ASCO™ Pneumatic Angle and Straight Seat Valves

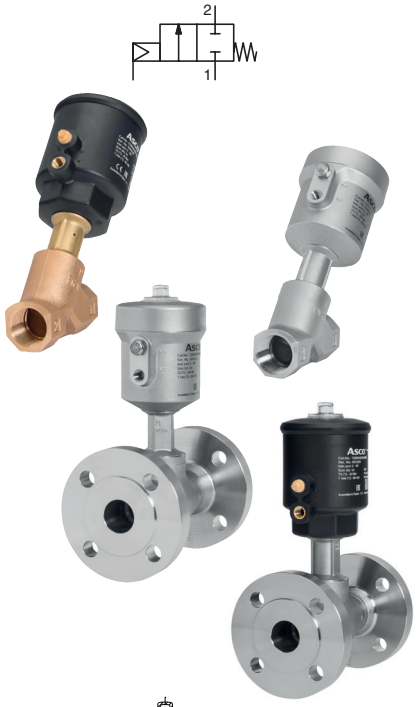
For Combustible Gases, Entry above the disc

2-way, Pressure Operated, 1/2" to 2", Tapped and Flanges Body

2/2 NC
Series
290

Features and Benefits

- *Valves for combustible gases with bronze or stainless steel body*
- *Valve satisfy the Pressure Equipment Directive 2014/68/EU and GAR regulation EU/2016/426 on gas appliances. These valves meet the NF EN 161/A3: 2013, NF EN 16678: 2016 and NF EN 13611 + A2: 2011 standards with EU type examination certificate no.: CERTIGAZ **1312DM6517***
- *Suitable for Class A, Group 2 service, gas families 1, 2 and 3*
- *High flow, with fluid entry above the disc*
- *High-performance, maintenance-free stuffing box*
- *Large piloting orifice and low hysteresis permit fast cycles*



General

Fluids	Temperature range (TS)	Disc seal (✶)
Gas family 1, 2, 3	-10°C to +60°C	PTFE

Differential pressure 0 to 10 bar (0 to 150 psi)[1 bar =100 kPa]
Time for closing / for opening 1 s max. with pilot solenoid valve directly connected to valve actuator

Note: Opening and closing times depend on using pilot valves that meet the requirements in the table below

Pilot fluid Air
Max. pilot pressure 9 bar (135 psi)
Min. pilot pressure See graph on page 6
Pilot fluid temperature -10°C to +60°C (14°F to 140°F)

Construction

Angle seat valve

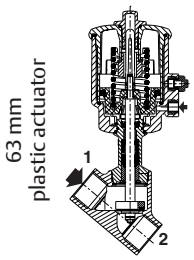
Thread connection 1/2" to 2" (DN 15 to 50)

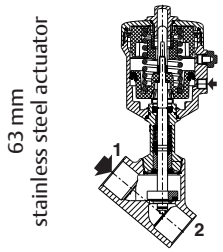
Straight seat valve

Connection Flanges PN40 (DN15 to DN25), PN 25 (DN 32 to DN 50) type 11 (ISO 7005 / EN 1092-1)
ANSI Class 150 ASME B16.5

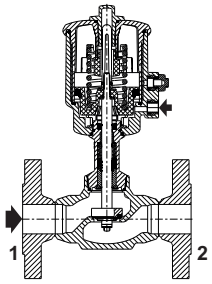
Face-to-face dimensions EN 558-1
Face de joint Type B

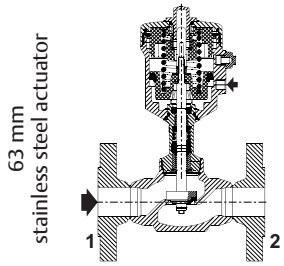
Angle seat valve





Straight seat valve





Materials of components in contact with fluid

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

	Bronze version	Stainless steel version
Body	Bronze	Stainless steel AISI 316L
Stuffing box housing	Brass	Stainless steel AISI 316L
Actuator pilot insert	Brass	Stainless steel AISI 316L
Stem	Stainless steel AISI 431	Stainless steel AISI 316L
Disc	Brass	Stainless steel AISI 316L
Disc seal	PTFE	PTFE
Wiper seal	FPM	FPM
Stuffing box packing	PTFE	PTFE
Valve body seal	PTFE	PTFE

Other components

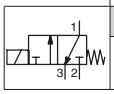
Actuator (63 mm)	Glass fiber filled PA	Glass fiber filled PA or Stainless steel AISI 316L
Optical position indicator	PA 12	PA 12

Certifications and Approvals

- Pressure Equipment Directive 2014/68/EU
- 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 only for stainless steel valve body

Pilot solenoid valve selection

- *Must meet European low voltage directive and electromagnetic compatibility requirements*
- *3/2 normally closed with non-locking item*

	Kv (m^3/h) min. (1) through pilot valve required to		Response time (ms) through pilot valve required to		Pilot valve recommended						
							15-DIGIT PRODUCT CODE				
									Voltage code		
	Close the valve	Open the valve	Close the valve	Open the valve	Designation	Thread type	Brass	Stainless steel	230 V /50-60 Hz	110 V /50 Hz (120 V / 60 Hz)	24 V /50-60 Hz
	356 pilot / NC - Normally closed (without manual operator)										
	0.04	0.04	10	7	356 G1/8 Ø1.6	G	**G356C135S19FM**	**G356C145S19FM**	**FH**	**F0**	**FQ**
						NPT	**8356C135S19FM**	**8356C145S19FM**	**FH**	**F0**	**FQ**

(1) Including pipe up to main valve.

Options (2)

- Explosive atmospheres, ATEX and IECEx compliant
- Large range of switch boxes certified
- Valve body material composition certificate 3.1only for stainless stee valve body
- Stroke limiter for opening

(2) See Choice of options and accessories (page 7)

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ASCO™ Pneumatic Angle and Straight Seat Valves

Specifications

Piping (ISO 6708)		Flow [air] (1)		Flow coefficient Kv (Cv)	Pilot pressure bar (psi)		Operating pressure differential (bar)		Actuator diameter	Thread type	Catalog number
Pipe size (G / NPTF)	DN	m^3/h	(l/min)	m^3/h (gal/min)	Min. (2)	Max.	NF EN 161 Max.	NF EN 16678 Max.	(mm)		
Bronze body											
Type 01 - Angle seat valve - NC - Normally closed, entry above disc											**Plastic actuator**
											With G 1/8 piloting connection
1/2”	15	43	720	6.1 (7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3250DEGA00**
3/4”	20	80	1340	11 (12.7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3350DEGA00**
1”	25	143	2390	18.4 (21.3)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3450DEGA00**
1 1/4”	32	260	4340	30.7 (35.6)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3550DEGA00**
1 1/2”	40	368	6130	43.9 (50.9)	7.5 (110)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3650DEGA00**
2”	50	486	8100	58 (67.2)	6 (90)	9 (135)	4 (60)	-	63	G*	**E290D3750DEGA00**
											With NPTF 1/8 piloting connection
1/2”	15	43	720	6.1 (7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3260DEGA00**
3/4”	20	80	1340	11 (12.7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3360DEGA00**
1”	25	143	2390	18.4 (21.3)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3460DEGA00**
1 1/4”	32	260	4340	30.7 (35.6)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3560DEGA00**
1 1/2”	40	368	6130	43.9 (50.9)	7.5 (110)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3660DEGA00**
2”	50	486	8100	58 (67.2)	6 (90)	9 (135)	4 (60)	-	63	NPTF	**8290D3760DEGA00**

(1) For inlet pressure = 8 bar and ΔP = 100 mb
(2) Minimum pilot pressure at maximum operating differential pressure.

Specifications

Piping (ISO 6708)		Flow [air] (1)		Flow coefficient Kv (Cv)	Pilot pressure bar (psi)		Operating pressure differential (bar)		Actuator diameter	Thread type	Catalog number	
Pipe size (G / NPTF)	DN						NF EN 161	NF EN 16678				
		m³/h	(l/min)	m³/h (gal/min)	Min. (2)	Max.	Max.	Max.	(mm)			
Stainless steel body												
Type 01 - Angle seat valve - NC - Normally closed, entry above disc											**Plastic actuator**	**Stainless steel actuator**
											With G 1/8 piloting connection	
1/2”	15	43	720	6.1 (7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3250SEGA00**	**E290D32T0SEGA00**
3/4”	20	80	1340	11 (12.7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3350SEGA00**	**E290D33T0SEGA00**
1”	25	143	2390	18.4 (21.3)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3450SEGA00**	**E290D34T0SEGA00**
1” 1/4	32	260	4340	30.7 (35.6)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3550SEGA00**	**E290D35T0SEGA00**
1” 1/2	40	368	6130	43.9 (50.9)	7.5 (110)	9 (135)	5 (75)	10 (150)	63	G*	**E290D3650SEGA00**	**E290D36T0SEGA00**
2	50	486	8100	58 (67.2)	6 (90)	9 (135)	4 (60)	-	63	G*	**E290D3750SEGA00**	**E290D37T0SEGA00**
											With NPTF 1/8 piloting connection	**With NPT 1/8 piloting connection**
1/2”	15	43	720	6.1 (7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3260SEGA00**	**8290D32U0SEGA00**
3/4”	20	80	1340	11 (12.7)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3360SEGA00**	**8290D33U0SEGA00**
1”	25	143	2390	18.4 (21.3)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3460SEGA00**	**8290D34U0SEGA00**
1 1/4”	32	260	4340	30.7 (35.6)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3560SEGA00**	**8290D35U0SEGA00**
1 1/2”	40	368	6130	43.9 (50.9)	7.5 (110)	9 (135)	5 (75)	10 (150)	63	NPTF	**8290D3660SEGA00**	**8290D36U0SEGA00**
2	50	486	8100	58 (67.2)	6 (90)	9 (135)	4 (60)	-	63	NPTF	**8290D3760SEGA00**	**8290D37U0SEGA00**
Type 02 - Straight seat valve - NC - Normally closed, entry above disc											**Plastic actuator**	**Stainless steel actuator**
											With G 1/8 piloting connection	
1/2”	15	43	720	3.8 (4.4)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	DIN	**T290D325DSEGA00**	**T290D32TDSEGA00**
3/4”	20	80	1340	7.4 (8.4)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	DIN	**T290D335DSEGA00**	**T290D33TDSEGA00**
1”	25	143	2390	13.1 (15.2)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	DIN	**T290D345DSEGA00**	**T290D34TDSEGA00**
1 1/4”	32	260	4340	19.7 (22.8)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	DIN	**T290D355DSEGA00**	**T290D35TDSEGA00**
1 1/2”	40	368	6130	26.8 (31)	7.5 (110)	9 (135)	5 (75)	10 (150)	63	DIN	**T290D365DSEGA00**	**T290D36TDSEGA00**
2	50	486	8100	40.3 (46.7)	6 (90)	9 (135)	4 (60)	-	63	DIN	**T290D375DSEGA00**	**T290D37TDSEGA00**
											With NPTF 1/8 piloting connection	**With NPT 1/8 piloting connection**
1/2”	15	43	720	3.8 (4.4)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	ANSI	**T290D326PSEGA00**	**T290D32UPSEGA00**
3/4”	20	80	1340	7.4 (8.4)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	ANSI	**T290D336PSEGA00**	**T290D33UPSEGA00**
1”	25	143	2390	13.1 (15.2)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	ANSI	**T290D346PSEGA00**	**T290D34UPSEGA00**
1 1/4”	32	260	4340	19.7 (22.8)	5.5 (80)	9 (135)	5 (75)	10 (150)	63	ANSI	**T290D356PSEGA00**	**T290D35UPSEGA00**
1 1/2”	40	368	6130	26.8 (31)	7.5 (110)	9 (135)	5 (75)	10 (150)	63	ANSI	**T290D366PSEGA00**	**T290D36UPSEGA00**
2	50	486	8100	40.3 (46.7)	6 (90)	9 (135)	4 (60)	-	63	ANSI	**T290D376PSEGA00**	**T290D37UPSEGA00**

(1) For inlet pressure = 8 bar and ΔP = 100 mb
(2) Minimum pilot pressure at maximum operating differential pressure.

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ASCO™ Pneumatic Angle and Straight Seat Valves

Product selection guide

PRODUCT CODE

E	290	D	3	3	5	0	D	EGA	00

Connection type
E = ISO 228/1 & ISO 7/1 (combination thread, G*)
8 = NPTF (ANSI B 1.20.3)
T = Flange

Product series
290

Revision letter
D = Initial release

Function
3 = Normally Closed - Above the disc

Nominal diameter
2 = DN 15 - 1/2”
3 = DN 20 - 3/4”
4 = DN 25 - 1”
5 = DN 32 - 1 1/4”
6 = DN 40 - 1 1/2”
7 = DN 50 - 2”

Actuator diameter - Piloting connections
5 = 63 mm plastic - G 1/8”
6 = 63 mm plastic - NPTF 1/8”
T = 63 mm stainless steel - G 1/8”
U = 63 mm stainless steel - NPT 1/8”

Options (1)
EGA = Gas certified (NF EN 161 and NF EN 16678)
AT1 = ATEX/IECEx 1/21 zones (1)
AT0 = ATEX/IECEx 0/20 zones (1)
PFB = Prepared for signaling box mounting (1)
125 = CUTR certification (EAC Ex 1/21 zones) for product
STL = Stroke limiter for opening (1)
SSF = AISI 316L stainless steel pilot insert for plastic actuator (1)
M31 = Stainless steel valve body material certificate 3.1 (1)
327 = Adaptater kit for pilot 327

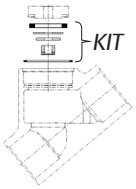
Valve body material
D = Bronze body
S = Stainless steel body

Port type 1-2
0 = Threaded port
D = Flange DIN EN 1092-1 (ISO 7005) standard
P = Flange ANSI standard 150

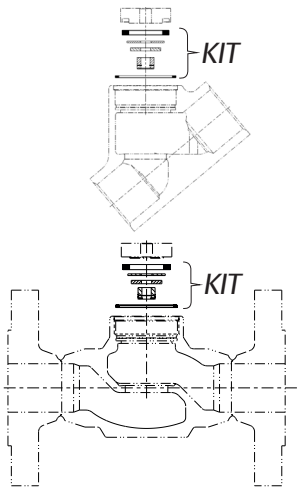
(1) See “Choice of options and accessories”, pages **7** to **9**

Repair Kits and Service Parts

Tapped body (bronze and stainless steel) and flanges body (stainless steel)



Ø	DN	Spare parts kits no. Plastic actuator
1/2”	15	M29054935100100
3/4”	20	M29054935100200
1”	25	M29054935100300
1 1/4”	32	M29054935100400
1 1/2”	40	M29054935100500
2	50	M29054935100600

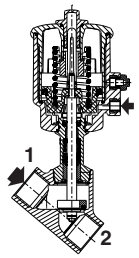
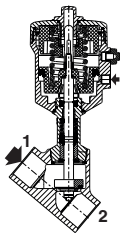
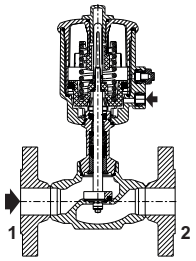
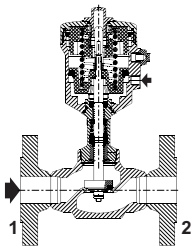


Ø	DN	Spare parts kits no. Stainless steel actuator
1/2”	15	M29054935100100
3/4”	20	M29054935100200
1”	25	M29054935100300
1 1/4”	32	M29054935100400
1 1/2”	40	M29054935100500
2	50	M29054935100600

View showing the function / actuator / flow direction

NC - Normally closed, entry above the disc

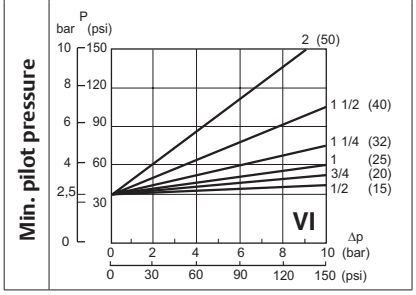
63 mm actuator

Angle seat valve		Straight seat valve	
Plastic actuator Bronze body	Stainless steel actuator Stainless steel body	Plastic actuator Stainless steel body	Stainless steel actuator Stainless steel body
			

Selection of the minimum of pressure

NC - Normally closed, entry above the disc

63 mm actuator



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ASCO™ Pneumatic Angle and Straight Seat Valves

Installation

- Install strainer upstream of valve with a mesh size less than 1.5 mm through which a 1 mm dia. rod cannot pass
- The valves can be mounted in any position without affecting operation
- Adjustable actuator enables 360° access to pilot port
- 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
- Pilot thread connection (G) or (NPTF) or (NPT) has a standard thread according to ISO 228/1 or ANSI B 1.20.3 or SAE 71051
- Installation/maintenance instructions in multiple languages are available on our website

Choice of options and accessories

Options	NC Fluid entry above the disc	Actuator diameter compatibility (mm) 63
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		Metallic actuator	
T*°C	T*	Ts amb	T fluid	Ts amb	T fluid
300°C	T2	-	-	80°C	220°C
200°C	T3	60°C	145°C	80°C	149°C
135°C	T4	60°C	93°C	80°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			Ⓔx II 2G Ex h IIC T* Gb X Ⓔ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	-	-	80°C	220°C
200°C	T3	60°C	180°C	80°C	184°C
135°C	T4	60°C	115°C	80°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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Choice of options and accessories

Options	NC Fluid entry above the disc	Actuator diameter compatibility (mm) 63	
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

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

Product selection guide - Signaling box

PRODUCT CODE

P	890	A	T	1	0	0	1	EGA	00

Connection type
P = No piloting connection

Product series
890 = Signaling units for air operated valves

Revision letter
A = Initial release

Enclosure type
T = Signaling box

Sensor type - Enclosure type
1 = Mechanical switch - Plastic/Transparent plastic cover
2 = Mechanical switch - Stainless steel cover
3 = Mechanical switch - Aluminium cover
4 = Inductive switch PNP - Plastic/Transparent plastic cover
5 = Inductive switch PNP - Stainless steel cover
6 = Inductive switch NPN - Aluminium cover
7 = Inductive switch NPN - Plastic/Transparent plastic cover
8 = Inductive switch NPN - Stainless steel cover
9 = Inductive switch NPN - Aluminium cover
A = Inductive switch Ex ia NAMUR - Plastic/Transparent plastic cover

Piloting voltage
00 = No pilot

Options (1)
EGA = EN 161 gas certified
V11 = Visualization optimized by LED (360°)

Valve type (290 NC)
1 = Stainless steel actuator 63 mm
2 = Plastic actuator 63 mm

Communication features - Electrical connection type
0 = No Communication - Cable gland

EMERSON BCAE Automation Solutions
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ASCO
传真：(86-532)585-10-365
Email：sales@bechinas.com

ASCO™ Pneumatic Angle and Straight Seat Valves

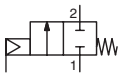
Choice of options and accessories

Options	NC Fluid entry above the disc	Actuator diameter compatibility (mm) 63	*When a combination of several options are selected (using the product configurator on our website) you will be provided with a specific combination code*
STL	•	•	 Stroke limiter for opening
SSF	•	•	 AISI 316L stainless steel pilot insert for plastic actuator
M31	•	•	Stainless steel valve body material certificate 3.1

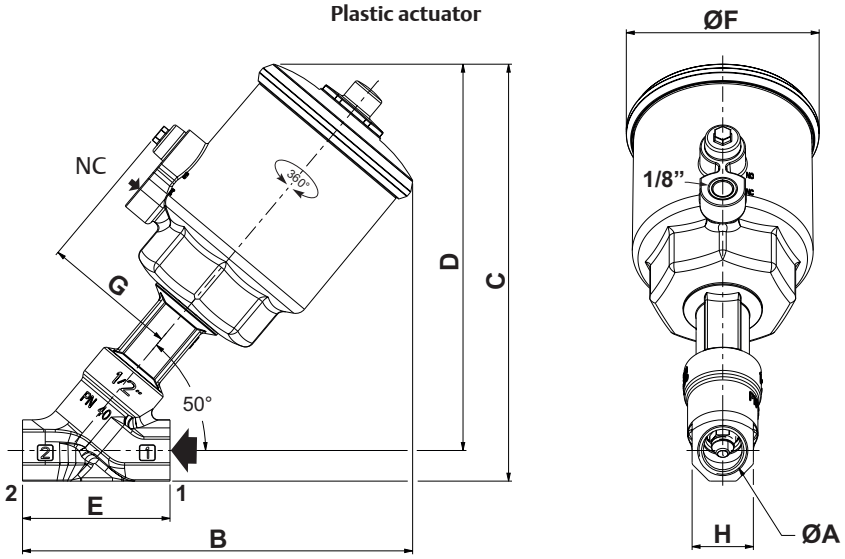
• Available feature

Dimensions mm (inches)

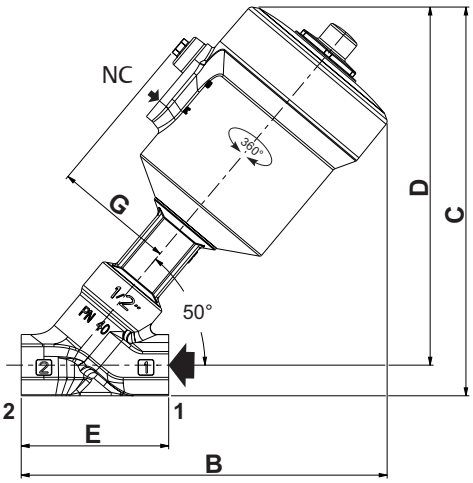
TYPE 01 - Angle seat valve
63 mm actuator
NC - Fluid entry:
above the disc at 1

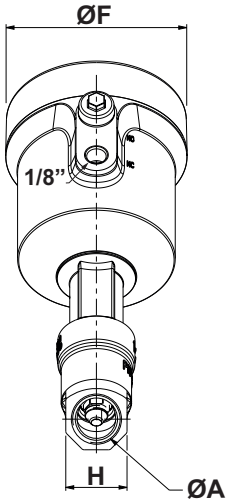


Plastic actuator



Stainless steel actuator





ØA		E	H
G* 1/2"	mm	65	27
NPTF 1/2"	(in)	2.559	1.063
G* 3/4"	mm	75	32
NPTF 3/4"	(in)	2.953	1.260
G* 1"	mm	90	41
NPTF 1"	(in)	3.543	1.614
G* 1 1/4"	mm	110	50
NPTF 1 1/4"	(in)	4.331	1.969
G* 1 1/2"	mm	120	60
NPTF 1 1/2"	(in)	4.724	2.362
G* 2"	mm	150	70
NPTF 2"	(in)	5.906	2.756

Plastic actuator				
B	C	D	ØF	G
172	184	170.5	85	59.5
6.772	7.244	6.713	3.346	2.343
176	187	171	85	59.5
6.929	7.362	6.732	3.346	2.343
185.5	199.5	179	85	59.5
7.303	7.854	7.047	3.346	2.343
206	215.5	190.5	85	59.5
8.110	8.484	7.500	3.346	2.343
206	222.5	192.5	85	59.5
8.110	8.760	7.579	3.346	2.343
229	234.5	199.5	85	59.5
9.016	9.232	7.854	3.346	2.343

Stainless steel actuator				
B5	C5	D5	ØF5	G5
161.5	171.5	158.0	79.5	53.0
6.358	6.752	6.220	3.130	2.087
165.5	175.0	159.0	79.5	53.0
6.516	6.890	6.260	3.130	2.087
175.0	187.0	167.0	79.5	53.0
6.890	7.362	6.575	3.130	2.087
195.5	203.5	178.5	79.5	53.0
7.697	8.012	7.028	3.130	2.087
195.0	210.5	180.5	79.5	53.0
7.677	8.287	7.106	3.130	2.087
218.5	222.5	187.5	79.5	53.0
8.602	8.760	7.382	3.130	2.087

ASCO™ Pneumatic Angle and Straight Seat Valves

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

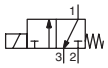
TYPE 01 + Pilot 356, brass body
Coil size 20 mm - Thermoplactic moulded
IEC 335 / DIN 43650
IP67

G356C135S19FM

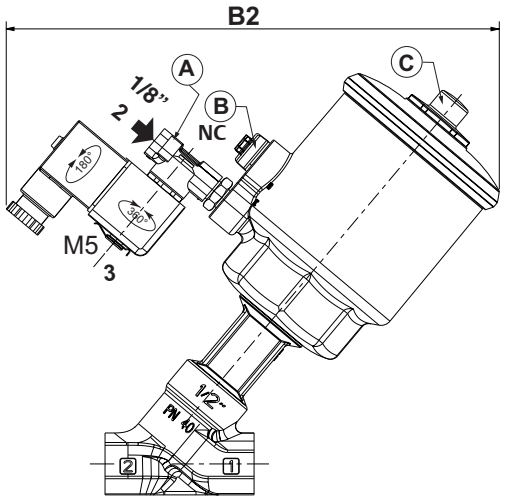
TYPE 01 + Pilot 356, stainless steel body
Coil size 20 mm - Thermoplactic moulded
IEC 335 / DIN 43650
IP67

G356C145S19FM

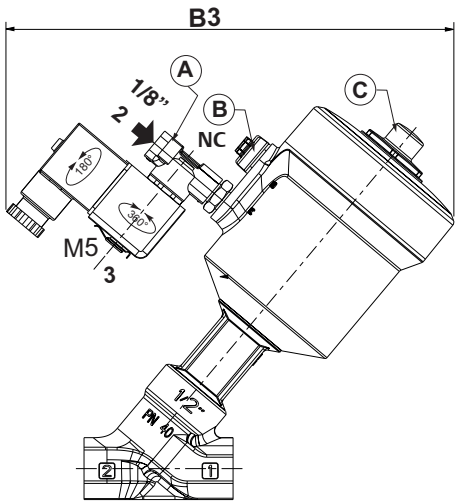
Pilot: NC



Plastic actuator



Stainless steel actuator



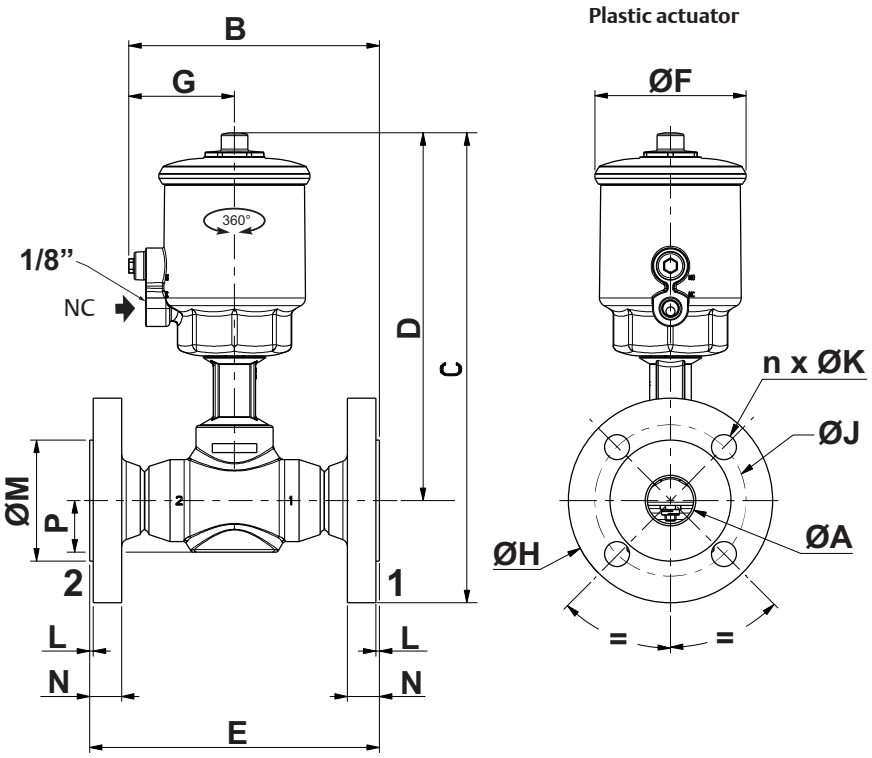
Ⓐ Pilot solenoid valve despatched separately, see page 2
Ⓑ Filter-plug (non-removable)
Ⓒ Optical position indicator

Actuator diameter	ØA		Plastic actuator	Stainless steel actuator	Weight (with pilot)		
			B2	B3	Plastic actuator	Stainless steel actuator	
63 mm	G* 1/2"	mm	213.2	193.2	1.1	1.9	kg
	NPTF 1/2"	(in)	8.394	7.606	2.4	4.2	(Lbs)
	G* 3/4"	mm	213.2	193.2	1.2	2	kg
	NPTF 3/4"	(in)	8.394	7.606	2.6	4.4	(Lbs)
	G* 1"	mm	213.2	193.2	1.6	2.3	kg
	NPTF 1"	(in)	8.394	7.606	3.5	5.1	(Lbs)
	G* 1 1/4"	mm	213.2	193.2	2	2.7	kg
	NPTF 1 1/4"	(in)	8.394	7.606	4.4	6.0	(Lbs)
	G* 1 1/2"	mm	213.2	193.2	2.6	3.3	kg
	NPTF 1 1/2"	(in)	8.394	7.606	5.7	7.3	(Lbs)
	G* 2"	mm	213.2	193.2	3.4	4.1	kg
	NPTF 2"	(in)	8.394	7.606	7.5	9.0	(Lbs)

Dimensions mm (inches), Weight kg (Lbs)

Configurator - CAD Files

TYPE 02 - Straight seat valve
63 mm actuator
NC - Fluid entry:
above the disc at 1



Type	Actuator diameter	DN		ØA	B	C		D	E	ØF	G	ØH		ØJ	
						ISO	ANSI					ISO	ANSI	ISO	ANSI
03	63 mm	15	mm	17.3	124.5	247	244.5	199.5	130	85	59.5	95	90	65	60.3
			(in)	0.681	4.902	9.724	9.626	7.854	5.118	3.346	2.343	3.740	3.543	2.559	2.374
		20	mm	22.3	134.5	251	248.5	198.5	150	85	59.5	105	100	75	69.9
			(in)	0.878	5.295	9.882	9.783	7.815	5.906	3.346	2.343	4.134	3.937	2.953	2.752
		25	mm	28.5	139.5	264.5	262	207	160	85	59.5	115	110	85	79.4
			(in)	1.122	5.492	10.413	10.315	8.150	6.299	3.346	2.343	4.528	4.331	3.346	3.126
		32	mm	37.2	149.5	293.5	281	223.5	180	85	59.5	140	115	100	88.9
			(in)	1.465	5.886	11.555	11.063	8.799	7.087	3.346	2.343	5.512	4.528	3.937	3.500
		40	mm	43.1	159.5	296	283.5	221	200	85	59.5	150	125	110	98.4
			(in)	1.697	6.280	11.654	11.161	8.701	7.874	3.346	2.343	5.906	4.921	4.331	3.874
		50	mm	54.5	174.5	314	306.5	231.5	230	85	59.5	165	150	125	120.7
			(in)	2.146	6.870	12.362	12.067	9.114	9.055	3.346	2.343	6.496	5.906	4.921	4.752

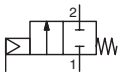
DN		ØA	n x ØK		L		M		N		P	Weight [1]		
			ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI		ISO	ANSI	
15	mm	17.3	4 X 14	4 X 16	2	1.5	45	34.9	16	13.2	19.75	2.5	2.1	kg
	(in)	0.681	4 X 0.551	4 X 0.63	0.079	0.059	1.772	1.374	0.630	0.520	0.778	6.1	5.2	(Lbs)
20	mm	22.3	4 X 14	4 X 16	2	1.5	58	42.9	18	13.2	23	3.5	2.8	kg
	(in)	0.878	4 X 0.551	4 X 0.63	0.079	0.059	2.283	1.689	0.709	0.520	0.906	7.8	6.2	(Lbs)
25	mm	28.5	4 X 14	4 X 16	2	1.5	68	50.8	18	14.2	29	4.4	3.7	kg
	(in)	1.122	4 X 0.551	4 X 0.63	0.079	0.059	2.677	2.000	0.709	0.559	1.142	9.6	8.1	(Lbs)
32	mm	37.2	4 X 18	4 X 16	2	1.5	78	63.5	18	15.8	32.5	6.2	4.7	kg
	(in)	1.465	4 X 0.709	4 X 0.63	0.079	0.059	3.071	2.500	0.709	0.622	1.280	13.7	10.4	(Lbs)
40	mm	43.1	4 X 18	4 X 16	3	1.5	88	73	18	17.4	36.85	7.2	6.0	kg
	(in)	1.697	4 X 0.709	4 X 0.63	0.118	0.059	3.465	2.874	0.709	0.685	1.451	15.9	13.2	(Lbs)
50	mm	54.5	4 X 18	4 X 19.1	3	1.5	102	92.1	20	19	42.5	10.0	8.9	kg
	mm	2.146	4 X 0.709	4 X 0.752	0.118	0.059	4.016	3.626	0.787	0.748	1.673	21.9	19.6	(Lbs)

[1] Weight of valve without pilot.
For solenoid pilot valve. see dedicated catalog pages.

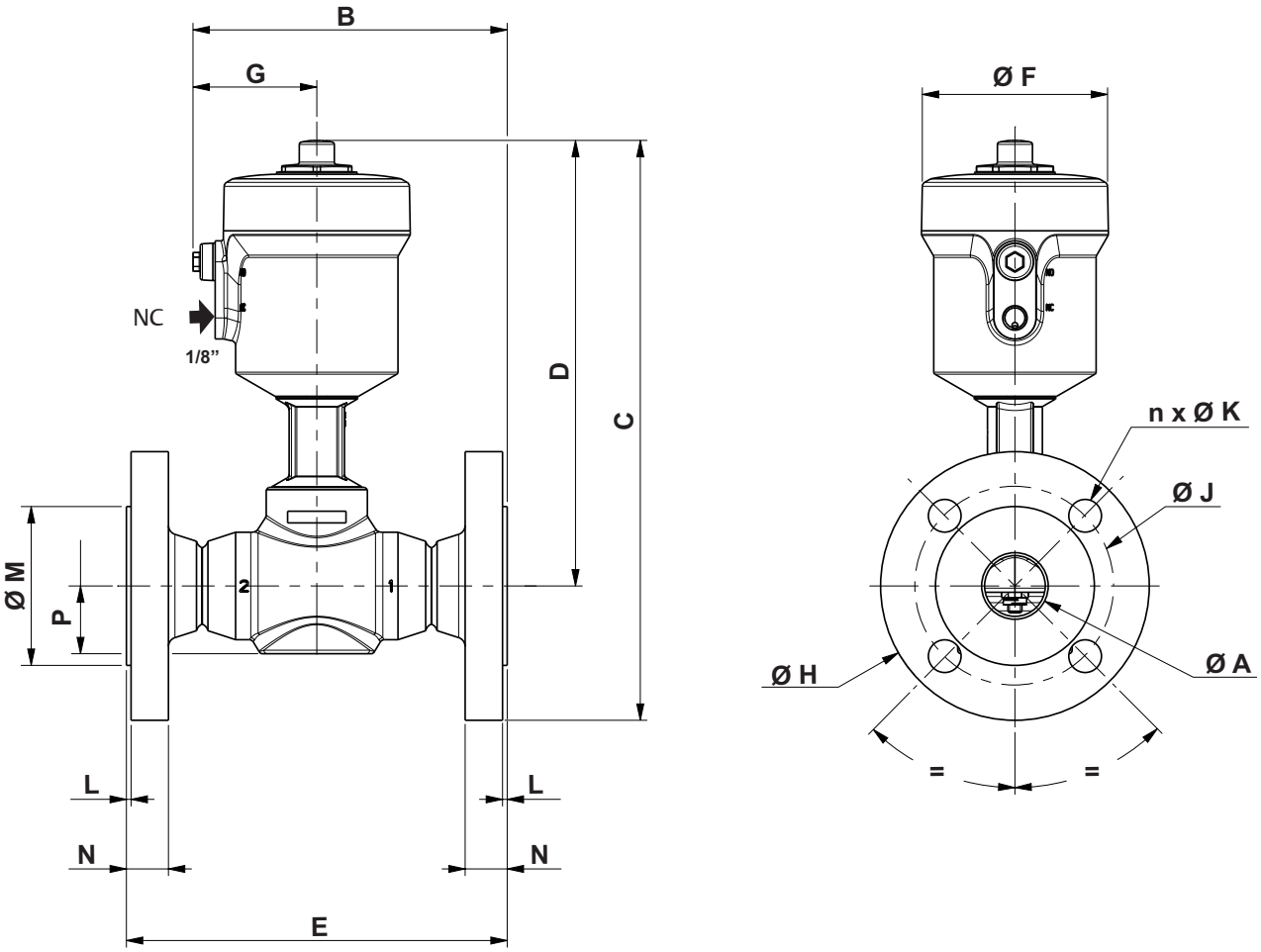
ASCO™ Pneumatic Angle and Straight Seat Valves

Dimensions mm (inches)

TYPE 02 - Straight seat valve
63 mm actuator
NC - Fluid entry:
above the disc at 1



Stainless steel actuator



DN		ØA	B	C		D	E	ØF	G	ØH		ØJ		n x ØK		L		M		N		P
				ISO	ANSI					ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	
15	mm	17.3	118.0	231.0	228.5	183.5	130.0	79.5	53.0	95.0	90.0	65.0	60.3	4 x 14	4 x 16	2.0	1.5	45.0	34.9	16.0	13.2	19.8
	(in)	0.681	4.646	9.094	8.996	7.224	5.118	3.130	2.087	3.740	3.543	2.559	2.374	4 x 0.551	4 x 0.630	0.079	0.059	1.772	1.374	0.630	0.520	0.778
20	mm	22.3	128.0	235.0	232.5	182.5	150.0	79.5	53.0	105.0	100.0	75.0	69.9	4 x 14	4 x 16	2.0	1.5	58.0	42.9	18.0	13.2	23.0
	(in)	0.878	5.039	9.252	9.154	7.185	5.906	3.130	2.087	4.134	3.937	2.953	2.752	4 x 0.551	4 x 0.630	0.079	0.059	2.283	1.689	0.709	0.520	0.906
25	mm	28.5	133.0	248.5	246.0	191.0	160.0	79.5	53.0	115.0	110.0	85.0	79.4	4 x 14	4 x 16	2.0	1.5	68.0	50.8	18.0	14.2	29.0
	(in)	1.122	5.236	9.783	9.685	7.520	6.299	3.130	2.087	4.528	4.331	3.346	3.126	4 x 0.551	4 x 0.630	0.079	0.059	2.677	2.000	0.709	0.559	1.142
32	mm	37.2	143.0	278.0	265.5	208.0	180.0	79.5	53.0	140.0	115.0	100.0	88.9	4 x 18	4 x 16	2.0	1.5	78.0	63.5	18.0	15.8	32.5
	(in)	1.465	5.630	10.945	10.453	8.189	7.087	3.130	2.087	5.512	4.528	3.937	3.500	4 x 0.709	4 x 0.630	0.079	0.059	3.071	2.500	0.709	0.622	1.280
40	mm	43.1	153.0	280.0	267.5	205.0	200.0	79.5	53.0	150.0	125.0	110.0	98.4	4 x 18	4 x 16	3.0	1.5	88.0	73.0	18.0	17.4	36.9
	(in)	1.697	6.024	11.024	10.531	8.071	7.874	3.130	2.087	5.906	4.921	4.331	3.874	4 x 0.709	4 x 0.630	0.118	0.059	3.465	2.874	0.709	0.685	1.451
60	mm	54.5	168.0	298.0	290.5	215.5	230.0	79.5	53.0	165.0	150.0	125.0	120.7	4 x 18	4 x 19.1	3.0	1.5	102.0	92.1	20.0	19.0	42.5
	(in)	2.146	6.614	11.732	11.437	8.484	9.055	3.130	2.087	6.496	5.906	4.921	4.752	4 x 0.709	4 x 0.752	0.118	0.059	4.016	3.626	0.787	0.748	1.673

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

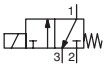
TYPE 01 + Pilot 356, brass body
Coil size 20 mm - Thermoplactic moulded
IEC 335 / DIN 43650
IP67

G356C135S19FM

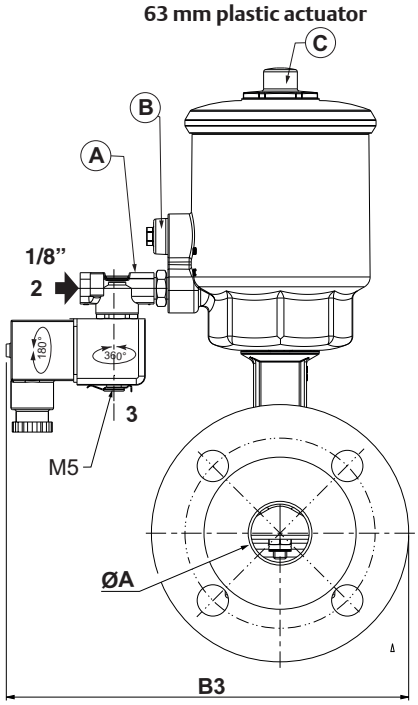
TYPE 01 + Pilot 356, stainless steel body
Coil size 20 mm - Thermoplactic moulded
IEC 335 / DIN 43650
IP67

G356C145S19FM

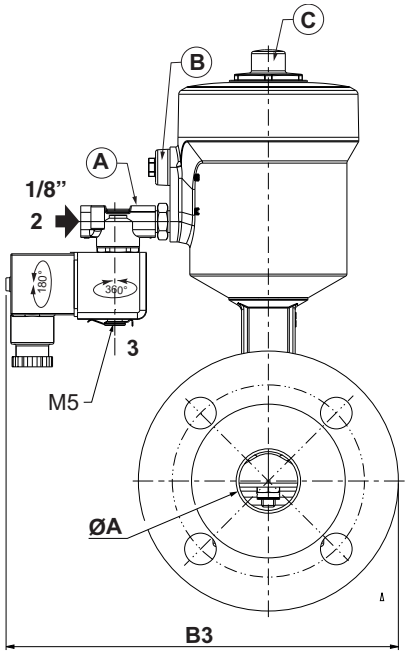
Pilot: NC



63 mm plastic actuator



63 mm stainless steel actuator



(A) Pilot solenoid valve despatched separately, see on page 2
(B) Filter-plug (non-removable)
(C) Optical position indicator

Type	Actuator diameter	DN	ØA		Plastic actuator B3 ISO	Plastic actuator B3 ANSI	Stainless steel actuator B3 ISO	Stainless steel actuator B3 ANSI	Weight (with pilot) Plastic ISO	Weight (with pilot) Plastic ANSI	Weight (with pilot) Stainless steel ISO	Weight (with pilot) Stainless steel ANSI	
02	63 mm	15	17.3	mm	169	166.5	162.5	160	2.9	2.5	3.6	3.2	kg
			0.681	(in)	6.654	6.555	6.398	6.299	6.4	5.5	7.9	7.0	(Lbs)
		20	22.3	mm	174	171.5	167.5	165	3.6	2.9	4.4	3.7	kg
			0.878	(in)	6.850	6.752	6.594	6.496	8.0	6.4	9.7	8.1	(Lbs)
		25	28.5	mm	179	176.5	172.5	170	4.5	3.8	5.1	4.4	kg
			1.122	(in)	7.047	6.949	6.791	6.693	9.9	8.4	11.3	9.8	(Lbs)
		32	37.2	mm	191.5	179	185	172.5	6.3	4.8	7.0	5.5	kg
			1.465	(in)	7.539	7.047	7.283	6.791	13.9	10.6	15.4	12.2	(Lbs)
		40	43.1	mm	196.5	184	190	177.5	7.3	6.1	8.1	6.8	kg
			1.697	(in)	7.736	7.244	7.480	6.988	16.1	13.5	17.8	15.0	(Lbs)
		50	54.5	mm	204	196.5	197.5	190	10.1	9.0	10.8	9.8	kg
			2.146	(in)	8.031	7.736	7.776	7.480	22.3	19.9	23.8	21.5	(Lbs)

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