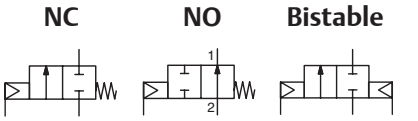
ASCO™ Pneumatic Angle Seat Valves

2-way, Pressure Operated, Bronze Body
Plastic Actuator, 1/2" to 2 1/2" Tapped

2/2
Series
290

Features and Benefits

- *Suitable for broad range of industrial machines and manufacturing process. High reliability, long service life and exceptional and repeatable tight shutoff*
- *Adjustable actuator enables 360° access to pilot port*
- *Modular design provides exceptional flexibility*
- *Large piloting orifice and low hysteresis creates fast cycle times*
- *Anti-water hammer design and back pressure resistant*
- *Extensive range of actuators, options, certifications and accessories*
- *High performance, maintenance-free actuator and stuffing box*
- *Easy and fast maintenance without the need to remove valve body from pipework*





General

Differential pressure	See Specification section [1 bar =100 kPa]
Vacuum	10^{-2} mbar (10^{-2} Torr/mm Hg)
Maximum allowable pressure	16 bar (240 psi)
Ambient temperature range	-10°C to +60°C (14°F to 140°F)
Maximum viscosity	800 cSt (mm²/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 DN 65: air and gas group 2 All DN: liquids and steam groups 1 and 2	-10°C to +184°C (14°F to 360°F) steam ≤ 184°C/360°F	PTFE

Materials of components in contact with fluid

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

Body	Bronze
Stuffing box housing	Brass
Stem	Stainless steel AISI 431
Disc	Brass / Stainless steel
Disc seal	PTFE
Wiper seal	FPM
Stuffing box packing	PTFE
Valve body seal	PTFE

Other components

Actuator	Glass fiber filled PA
Optical position indicator	PA 12

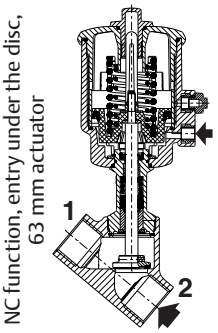
Certifications and Approvals

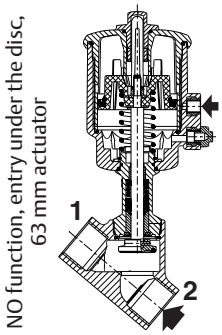
- Pressure Equipment Directive 2014/68/EU, Category 1 (DN > 25) or article 4.3 (DN ≤ 25)
- Functional Safety of Machinery: EN ISO 13849-1
- Reach compliant
- IEC 61508 Standard (2010 route 2_H version) certified with integrity levels: SIL 2 for HFT = 0
- Valves satisfy all relevant EU and EAC directives

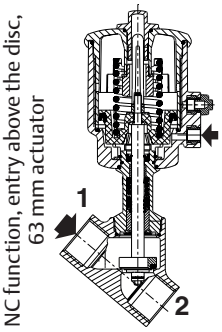
Options (2)

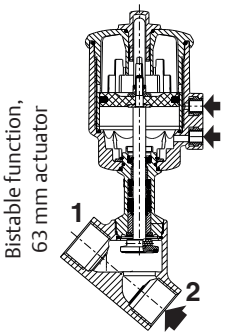
- Oxygen service pressure limited to 15 bar (220 psi), ambient and media temperatures limited to +60°C (140°F)
- Explosive atmospheres, ATEX and IECEx compliant
- Medium vacuum service up to 10^{-3} mb (10^{-3} Torr)
- Visual position indicator for 50 mm actuator (standard position indicators for other actuator sizes)
- EN 161/EN 16678 compliant versions (see dedicated catalog pages)
- Pilots (see dedicated catalog pages)
- Large range of switch boxes and digital positioners (see dedicated catalog pages)

(1) The minimum ambient temperature of the valve is determined by the limitations of minimum temperature indicated.
(2) See Choice of options and accessories (page 8)









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Specifications

Piping (ISO 6708)		Flow coefficient Kv (Cv)		Pilot pressure bar (psi)		Operating pressure differential bar (psi)			Actuator diameter	Dimensions / Type (1)	Catalog number	
Pipe size	DN	m³/h (gal/min)	(l/min)	Min.	Max.	Air, inert gas (✶)	Water, oil, liquids (✶)	Steam (✶)	(mm)		Thread type (G*)	Thread type (NPTF)
NC - Normally closed, entry under the disc												
1/2"	15	5.8 (6.7)	96	4.5 (70)	10 (150)	16 (240)	16 (240)	10 (150)	50	01	E290D0230DA0000	8290D0240DA0000
				2.8 (45)					63	02	E290D0250DA0000	8290D0260DA0000
3/4"	20	10.7 (12.4)	178	4.5 (70)	10 (150)	10 (150)	10 (150)	10 (150)	50	01	E290D0330DA0000	8290D0340DA0000
						16 (240)	16 (240)	10 (150)	63	02	E290D0350DA0000	8290D0360DA0000
				2.8 (45)		12 (180)	12 (180)	10 (150)	63	02	E290D7350DA0000	8290D7360DA0000
1"	25	15.5 (18)	258	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	50	01	E290D0430DA0000	8290D0440DA0000
		17.7 (20.5)	295			10 (150)	10 (150)	10 (150)	63	02	E290D0450DA0000	8290D0460DA0000
		17.8 (20.6)	296			16 (240)	16 (240)	10 (150)	90	03	E290D04B0DA0000	8290D04C0DA0000
		17.7 (20.5)	295	2.8 (45)		6 (90)	6 (90)	6 (90)	63	02	E290D7450DA0000	8290D7460DA0000
		17.8 (20.6)	296			12 (180)	12 (180)	10 (150)	90	03	E290D74B0DA0000	8290D74C0DA0000
1 1/4"	32	25.2 (29.2)	420	4.5 (70)	10 (150)	6 (90)	6 (90)	6 (90)	63	02	E290D0550DA0000	8290D0560DA0000
		26.2 (30.4)	436			12 (180)	12 (180)	10 (150)	90	03	E290D05B0DA0000	8290D05C0DA0000
		26.2 (30.4)	436	2.8 (45)		7 (105)	7 (105)	7 (105)	90	01	E290D75B0DA0000	8290D75C0DA0000
		30.5 (35.4)	508	4 (60)		16 (240)	16 (240)	10 (150)	125	04	E290D05H0DA0000	8290D05J0DA0000
1 1/2"	40	38.3 (44.4)	638	4.5 (70)	10 (150)	4 (60)	4 (60)	4 (60)	63	02	E290D0650DA0000	8290D0660DA0000
		40.4 (46.9)	673			8 (120)	8 (120)	8 (120)	90	03	E290D06B0DA0000	8290D06C0DA0000
		46.1 (53.5)	768	4 (60)		16 (240)	16 (240)	10 (150)	125	04	E290D06H0DA0000	8290D06J0DA0000
		40.4 (46.9)	673	2.8 (45)		4 (60)	4 (60)	4 (60)	90	03	E290D76B0DA0000	8290D76C0DA0000
		46.1 (53.5)	768	2.5 (40)		10 (150)	10 (150)	10 (150)	125	04	E290D76H0DA0000	8290D76J0DA0000
2"	50	51.4 (59.7)	857	4,5 (70)	10 (150)	2.5 (40)	2.5 (40)	2.5 (40)	63	02	E290D0750DA0000	8290D0760DA0000
		54.9 (63.7)	915			6 (90)	6 (90)	6 (90)	90	03	E290D07B0DA0000	8290D07C0DA0000
		67.7 (78.5)	1128	4 (60)		10 (150)	10 (150)	10 (150)	125	04	E290D07H0DA0000	8290D07J0DA0000
		67.7 (78.5)	1128	2.5 (40)		5 (75)	5 (75)	5 (75)	125	04	E290D77H0DA0000	8290D77J0DA0000
2 1/2"	65	94 (109)	1566	4.5 (70)	10 (150)	2 (30)	2 (30)	2 (30)	90	03	E290D08B0DA0000	8290D08C0DA0000
		111 (128.8)	1850	4 (60)		6 (90)	6 (90)	6 (90)	125	04	E290D08H0DA0000	8290D08J0DA0000

(✶) Ensure that compatibility of materials in contact with fluids is verified.
(1) For dimensions, see drawing(s) for each construction type on the following page(s).

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ASCO™ Pneumatic Angle Seat Valves

Specifications

Piping (ISO 6708)		Flow coefficient Kv (Cv)		Pilot pressure bar (psi)		Operating pressure differential bar (psi)			Actuator diameter	Dimensions / Type (1)	Catalog number	
Pipe size	DN	m³/h (gal/min)	(l/min)	Min.	Max.	Air, inert gas (✶)	Water, oil, liquids (✶)	Steam (✶)	(mm)		Thread type (G*)	Thread type (NPTF)
NO - Normally open, entry under the disc												
1/2”	15	5.8 (6.7)	96	I (✶)	10 (150)	16 (240)	16 (240)	10 (150)	50	01	**E290D1230DA0000**	**8290D1240DA0000**
				II (✶)		16 (240)	16 (240)	10 (150)	63	02	**E290D1250DA0000**	**8290D1260DA0000**
3/4”	20	10.7 (12.4)	178	I (✶)	10 (150)	16 (240)	16 (240)	10 (150)	50	01	**E290D1330DA0000**	**8290D1340DA0000**
				II (✶)		16 (240)	16 (240)	10 (150)	63	02	**E290D1350DA0000**	**8290D1360DA0000**
1”	25	15.5 (18)	258	I (✶)	10 (150)	16 (240)	16 (240)	10 (150)	50	01	**E290D1430DA0000**	**8290D1440DA0000**
		17.7 (20.5)	295	II (✶)		16 (240)	16 (240)	10 (150)	63	02	**E290D1450DA0000**	**8290D1460DA0000**
		17.8 (20.6)	296	III (✶)		16 (240)	16 (240)	10 (150)	90	03	**E290D14B0DA0000**	**8290D14C0DA0000**
1 1/4”	32	25.2 (29.2)	420	II (✶)	10 (150)	16 (240)	16 (240)	10 (150)	63	02	**E290D1550DA0000**	**8290D1560DA0000**
		26.2 (30.4)	436	III (✶)		16 (240)	16 (240)	10 (150)	90	03	**E290D15B0DA0000**	**8290D15C0DA0000**
		30.5 (35.4)	508	IV (✶)		16 (240)	16 (240)	10 (150)	125	04	**E290D15H0DA0000**	**8290D15J0DA0000**
1 1/2”	40	38.3 (44.4)	638	II (✶)	10 (150)	11 (165)	11 (165)	10 (150)	63	02	**E290D1650DA0000**	**8290D1660DA0000**
		40.4 (46.9)	673	III (✶)		16 (240)	16 (240)	10 (150)	90	03	**E290D16B0DA0000**	**8290D16C0DA0000**
		46.1 (53.5)	768	IV (✶)		16 (240)	16 (240)	10 (150)	125	04	**E290D16H0DA0000**	**8290D16J0DA0000**
2”	50	51.4 (59.7)	857	II (✶)	10 (150)	7 (105)	7 (105)	7 (105)	63	02	**E290D1750DA0000**	**8290D1760DA0000**
		54.9 (63.7)	915	III (✶)		13 (200)	13 (200)	10 (150)	90	03	**E290D17B0DA0000**	**8290D17C0DA0000**
		67.7 (78.5)	1128	IV (✶)		16 (240)	16 (240)	10 (150)	125	04	**E290D17H0DA0000**	**8290D17J0DA0000**
2 1/2”	65	94 (109)	1566	III (✶)	10 (150)	7 (105)	7 (105)	7 (105)	90	03	**E290D18B0DA0000**	**8290D18C0DA0000**
		111 (128.8)	1850	IV (✶)		16 (240)	16 (240)	10 (150)	125	04	**E290D18H0DA0000**	**8290D18J0DA0000**

(✶) Ensure that compatibility of materials in contact with fluids is verified.
(*) Minimum pilot pressure varies with differential pressure, see page 7
(1) For dimensions, see drawing(s) for each construction type on the following page(s).

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Specifications

Piping (ISO 6708)		Flow coefficient Kv (Cv)		Pilot pressure bar (psi)		Operating pressure differential bar (psi)			Actuator diameter	Dimensions / Type (1)	Catalog number	
Pipe size	DN	m³/h (gal/min)	(l/min)	Min.	Max.	Air, inert gas (∗)	Water, oil, liquids (∗)	Steam (∗)	(mm)		Thread type (G*)	Thread type (NPTF)
NC - Normally closed, entry above the disc (version recommended for rapid-cycling steam applications)												
1/2”	15	5.1 (5.9)	85	V (∗)	10 (150)	10 (150)	-	10 (150)	50	01	E290D3230DA0000	8290D3240DA0000
		6.1 (7.1)	101	VI (∗)		10 (150)	-	10 (150)	63	02	E290D3250DA0000	8290D3260DA0000
3/4”	20	10.3 (11.9)	171	V (∗)	10 (150)	10 (150)	-	10 (150)	50	01	E290D3330DA0000	8290D3340DA0000
		11 (12.8)	183	VI (∗)		10 (150)	-	10 (150)	63	02	E290D3350DA0000	8290D3360DA0000
1”	25	14.6 (16.9)	243	V (∗)	10 (150)	10 (150)	-	10 (150)	50	01	E290D3430DA0000	8290D3440DA0000
		18.4 (21.3)	306	VI (∗)		10 (150)	-	10 (150)	63	02	E290D3450DA0000	8290D3460DA0000
		19 (22)	316	VII (∗)		10 (150)	-	10 (150)	90	03	E290D34B0DA0000	8290D34C0DA0000
1 1/4”	32	30.7 (35.6)	511	VI (∗)	10 (150)	10 (150)	-	10 (150)	63	02	E290D3550DA0000	8290D3560DA0000
		31 (36)	516	VII (∗)		10 (150)	-	10 (150)	90	03	E290D35B0DA0000	8290D35C0DA0000
1 1/2”	40	43.9 (50.9)	731	VI (∗)	10 (150)	10 (150)	-	10 (150)	63	02	E290D3650DA0000	8290D3660DA0000
		45 (52.2)	750	VII (∗)		10 (150)	-	10 (150)	90	03	E290D36B0DA0000	8290D36C0DA0000
2”	50	58 (67.3)	966	VI (∗)	10 (150)	9 (135)	-	9 (135)	63	02	E290D3750DA0000	8290D3760DA0000
		59 (68.4)	983	VII (∗)		10 (150)	-	10 (150)	90	03	E290D37B0DA0000	8290D37C0DA0000
2 1/2”	65	94 (109)	1566	VII (∗)	10 (150)	10 (150)	-	10 (150)	90	03	E290D38B0DA0000	8290D38C0DA0000
		111 (128.8)	1850	VIII (∗)		10 (150)	-	10 (150)	125	04	E290D38H0DA0000	8290D38J0DA0000
Bistable function (version recommended for high fast cycling)												
1/2”	15	5.8 (6.7)	96	X (∗)	8 (120)	10 (150)	10 (150)	-	50	01	E290D4230DA0000	8290D4240DA0000
				XI (∗)	8 (120)	10 (150)	10 (150)	-	63	02	E290D4250DA0000	8290D4260DA0000
3/4”	20	10.7 (12.4)	178	X (∗)	8 (120)	10 (150)	10 (150)	-	50	01	E290D4330DA0000	8290D4340DA0000
				XI (∗)	8 (120)	10 (150)	10 (150)	-	63	02	E290D4350DA0000	8290D4360DA0000
1”	25	15.5 (18)	258	X (∗)	8 (120)	10 (150)	10 (150)	-	50	01	E290D4430DA0000	8290D4440DA0000
		17.7 (20.5)	295	XI (∗)	8 (120)	10 (150)	10 (150)	-	63	02	E290D4450DA0000	8290D4460DA0000

(∗) Ensure that compatibility of materials in contact with fluids is verified.
(∗) Minimum pilot pressure varies with differential pressure, see page 7
(1) For dimensions, see drawing(s) for each construction type on the following page(s).

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ASCO™ Pneumatic Angle Seat Valves

Product selection guide

Configurator - CAD Files

PRODUCT CODE

E	290	D	0	3	5	0	D	A00	00

Connection type
E = ISO 228/1 & ISO 7/1 (combination thread, G*)
8 = NPTF (ANSI B 1.20.3)
J = ISO 7/1 «Rc»

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
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
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)

(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)
W0B = Without body (1)
AT1 = ATEX/IECEx 1/21 zones (1)
AT0 = ATEX/IECEx 0/20 zones (1)
02S = Oxygen service 15 bar / 60°C
125 = CUTR 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)
WSP = PTFE wiper seal
WSF = FPM piston seal
11B = Manual safety device (1)
V10 = Visual indicator (2)
SSF = Stainless steel insert for plastic actuator

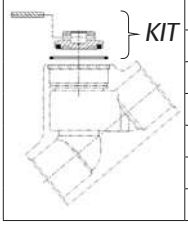
Valve body material
D = Bronze body

Port type 1 and 2
0 = Threaded port

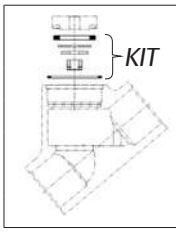
(1) See “Choice of options and accessories”, pages **8** and **9**
(2) For 50 mm actuator (standard for 63 mm, 90 mm and 125 mm actuators)

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Repair Kits and Service Parts

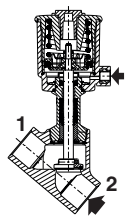
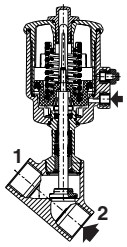
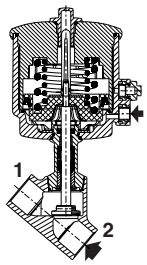
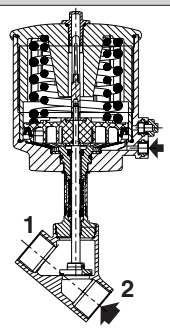
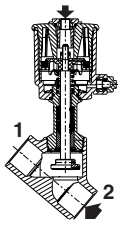
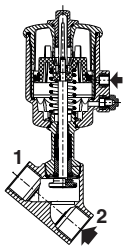
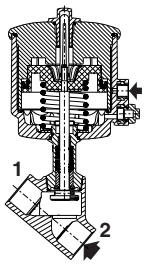
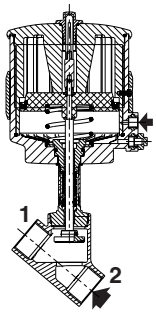
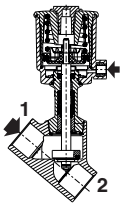
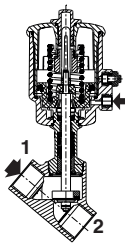
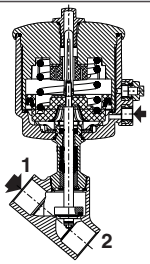
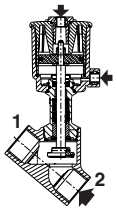
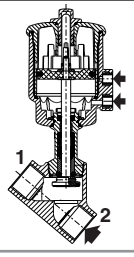


DN	Spare parts kits no. 50-63-90-125 mm entry under the disc	
	Normally Closed	Normally Open + Double Acting (bistable)
15	M29054935101500	M29054935104500
20	M29054935101600	M29054935104600
25	M29054935101700	M29054935104700
32	M29054935101800	M29054935104800
40	M29054935101900	M29054935104900
50	M29054935102000	M29054935105000
65	M29054935102100	M29054935105100



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

View showing the function / actuator / flow direction

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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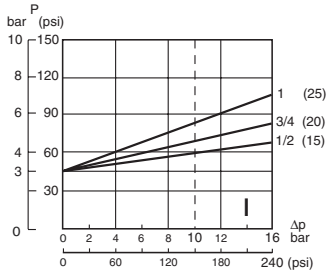
ASCO™ Pneumatic Angle Seat Valves

Selection of the minimum pilot pressure

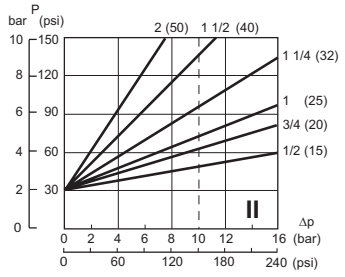
NO - Normally open, entry under the disc

Min. pilot pressure

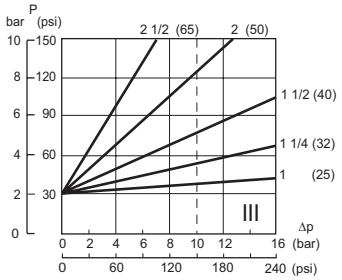
50 mm actuator



63 mm actuator

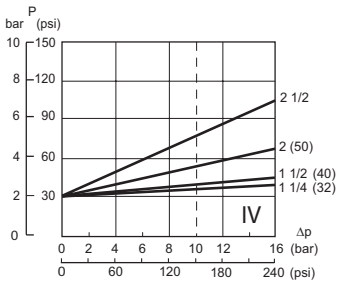


90 mm actuator



Min. pilot pressure

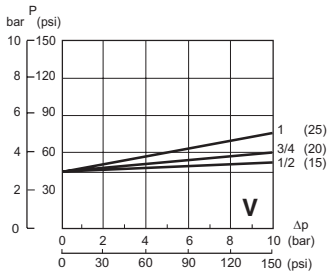
125 mm actuator



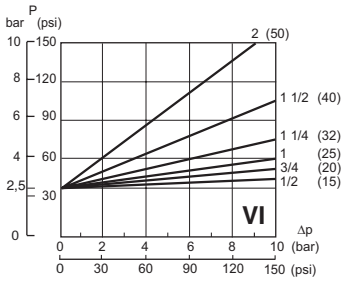
NC - Normally closed, entry above the disc

Min. pilot pressure

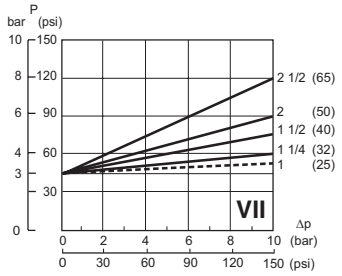
125 mm actuator



63 mm actuator

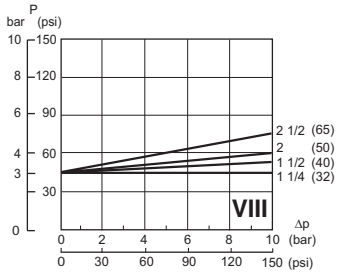


90 mm actuator



Min. pilot pressure

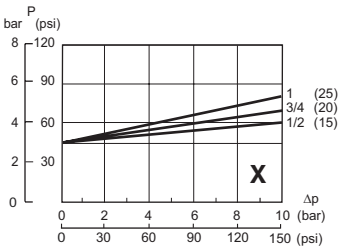
125 mm actuator



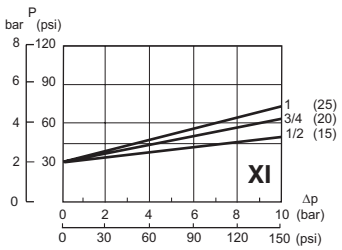
Bistable function

Min. pilot pressure

125 mm actuator



63 mm actuator



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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
- Pipe connections (G*) have standard combination thread according to ISO 228/1 and ISO 7/1
- Thread connection (NPTF) has a standard thread according to ANSI B 1.20.3
- Thread connection (Rc) has a standard thread according to ISO 7/1
- Pilot thread connection (G) or (NPTF) has a standard thread according to ISO 228/1 or ANSI B 1.20.3
- Installation/maintenance instructions in multiple languages are available on our website

Choice of options and accessories

Options	NC Fluid entry under the disc	NO Fluid entry under the disc	NC Fluid entry above the disc	- Bistable function	Actuator diameter compatibility (mm)			
					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			Ⓔx II 1G Ex h IIC T* Ga Ⓔx II 1D Ex h IIIC T*°C Da

1GD		Plastic actuator	
T*°C	T*	Ts amb	T fluid
300°C	T2	-	-
200°C	T3	60°C	145°C
135°C	T4	60°C	93°C
100°C	T5	60°C	65°C
85°C	T6	60°C	53°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			Ⓔx II 2G Ex h IIC T* Gb X Ⓔx II 2D Ex h IIIC T*°C Db X

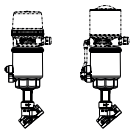
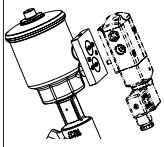
2GD		Plastic actuator	
T*°C	T*	Ts amb	T fluid
300°C	T2	-	-
200°C	T3	60°C	180°C
135°C	T4	60°C	115°C
100°C	T5	60°C	80°C
85°C	T6	60°C	60°C

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

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ASCO™ Pneumatic Angle Seat Valves

Choice of options and accessories

Options	NC Fluid entry under the disc	NO Fluid entry under the disc	NC Fluid entry above the disc	- Bistable function	Actuator diameter compatibility (mm) 50	63	90	125	
PFB	●	●	●	–	●	●	●	●	 Prepared for signaling box mounting
-	●	●	●	–	●	●	●	●	 **See the dedicated catalogue pages** • The signaling box fits on compatible actuators to indicate whether the valve is open or closed
-	●	●	●	–	●	●	●	●	 **See the dedicated catalogue pages** • Signaling unit with reed switch or magneto-resistive (MR) detectors for compatible actuators
W0B	●	●	●	●	●	●	●	●	 Without Body
02S	●	●	●	●	●	●	●	●	 **Oxygen service** • Special grease and cleaning • Pressure limited to 15 bar/temperature limited to +60°C
See page 5	●	●	●	●	–	●	●	●	 **Adapter plate for NAMUR pad-mount pilot** • Adaptable on 63 mm, 90 mm and 125 mm actuators • Stainless steel AISI 316L • Solenoid pilot valves, series 551, 3/2 NC: - Aluminum body, catalog number **SCG551A001** - AISI 316L stainless steel body, catalog number **SCG551A409**
STL	●	–	●	–	●	●	●	●	 Stroke limiter for opening
TC6	●	●	●	●	●	●	●	●	Test tightness class VI (FCI 70-2)
VAC	●	●	–	–	●	●	●	●	 Industrial vacuum 10^{-3} mbar (FPM disc)
WSP	●	●	●	–	●	●	●	●	PTFE wiper seal (for filtered / cleaned medium)
WSF	●	●	●	–	●	●	●	–	FPM piston seal
11B	●	–	●	–	●	●	●	●	 Manual safety device • Allows opening of a de-energized valve • For normally closed (NC) valves only (under/above the disc)
V10	●	–	●	–	● (NC)	(1)	(1)	(1)	 Visual position indicator (1) • Visual indication of open or closed position for NC valves with 50 mm actuator (1) Standard indicator for 63 mm, 90 mm and 125 mm actuators

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

• Available feature - Not available

Choice of pilots

(For information about pilots, please consult the dedicated catalog pages)

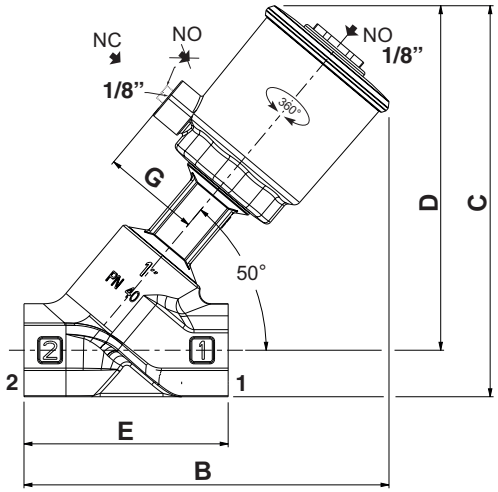
01532GB-2021/R01
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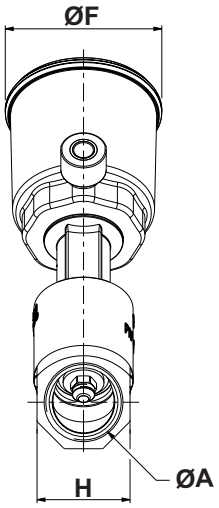
Dimensions mm (inches), **Weight** kg (Lbs)

Configurator - CAD Files

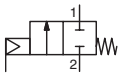


TYPE 01
50 mm actuator
Fluid entry:
under the disc at 2
above the disc at 1

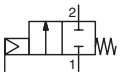




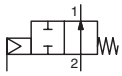
NC
entry
under the disc at 2



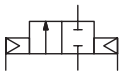
NC
entry
above the disc at 1



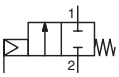
NO
entry
under the disc at 2



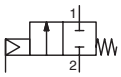
Bistable
entry under the
disc at 2



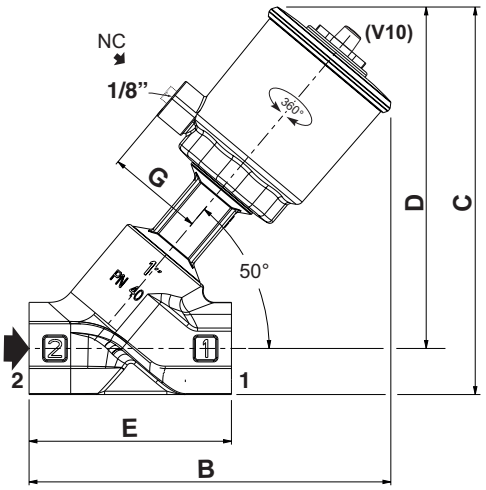
2 x 1/8"
orifices for piloting

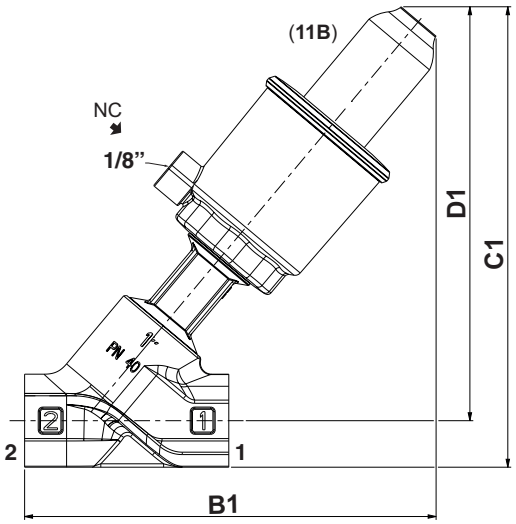


Visual indicator (**V10**)
(NC only)



Manual safety device (**11B**)
(NC only)





Type	Actuator diameter	ØA		B	B1	C	C1	D	D1	E	ØF	G	H	Weight (1)	
01	50 mm	G* 1/2"	mm	147.5	168	156.5	187	143	173.5	65	69	43	27	0.8	kg
		NPTF 1/2"	(in)	5.807	6.614	6.161	7.362	5.630	6.831	2.559	2.717	1.693	1.063	1.8	(Lbs)
		G* 3/4"	mm	151.5	172	160	191	144	174.5	75	69	43	32	0.9	kg
		NPTF 3/4"	(in)	5.965	6.772	6.299	7.520	5.669	6.870	2.953	2.717	1.693	1.260	2.0	(Lbs)
		G* 1"	mm	161	181.5	172.5	203	152	182.5	90	69	43	41	1.2	kg
		NPTF 1"	(in)	6.339	7.146	6.791	7.992	5.984	7.185	3.543	2.717	1.693	1.614	2.6	(Lbs)

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

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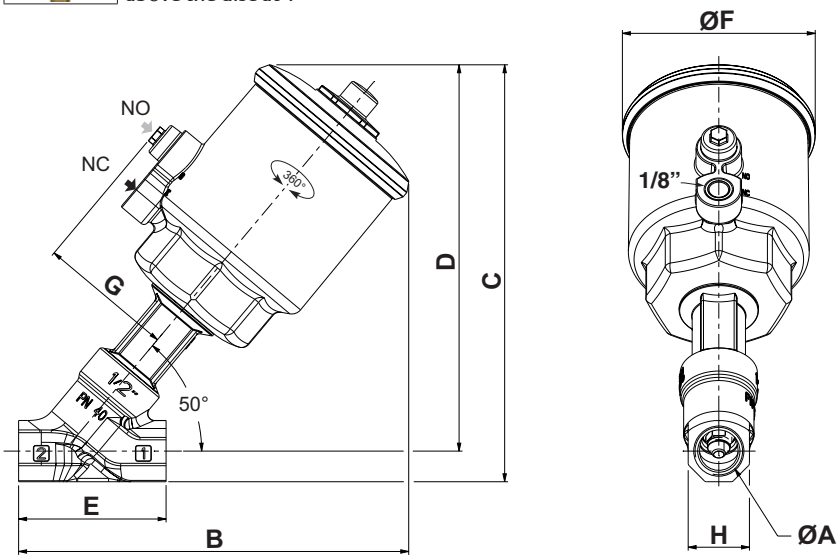
ASCO™ Pneumatic Angle Seat Valves

Dimensions mm (inches), Weight kg (Lbs)

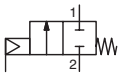
Configurator - CAD Files



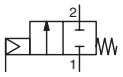
TYPE 02
63 mm actuator
Fluid entry:
under the disc at 2
above the disc at 1



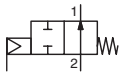
NC
entry
under the disc at 2

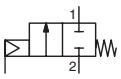


NC
entry
above the disc at 1

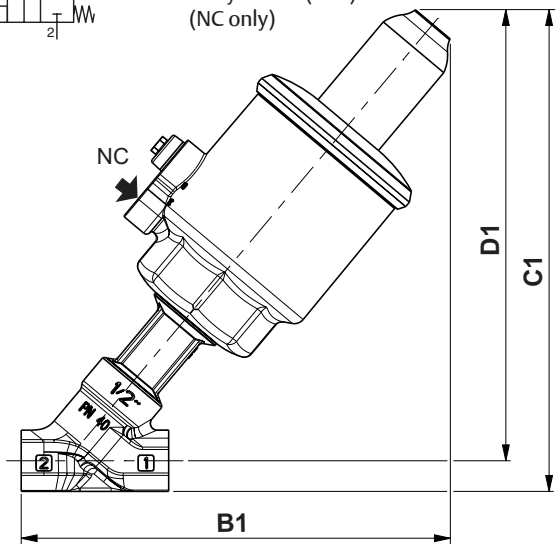


NO
entry
under the disc at 2

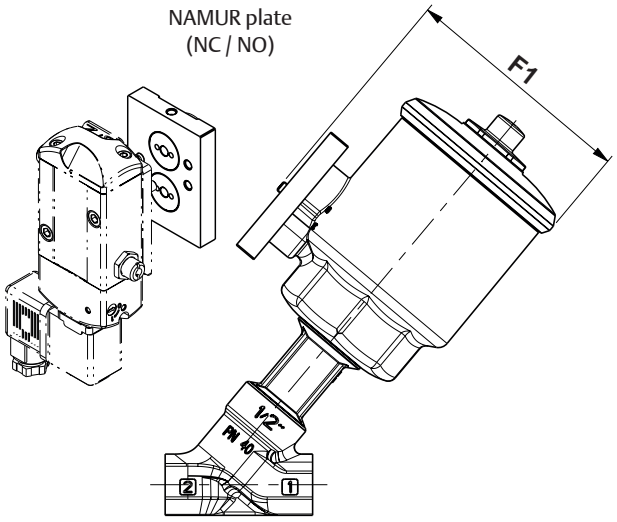




Manual safety device (**11B**)
(NC only)



NAMUR plate
(NC / NO)



Type	Actuator diameter	ØA		B	B1	C	C1	D	D1	E	ØF	F1	G	H	Weight (1)	
02	63 mm	G* 1/2"	mm	172	189.5	184	212.5	170.5	199	65	85	104	59.5	27	1	kg
		NPTF 1/2"	(in)	6.772	7.461	7.244	8.366	6.713	7.835	2.559	3.346	4.094	2.343	1.063	2.2	(Lbs)
		G* 3/4"	mm	176	193.5	187	215.5	171	199.5	75	85	104	59.5	32	1.1	kg
		NPTF 3/4"	(in)	6.929	7.618	7.362	8.484	6.732	7.854	2.953	3.346	4.094	2.343	1.260	2.4	(Lbs)
		G* 1"	mm	185.5	203	199.5	228	179	207.5	90	85	104	59.5	41	1.5	kg
		NPTF 1"	(in)	7.303	7.992	7.854	8.976	7.047	8.169	3.543	3.346	4.094	2.343	1.614	3.3	(Lbs)
		G* 1 1/4"	mm	206	223.5	215.5	244	190.5	219	110	85	104	59.5	50	1.9	kg
		NPTF 1 1/4"	(in)	8.110	8.799	8.484	9.606	7.500	8.622	4.331	3.346	4.094	2.343	1.969	4.2	(Lbs)
		G* 1 1/2"	mm	206	223.5	222.5	251	192.5	221	120	85	104	59.5	60	2.5	kg
		NPTF 1 1/2"	(in)	8.110	8.799	8.760	9.882	7.579	8.701	4.724	3.346	4.094	2.343	2.362	5.5	(Lbs)
		G* 2"	mm	229	246.5	234.5	263	199.5	228	150	85	104	59.5	70	3.3	kg
		NPTF 2"	(in)	9.016	9.705	9.232	10.354	7.854	8.976	5.906	3.346	4.094	2.343	2.756	7.3	(Lbs)

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

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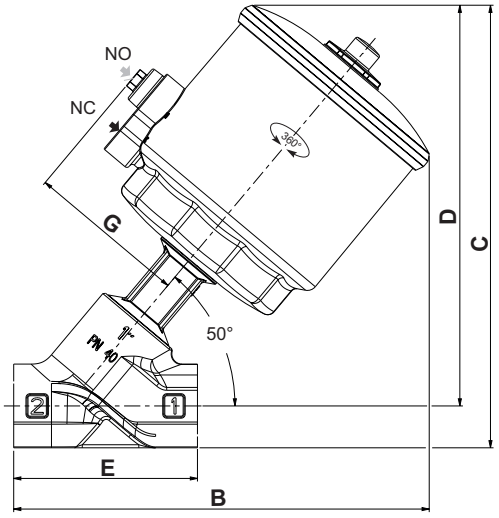
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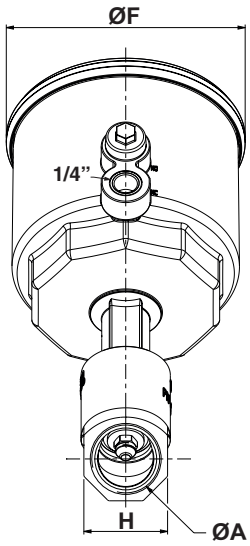
Dimensions mm (inches), **Weight** kg (Lbs)

Configurator - CAD Files

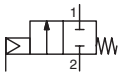


TYPE 03
90 mm actuator
Fluid entry:
under the disc at 2
above the disc at 1

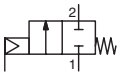




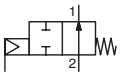
NC
entry under the disc at 2

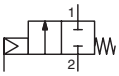


NC
entry above the disc at 1

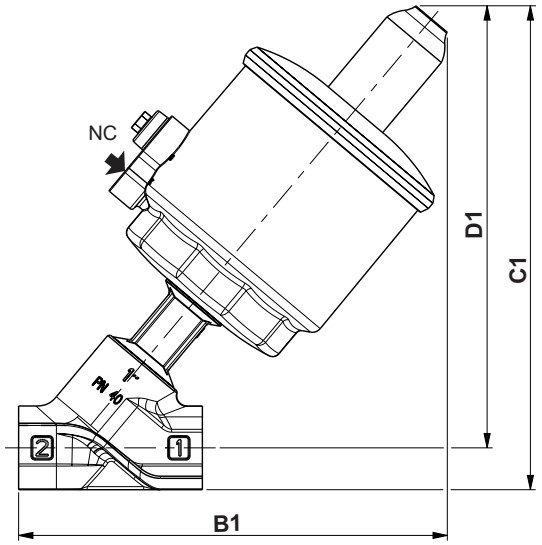


NO
entry under the disc at 2

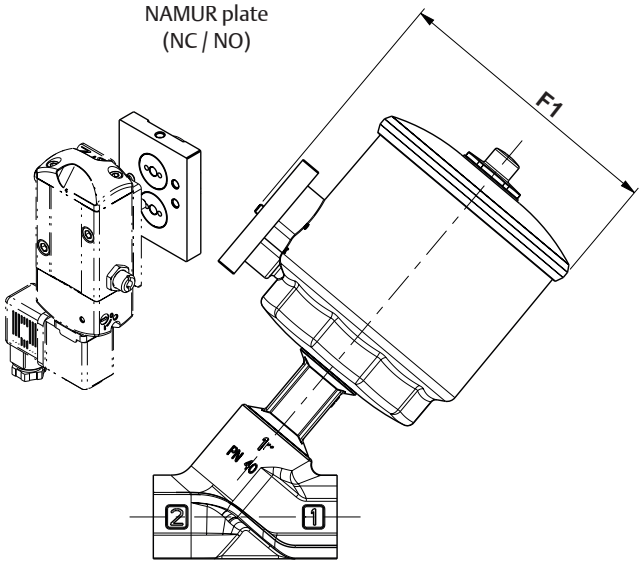




Manual safety device (**11B**)
(NC only)



NAMUR plate
(NC / NO)



Type	Actuator diameter	ØA		B	B1	C	C1	D	D1	E	ØF	F1	G	H	Weight (1)	
03	90 mm	G* 1"	mm	203.5	210	217	237	196.5	216.5	90	117	137	78.5	41	2.1	kg
		NPTF 1"	(in)	8.012	8.268	8.543	9.331	7.736	8.524	3.543	4.606	5.394	3.091	1.614	4.6	(Lbs)
		G* 1 1/4"	mm	224.5	231	233	233	253	228	110	117	137	78.5	50	2.5	kg
		NPTF 1 1/4"	(in)	8.839	9.094	9.173	9.961	8.189	8.976	4.331	4.606	5.394	3.091	1.969	5.5	(Lbs)
		G* 1 1/2"	mm	224	230.5	240	260	210	230	120	117	137	78.5	60	3.1	kg
		NPTF 1 1/2"	(in)	8.819	9.075	9.449	10.236	8.268	9.055	4.724	4.606	5.394	3.091	2.362	6.8	(Lbs)
		G* 2"	mm	247	253.5	251.5	271.5	216.5	236.5	150	117	137	78.5	70	3.9	kg
		NPTF 2"	(in)	9.724	9.980	9.902	10.689	8.524	9.311	5.906	4.606	5.394	3.091	2.756	8.6	(Lbs)
		G* 2 1/2"	mm	276	282.5	273	293	229.5	249.5	190	117	137	78.5	87	6.0	kg
		NPTF 2 1/2"	(in)	10.866	11.122	10.748	11.535	9.035	9.823	7.480	4.606	5.394	3.091	3.425	13.2	(Lbs)

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

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ASCO™ Pneumatic Angle Seat Valves

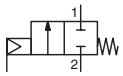
Dimensions mm (inches), Weight kg (Lbs)

Configurator - CAD Files

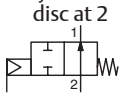


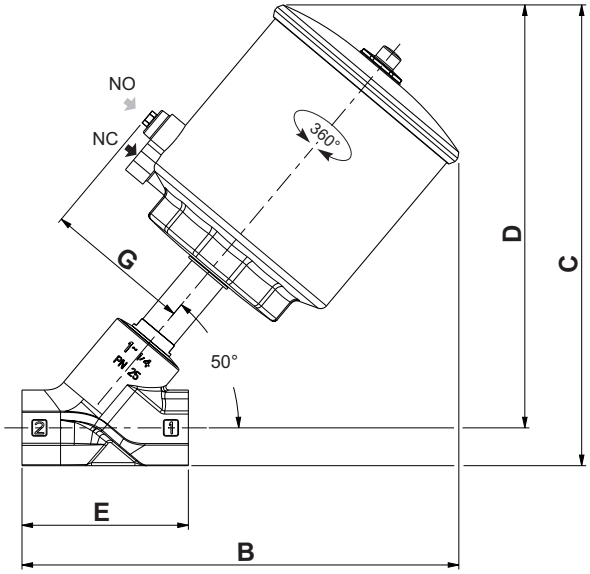
TYPE 04
125 mm actuator
Fluid entry:
under the disc at 2
above the disc at 1

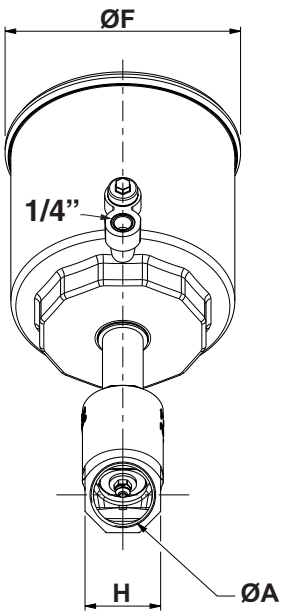
NC
entry under the disc at 2

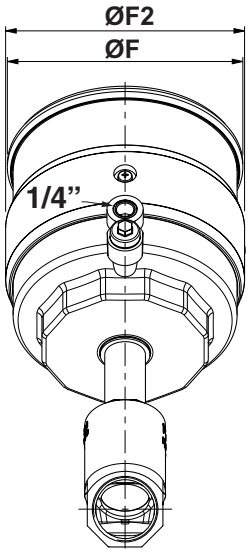


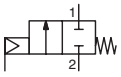
NO
entry under the disc at 2





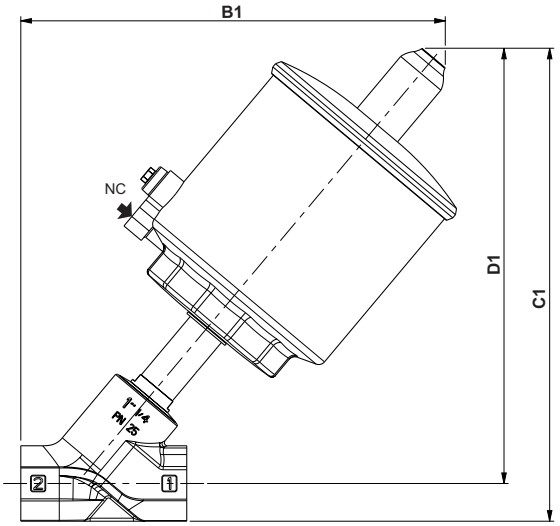


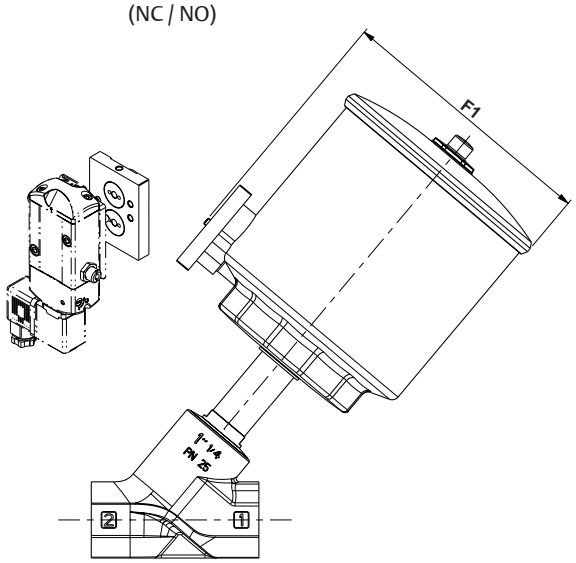




Manual safety device (**11B**)
(NC only)

NAMUR plate
(NC / NO)





Type	Actuator diameter	ØA		B	B1	C	C1	D	D1	E	ØF (NC/NO)	F1	ØF2 (NO)	G	H	Weight (1)	
04	125 mm	G* 1 1/4"	mm	289	281.5	305	313.5	280	288.5	110	156	175	158	97	50	5.5	kg
		NPTF 1 1/4"	(in)	11.378	11.083	12.008	12.343	11.024	11.358	4.331	6.142	6.890	6.220	3.819	1.969	12.1	(Lbs)
		G* 1 1/2"	mm	290	282.5	313	321.5	283	291.5	120	156	175	158	97	60	6 3	kg
		NPTF 1 1/2"	(in)	11.417	11.122	12.323	12.657	11.142	11.476	4.724	6.142	6.890	6.220	3.819	2.362	13.9	(Lbs)
		G* 2"	mm	314.5	307	327	335.5	292	300.5	150	156	175	158	97	70	7.2	kg
		NPTF 2"	(in)	12.382	12.087	12.874	13.209	11.496	11.831	5.906	6.142	6.890	6.220	3.819	2.756	15.9	(Lbs)
		G* 2 1/2"	mm	346	338.5	351	359.5	307.5	316	190	156	175	158	97	70	7.2	kg
		NPTF 2 1/2"	(in)	13.622	13.327	13.819	14.154	12.106	12.441	7.480	6.142	6.890	6.220	3.819	3.425	20.9	(Lbs)

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

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