

## Features

- Wafer butterfly valve with ISO5211 direct mount actuator
- Unique wave line seat reduces torque and extends seal life
- Ductile iron body with epoxy coating and 316SS disc
- 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
- Dry or lubricated pilot air supply

## Applications

EPDM seals typically used for on-off control of water and other media compatible with the materials of construction. NBR (Buna-N) seals typically used for air, oil, vacuum and other media compatible with the materials of construction. Available in either failsafe spring return or double acting designs. Multi-standard alignment holes, suitable for flanges: ANSI/ASME Class 125/150, EN1092 PN10,PN16, BS10 Table D, E and JIS B2239 10K,16K

## 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

<b>Valve Body</b>	Epoxy coated ductile iron
<b>Disc</b>	316 stainless steel CF8M
<b>Disc Seat/Liner</b>	EPDM or NBR (Buna-N)
<b>Stem/Stem Seals</b>	420 stainless steel / V-ring (same material as seat)
<b>Actuator Body/End Covers</b>	Hard anodized aluminum/Polyester coated aluminum
<b>Valve Position Indicator</b>	Glass filled Polyamide
<b>Fasteners</b>	Stainless Steel
<b>Actuator Seals</b>	NBR



## Description

Direct mount butterfly valves with epoxy-coated ductile iron lug body are designed for commercial and industrial applications. Valve mounts between two standard ANSI/ASME Class 125/ 150 and other international flanges. Seat to flange seal, eliminates the need for flange gaskets. Disc is precision machined 316SS. Two piece stem and disc design enhances the flow capacity and reduces turbulence.

## Approvals– Actuators

- CE conformity–MC 2006/42/CE
- EN ISO 12100:2010
- EN ISO 4414:2010
- ISO5211/ DIN3337 valve mounting
- Namur VDI/VDE 3845 accessory mounting
- SIL3– EN 17955:2024 & IEC 61508-1/-2:2010

## Standards– Valves

- Design complies with API-609, MSS SP-67
- Tests per API-598, AWWA C502-87
- CE according to PED 2014/68/UE

## Construction Features

Heavy duty rugged scotch yoke design

Visual valve position indicator

Anodized aluminum alloy covers with 40 micron polyester powder coating

Standard Namur top mounting for optional switches and positioners

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

Extruded aluminum body with 35 micron hard anodizing

Stainless steel fasteners

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

Unique wave line seat reduces torque and extends seal life

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

316SS disc with 2-piece stem design enhances flow capacity, reduces pressure drop

Ductile iron body with epoxy coating

International standard ISO5211 valve mounting pad



## Pressure Rating

Pressure Rating: 230 PSI (16 Bar), Vacuum 29in Hg, 145 PSI (10 Bar) 12" size

## Temperature Range

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

Valve Temperature Rating: EPDM seals 0 to 248° F (-18 to 120°C)

NBR seals 5 to 185° F (-15 to 85°C)

## Optional Accessories

- DMS: Direct Mount Solenoid
- pilot to electrically operate the ball valve
- VPS: Valve Position Switches
- limit switches to confirm valve position
- Actuator Mounting Kits
- DSP: Digital Smart Positioner
- simplify throttling applications

**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
<b>Wafer Body EPDM Seals: SPRING RETURN</b>							
564202	2	1.9	124	230	Water	0.3 - 0.5	58-87
564203	2-1/2	2.6	247	230	Water	0.4 - 0.6	58-87
564204	3	3.2	470	230	Water	0.4 - 0.6	58-87
564205	4	3.9	929	230	Water	0.4 - 0.6	58-87
564207	6	5.9	2243	230	Water	0.7 - 1.2	58-87
564208	8	7.9	3854	230	Water	1.0–2.3	58-87
564210	10	9.8	4498	145	Water	1.3–3.1	58-87
564209	12	11.8	8498	145	Water	1.3 - 3.1	58-87
<b>Wafer Body EPDM Seals: DOUBLE ACTING</b>							
564212	2	1.9	124	230	Water	0.3	58-87
564213	2-1/2	2.6	247	230	Water	0.3	58-87
564214	3	3.2	470	230	Water	0.3	58-87
564215	4	3.9	929	230	Water	0.4	58-87
564217	6	5.9	2243	230	Water	0.6	58-87
564218	8	7.9	3854	230	Water	0.8	58-87
564211	10	9.8	4498	145	Water	1.2	58-87
564219	12	11.8	8498	145	Water	1.6	58-87
<b>Wafer Body NBR (Buna- N) Seals: SPRING RETURN</b>							
564221	2	1.9	124	230	Air, Oil, Vacuum	0.3 - 0.5	58-87
564222	2-1/2	2.6	247	230	Air, Oil, Vacuum	0.4 - 0.6	58-87
564223	3	3.2	470	230	Air, Oil, Vacuum	0.4 - 0.6	58-87
564224	4	3.9	929	230	Air, Oil, Vacuum	0.4 - 0.6	58-87
564226	6	5.9	2243	230	Air, Oil, Vacuum	0.7-1.2	58-87
<b>Wafer Body NBR (Buna- N) Seals: DOUBLE ACTING</b>							
564231	2	1.9	124	230	Air, Oil, Vacuum	0.3	58-87
564232	2-1/2	2.6	247	230	Air, Oil, Vacuum	0.3	58-87
564233	3	3.2	470	230	Air, Oil, Vacuum	0.3	58-87
564234	4	3.9	929	230	Air, Oil, Vacuum	0.4	58-87
564236	6	5.9	2243	230	Air, Oil, Vacuum	0.6	58-87

Cv is 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

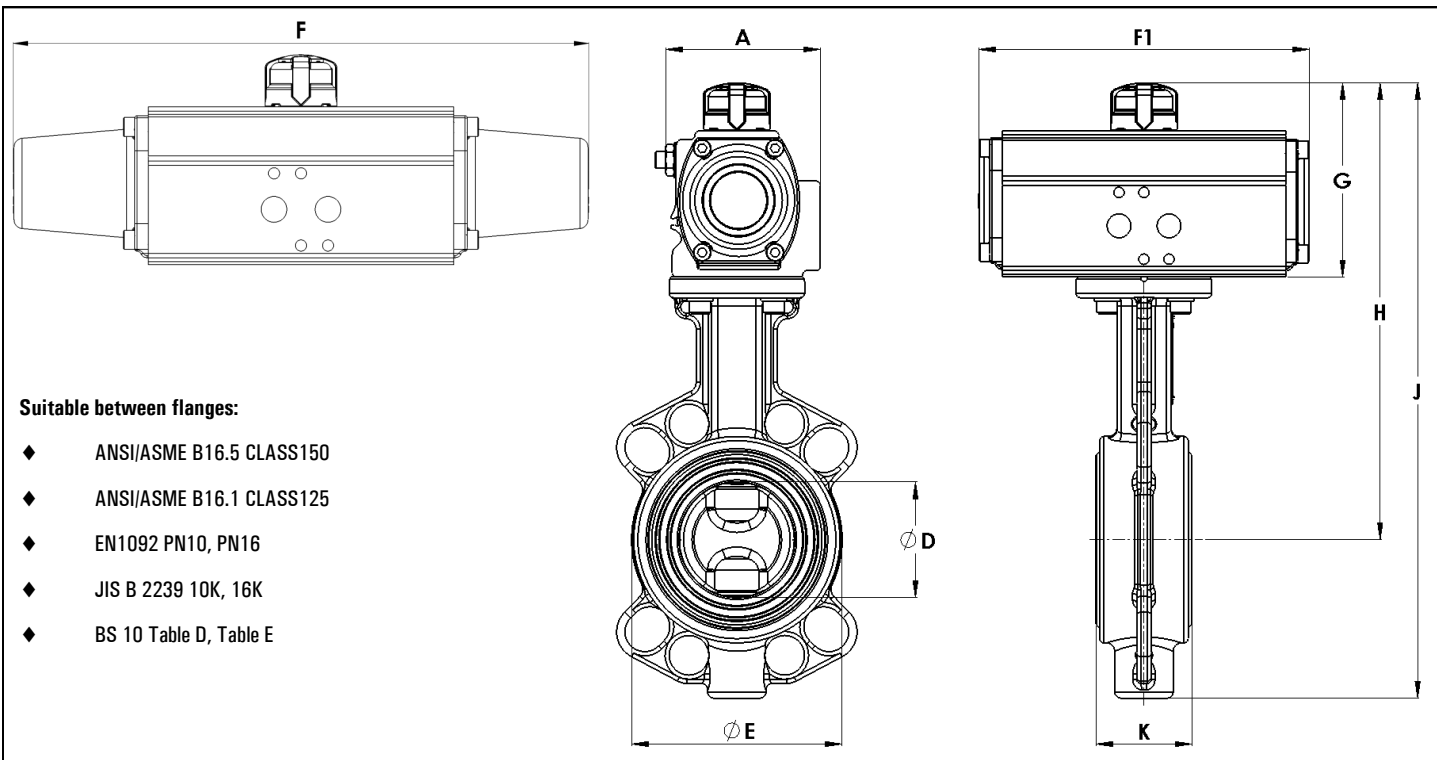
## Specifications (Metric units)

Stock Number	Pipe Size (DN)	Orifice Diam. (mm)	Kv Flow Factor	Pressure Max.(Bar)	Fluid Media*	Cycle Time/90° (seconds)	Recommended Air Pilot Pressure
<b>Wafer Body EPDM Seals: SPRING RETURN</b>							
564202	50	50	107	16	Water	0.3 - 0.5	4-6
564203	65	65	212	16	Water	0.4 - 0.6	4-6
564204	80	80	404	16	Water	0.4 - 0.6	4-6
564205	100	100	799	16	Water	0.4 - 0.6	4-6
564207	150	150	1929	16	Water	0.7 - 1.2	4-6
564208	200	200	3100	16	Water	1.0—2.3	4-6
564210	250	250	5200	10	Water	1.3—3.1	4-6
564209	300	300	7350	10	Water	1.3 - 3.1	4-6
<b>Wafer Body EPDM Seals: DOUBLE ACTING</b>							
564212	50	50	107	16	Water	0.3	4-6
564213	65	65	212	16	Water	0.3	4-6
564214	80	80	404	16	Water	0.3	4-6
564215	100	100	799	16	Water	0.4	4-6
564217	150	150	1929	16	Water	0.6	4-6
564218	200	200	3100	16	Water	0.8	4-6
564211	250	250	5200	10	Water	1.2	4-6
564219	300	300	7350	10	Water	1.6	4-6
<b>Wafer Body NBR (Buna- N) Seals: SPRING RETURN</b>							
564221	50	50	107	16	Air, Oil, Vacuum	0.3 - 0.5	4-6
564222	65	65	212	16	Air, Oil, Vacuum	0.4 - 0.6	4-6
564223	80	80	404	16	Air, Oil, Vacuum	0.4 - 0.6	4-6
564224	100	100	799	16	Air, Oil, Vacuum	0.4 - 0.6	4-6
564226	150	150	1929	16	Air, Oil, Vacuum	0.7-1.2	4-6
<b>Wafer Body NBR (Buna- N) Seals: DOUBLE ACTING</b>							
564231	50	50	107	16	Air, Oil, Vacuum	0.3	4-6
564232	65	65	212	16	Air, Oil, Vacuum	0.3	4-6
564233	80	80	404	16	Air, Oil, Vacuum	0.3	4-6
564234	100	100	799	16	Air, Oil, Vacuum	0.4	4-6
564236	150	150	1929	16	Air, Oil, Vacuum	0.6	4-6

Kv = The number of m<sup>3</sup> per hour of 20° C water at 1 bar pressure drop

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

## Dimensions 2" to 12" 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

**Spring Return Dimensions: inches (mm)**

Pipe Size	A	D	E	F-SR	G	H	J	K	Weight lb (kg)
2 (DN50)	2.9 (75)	2.0 (50)	3.9 (99)	10.1 (257)	3.7 (93)	8.6 (219)	11.6 (295)	1.8 (46)	7.9 (3.6)
2-1/2 (DN65)	3.5 (89)	2.6 (65)	4.5 (113)	12.4 (314)	4.3 (110)	9.6 (244)	12.8 (325)	1.9 (49)	12.1 (5.5)
3 (DN80)	3.5 (89)	3.2 (80)	5.1 (129)	12.4 (314)	4.3 (110)	10.5 (267)	14.3 (362)	1.9 (49)	13.9 (6.3)
4 (DN100)	3.5 (89)	3.9 (100)	6.2 (157)	12.4 (314)	4.3 (110)	10.9 (277)	15.4 (390)	2.2 (56)	17.4 (7.9)
6 (DN150)	5.1 (129)	5.9 (150)	8.4 (213)	19.7 (500)	5.9 (151)	13.9 (354)	19.7 (500)	2.3 (59)	47.4 (21.5)
8 (DN 200)	5.9 (150)	7.9 (200)	10.67 (271)	23.8 (605)	6.7 (170)	15.7 (398.8)	22.5 (571.5)	2.5 (64)	63.0 (28.6)
10 (DN 250)	6.5 (164)	9.8 (250)	13.0 (329)	26.9 (682)	7.6 (193)	18.1 (459.7)	26.5 (673.1)	2.7 (68)	80.7 (36.6)
12 (DN 300)	6.5 (164)	11.8 (300)	15.0 (382)	26.9 (682)	7.6 (193)	19.1 (484)	28.6 (726)	3.4 (85)	110 (49.9)

**Double Acting Dimensions: inches (mm)**

Pipe Size	A	D	E	F1- DA	G	H	J	K	Weight lb (kg)
2 (DN50)	2.9 (75)	2.0 (50)	3.9 (99)	6.4 (162)	3.7 (93)	8.6 (219)	11.6 (295)	1.8 (46)	7.5 (3.4)
2-1/2 (DN65)	2.9 (75)	2.6 (65)	4.5 (113)	6.4 (162)	3.7 (93)	8.9 (227)	12.2 (309)	1.9 (49)	8.6 (3.9)
3 (DN80)	2.9 (75)	3.2 (80)	5.1 (129)	6.4 (162)	3.7 (93)	9.8 (250)	13.6 (346)	1.9 (49)	10.4 (4.7)
4 (DN100)	3.5 (89)	3.9 (100)	6.2 (157)	7.9 (202)	4.3 (110)	10.9 (277)	15.4 (390)	2.2 (56)	15.9 (7.2)
6 (DN150)	3.9 (101)	5.9 (150)	8.4 (213)	9.9 (253)	5.1 (129)	13.1 (332)	18.8 (478)	2.3 (59)	25.6 (11.6)
8 (DN 200)	5.1 (129)	7.9 (200)	10.67 (271)	12.2 (311)	5.9 (151)	14.9 (379)	21.7 (551)	2.5 (64)	41.6 (18.9)
10 (DN 250)	5.9 (151)	9.8 (250)	13.0 (329)	15.3 (390)	6.7 (170.2)	17.2 (436.9)	25.6 (650.2)	2.7 (68)	63.2 (28.7)
12 (DN 300)	6.5 (164)	11.8 (300)	15.0 (382)	16.9 (431)	7.6 (193)	19.1 (484)	28.6 (726)	3.4 (85)	93.9 (42.4)