

FlowLine *Series 74/75*



Metal Seated Butterfly Valves

Sizes 2"- 24"

FEATURES

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- Upper Shaft of 416 Stainless Steel is machined to ISO 5211.
 - Lubricant injection fittings for upper shaft and bearings.
 - UMPH bearings provide superior wear resistance.
 - Heavy walled one-piece bodies eliminate any transfer of product to the atmosphere.
 - Thin disc profile eliminates unwanted buildup of line media.
 - Viton O-Rings are used to trap lubricant on bearings.
 - Lower shaft is precisely machined for precise disc positioning.
 - 316 Stainless Steel tail-piece provides a secure base for disc/shaft adjustment
 - Lubricant injection fitting for lower shaft and bearings.
 - Slotted ISO 5211 top plate gives flexibility of direct mounting options.
 - Shaft is blow-out proof by use of a stainless steel top plate.
 - Live loaded packing is utilized to assure zero stem leakage.
 - 3 Stainless steel nitrated bearings/packing retainers serve as a back-up to the UMPH bearings.
 - Oversized 416 stainless steel shaft to compensate for higher torques.
 - A machined Double D shaft and disc ensure a positive connection.
 - Disc-to-body clearance of .005 thousandths of an inch gives the valve a Class 5 shut-off.
 - Teflon seal eliminates any line media from exiting the valve through the lower shaft area.
 - Travel Stop nut of 316 Stainless Steel securely locks the shaft/disc assembly in place.

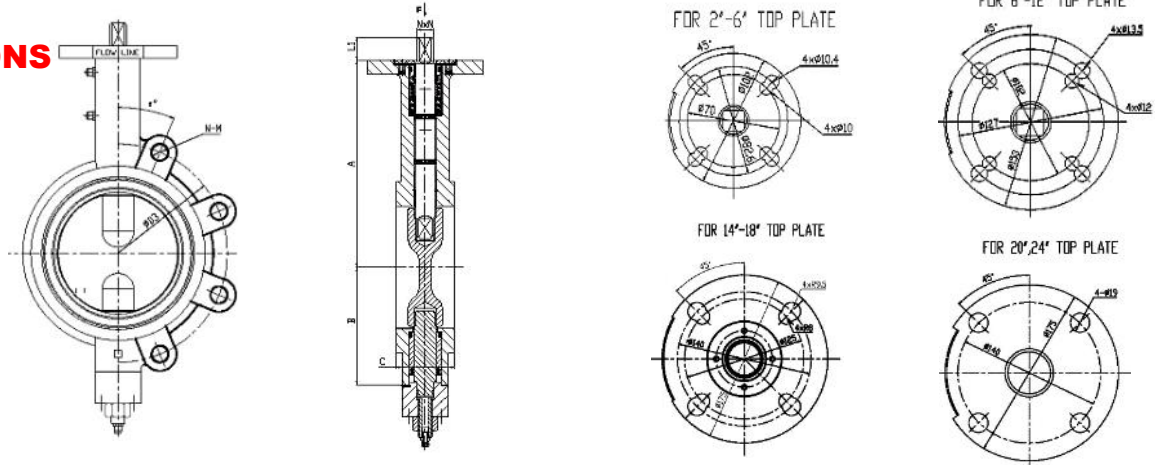
The **Series 74 Wafer** style and **Series 75 Lug** style are heavy-duty metal seated butterfly valves compatible with ANSI 125/150 weld-neck, slip-on, and threaded flange standards. 2" - 24" valves are fully rated to 200 psi, bi-directional, dead-end service. All series 74/75 valves, regardless of the rated working pressure, are vacuum rated to 29.92" of Mercury Gauge (0 Micron).

COATINGS

Flow Line Series 74 and 75 butterfly valve bodies are polyester coated, as standard. Polyester is a significant upgrade to paint or two-part epoxy coatings. Our standard polyester coating offers outstanding protection against abrasion and corrosion. The Flow Line polyester coating is not affected by outdoor exposure and

TEST	RESULT
Salty Fog Test	No change in excess of 2000 hours
Outdoor Weathering (UV Rays)	No noticeable change in excess of 12 months
50% Sulfuric Acid Test	No change for 48 hours

DIMENSIONS WAFLER/LUG



Size	A	B	C	D3	N	M	a°	NxN	L1	WGT
2"	5.63	2.87	1.63	4.75	5/8-11	4	45°	0.551	0.79	10
2.5"	6.14	3.15	1.77	5.5	5/8-11	4	45°	0.551	0.79	11
3"	6.38	3.39	1.75	6	5/8-11	4	45°	0.551	0.79	12
4"	7.13	4.06	2	7.5	5/8-11	8	22.5°	0.551	0.79	20
5"	7.76	4.72	2.13	8.5	3/4-10	8	22.5°	0.67	0.95	25
6"	8.27	5.12	2.13	9.5	3/4-10	8	22.5°	0.67	0.95	31
8"	9.45	6.18	2.5	11.75	3/4-10	8	22.5°	0.688	0.95	49
10"	11.25	7.8	2.5	14.25	7/8-9	12	15°	0.866	0.95	76
12"	12.21	9.21	3	17	7/8-9	12	15°	0.866	1.06	112
14"	12.76	10.28	3	18.75	1-8	12	15°	1.063	1.42	140
16"	13.78	11.58	3.37	21.25	1-8	16	11.25°	1.063	1.42	210
18"	14.76	12.64	4.12	21.96	1 1/8-7	16	11.25°	1.063	1.42	240
20"	15.75	13.66	5.13	25	1 1/8-7	20	9°	1.42	1.97	340
24"	18.98	16.3	5.96	29.5	1 1/4-7	20	9°	1.42	1.97	500

TORQUE

Valve Size	50psi
2"	134
2.5"	194
3"	325
4"	470
5"	692
6"	893
8"	1439
10"	2438
12"	4099
14"	6780
16"	9005
18"	11037
20"	13665
24"	26281

CV VALUES

Size	10°	20°	30°	40°	50°	60°	70°	80°	90°
2"	2	3.5	8	21	40	87	108	141	170
2.5"	3	5	11	27	52	121	172	253	332
3"	8	16	23	50	92	147	224	420	473
4"	17	33	57	110	182	297	462	773	913
5"	47	94	142	231	380	578	908	1485	1650
6"	91	182	248	396	627	902	1386	2063	2178
8"	116	231	330	528	858	1452	2508	4158	4257
10"	223	446	633	935	1320	2090	3630	6710	7095
12"	303	605	825	1320	2063	3135	5528	10230	10780
14"	356	715	908	1650	2530	3850	6820	10670	11550
16"	440	880	1100	2035	3190	5060	8250	11660	14850
18"	605	1210	1540	2695	4180	5500	10670	15235	19800
20"	770	1540	1815	3355	5280	8140	13750	119525	25300
24"	1100	2200	2640	4620	7260	11550	18700	25300	36108

SPECIFICATIONS

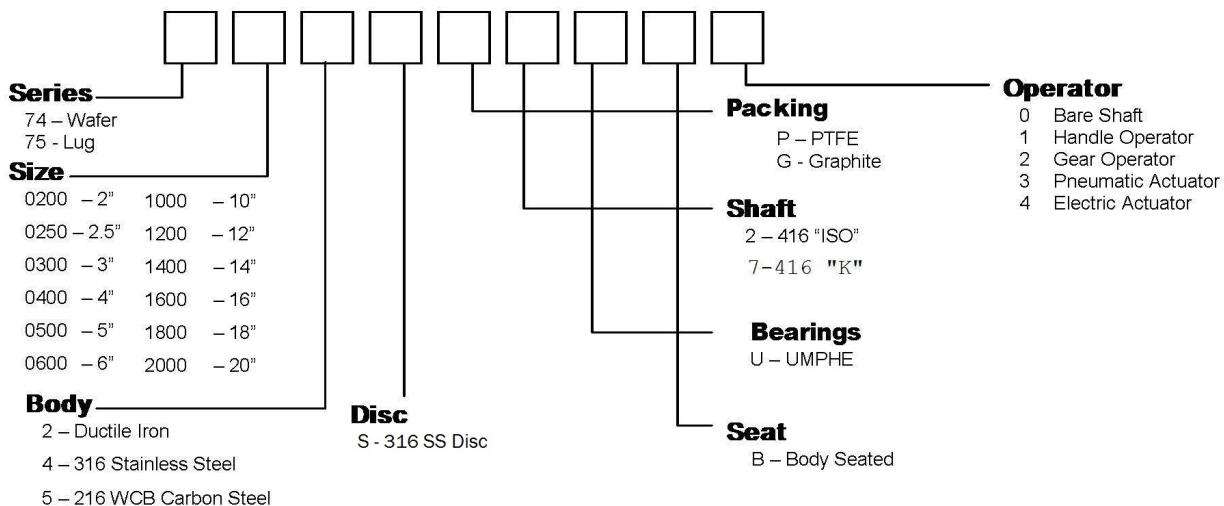
Materials of Construction

1	Body	CS ASTM A-126 WCB / 316 SS / Ductile Iron
2	Bearing	SS/ UMPHE/ Bronze
3	Shaft	416 SS ISO / 416 SS "K"
4	Disc	316 SS
5	Seat	RTFE / PTFE
6	Packing	Bronze / UMPHE / SS

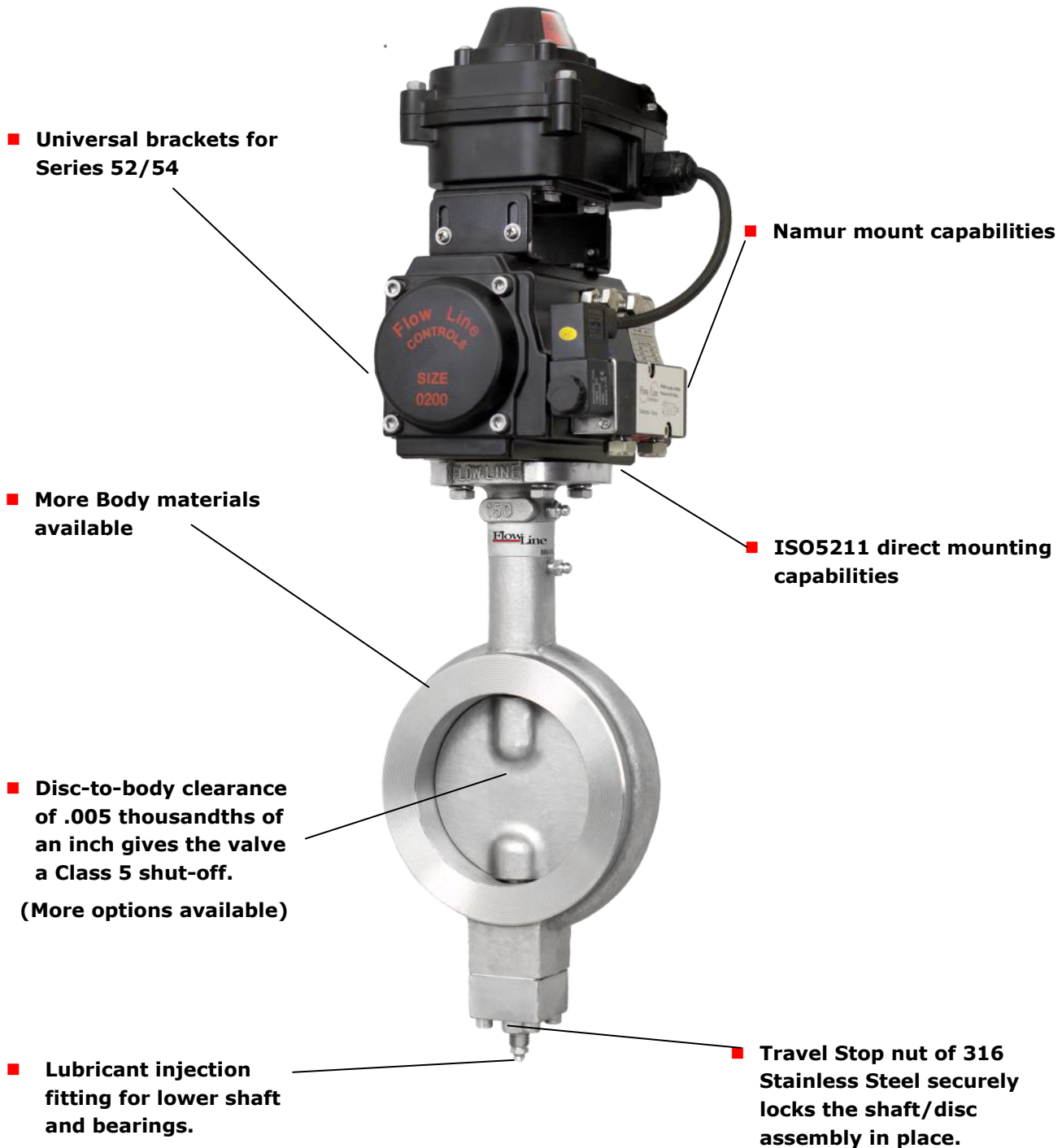
Applicable Standards

- **ANSI B16.1:** Conforms to ANSI Class 125 flange drilling.
- **ANSI B16.5:** Conforms to ANSI 150 flange drilling.
- **ANSI B16.42:** Conforms to ANSI Class 150 flange drilling, body wall thickness
- **MSS SP-25:** Markings and identification conform to the requirements
- **API 609:** Butterfly Valve Category A & B
- **ISO 5211:** Actuator Mounting
- **ABS:** American Bureau of Shipping

How To Order



FEATURES



Consult factory for specific body applications.

INSTALLATION, MAINTENANCE AND ASSEMBLY



Series 21 spring return actuators are available throughout the size range.



Series 50 solenoid valves are available in 1/8", 1/4", and 1/2"NPT.



Series 52 and 53 limit switches provide local and remote valve position.



Series 55 and 56 positioners are available with either a 3-15 psi or 4-20 MADC signal.

Installation

To install, simply close the valve, position between the flanges and assemble the valve to the flanges with studs or cap screws. Do not use flange gaskets. Flow Line Series 74 and 75 butterfly valves can be installed with the disc closed. Before hand tightening the flange bolts, fully open the disc to ensure disc O.D. clearance with pipe I.D. Hand tighten the flange bolts and close the valve to check for valve disc and pipe clearance. If contact is made, reposition as necessary and tighten all flange bolts to proper torque specification.

Maintenance and Repair

No regular maintenance or lubrication is required. Factory assembly procedures provide adequate lubrication for the life of the valve. To replace any component, remove valve from the line by fully closing valve disc. Spread flanges, remove all bolts then remove valve from line.

Testing

All Flow Line Series 74 butterfly valves are bi-directionally tested to 130 percent of rated working pressure. Test certification is available upon request at time of order.

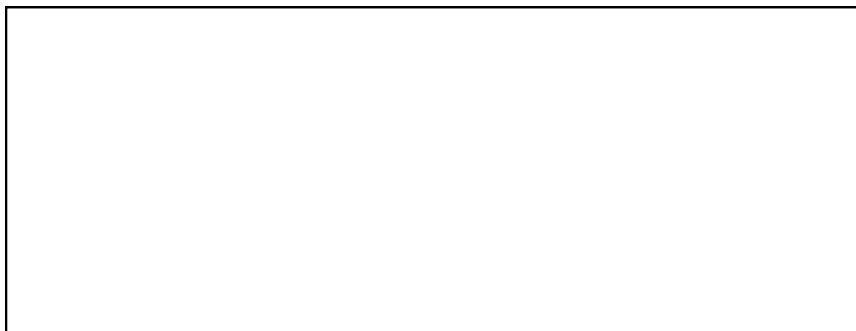
Flanges

ANSI 125/150 cast iron, steel, raised face, flat faced weld neck, slip on and threaded flanges are suitable for use with Flow Line butterfly valves. Please contact the factory for proposed installation with plastic flanges.

Warranty

All products manufactured by Flow Line Valve and Controls, LLC. are warranted against defects in material and workmanship for a period of 2 years following the date of purchase.

All statements, technical information, and recommendations in the bulletin are for general use only. Flow Line Valve and Controls, LLC. Is not responsible for suitability or compatibility of these products in relation to system requirements. Consult Flow Line Valve and Controls, LLC.'s distributors or factory for the specific requirements and material selection for your intended application. Flow Line Valve and Controls, LLC. reserves the right to change or modify product or product design without prior notice. Flow Line Valve and Controls, LLC. is not responsible for editorial or pictorial errors within this literature.



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