

# Class 150 Ductile Iron Body Angle Valves

Raised Face Flanges • Bolted Bonnet • Outside Screw and Yoke • Bronze Trim

**285 PSI/19.7 bar non-shock cold working pressure to -20°F to 100°F/-29°C to 38°C\***

**Maximum working temperature 450°F/232°C at 185 PSI/12.6 bar**

**150 PSI/10.3 bar saturated steam to 366°F/186°C**

TESTING SPECIFICATION TO MSS SP-85

## MATERIAL LIST

PART	SPECIFICATION
1. Handwheel Nut	Steel ASTM A563
2. Identification Plate	Aluminum
3. Handwheel	Iron ASTM A126 Class B
4. Yoke Bushing	Brass ASTM B584
5. Bonnet	Ductile Iron ASTM A395
6. Stem	Brass ASTM B371 Alloy C69400 or C69430
7. Gland Follower Nut	Brass ASTM F467 Alloy C27000
8. Gland Follower Stud	Steel ASTM A307/SAE J429
9. Gland Follower	Ductile Iron ASTM A536
10. Packing Gland	Zinc Plated Powdered Iron ASTM B 310 or Brass ASTM B 372 C69400
11. Packing	PTFE Braided
12. <sup>1</sup> Body Bolt	Steel ASTM A307/SAE J429
13. Body Gasket	Synthetic Fibers
14. <sup>1</sup> Body Nut	Steel ASTM A563
15. Swivel Nut	Brass ASTM B584 Alloy C84400
16. <sup>2</sup> Disc	Brass ASTM B584 Alloy C84400
17. Seat Ring	Brass ASTM B584 Alloy C84400
18. Body	Ductile Iron ASTM A395

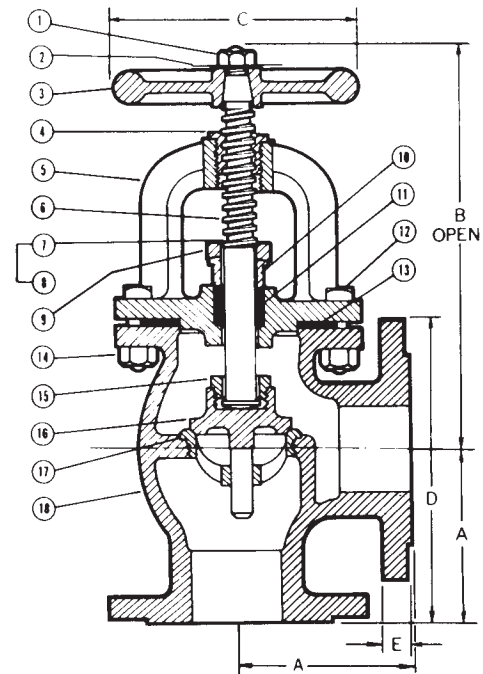
<sup>1</sup> 2" have hex head steel capscrew.

<sup>2</sup> For Disc 2" thru 6" have Bronze ASTM B584 Disc. 8" thru 10" have Ductile Iron Disc with Bronze ASTM B584 Disc Face Rings and Brass Pilots.

Consult Factory for non-return feature. Fig. No. F-838-31NR.



**F-838-31**  
Flanged-Raised Face



**F-838-31**  
Flg x Flg

## DIMENSIONS—WEIGHTS—QUANTITIES

Size	Dimensions										Weight		
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	
2	50	4.00	102	10.00	254	8.00	203	6.00	152	.63	16	30	14
2½	65	4.25	108	11.50	292	8.00	203	7.00	178	.69	17	51	23
3	80	4.75	121	12.25	311	8.00	203	7.50	191	.75	19	60	27
4	100	5.75	146	15.00	381	10.00	254	9.00	229	.94	24	99	45
5	125	6.50	171	16.50	419	10.00	254	10.00	254	.94	24	132	60
6	150	7.00	178	18.88	479	12.00	305	11.00	279	1.00	25	188	85
8	200	9.75	248	20.75	527	16.00	406	13.50	343	1.13	29	349	158

**FREEZING WEATHER PRECAUTION:** Subsequent to testing a piping system, valves should be left in an open position to allow complete drainage.

◆ For detailed Operating Pressure, refer to Pressure Temperature Chart on page 114.

Install 5 pipe diameters minimum downstream from pump discharge or changes in direction to avoid flow turbulence. Flow straighteners may be required in extreme cases.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Visit [www.nibco.com](http://www.nibco.com) for current Chem-Guide and galvanic potential in piping systems information.