10 (150)	-	10 (150)	32	01	G* W290D3113SA0000	W290D31P3SA0000	
													NPT W290D3123SA0000	W290D31Q3SA0000
12.7	9.4	15	2.7 (3.1)	45	X(*)	10 (150)	10 (150)	-	10 (150)	32	01	G* W290D3213SA0000	W290D32P3SA0000	
												NPT W290D3223SA0000	W290D32Q3SA0000	
			2.5 (2.9)	41	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G* W290D3233SA0000	W290D32R3SA0000	
													NPT ⁽³⁾ W290D3243SA0000	W290D32S3SA0000
			2.5 (2.9)	41	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G* W290D3253SA0000	W290D32T3SA0000	
												NPT ⁽³⁾ W290D3263SA0000	W290D32U3SA0000	
19.5	15.75	20	5 (5.8)	83	X(*)	10 (150)	10 (150)	-	10 (150)	32	01	G* W290D3313SA0000	W290D33P3SA0000	
												NPT W290D3323SA0000	W290D33Q3SA0000	
			7.2 (8.3)	120	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G* W290D3333SA0000	W290D33R3SA0000	
												NPT ⁽³⁾ W290D3343SA0000	W290D33S3SA0000	
			7.2 (8.3)	120	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G* W290D3353SA0000	W290D33T3SA0000	
												NPT ⁽³⁾ W290D3363SA0000	W290D33U3SA0000	
25.4	22.1	25	13.2 (15.3)	220	V(*)	10 (150)	10 (150)	-	10 (150)	50	02	G* W290D3433SA0000	W290D34R3SA0000	
													NPT ⁽³⁾ W290D3443SA0000	W290D34S3SA0000
			15.9 (18.4)	265	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G* W290D3453SA0000	W290D34T3SA0000	
												NPT ⁽³⁾ W290D3463SA0000	W290D34U3SA0000	
38.1	34.8	40	37.9 (44)	631	VI(*)	10 (150)	10 (150)	-	10 (150)	63	03	G* W290D3653SA0000	W290D36T3SA0000	
													NPT ⁽³⁾ W290D3663SA0000	W290D36U3SA0000
			31.9 (37)	531	VII(*)	10 (150)	10 (150)	-	10 (150)	90	04	G* W290D36B3SA0000	W290D36X3SA0000	
												NPT ⁽³⁾ W290D36C3SA0000	W290D36Y3SA0000	
50.8	47.5	50	56 (65)	933	VI(*)	10 (150)	9 (135)	-	9 (135)	63	03	G* W290D3753SA0000	W290D37T3SA0000	
													NPT ⁽³⁾ W290D3763SA0000	W290D37U3SA0000
			49 (56.8)	816	VII(*)	10 (150)	10 (150)	-	10 (150)	90	04	G* W290D37B3SA0000	W290D37X3SA0000	
												NPT ⁽³⁾ W290D37C3SA0000	W290D37Y3SA0000	

(*) Ensure that compatibility of materials in contact with fluids is verified.

(*) Minimum pilot pressure varies with differential pressure, see page 18

⁽¹⁾ Only with stainless steel actuator.

⁽²⁾ For dimensions, see drawing(s) for each construction type on the following page(s).

⁽³⁾ Plastic actuator: NPTF / Stainless steel actuator: NPT

Product selection guide

Configurator - CAD Files

PRODUCT CODE
W 290 D 0 3 1 0 S A00 00

Connection type
W= Butt welding

Product series
290

Revision letter
D = Initial release

Function
0 = Normally Closed
1 = Normally Open
7 = Normally Closed - Low pilot pressure
3 = Normally Closed - Above the disc
4 = Double Acting (bistable)
P = Normally closed with profil disc

Nominal diameter
1 = DN10 - 3/8"
2 = DN15 - 1/2"
3 = DN20 - 3/4"
4 = DN25 - 1"
5 = DN32 - 1 1/4"
6 = DN40 - 1 1/2"
7 = DN50 - 2"
8 = DN65 - 2 1/2"

Actuator diameter - Piloting connections
1 = 32 mm plastic - G 1/8"
2 = 32 mm plastic - NPTF 1/8"
3 = 50 mm plastic - G 1/8"
4 = 50 mm plastic - NPTF 1/8"
5 = 63 mm plastic - G 1/8"
6 = 63 mm plastic - NPTF 1/8"
B = 90 mm plastic - G 1/4"
C = 90 mm plastic - NPTF 1/4"
H = 125 mm plastic - G 1/4"
J = 125 mm plastic - NPTF 1/4"
9 = 63 mm plastic - NAMUR plate⁽³⁾
A = 90 mm plastic - NAMUR plate⁽³⁾
F = 125 mm plastic - NAMUR plate⁽³⁾

P = 32 mm stainless steel - G 1/8"
Q = 32 mm stainless steel - NPT 1/8"
R = 50 mm stainless steel - G 1/8"
S = 50 mm stainless steel - NPT 1/8"
T = 63 mm stainless steel - G 1/8"
U = 63 mm stainless steel - NPT 1/8"
X = 90 mm stainless steel - G 1/4"
Y = 90 mm stainless steel - NPT 1/4"
G = 50 mm stainless steel - NAMUR plate⁽³⁾
W = 63 mm stainless steel - NAMUR plate⁽³⁾
Z = 90 mm stainless steel - NAMUR plate⁽³⁾

⁽³⁾ Solenoid pilot valves, series 551, 3/2 NC:
- Aluminum body, catalog number **SCG551A001**
- AISI 316L stainless steel body, catalog number **SCG551A40**

Options

- A00** = Without
- PFB** = Prepared for signaling box mounting⁽¹⁾
- AT1** = ATEX/IECEx 1/21 zones⁽¹⁾
- AT0** = ATEX/IECEx 0/20 zones⁽¹⁾
- 02S** = Oxygen service 15 bar / 60°C
- LTP** = Low temperature down to -60°C (stainless steel actuator)
- 125** = CTR certification (EAC Ex 1/21 zones) for Product
- STL** = Stroke limiter for opening⁽¹⁾
- TC6** = Test tightness class VI⁽¹⁾
- VAC** = Industrial vacuum 10⁻³ mbar⁽¹⁾
- M31** = Stainless steel valve body material certified 3.1
- FBO** = EC 1935-2004 regulation and FDA CFR 21 material
- WSP** = PTFE wiper seal
- WSF** = FPM piston seal and steam using up to +184°C / 360°F
- 11B** = Manual safety device⁽¹⁾
- V10** = Visual indicator⁽²⁾
- SSF** = Stainless steel insert for plastic actuator

Valve body material

- S** = Stainless steel body
- Y** = All 316L

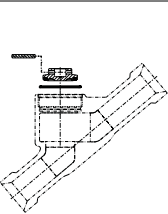
Port type 1-2

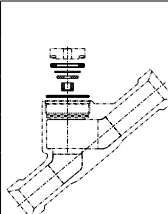
- W** = Butt welding ISO 1127
- 1** = Butt welding DIN EN 10357-A (DIN 11850-S2)
- 2** = Butt welding SMS 3008
- 3** = Butt welding ASME BPE

⁽¹⁾ See "Choice of options and accessories", pages 19 and 20
⁽²⁾ For 32 mm and 50 mm plastic actuators (standard for 63 mm, 90 mm and 125 mm plastic actuators and all stainless steel actuators)

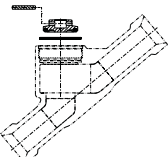
Repair Kits and Service Parts

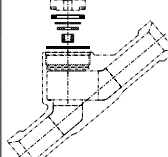
Butt welding ISO 1127

	Ø	DN	Spare parts kits no. 50-63-90-125 mm	
			entry under the disc	
			Normally Closed	Normally Open + Double Acting (bistable)
	1/2"	15	M29054935100800	M29054935103500
	3/4"	20	M29054935100900	M29054935103600
	1"	25	M29054935101000	M29054935103700
	1 1/4"	32	M29054935101100	M29054935105200
	1 1/2"	40	M29054935101200	M29054935105300
	2"	50	M29054935101300	M29054935105400
	2 1/2"	65	M29054935101400	M29054935105500

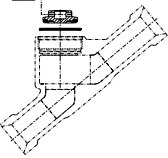
	Ø	DN	Spare parts kits no. 50-63-90-125 mm
			entry above the disc
	1/2"	15	M29054935100100
	3/4"	20	M29054935100200
	1"	25	M29054935100300
	1 1/4"	32	M29054935100400
	1 1/2"	40	M29054935100500
	2"	50	M29054935100600
	2 1/2"	65	M29054935100700

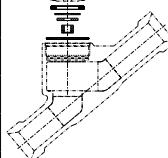
Butt welding SMS 3018

	Ø	DN	Spare parts kits no. 50-63-90-125 mm	
			entry under the disc	
			Normally Closed	Normally Open + Double Acting (bistable)
	1"	25	M29054935101000	M29054935103700
	1 1/4"	32	M29054935101100	M29054935105200
	1 1/2"	40	M29054935101200	M29054935105300
	2"	50	M29054935101300	M29054935105400

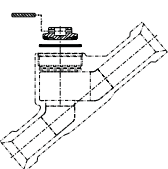
	Ø	DN	Spare parts kits no. 50-63-90-125 mm
			entry above the disc
	1"	25	M29054935100300
	1 1/4"	32	M29054935100400
	1 1/2"	40	M29054935100500
	2"	50	M29054935100600

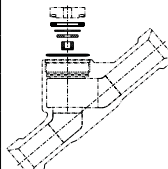
Butt welding DIN EN 10357-A (DIN 11850-S2)

	Ø	DN	Spare parts kits no. 50-63-90-125 mm	
			entry under the disc	
			Normally Closed	Normally Open + Double Acting (bistable)
	1/2"	15	M29054935100800	M29054935103500
	3/4"	20	M29054935100900	M29054935103600
	1"	25	M29054935101000	M29054935103700
	1 1/4"	32	M29054935101100	M29054935105200
	1 1/2"	40	M29054935101200	M29054935105300
	2"	50	M29054935101300	M29054935105400

	Ø	DN	Spare parts kits no. 50-63-90-125 mm
			entry above the disc
	1/2"	15	M29054935100100
	3/4"	20	M29054935100200
	1"	25	M29054935100300
	1 1/4"	32	M29054935100400
	1 1/2"	40	M29054935100500
	2"	50	M29054935100600

Butt welding ASME BPE

	Ø	DN	Spare parts kits no. 50-63-90-125 mm	
			entry under the disc	
			Normally Closed	Normally Open + Double Acting (bistable)
	1/2"	15	M29054935100800	M29054935103500
	3/4"	20	M29054935100900	M29054935103600
	1"	25	M29054935101000	M29054935103700
	1 1/2"	40	M29054935101200	M29054935105300
	2"	50	M29054935101300	M29054935105400

	Ø	DN	Spare parts kits no. 50-63-90-125 mm
			entry above the disc
	1/2"	15	M29054935100100
	3/4"	20	M29054935100200
	1"	25	M29054935100300
	1 1/2"	40	M29054935100500
	2"	50	M29054935100600

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View showing the function / actuator / flow direction

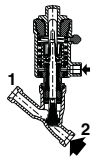
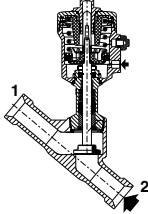
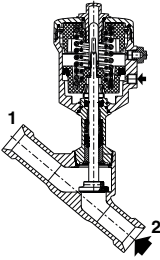
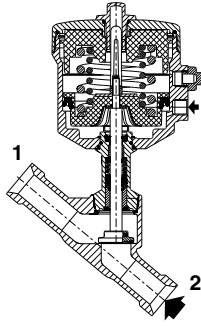
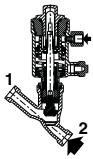
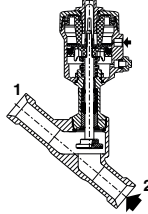
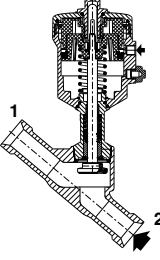
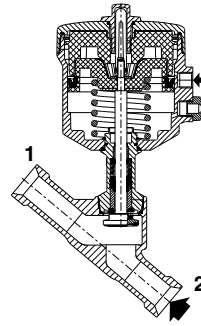
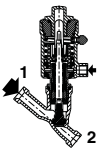
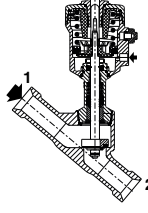
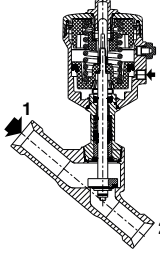
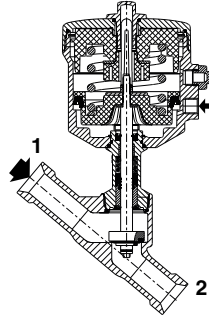
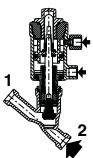
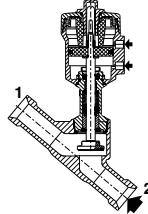
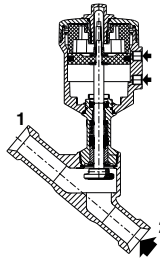
Plastic actuators

32 mm actuator	50 mm actuator	63 mm actuator	90 mm actuator	125 mm actuator
NC - Normally closed, entry under the disc				
NO - Normally open, entry under the disc				
NC - Normally closed, entry above the disc				
Bistable function				
			-	-

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View showing the function / actuator / flow direction

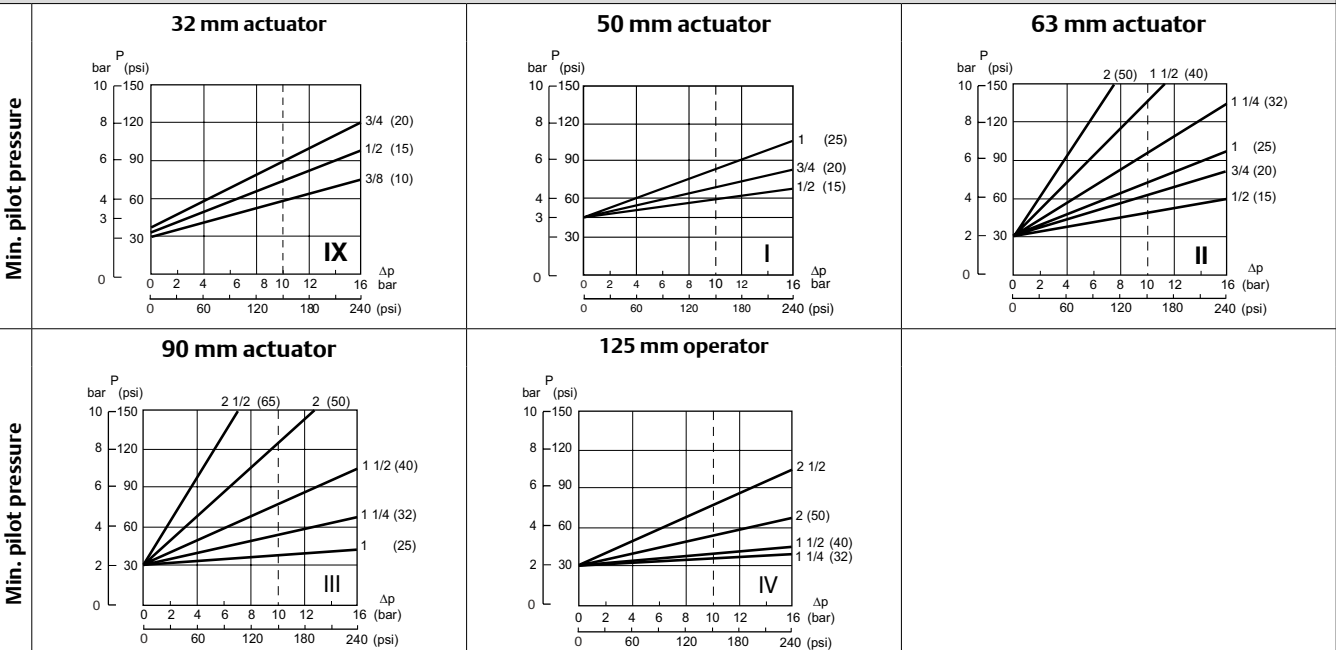
Stainless steel actuators

32 mm actuator	50 mm actuator	63 mm actuator	90 mm actuator
NC - Normally closed, entry under the disc			
			
NO - Normally open, entry under the disc			
			
NC - Normally closed, entry above the disc			
			
Bistable function			
			-

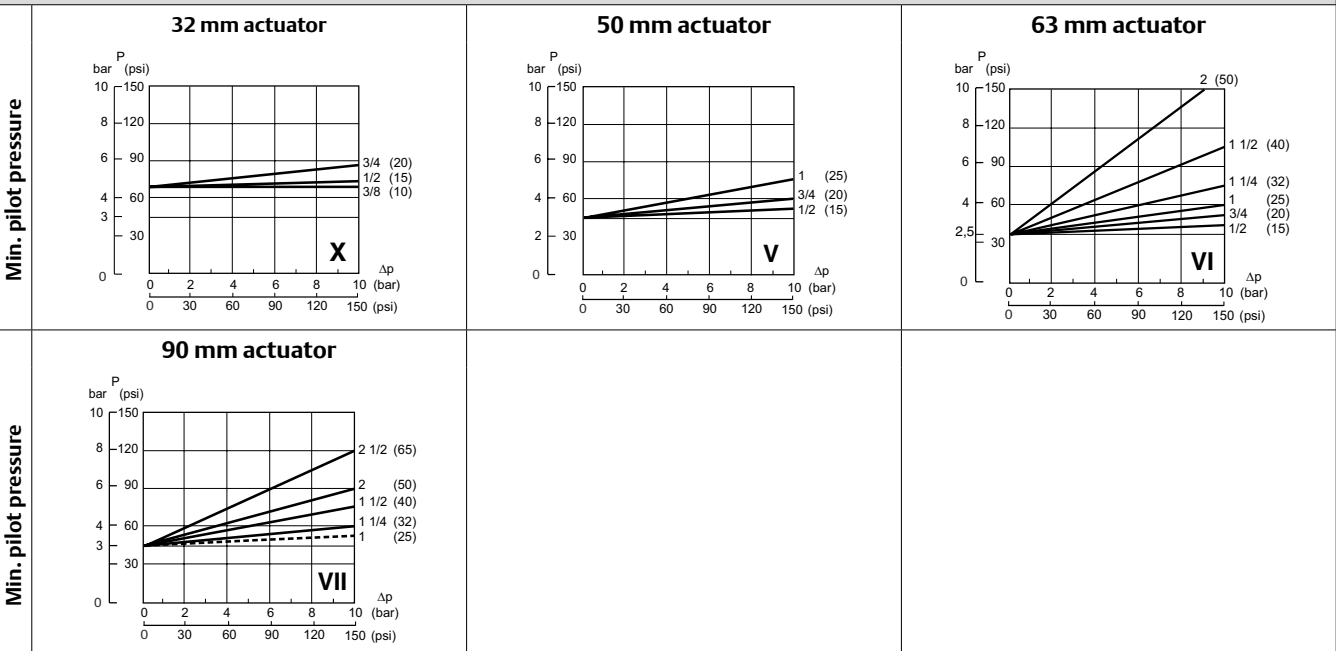
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Selection of the minimum pilot pressure

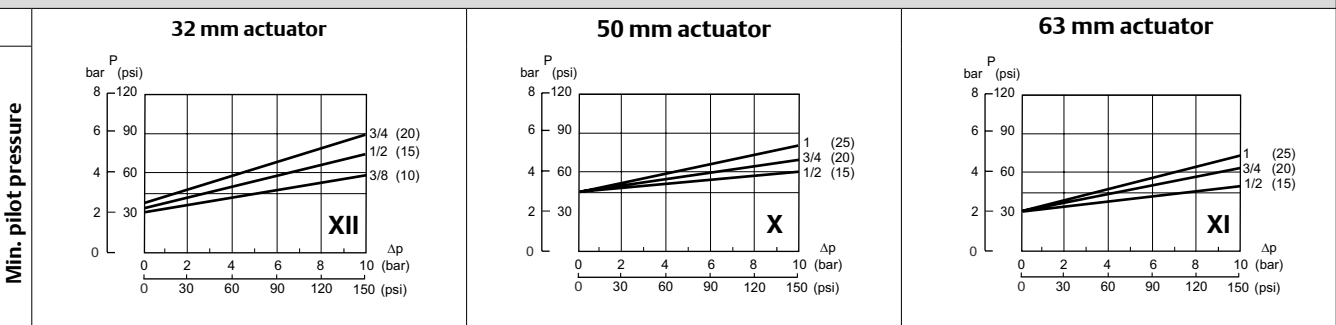
NO - Normally open, entry under the disc



NC - Normally closed, entry above the disc



Bistable function



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Installation

- Valves can be mounted in any position without affecting operation
- Possibility to interchange actuators (sizes/functions) on the same body
- Adjustable actuator enables 360° access to pilot port
- Compatible with ASTM 1, 2 and 3 oils
- Pilot thread connection (G) or (NPTF) or (NPT) has a standard thread according to ISO 228/1 or ANSI B 1.20.3 or ANSI B1.20.1
- Installation/maintenance instructions in multiple languages are available on our website

Choice of options and accessories

Options	NC	NO	NC	-	Actuator diameter compatibility (mm)				
	Fluid entry under the disc	Fluid entry under the disc	Fluid entry above the disc	Bistable function	32	50	63	90	125
	AT0	•	•	•	•	•	•	•	•
AT1	•	•	•	•	•	•	•	•	•

When a combination of several options are selected (using the product configurator on our website) you will be provided with a specific combination code

ATEX/IECEx

- 2/2 valves NC/NO designed for use in potentially explosive atmospheres in accordance with ATEX-Directive 2014/34/EU
EC type examination certificate no.: **LCIE 20 ATEX 3037 X**
IECEx Certificate of Conformity no.: **IECEx LCIE 20.0025X**
- Compliance with the Essential Health and Safety Requirements of the ATEX Directive has been assured by compliance with European Standards EN ISO 80079-36 and EN ISO 80079-37
- Recommended for applications in the chemical, oil, gas and paint coating industries etc.

ATEX-Directive 2014/34/EU, category 1

Classification (zones) Category 1						
Dusts			Gas			Safety code
IIIA	IIIB	IIIC	IIA	IIB	IIC	
Zone 20			Zone 0			Ⓢ II 1G Ex h IIC T* Ga Ⓢ II 1D Ex h IIIC T**C Da

1GD		Plastic actuator		Metallic actuator	
T*°C	T*	Ts amb	T fluid	Ts amb	T fluid
300°C	T2	-	-	70°C	220°C
200°C	T3	60°C	145°C	70°C	149°C
135°C	T4	60°C	93°C	70°C	97°C
100°C	T5	60°C	65°C	70°C	69°C
85°C	T6	60°C	53°C	60°C	57°C

ATEX-Directive 2014/34/EU, category 2


Classification (zones) Category 2						
Dusts			Gas			Safety code
IIIA	IIIB	IIIC	IIA	IIB	IIC	
Zone 21			Zone 1			Ⓢ II 2G Ex h IIC T* Gb X Ⓢ II 2D Ex h IIIC T**C Db X

2GD		Plastic actuator		Metallic actuator	
T*°C	T*	Ts amb	T fluid	Ts amb	T fluid
300°C	T2	-	-	70°C	220°C
200°C	T3	60°C	180°C	70°C	184°C
135°C	T4	60°C	115°C	70°C	119°C
100°C	T5	60°C	80°C	70°C	80°C
85°C	T6	60°C	60°C	60°C	60°C

T*°C = Surface temperature
 T* = Temperature class
 Ts amb = Ambient temperature
 T fluid = Fluid temperature

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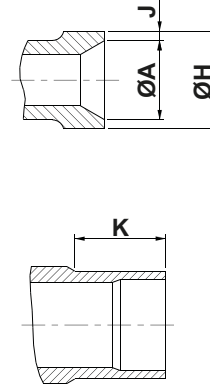
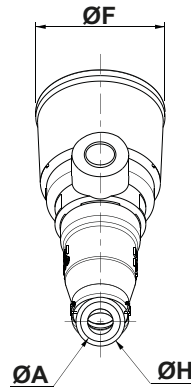
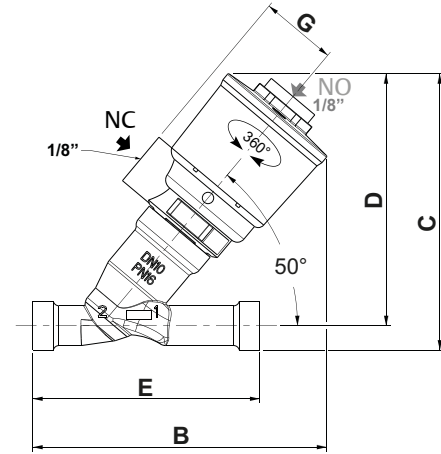
ASCO™ Pneumatic Angle Seat Valves

Dimensions mm (inches), Weight kg (Lbs) 

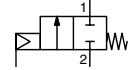
Configurator - CAD Files



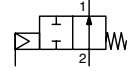
TYPE 01
32 mm actuator / Plastic actuator
Fluid entry:
under the disc at 2
above the disc at 1



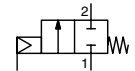
NC
entry
under the disc at 2



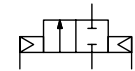
NO
entry
under the disc at 2



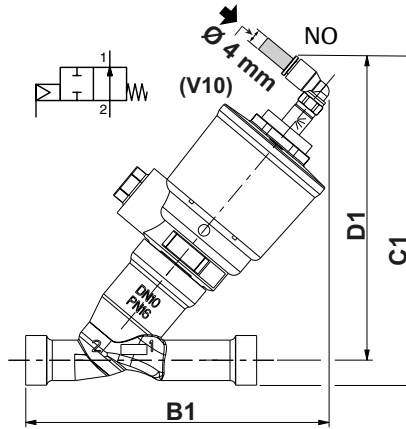
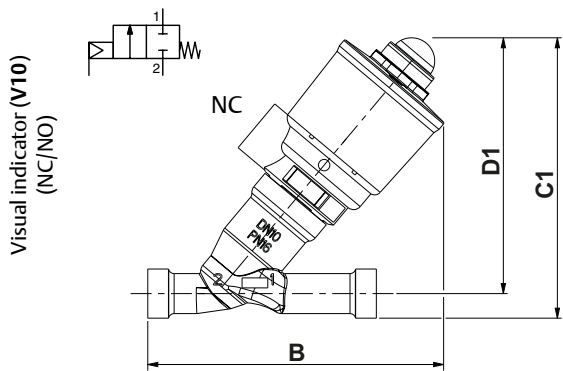
NC
entry
above the disc at 1



Bistable
entry under the
disc at 2



2 x 1/8"
orifices for piloting



Type	Ø (mm)	DN	ØA		B		B1 (V10)		C		C1 (V10)				D					
			ISO	BPE	ISO	BPE	ISO	BPE	ISO	BPE	ISO		BPE		ISO	BPE				
			NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	ISO	BPE				
01	32	10	mm	14	7.75	103.5	103.5	104.5	104.5	97.5	94.5	98.5	115	95.5	112	89	89			
			(in)	0.551	0.305	4.075	4.075	4.114	4.114	3.839	3.720	3.878	4.528	3.760	4.409	3.504	3.504			
		15	mm	18.1	9.4	103	103.5	104	104.5	100.5	95.5	101.5	118	96.5	113	90	88.5			
			(in)	0.713	0.370	4.055	4.075	4.094	4.114	3.957	3.760	3.996	4.646	3.799	4.449	3.543	3.484			
		20	mm	23.7	15.75	105	103	106	104	103.5	100	104.5	121	101	117.5	89.5	89.5			
			(in)	0.933	0.620	4.134	4.055	4.173	4.094	4.075	3.937	4.114	4.764	3.976	4.626	3.524	3.524			
		01	32	10	D1 (V10)				E		ØF	G	ØH		J		K	Weight ⁽¹⁾		
					ISO		BPE		ISO	BPE			ISO	BPE	ISO	BPE				
					NC	NO	NC	NO												
				10	mm	90	106	90	106	80	80	46	27	17.2	9.53	1.6	0.89	8	0.3	kg
					(in)	3.539	4.189	3.543	4.173	3.150	3.150	1.811	1.063	0.677	0.375	0.063	0.035	0.315	0.7	(Lbs)
				15	mm	91	107	89.5	106	84	80	46	27	21.3	12.7	1.6	1.65	10	0.4	kg
(in)	3.577				4.226	3.524	4.173	3.307	3.150	1.811	1.063	0.839	0.500	0.063	0.065	0.394	0.9	(Lbs)		
20	mm			91	107	91	107	94	84	46	27	26.9	19.05	1.6	1.65	7	0.5	kg		
	(in)			3.585	4.213	3.583	4.213	3.701	3.307	1.811	1.063	1.059	0.750	0.063	0.065	0.276	1.1	(Lbs)		

⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

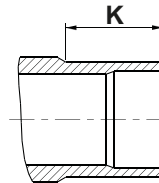
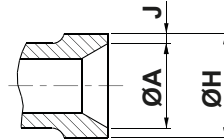
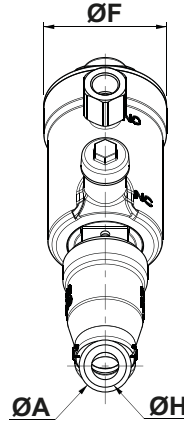
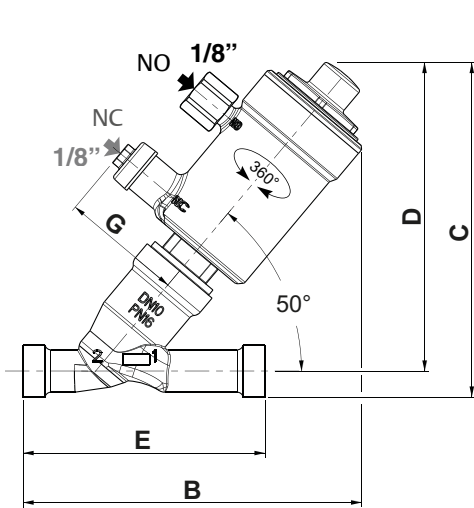
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Dimensions mm (inches), Weight kg (Lbs)

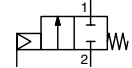
Configurator - CAD Files



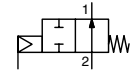
TYPE 01
32 mm actuator / Stainless steel actuator
Fluid entry:
under the disc at 2
above the disc at 1



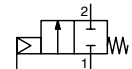
NC
entry
under the disc at 2



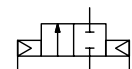
NO
entry
under the disc at 2



NC
entry
above the disc at 1



Bistable
entry under the
disc at 2



2 x 1/8"
orifices for piloting

Type	Ø (mm)	DN	ØA		B		C		D		Weight ⁽¹⁾		
			ISO	BPE	ISO	BPE	ISO	BPE	ISO	BPE			
01	32	10	mm	14	7.75	112	112	110.5	108	102	102	kg	
			(in)	0.551	0.305	4.409	4.409	4.350	4.252	4.016	4.016		
		15	mm	18.1	9.4	111.5	112	114	109	103	102	kg	
			(in)	0.713	0.370	4.390	4.409	4.488	4.291	4.055	4.016		
		20	mm	23.7	15.75	113	111.5	117	113	103	103	kg	
			(in)	0.933	0.620	4.449	4.390	4.606	4.449	4.055	4.055		
	32	10	mm	E		ØF	G	ØH		J		K	kg
				ISO	BPE			ISO	BPE	ISO	BPE		
		15	mm	80	80	41	40	17.2	9.53	1.6	0.89	8	kg
			(in)	3.150	3.150	1.614	1.575	0.677	0.375	0.063	0.035	0.315	
		20	mm	84	80	41	40	21.3	12.7	1.6	1.65	10	kg
			(in)	3.307	3.150	1.614	1.575	0.839	0.500	0.063	0.065	0.394	
20	mm	94	84	41	40	26.9	19.05	1.6	1.65	7	kg		
	(in)	3.701	3.307	1.614	1.575	1.059	0.750	0.063	0.065	0.276			

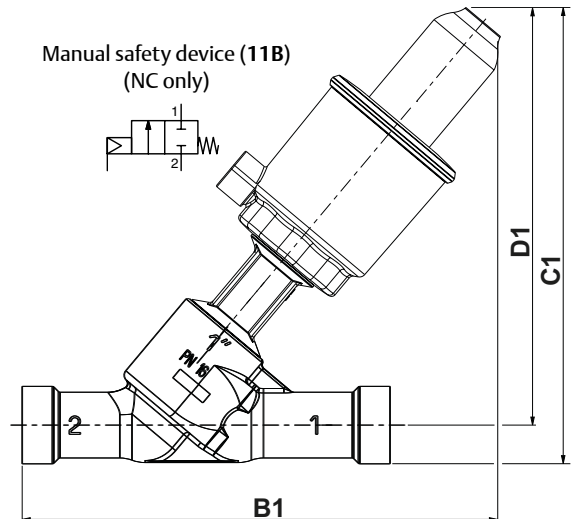
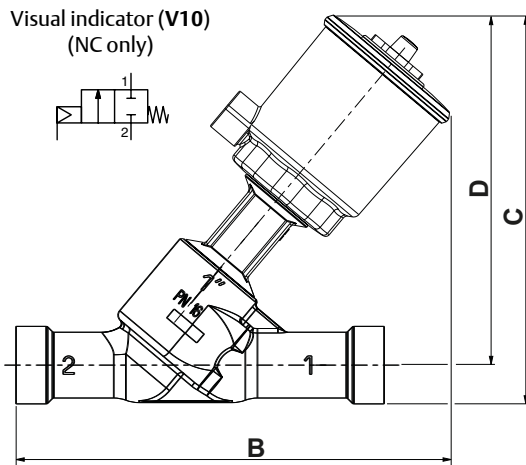
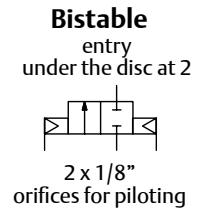
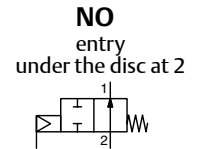
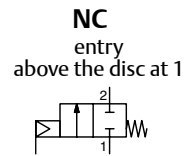
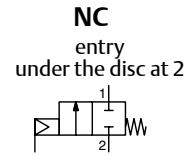
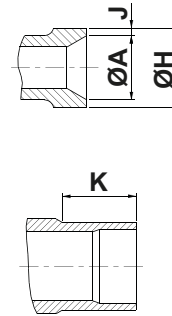
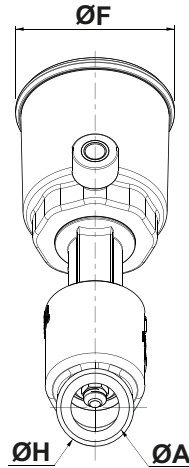
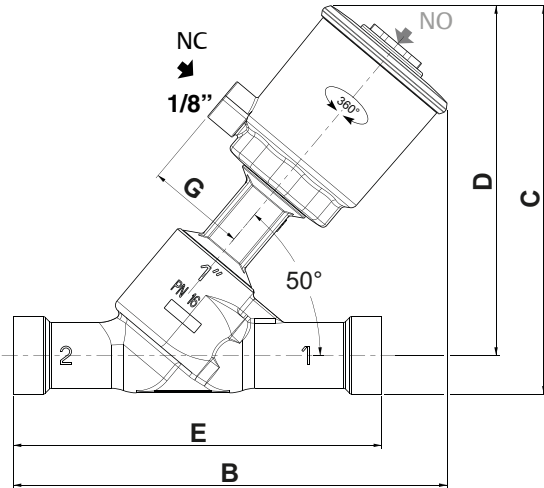
⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

Dimensions mm (inches), Weight kg (Lbs)

Configurator - CAD Files



TYPE 02
50 mm actuator / Plastic actuator
Fluid entry:
under the disc at 2
above the disc at 1



Type	Ø (mm)	DN	ØA				B	B1 (11B)	C				C1 (11B)				D	D1 (11B)			
			ISO	BPE	SMS	DIN			ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN					
02	50	15	mm	18.1	9.4	-	16	168.5	189	154	151	-	154	185	182	-	185	143.5	174.5		
			(in)	0.713	0.370	-	0.630	6.634	7.441	6.063	5.945	-	6.063	7.283	7.165	-	7.283	5.650	6.870		
		20	mm	23.7	15.75	-	20	168.5	189	157.5	156.5	-	156.5	188.5	187.5	-	187.5	144	175		
			(in)	0.933	0.620	-	0.787	6.634	7.441	6.201	6.161	-	6.161	7.421	7.382	-	7.382	5.669	6.890		
		25	mm	29.7	22.1	22.6	26	188.5	209	168.5	168.5	168.5	168.5	199.5	199.5	199.5	199.5	152	183		
			(in)	1.169	0.870	0.890	1.024	7.421	8.228	6.634	6.634	6.634	6.634	7.854	7.854	7.854	7.854	5.984	7.205		
					E	ØF	G	ØH				J				K				Weight ⁽¹⁾	
								ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	BPE	SMS	DIN			
				15	mm	130	69	43	21.3	12.7	-	19	1.6	1.65	-	1.5	9	-	16	0.8	kg
					(in)	5.118	2.717	1.693	0.839	0.500	-	0.748	0.063	0.065	-	0.059	0.354	-	0.630	1.8	(Lbs)
				20	mm	150	69	43	26.9	19.05	-	23	1.6	1.65	-	1.5	14.5	-	16	1.1	kg
					(in)	5.906	2.717	1.693	1.059	0.750	-	0.906	0.063	0.065	-	0.059	0.571	-	0.630	2.4	(Lbs)
25	mm			160	69	43	33.7	25.4	25	29	2	1.65	1.2	1.5	16	16	-	1.3	kg		
	(in)			6.299	2.717	1.693	1.327	1.000	0.984	1.142	0.079	0.065	0.047	0.059	0.630	0.630	-	2.9	(Lbs)		

⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

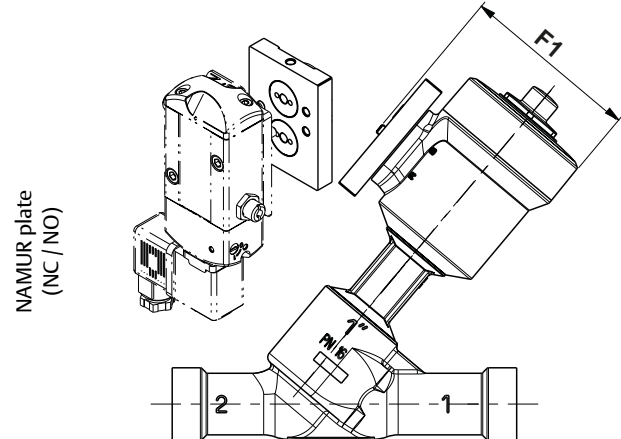
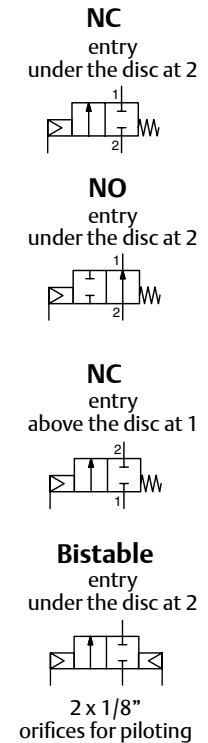
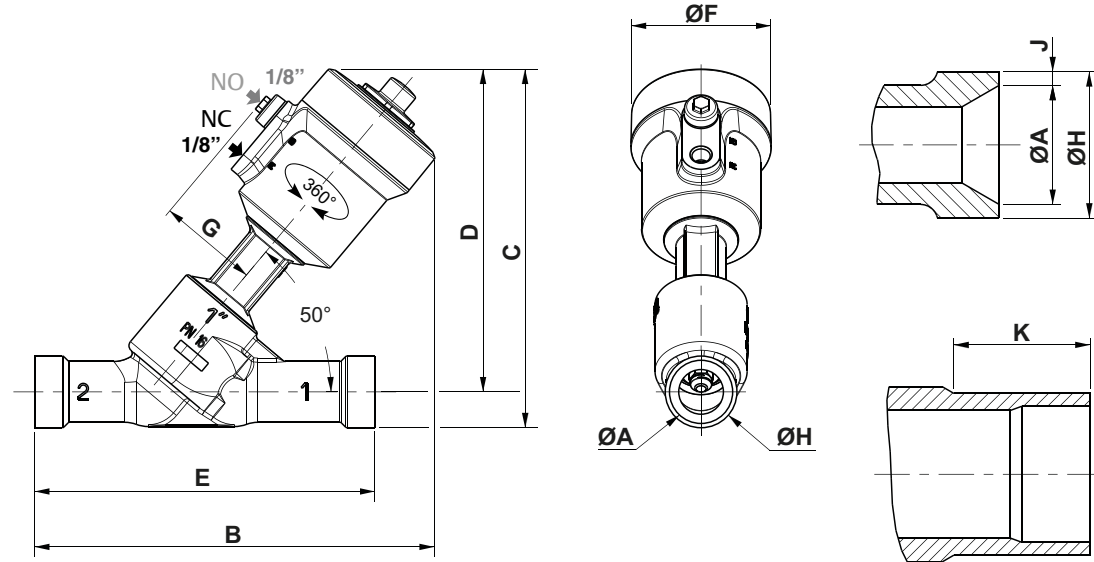
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Dimensions mm (inches), Weight kg (Lbs)

Configurator - CAD Files



TYPE 02
50 mm actuator / Stainless steel actuator
Fluid entry:
under the disc at 2
above the disc at 1



Type	Ø (mm)	DN	ØA				B	C				D	E	ØF	F1 (NAMUR)		
			ISO	BPE	SMS	DIN		ISO	BPE	SMS	DIN						
02	50	15	mm	18.1	9.4	-	16	168	154	151	-	153.5	143.5	130	65.5	82	
			(in)	0.713	0.370	-	0.630	6.614	6.063	5.945	-	6.043	5.650	5.118	2.579	3.228	
		20	mm	23.7	15.75	-	20	168.5	157	156.5	-	156.5	144	150	65.5	82	
			(in)	0.933	0.620	-	0.787	6.634	6.181	6.161	-	6.161	5.669	5.906	2.579	3.228	
		25	mm	29.7	22.1	22.6	26	188	168.5	168	168	168	168	160	65.5	82	
			(in)	1.169	0.870	0.890	1.024	7.402	6.634	6.614	6.614	6.614	5.984	6.299	2.579	3.228	
			G	ØH				J				K			Weight ⁽¹⁾		
				ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	BPE	SMS	DIN			
02	50	15	mm	47	21.3	12.7	-	19	1.6	1.65	-	1.5	9	-	16	1.3	kg
			(in)	1.850	0.839	0.500	-	0.748	0.063	0.065	-	0.059	0.354	-	0.630	2.9	(Lbs)
		20	mm	47	26.9	19.05	-	23	1.6	1.65	-	1.5	14.5	-	16	1.6	kg
			(in)	1.850	1.059	0.750	-	0.906	0.063	0.065	-	0.059	0.571	-	0.630	3.5	(Lbs)
25	mm	47	33.7	25.4	25	29	2	1.65	1.2	1.5	16	16	-	1.7	kg		
	(in)	1.850	1.327	1.000	0.984	1.142	0.079	0.065	0.047	0.059	0.630	0.630	-	3.7	(Lbs)		

⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

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ASCO™ Pneumatic Angle Seat Valves

Dimensions mm (inches), Weight kg (Lbs)

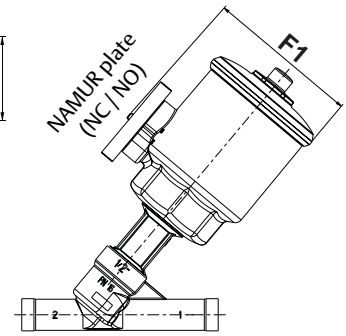
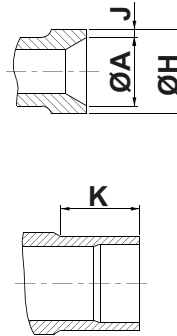
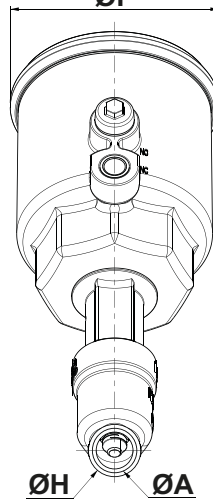
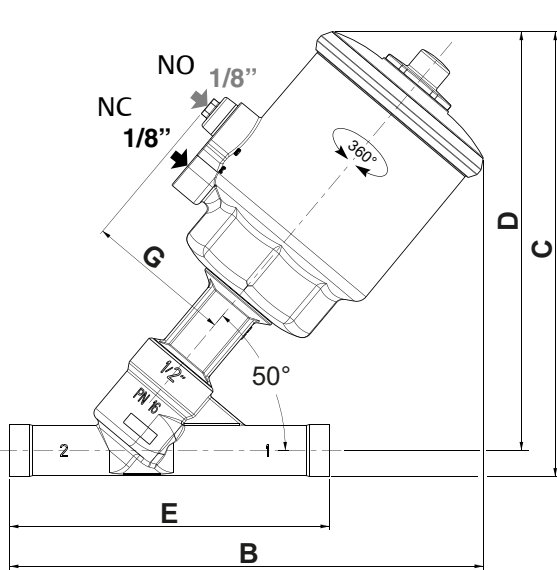
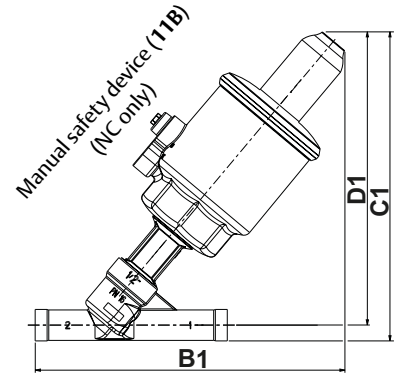
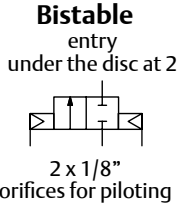
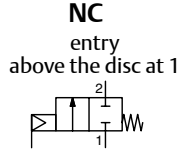
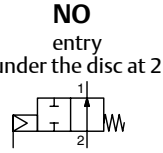
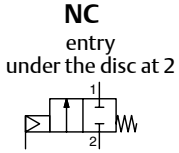
Configurator - CAD Files



TYPE 03


63 mm actuator / Plastic actuator

Fluid entry:
under the disc at 2
above the disc at 1



Type	Ø (mm)	DN	ØA				B	B1 (11B)	C				C1 (11B)				D	D1 (11B)	E	
			ISO	BPE	SMS	DIN			ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN				
03	63	15	mm	18.1	9.4	-	16	193	210.5	181	178.5	-	181	209.5	207	-	209.5	170.5	199	130
			(in)	0.713	0.370	-	0.630	7.598	8.287	7.126	7.028	-	7.126	8.248	8.150	-	8.248	6.713	7.835	5.118
		20	mm	23.7	15.75	-	20	193	210.5	184.5	184	-	184	213	212.5	-	212.5	171	199.5	150
			(in)	0.933	0.620	-	0.787	7.598	8.287	7.264	7.244	-	7.244	8.386	8.366	-	8.366	6.732	7.854	5.906
		25	mm	29.7	22.1	22.6	26	213	230.5	196	196	196	196	224.5	224.5	-	224.5	179	207.5	160
			(in)	1.169	0.870	0.890	1.024	8.386	9.075	7.717	7.717	7.717	7.717	8.839	8.839	-	8.839	7.047	8.169	6.299
		32	mm	38.4	-	31.3	32	235	252.5	212.5	-	210.5	210.5	241	-	239	239	191	219.5	180
			(in)	1.512	-	1.232	1.260	9.252	9.941	8.366	-	8.287	8.287	9.488	-	9.409	9.409	7.520	8.642	7.087
		40	mm	44.3	35	35.6	38	237	254.5	217.5	217.5	217.5	217.5	246	246	246	246	192.5	221	200
			(in)	1.744	1.370	1.402	1.496	9.331	10.02	8.563	8.563	8.563	8.563	9.685	9.685	9.685	9.685	7.579	8.701	7.874
		50	mm	56.3	47.5	48.6	50	268	285.5	229.5	229.5	229.5	229.5	258	258	258	258	199	227.5	230
			(in)	2.217	1.870	1.913	1.969	10.551	11.24	9.035	9.035	9.035	9.035	10.157	10.157	10.157	10.157	7.835	8.957	9.055
03	63	15	mm	85	104	59.5	21.3	12.7	-	19	1.6	1.65	-	1.5	-	9	-	16	1.0	kg
			(in)	3.346	4.094	2.343	0.839	0.500	-	0.748	0.063	0.065	-	0.059	-	0.354	-	0.630	2.2	(Lbs)
		20	mm	85	104	59.5	26.9	19.05	-	23	1.6	1.65	-	1.5	-	14.5	-	16	1.3	kg
			(in)	3.346	4.094	2.343	1.059	0.750	-	0.906	0.063	0.065	-	0.059	-	0.571	-	0.630	2.9	(Lbs)
		25	mm	85	104	59.5	33.7	25.4	25	29	2	1.65	1.2	1.5	-	16	16	-	1.5	kg
			(in)	3.346	4.094	2.343	1.327	1.000	0.984	1.142	0.079	0.065	0.047	0.059	-	0.630	0.630	-	3.3	(Lbs)
		32	mm	85	104	59.5	42.4	-	33.7	35	2	-	1.2	1.5	-	-	8	16	2.0	kg
			(in)	3.346	4.094	2.343	1.669	-	1.327	1.378	0.079	-	0.047	0.059	-	-	0.315	0.630	4.4	(Lbs)
		40	mm	85	104	59.5	48.3	38.1	38	41	2	1.65	1.2	1.5	8	8	7	16	2.9	kg
			(in)	3.346	4.094	2.343	1.902	1.500	1.496	1.614	0.079	0.065	0.047	0.059	0.315	0.315	0.276	0.630	6.4	(Lbs)
		50	mm	85	104	59.5	60.3	50.8	51	53	2	1.65	1.2	1.5	-	7	7	16	3.7	kg
			(in)	3.346	4.094	2.343	2.374	2.000	2.008	2.087	0.079	0.065	0.047	0.059	-	0.276	0.276	0.630	8.2	(Lbs)

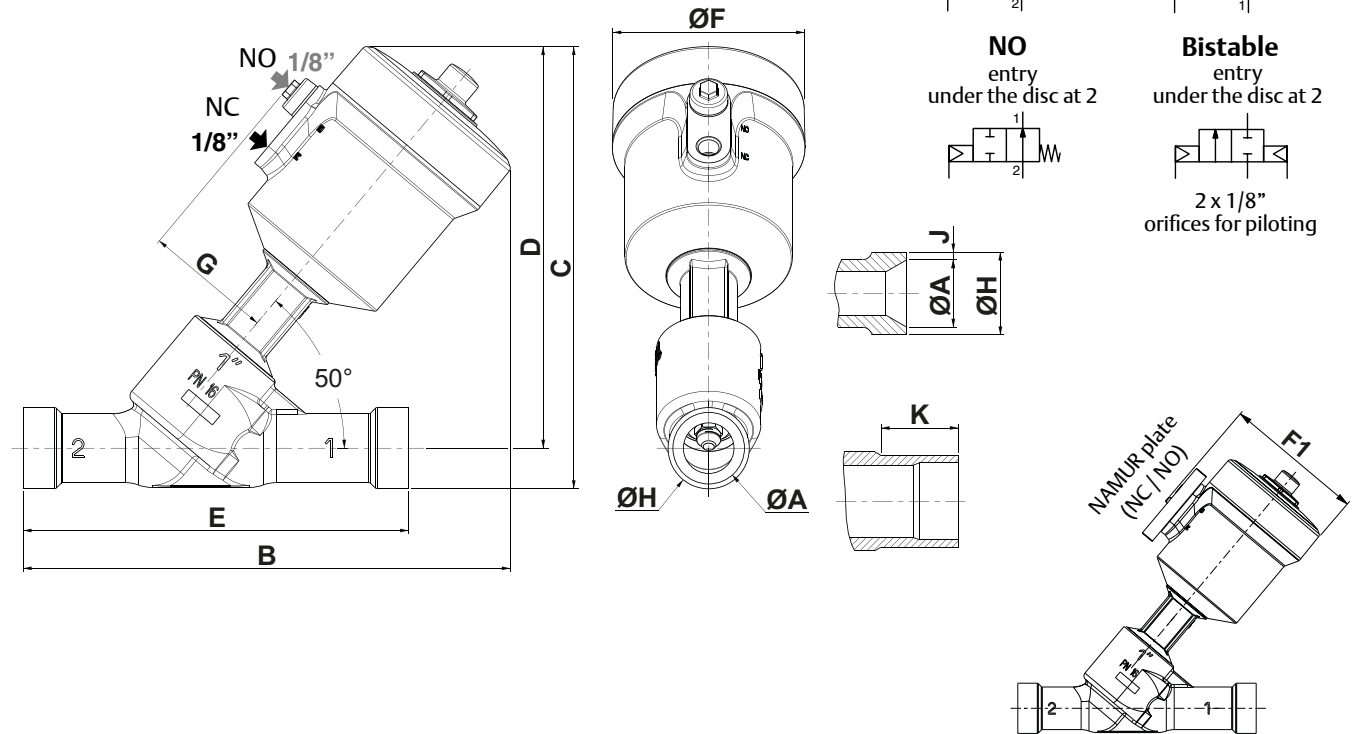
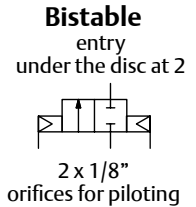
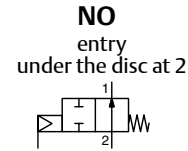
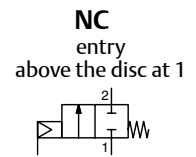
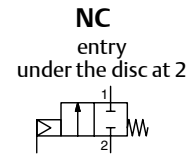
⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

Dimensions mm (inches), Weight kg (Lbs) 



TYPE 03
63 mm actuator / Stainless steel actuator
Fluid entry:
under the disc at 2
above the disc at 1

Configurator - CAD Files



Type	Ø (mm)	DN	ØA				B	C				D	E	ØF	F1 (NAMUR)	G	
			ISO	BPE	SMS	DIN		ISO	BPE	SMS	DIN						
03	63	15	mm	18.1	9.4	-	16	182	169	166	-	168.5	158.5	130	79.5	95	53
			(in)	0.713	0.370	-	0.630	7.165	6.654	6.535	-	6.634	6.240	5.118	3.130	3.740	2.087
		20	mm	23.7	15.75	-	20	182.5	172	171.5	-	171.5	159	150	79.5	95	53
			(in)	0.933	0.620	-	0.787	7.185	6.772	6.752	-	6.752	6.260	5.906	3.130	3.740	2.087
		25	mm	29.7	22.1	22.6	26	202.5	183.5	183	183	183	167	160	79.5	95	53
			(in)	1.169	0.870	0.890	1.024	7.972	7.224	7.205	7.205	7.205	6.575	6.299	3.130	3.740	2.087
		32	mm	38.4	-	31.3	32	224.5	199.5	-	198	198	178.5	180	79.5	95	53
			(in)	1.512	-	1.232	1.260	8.839	7.854	-	7.795	7.795	7.028	7.087	3.130	3.740	2.087
		40	mm	44.3	35	35.6	38	226.5	205.5	-	205.5	205.5	180.5	200	79.5	95	53
			(in)	1.744	1.370	1.402	1.496	8.917	8.091	-	8.091	8.091	7.106	7.874	3.130	3.740	2.087
		50	mm	56.3	47.5	48.6	50	257.5	217	217	217	217	187	230	79.5	95	53
			(in)	2.217	1.870	1.913	1.969	10.138	8.543	8.543	8.543	8.543	7.362	9.055	3.130	3.740	2.087
03	63	15	ØH				J				K				Weight ⁽¹⁾		
			ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN			
		15	mm	21.3	12.7	-	19	1.6	1.65	-	1.5	-	9	-	16	1.8	kg
			(in)	0.839	0.500	-	0.748	0.063	0.065	-	0.059	-	0.354	-	0.630	4.0	(Lbs)
		20	mm	26.9	19.05	-	23	1.6	1.65	-	1.5	-	14.5	-	16	2.1	kg
			(in)	1.059	0.750	-	0.906	0.063	0.065	-	0.059	-	0.571	-	0.630	4.6	(Lbs)
		25	mm	33.7	25.4	25	29	2	1.65	1.2	1.5	-	16	16	-	2.2	kg
			(in)	1.327	1.000	0.984	1.142	0.079	0.065	0.047	0.059	-	0.630	0.630	-	4.9	(Lbs)
		32	mm	42.4	-	33.7	35	2	-	1	2	-	-	8	16	2.7	kg
			(in)	1.669	-	1.327	1.378	0.079	-	0.047	0.059	-	-	0.315	0.630	6.0	(Lbs)
		40	mm	48.3	-	38	41	2	-	1	2	8	-	7	16	3.6	kg
			(in)	1.902	-	1.496	1.614	0.079	-	0.047	0.059	0.315	-	0.276	0.630	7.9	(Lbs)
50	mm	60.3	50.8	51	53	2	1.65	1.2	1.5	-	7	7	16	4.4	kg		
	(in)	2.374	2.000	2.008	2.087	0.079	0.065	0.047	0.059	-	0.276	0.276	0.630	9.7	(Lbs)		

⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

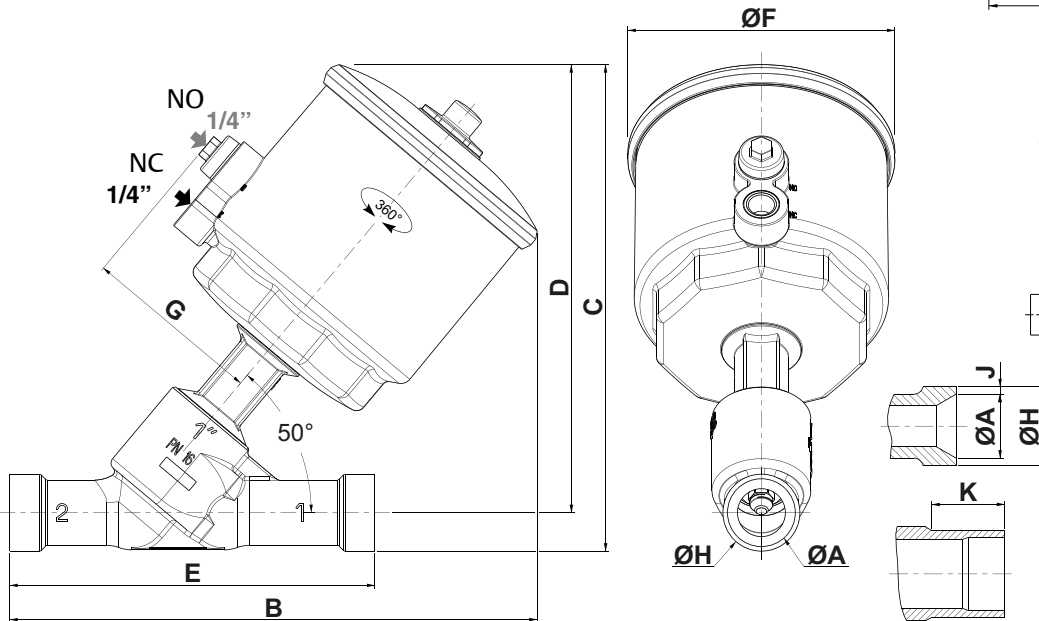
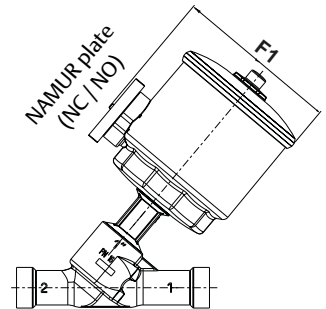
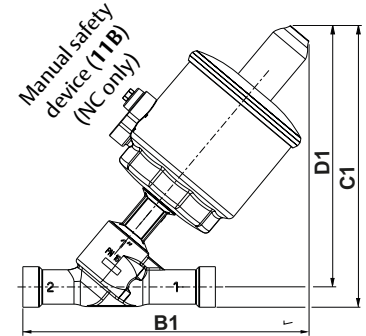
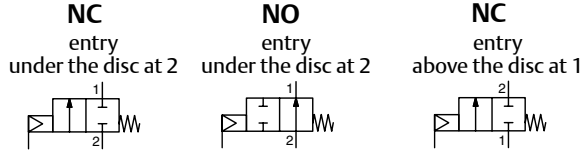
ASCO™ Pneumatic Angle Seat Valves

Dimensions mm (inches), Weight kg (Lbs)

Configurator - CAD Files




TYPE 04
90 mm actuator / Plastic actuator
Fluid entry:
under the disc at 2
above the disc at 1



Type	DN	ØA				B	B1 (11B)	C				C1 (11B)				D	D1 (11B)	E		
		ISO	BPE	SMS	DIN			ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN					
04	25	mm	29.7	22.1	22.6	26	231	237.5	213	212.5	212.5	212.5	233	232.5	232.5	232.5	196.5	216.5	160	
		(in)	1.169	0.870	0.890	1.024	9.094	9.350	8.386	8.366	8.366	8.366	9.173	9.154	9.154	9.154	7.736	8.524	6.299	
	32	mm	38.4	-	31.3	32	253.5	260	229	-	228	228	249	-	248	248	208	228	180	
		(in)	1.512	-	1.232	1.260	9.980	10.236	9.016	-	8.976	8.976	9.803	-	9.764	9.764	8.189	8.976	7.087	
	40	mm	44.3	34.8	35.6	38	255.5	262	235	235	235	235	255	255	255	255	210	230	200	
		(in)	1.744	1.370	1.402	1.496	10.059	10.315	9.252	9.252	9.252	9.252	10.039	10.039	10.039	10.039	8.268	9.055	7.874	
	50	mm	56.3	47.5	48.6	50	286.5	293	246.5	246.5	246.5	246.5	266.5	266.5	266.5	266.5	216.5	236.5	230	
		(in)	2.217	1.870	1.913	1.969	11.280	11.535	9.705	9.705	9.705	9.705	10.492	10.492	10.492	10.492	8.524	9.311	9.055	
	65	mm	72.1	-	-	-	326.5	333	268.5	-	-	-	288.5	-	-	-	229.5	249.5	290	
		(in)	2.839	-	-	-	12.854	13.110	10.571	-	-	-	11.358	-	-	-	9.035	9.823	11.417	
	90	25	mm	117	137	78.5	33.7	25.4	25	29	2	1.65	1.2	1.5	-	16	16	-	2.1	kg
			(in)	4.606	5.394	3.091	1.327	1.000	0.984	1.142	0.079	0.065	0.047	0.059	-	0.630	0.630	-	4.6	(Lbs)
32		mm	117	137	78.5	42.4	-	33.7	35	2	-	1	2	-	8	16	2.6	kg		
		(in)	4.606	5.394	3.091	1.669	-	1.327	1.378	0.079	-	0.047	0.059	-	0.315	0.630	5.7	(Lbs)		
40		mm	117	137	78.5	48.3	38.1	38	41	2	2	1	2	8	8	7	16	3.5	kg	
		(in)	4.606	5.394	3.091	1.902	1.500	1.496	1.614	0.079	0.065	0.047	0.059	0.315	0.315	0.276	0.630	7.7	(Lbs)	
50		mm	117	137	78.5	60.3	50.8	51	53	2	1.65	1.2	1.5	-	7	7	16	4.3	kg	
		(in)	4.606	5.394	3.091	2.374	2.000	2.008	2.087	0.079	0.065	0.047	0.059	-	0.276	0.276	0.630	9.5	(Lbs)	
65		mm	117	137	78.5	76.1	-	-	-	2	-	-	-	9.5	-	-	-	6.4	kg	
		(in)	4.606	5.394	3.091	2.996	-	-	-	0.079	-	-	-	0.374	-	-	-	14.1	(Lbs)	

(1) Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

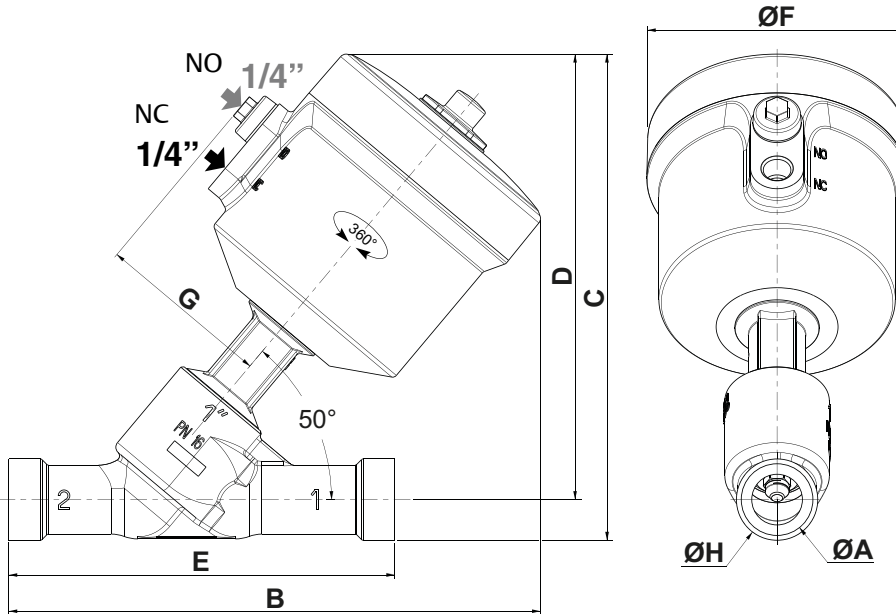
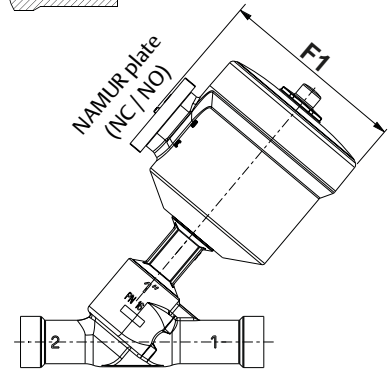
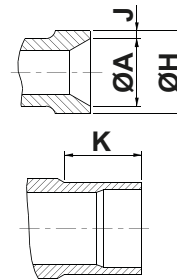
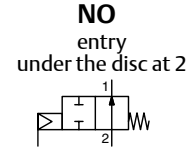
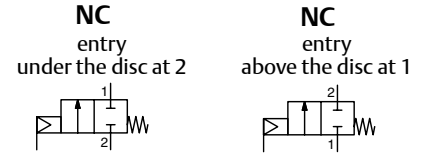
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Dimensions mm (inches), Weight kg (Lbs) 

Configurator - CAD Files




TYPE 04
90 mm actuator / Stainless steel actuator
Fluid entry:
under the disc at 2
above the disc at 1



Type	Ø (mm)	DN	ØA				B	C				D	E	ØF	F1 (NAMUR)	G	
			ISO	BPE	SMS	DIN		ISO	BPE	SMS	DIN						
04	90	25	mm	29.7	22.1	22.6	26	220.5	201.5	201	201	201	185	160	108	126	72
			(in)	1.169	0.870	0.890	1.024	8.681	7.933	7.913	7.913	7.913	7.283	6.299	4.252	4.961	2.835
		32	mm	38.4	-	31.3	32	243	217.5	-	216	216	196.5	180	108	126	72
			(in)	1.512	-	1.232	1.260	9.567	8.563	-	8.504	8.504	7.736	7.087	4.252	4.961	2.835
		40	mm	44.3	34.8	35.6	38	245	223.5	223.5	223.5	223.5	198.5	200	108	126	72
			(in)	1.744	1.370	1.402	1.496	9.646	8.799	8.799	8.799	8.799	7.815	7.874	4.252	4.961	2.835
		50	mm	56.3	47.5	48.6	50	276	235	235	235	235	205	230	108	126	72
			(in)	2.217	1.870	1.913	1.969	10.866	9.252	9.252	9.252	9.252	8.071	9.055	4.252	4.961	2.835
		65	mm	72.1	-	-	-	316	257	-	-	-	218	290	108	126	72
			(in)	2.839	-	-	-	12.441	10.118	-	-	-	8.583	11.417	4.252	4.961	2.835
		04	90	25	ØH				J				K				Weight ⁽¹⁾
					ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	
25	mm			33.7	25.4	25	29	2	1.65	1.2	1.5	-	16	16	-	3.3	kg
	(in)			1.327	1.000	0.984	1.142	0.079	0.065	0.047	0.059	-	0.630	0.630	-	7.3	(Lbs)
32	mm			42.4	-	33.7	35	2	-	1	2	-	-	8	16	3.7	kg
	(in)			1.669	-	1.327	1.378	0.079	-	0.047	0.059	-	-	0.315	0.630	8.2	(Lbs)
40	mm			48.3	38.1	38	41	2	2	1	2	8	8	7	16	4.7	kg
	(in)			1.902	1.500	1.496	1.614	0.079	0.065	0.047	0.059	0.315	0.315	0.276	0.630	10.4	(Lbs)
50	mm			60.3	50.8	51	53	2	1.65	1.2	1.5	-	7	7	16	5.4	kg
	(in)			2.374	2.000	2.008	2.087	0.079	0.065	0.047	0.059	-	0.276	0.276	0.630	11.9	(Lbs)
65	mm			76.1	-	-	-	2	-	-	-	9.5	-	-	-	7.5	kg
	(in)			2.996	-	-	-	0.079	-	-	-	0.374	-	-	-	16.5	(Lbs)

⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.

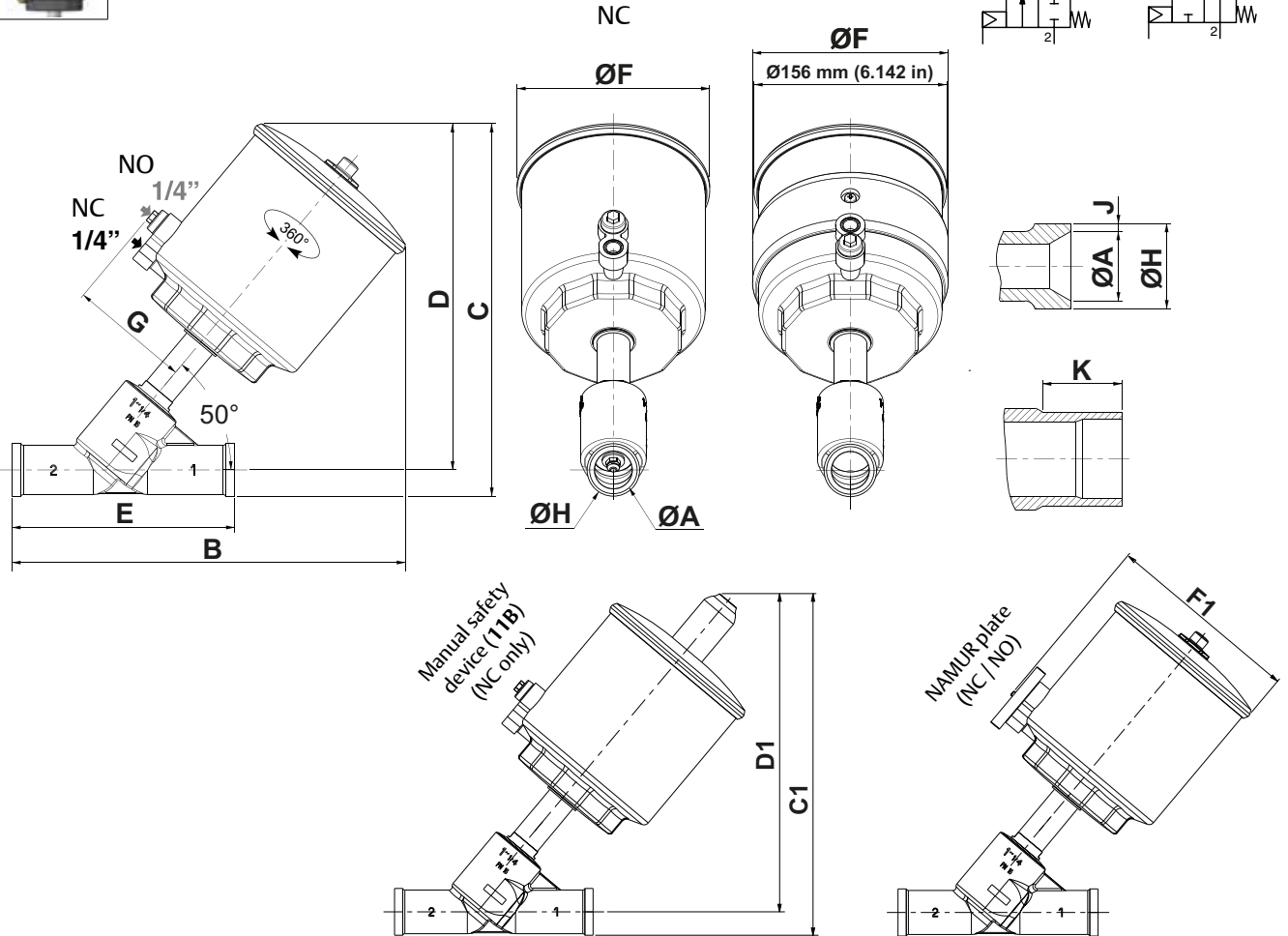
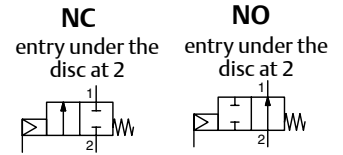
ASCO™ Pneumatic Angle Seat Valves

Dimensions mm (inches), Weight kg (Lbs) 



TYPE 05
125 mm actuator / Plastic actuator
Fluid entry:
under the disc at 2

Configurator - CAD Files



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Type	DN	Ø (mm)	ØA				B	C				C1 (11 B)				D	D1 (11B)	E	ØF	
			ISO	BPE	SMS	DIN		ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN				NC	NO
05 125	32	mm	38.4	-	31.3	32	318	301	-	299.5	299.5	309.5	-	308	308	279.5	288	180	156	158
		(in)	1.512	-	1.232	1.260	12.520	11.850	-	11.791	11.791	12.185	-	12.126	12.126	11.004	11.339	7.087	6.142	6.220
	40	mm	44.3	34.8	35.6	38	321	308	308	308	308	316.5	317	317	317	283	291.5	200	156	158
		(in)	1.744	1.370	1.402	1.496	12.638	12.126	12.126	12.126	12.126	12.461	12.461	12.461	11.142	11.476	7.874	6.142	6.220	
	50	mm	56.3	47.5	48.6	50	353.5	321.5	321.5	321.5	321.5	330	330	330	330	291	299.5	230	156	158
		(in)	2.217	1.870	1.913	1.969	13.917	12.657	12.657	12.657	12.657	12.992	12.992	12.992	11.457	11.791	9.055	6.142	6.220	
	65	mm	72.1	-	-	-	396	346.5	-	-	-	355	-	-	-	307.5	316	290	156	158
		(in)	2.839	-	-	-	15.591	13.642	-	-	-	13.976	-	-	-	12.106	12.441	11.417	6.142	6.220
	05 125	32	mm	F1	G	ØH				J				K				Weight ⁽¹⁾		
			(in)	(NAMUR)		ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	ISO	BPE	SMS	DIN	kg	(Lbs)	
		40	mm	175	97	42.4	-	33.7	35	2	-	1	2	-	-	8	16	5.6		
			(in)	6.890	3.819	1.669	-	1.327	1.378	0.079	-	0.047	0.059	-	-	0.315	0.630	12.3		
50		mm	175	97	48.3	38.1	38	41	2	2	1	2	8	8	7	16	6.7	kg		
		(in)	6.890	3.819	1.902	1.500	1.496	1.614	0.079	0.065	0.047	0.059	0.315	0.315	0.276	0.630	14.8	(Lbs)		
65		mm	175	97	60.3	50.8	51	53	2	1.65	1.2	1.5	-	7	7	16	7.6	kg		
		(in)	6.890	3.819	2.374	2.000	2.008	2.087	0.079	0.065	0.047	0.059	-	0.276	0.276	0.630	16.8	(Lbs)		
65		mm	175	97	76.1	-	-	-	2	-	-	-	9.5	-	-	-	9.9	kg		
		(in)	6.890	3.819	2.996	-	-	-	0.079	-	-	-	0.374	-	-	-	21.8	(Lbs)		

⁽¹⁾ Weight of valve without pilot.
For solenoid pilot valve, see dedicated catalog pages.