

FIG. 171N International Brass Ball Valve



The 171N Threaded Ball Valves are UL listed and FM Ap- proved for use in fire protection systems.

Valves have a rugged, dependable design, meeting rigid specification for residential, commercial and industrial applications. The two piece 171N full port design is available in sizes 1/4" through 4". All valves conform to MSS-SP-11 0, MSS-SP-25 and Federal Specification WW-V-35B Type II, Class A Style 3. The valves are available in triple stem seal, hard chrome plated ball, blow-out proof stem, with an adjustable packing gland; and provide a bubble tight shut off and a floating ball for an economical solution.



US APPROVE

For Listing/Approval Details and Limitations, isit our website at www.anvilstar.com or contact on Anvil®/Anvilstar™ Sales Representative

MATERIAL SPECIFICATIONS

BODY: Brass, ASTM B124, Alloy C37700

RETAINER: Brass, ASTM B124, Alloy C37700

BALL: Brass, ASTM B124, Alloy C37700 Chrome Plated **STEM:** Brass, ASTM B124, Alloy C37700 Nickel Plated

SEAT RING: PTFE PACKING: PTFE

PACKING NUT: Steel, Zinc

PACKING GLAND: Brass, ASTM B124, Alloy C37700 Nickel Plated

FRICTION WASHER: PTFE
STEM O-RING: NBR 75 Shore A

HANDLE: Steel, Zinc Plated to 2", Aluminum to 4"

HANDLE COVER: Yellow PVC Coated to 2", Yellow Enamel to 4"

HANDLE NUT: Steel, Zinc Plated

AVAILABLE OPTIONS* LEVER HANDLE: 1/4" - 4"

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	■ Approved as noted
Contractor:	■ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	



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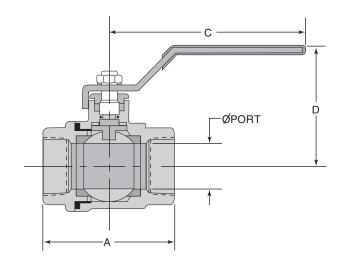
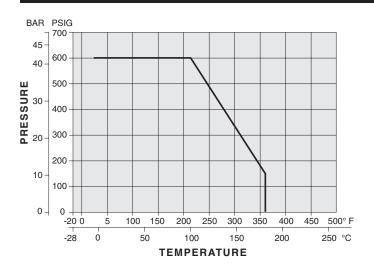


FIGURE 171N FULL PORT							
Nominal Size	Port Dia.	A	С	D	Cv	Approx. Wt. Ea.	
In./mm	In./mm	In./mm	In./mm	In./mm		Lbs./Kg	
1/4	3/8	2	37//8	13/4	6	0.3	
8	10	51	98	45		0.1	
3/8	3/8	2	37//8	13/4	7	0.3	
10	10	51	98	45		0.1	
1/2	%16	27/16	37//8	11//8	19	0.4	
15	14	62	98	48		0.2	
3/4	3/4	211/16	413/16	21/4	35	.7	
20	19	68	122	57		0.3	
1	15/16	31/16	413/16	27/16	50	1.0	
25	24	78	122	62		0.5	
11/4	11/4	31/16	6	31/16	104	2.0	
32	32	87	152	78		0.9	
11/2	1%16	37//8	6	35/16	268	3.1	
40	40	98	152	84		1.4	
2	115/16	4 5/16	63/8	313/16	309	4.2	
50	49	110	162	97		1.9	
21/2	2%16	5%16	81/16	5	629	8.0	
65	65	141	205	127		3.7	
3	31//8	67/16	85/16	57/16	1018	12.0	
80	79	164	205	138		5.9	
4	315/16	7%	101/4	65/16	1622	22.0	
100	100	194	260	160		10.0	

PRESSURE VS. TEMPERATURE



Notes:

- 1. Dimensions of solder joint ends conform to ANSI B16.22. Solder end valves are designed to be used with solders not exceeding a melting point of 470°F/250°C. Higher temperatures may damage the seal material.
- 2. For solder joint valves, the pressure/temperature rating is dependent on the solder material used. Please refer to the limitations listed in ANSI B16.18.
- Rate of Flow Calculations for liquids: To determine the flow rate of a liquid passing through a valve, use the following formula:

$$Q_{L} = C_{V} \left(\sqrt{\frac{\Delta P}{S_{L}}} \right)$$

Where: Q_L = flow of liquid in gallons per minute (GPM)

Cv = flow coefficient ΔP = pressure drop (PSI) Sι = specific gravity of liquid