

## CIRCUIT BALANCING VALVE

### M2000 Metering Station

- Stainless steel metering stations (also known as orifice plates) are used for the measurement of water flows in heating and chilled water circuits in HVAC systems.
- Manufactured from 304 grade stainless steel, the orifice is integral with the body allowing for easy installation. Upstream and downstream pressure tapping points are provided in the body avoiding the need for pressure tappings to be made in adjacent pipes.
- The body locates centrally inside the flange bolt circle and is provided with a shallow spiral machined finish for maximum sealing performance with the gaskets.
- Stainless steel extension pieces place the test points outside the main flange diameter for ease of access. Self-sealing test points have a sealed screwed cap for added security which is retained by plastic straps to avoid accidental loss. The cap straps are colored red (upstream) and blue (downstream).
- The body is marked with a directional flow arrow and also marked + (upstream) and - (downstream) to ensure the red and blue test points are assembled correctly.
- The metering station may be close coupled to the upstream flange of a globe type regulating valve but when used with butterfly valves, a length of straight pipe at least equal to 1.5 x diameter must be placed between the valve and the metering station.

#### DESIGN CRITERIA

- For use in ASME/ANSI Class 125 and Class 150 flanged systems
- Size range 2 ½" – 24" (larger sizes available)
- Maximum temperature 248°F



**M2000**  
Metering Station

#### Body Marking



— ↑ 4" ANSI 125 SS304 +



Developed View

# M2000 Metering Station

- Fixed Orifice Metering Station • 304 Stainless Steel • Wafer Pattern
- Suitable for Fitting Between ASME/ANSI Class 125/150 Flanges
- Fitted with 2 Test Points for Differential Pressure Measurement

**Sizes: 2 ½" - 12"**

**200 PSI Non-Shock Cold Working Pressure to 150°F  
Maximum Temperature 248°F @ 175 PSI**

**Sizes: 14" - 24"**

**150 PSI Non-Shock Cold Working Pressure to 150°F  
Maximum Temperature 248°F @ 175 PSI**



**M2000  
Metering Station**

### MATERIAL LIST

PART	SPECIFICATION
1. Housing	304 Stainless Steel ASTM A276
2. Test Point (2)	Brass ASTM B16 C36000
3. Extension (2)	304 Stainless Steel ASTM A276

### DIMENSIONS—WEIGHTS

Size	Dimensions						Weight		
	A		B		C		Lbs.	Kg.	
In.	mm.	In.	mm.	In.	mm.	In.	mm.		
2½	65	4.80	122	6.73	171	0.71	18	3.3	1.5
3	80	5.28	134	6.97	177	0.71	18	4.0	1.8
4	100	6.81	173	7.76	197	0.71	18	4.4	2
5	125	7.64	194	8.19	208	0.71	18	5.7	2.6
6	150	8.66	220	8.66	220	0.71	18	6.6	3
8	200	10.94	278	9.80	249	0.71	18	11.0	5
10	250	13.31	338	10.98	279	0.71	18	13.2	6
12	300	16.06	408	12.36	314	0.71	18	19.8	9
14	350	17.64	448	13.15	334	0.87	22	27.5	12.5
16	400	20.16	512	14.41	366	0.87	22	33.0	15
18	450	21.61	549	14.84	377	1.18	30	55.0	25.0
20	500	23.90	607	16.00	406	1.18	30	59.9	27.2
24	600	28.27	718	18.19	462	1.18	30	78.2	35.6

