

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
- Actuator designed for extended cycle life (1 million cycles)
- Rugged rack and pinion design
- Highly visible valve position indicator
- Dry or lubricated pilot air supply
- Factory lubricated for normal life
- Anodized aluminum body with epoxy-polyester end covers
- Namur and ISO mounting standards

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

Valve Body	Epoxy coated ductile iron
Disc	316 stainless steel CF8M
Disc Seat/Liner	EPDM or NBR (Buna-N)
Stem/Stem Seals	420 stainless steel / 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

Direct mount butterfly valve 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/Standards

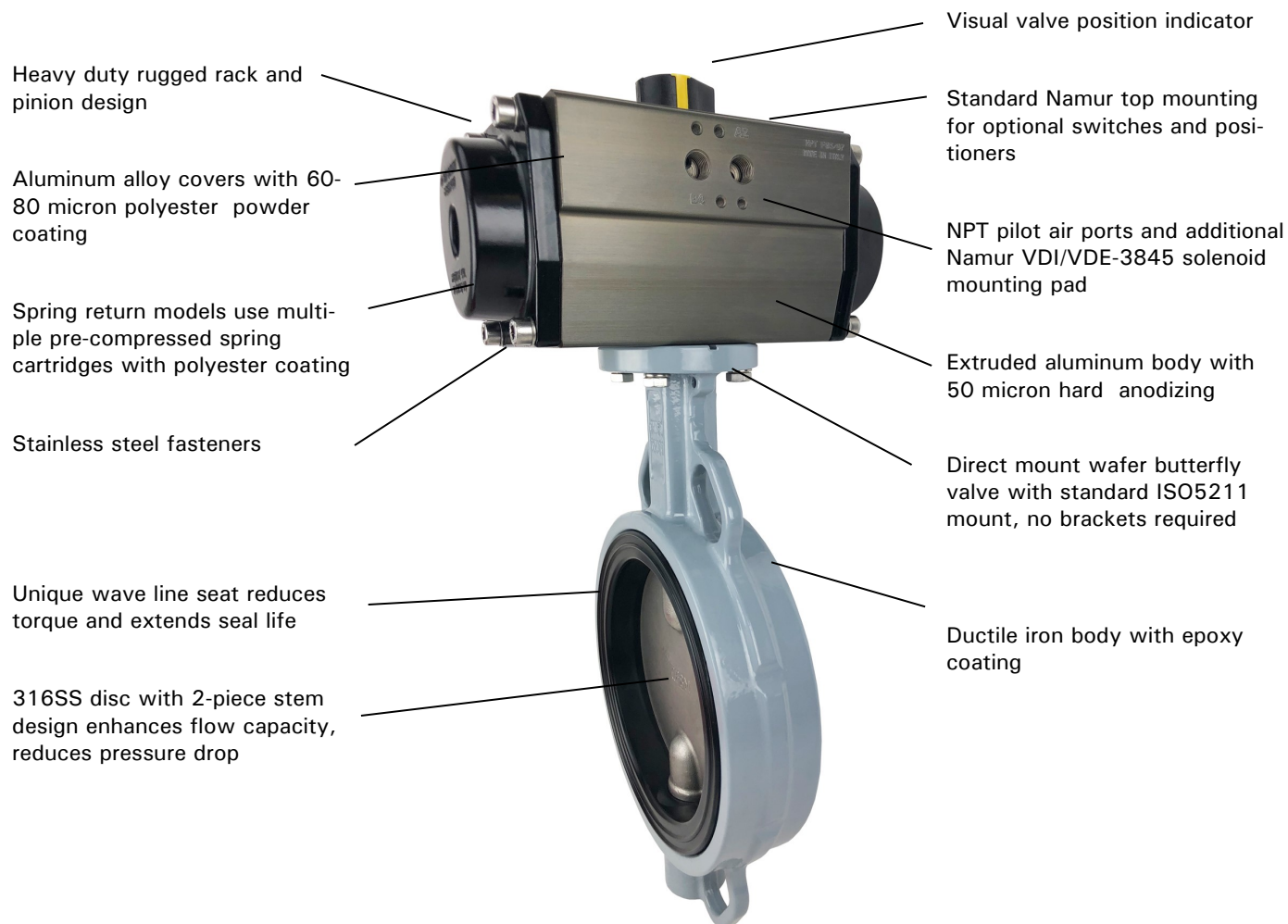
Actuator

- CE Declaration of conformity
- ISO5211/ DIN3337 valve mounting
- Namur VDI/VDE 3845 accessory mounting
- ATEX-94-9-CEE standard for explosive environment II 2GD c Tmax = 95°C

Valve

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

Construction



Pressure Rating/Temperature Range

Pressure Rating: 230 PSI (16 Bar), Vacuum 29in Hg, 2-8" sizes
145 PSI (10 Bar) 10-12" sizes

Actuator Temperature Rating: 0 to 180° F (-18 to 82° C)

Valve Temperature Rating: EPDM seals 0 to 248° F (-18 to 120°C)
NBR seals 5 to 185° F (-15 to 85°C)

Options

- Namur direct mount pilot solenoid valves
- Limit switch/Visual valve position indicator
- Pneumatic valve positioners 4-20mA inputs

Specifications (English units)

Stock Number	Pipe Size (inch)	Orifice Diam. (inch)	Cv Flow Factor	Pressure Max. (PSI)	Fluid Media*	Cycle Time/90° (seconds)	Air Pilot Pressure (PSI)
Wafer Body EPDM Seals: SPRING RETURN							
564002	2	2.00	124	230	Water	1	80-120
564003	2-1/2	2.50	247	230	Water	1 - 1.5	80-120
564004	3	3.00	470	230	Water	1 - 1.5	80-120
564005	4	4.00	929	230	Water	1 - 1.5	80-120
564007	6	6.00	2243	230	Water	1 - 1.5	80-120
Wafer Body EPDM Seals: DOUBLE ACTING							
564012	2	2.00	124	230	Water	1	80-120
564013	2-1/2	2.50	247	230	Water	1	80-120
564014	3	3.00	470	230	Water	1	80-120
564015	4	4.00	929	230	Water	1 - 1.5	80-120
564017	6	6.00	2243	230	Water	1 - 1.5	80-120
Wafer Body NBR (Buna- N) Seals: SPRING RETURN							
564021	2	2.00	124	230	Air, Oil, Vacuum	1	80-120
564022	2-1/2	2.50	247	230	Air, Oil, Vacuum	1 - 1.5	80-120
564023	3	3.00	470	230	Air, Oil, Vacuum	1 - 1.5	80-120
564024	4	4.00	929	230	Air, Oil, Vacuum	1 - 1.5	80-120
564026	6	6.00	2243	230	Air, Oil, Vacuum	1 - 1.5	80-120
Wafer Body NBR (Buna- N) Seals: DOUBLE ACTING							
564031	2	2.00	124	230	Air, Oil, Vacuum	1	80-120
564032	2-1/2	2.50	247	230	Air, Oil, Vacuum	1	80-120
564033	3	3.00	470	230	Air, Oil, Vacuum	1	80-120
564034	4	4.00	929	230	Air, Oil, Vacuum	1 - 1.5	80-120
564036	6	6.00	2243	230	Air, Oil, Vacuum	1 - 1.5	80-120

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

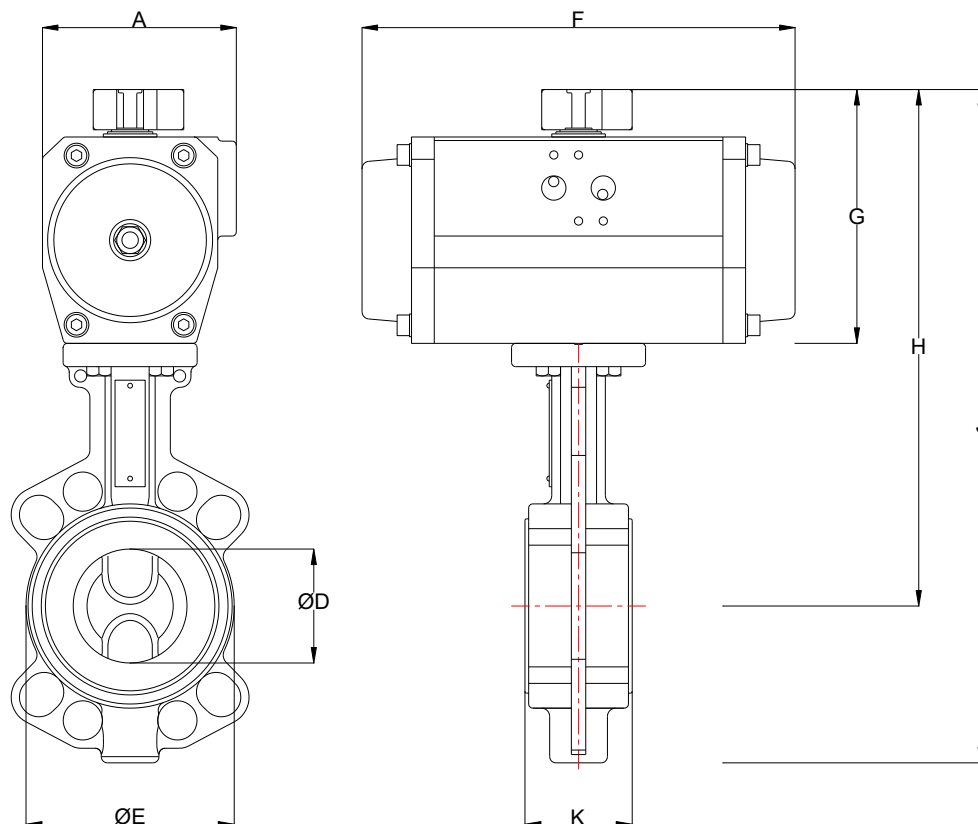
Specifications (Metric units)

Stock Number	Pipe Size (DN)	Orifice Diam. (mm)	Kv Flow Factor	Pressure Max. (Bar)	Fluid Media*	Cycle Time/90° (seconds)	Air Pilot Pressure (Bar)
Wafer Body EPDM Seals: SPRING RETURN							
564002	50	50	107	16	Water	1	5.5 - 8
564003	65	65	212	16	Water	1 - 1.5	5.5 - 8
564004	80	80	404	16	Water	1 - 1.5	5.5 - 8
564005	100	100	799	16	Water	1 - 1.5	5.5 - 8
564007	150	150	1929	16	Water	1 - 1.5	5.5 - 8
Wafer Body EPDM Seals: DOUBLE ACTING							
564012	50	50	107	16	Water	1	5.5 - 8
564013	65	65	212	16	Water	1	5.5 - 8
564014	80	80	404	16	Water	1	5.5 - 8
564015	100	100	799	16	Water	1 - 1.5	5.5 - 8
564017	150	150	1929	16	Water	1 - 1.5	5.5 - 8
Wafer Body NBR (Buna- N) Seals: SPRING RETURN							
564021	50	50	107	16	Air, Oil, Vacuum	1	5.5 - 8
564022	65	65	212	16	Air, Oil, Vacuum	1 - 1.5	5.5 - 8
564023	80	80	404	16	Air, Oil, Vacuum	1 - 1.5	5.5 - 8
564024	100	100	799	16	Air, Oil, Vacuum	1 - 1.5	5.5 - 8
564026	150	150	1929	16	Air, Oil, Vacuum	1 - 1.5	5.5 - 8
Wafer Body NBR (Buna- N) Seals: DOUBLE ACTING							
564031	50	50	107	16	Air, Oil, Vacuum	1	5.5 - 8
564032	65	65	212	16	Air, Oil, Vacuum	1	5.5 - 8
564033	80	80	404	16	Air, Oil, Vacuum	1	5.5 - 8
564034	100	100	799	16	Air, Oil, Vacuum	1 - 1.5	5.5 - 8
564036	150	150	1929	16	Air, Oil, Vacuum	1 - 1.5	5.5 - 8

Kv = The number of m³ 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 6" 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	G	H	J	K	ISO	Weight lbs (kg)
2 (DN50)	3.39 (86)	1.97 (50)	3.90 (99)	6.14 (156)	4.25 (108)	9.21 (234)	12.20 (310)	1.81 (46)	F05	8.6 (3.9)
2-1/2 (DN65)	3.70 (94)	2.56 (65)	4.46 (113)	8.27 (210)	4.92 (125)	10.20 (259)	13.43 (341)	1.93 (49)	F05	12.8 (5.8)
3 (DN80)	4.09 (104)	3.15 (80)	5.07 (129)	9.06 (230)	5.31 (135)	11.50 (292)	15.28 (388)	1.93 (49)	F05	17.7 (8.0)
4 (DN100)	4.72 (120)	3.94 (100)	6.17 (157)	11.06 (281)	5.12 (130)	11.69 (297)	16.18 (411)	2.19 (56)	F05/07	25.6 (11.6)
6 (DN150)	5.28 (134)	5.91 (150)	8.39 (213)	12.20 (310)	5.79 (147)	15.26 (388)	21.01 (534)	2.31 (59)	F07	47.4 (21.5)

Double Acting Dimensions: inches (mm)

Pipe Size	A	D	E	F	G	H	J	K	ISO	Weight lbs (kg)
2 (DN50)	3.39 (86)	1.97 (50)	3.90 (99)	6.14 (156)	4.25 (108)	9.21 (234)	12.20 (310)	1.81 (46)	F05	7.9 (3.6)
2-1/2 (DN65)	3.39 (86)	2.56 (65)	4.46 (113)	6.14 (156)	4.25 (108)	9.21 (234)	12.20 (310)	1.93 (49)	F05	9.0 (4.1)
3 (DN80)	3.39 (86)	3.15 (80)	5.07 (129)	6.14 (156)	4.25 (108)	9.21 (234)	12.20 (310)	1.93 (49)	F05	10.8 (4.9)
4 (DN100)	3.70 (94)	3.94 (100)	6.17 (157)	8.27 (210)	4.92 (125)	10.20 (259)	13.43 (341)	2.19 (56)	F05/07	17.2 (7.8)
6 (DN150)	4.09 (104)	5.91 (150)	8.39 (213)	9.06 (230)	5.31 (135)	13.3 (338)	19.06 (484)	2.31 (59)	F07	26.3 (11.9)