

Features

- Double offset design reduces seal wear
- High quality, 316SS (CF8M) construction
- Reinforced Teflon (RPTFE) seats for expanded temperature range
- Heavy-duty, single piece cast & machined disc with integral mounting sleeve
- Spring loaded seat cover for easier removal and replacement of the valve seat
- Direct mount wafer butterfly valve with ISO5211 mount
- Type IP66 & IP68 weatherproof actuator
- Rugged scotch yoke construction tested for 1 million+ cycles
- Highly visible valve position indicator
- Anodized aluminum body with epoxy-polyester end covers
- Factory lubricated for long life
- Namur and ISO mounting standards

Applications

High performance wafer butterfly valves are used to control the flow of waters, oils, air, certain caustics, and other media compatible with the materials of construction for general service and where an expanded temperature range or higher pressure is required. Available in either fail-safe spring return or double acting designs. Scotch Yoke actuators should not be used for positioning applications.

Operation

Spring return valves use a pilot air pressure signal to open the valve and springs (failsafe) to close the valve when exhausting of the pilot signal. Double acting valves use air pressure to open the valve and air pressure to close the valve.

Construction

Valve Body	316 stainless steel CF8M
Disc	316 stainless steel CF8M
Disc Seat/Liner	RPTFE
Stem/Stem Seals	17-4PH/316SS/ V-ring (same material as seat)
Actuator Body/End Covers	Hard anodized aluminum/Polyester coated aluminum
Valve Position Indicator	Glass filled Polyamide
Fasteners	Stainless Steel
Actuator Seals	NBR



Description

Air actuated mount high performance butterfly valves with 316 stainless steel wafer body are designed for commercial and industrial applications. Valve mounts between two standard ANSI/ASME Class 125/ 150 flanges. Disc is precision machined 316SS. Double offset design to reduce seal wear.

Approvals– Actuators

- CE Declaration of conformity– MC 2006/42/CE
- EN ISO 12100:2010
- EN ISO 4414:2010
- ISO5211/ DIN3337 valve mounting
- Namur VDI/VDE 3845 accessory mounting

Standards– Valves

- ANSI/ASME B16.5 CLASS150
- ANSI/ASME B16.1 CLASS125
- EN1092 PN10, PN16
- JIS B 2239 10K, 16K
- CE Conformance– PED 2014/68/UE

Options

- Namur direct mount pilot solenoid valves
- Limit switch/Visual valve position indicator

Construction Features

Heavy duty rugged scotch yoke design

Anodized aluminum alloy covers with 40 micron polyester powder coating

Spring return models use multiple pre-compressed spring cartridges with polyester coating

Stainless steel fasteners

Stem packing adjustment below ISO mount eliminates additional bracket

Single piece cast & machined disc with integral shaft service

Integrally-cast heavy duty mounting stop

RPTFE seat

Visual valve position indicator

Standard Namur top mounting for optional switches

Extruded aluminum body with 35 micron hard anodizing

NPT pilot air ports and additional Namur VDI/VDE-3845 solenoid mounting pad

Direct mount wafer butterfly valve with standard ISO5211 mount, no brackets required

Spring-loaded faceplate for easy seat removal

International standard ISO5211 valve mounting pad

Pressure Rating

Pressure Rating: 285 PSI (19.7 Bar)

Temperature Range

Actuator Temperature Rating: -4 to 167° F (-20 to 75° C)

Valve Temperature Rating: RPTFE Seals: -20 to 500° F (-29 to 260° C)



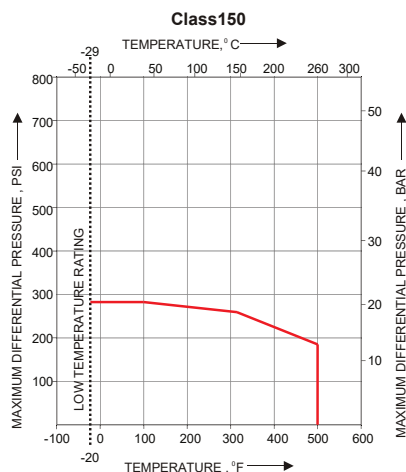
Specifications (English units)

Stock Number	Pipe Size (inch)	Orifice Diam. (inch)	Cv Flow Factor	Pressure Max.(PSI)	Fluid Media*	Cycle Time/90° (seconds)	Recommended Air Pilot Pressure
Wafer Body EPDM Seals: DOUBLE ACTING							
569703	3	2.9	165	285	Air, oil and other fluids compatible with materials of construction	0.4	58-87
569704	4	3.8	400	285	Air, oil and other fluids compatible with materials of construction	0.4	58-87
569706	6	5.6	1050	285	Air, oil and other fluids compatible with materials of construction	0.8	58-87
569708	8	7.4	2200	285	Air, oil and other fluids compatible with materials of construction	0.8	58-87
Wafer Body EPDM Seals: SPRING RETURN							
569803	3	2.9	165	285	Air, oil and other fluids compatible with materials of construction	0.6-0.9	58-87
569804	4	3.8	400	285	Air, oil and other fluids compatible with materials of construction	0.7-1.2	58-87
569806	6	5.6	1050	285	Air, oil and other fluids compatible with materials of construction	1.0-2.3	58-87
569808	8	7.4	2200	285	Air, oil and other fluids compatible with materials	1.0-2.3	58-87

Cv = The GPM of water at 60° F that will pass through the valve with 1 PSI pressure drop

* Consult compatibility chart for other fluid media. Suitable for vacuum up to 29 inHg

* See P/T Chart



Rated value for 150 Lb body			
Temperature °F	Temperature °C	CF8M (PSI)	CF8M (bar)
-20.2 to 100.4	-29 to 38	275.6	19.0
199.4	93	235.0	16.2
300.2	149	214.7	14.8
399.2	204	194.4	13.4
500	260	169.7	11.7

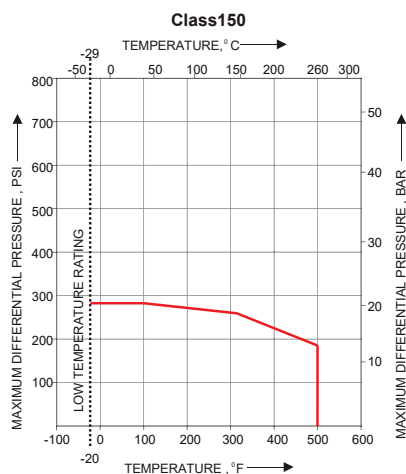
Specifications (Metric units)

Stock Number	Pipe Size (DN)	Orifice Diam. (mm)	Kv Flow Factor	Pressure Max.(Bar)	Fluid Media*	Cycle Time/90° (seconds)	Recommended Air Pilot Pressure
Wafer Body EPDM Seals: DOUBLE ACTING							
569703	80	73.7	143	19.7	Air, oil and other fluids compatible with materials of construction	0.4	4-6
569704	100	96.5	346	19.7	Air, oil and other fluids compatible with materials of construction	0.4	4-6
569706	150	142.2	908	19.7	Air, oil and other fluids compatible with materials of construction	0.8	4-6
569708	200	188.0	1903	19.7	Air, oil and other fluids compatible with materials of construction	0.8	4-6
Wafer Body EPDM Seals: SPRING RETURN							
569803	80	73.7	143	19.7	Air, oil and other fluids compatible with materials of construction	0.6-0.9	4-6
569804	100	96.5	346	19.7	Air, oil and other fluids compatible with materials of construction	0.7-1.2	4-6
569806	150	142.2	908	19.7	Air, oil and other fluids compatible with materials of construction	1.0-2.3	4-6
569808	200	188.0	1903	19.7	Air, oil and other fluids compatible with materials	1.0-2.3	4-6

Kv = The number of m³ per hour of 20° C water at 1 bar pressure drop

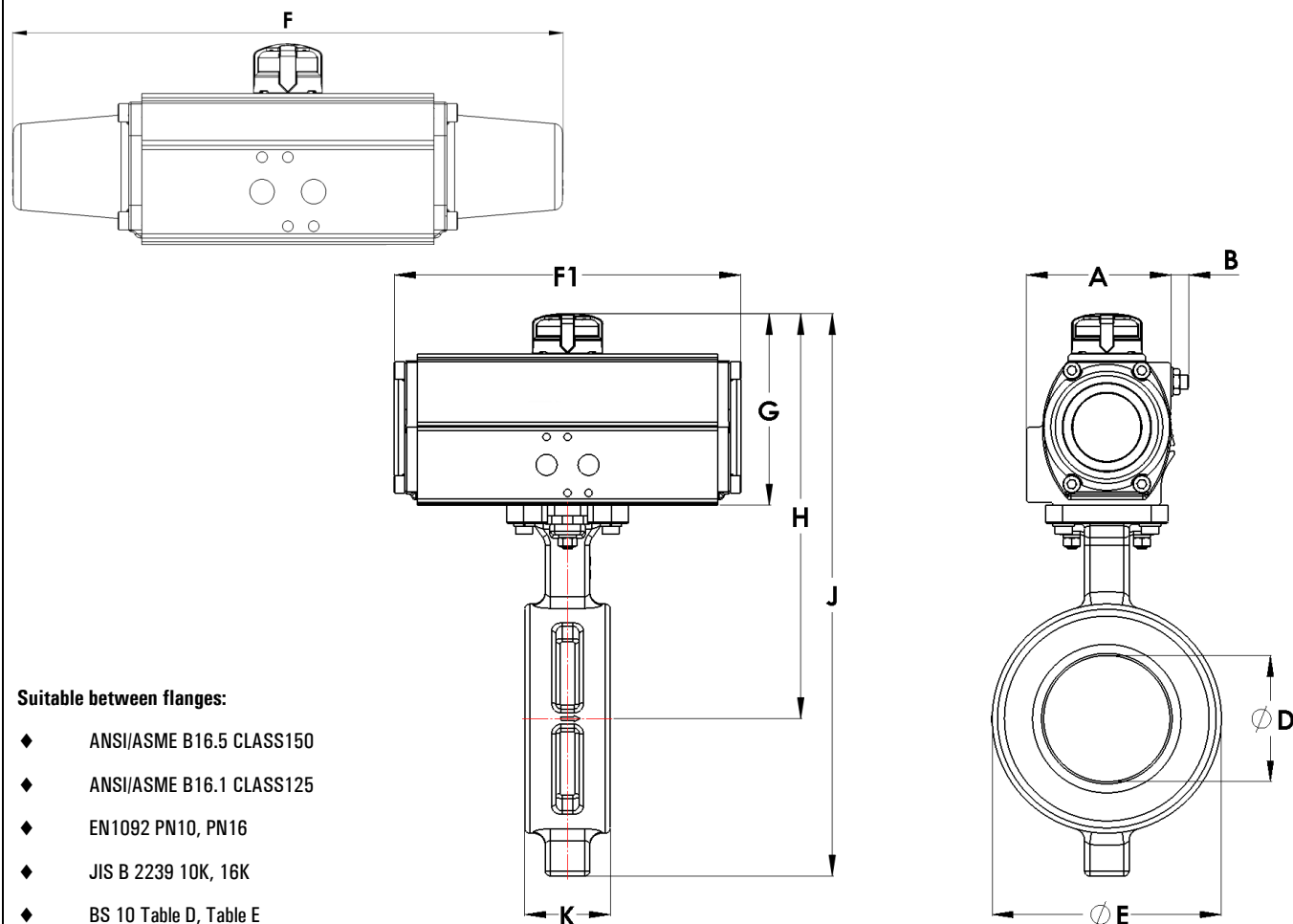
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500	260	169.7	11.7

Dimensions 3" to 8" Sizes



Suitable between flanges:

- ◆ ANSI/ASME B16.5 CLASS150
- ◆ ANSI/ASME B16.1 CLASS125
- ◆ EN1092 PN10, PN16
- ◆ JIS B 2239 10K, 16K
- ◆ BS 10 Table D, Table E

Double Acting Dimensions: inches (mm)

Pipe Size	A	B	D	E	F1- DA	G	H	J	K	Weight lbs (kg)
3 (DN 80)	2.9 (73.7)	0.4 (10.2)	2.8 (72)	5.2 (131)	7.9 (200.7)	4.1 (104.1)	8.9 (226.1)	12.4 (315.0)	1.9 (49)	14.8 lb/ 6.7 kg
4 (DN100)	2.9 (73.7)	0.4 (10.2)	3.7 (94)	6.1 (155)	7.9 (200.7)	4.1 (104.1)	9.4 (238.8)	13.5 (342.9)	2.1 (54)	18.0 lb/ 8.5 kg
6 (DN 150)	5.0 (127.0)	0.6 (15.2)	5.5 (140)	8.5 (216)	12.2 (309.9)	5.7 (144.8)	12.3 (312.4)	17.7 (449.6)	2.2 (57)	40.1 lb/ 18.2 kg
8 (DN 200)	5.0 (127.0)	0.6 (15.2)	7.3 (185)	10.6 (270)	12.2 (309.9)	5.7 (144.8)	14.2 (360.7)	20.3 (515.6)	2.5 (64)	52.5 lb/ 23.8 kg

Spring Return Dimensions: inches (mm)

Pipe Size	A	B	D	E	F-SR	G	H	J	K	Weight lbs (kg)
3 (DN 80)	3.1 (78.7)	0.4 (10.2)	2.8 (72)	5.2 (131)	16.5 (419.1)	4.8 (121.9)	9.6 (243.8)	13.1 (332.7)	1.9 (49)	21.4 lb/ 7.6 kg
4 (DN100)	5.0 (127.0)	0.7 (17.8)	3.7 (94)	6.1 (155)	19.6 (497.8)	5.7 (144.8)	11.0 (279.4)	15.1 (383.5)	2.1 (54)	33.8 lb/ 15.4 kg
6 (DN 150)	6.0 (152.4)	0.7 (17.8)	5.5 (140)	8.5 (216)	23.8 (604.5)	6.7 (170.2)	13.3 (337.8)	18.7 (475.0)	2.2 (57)	64.2 lb/ 29.1 kg
8 (DN 200)	6.0 (152.4)	0.7 (17.8)	7.3 (185)	10.6 (270)	23.8 (604.5)	6.7 (170.2)	15.2 (386.1)	21.3 (541.0)	2.5 (64)	76.6 lb/ 34.7 kg