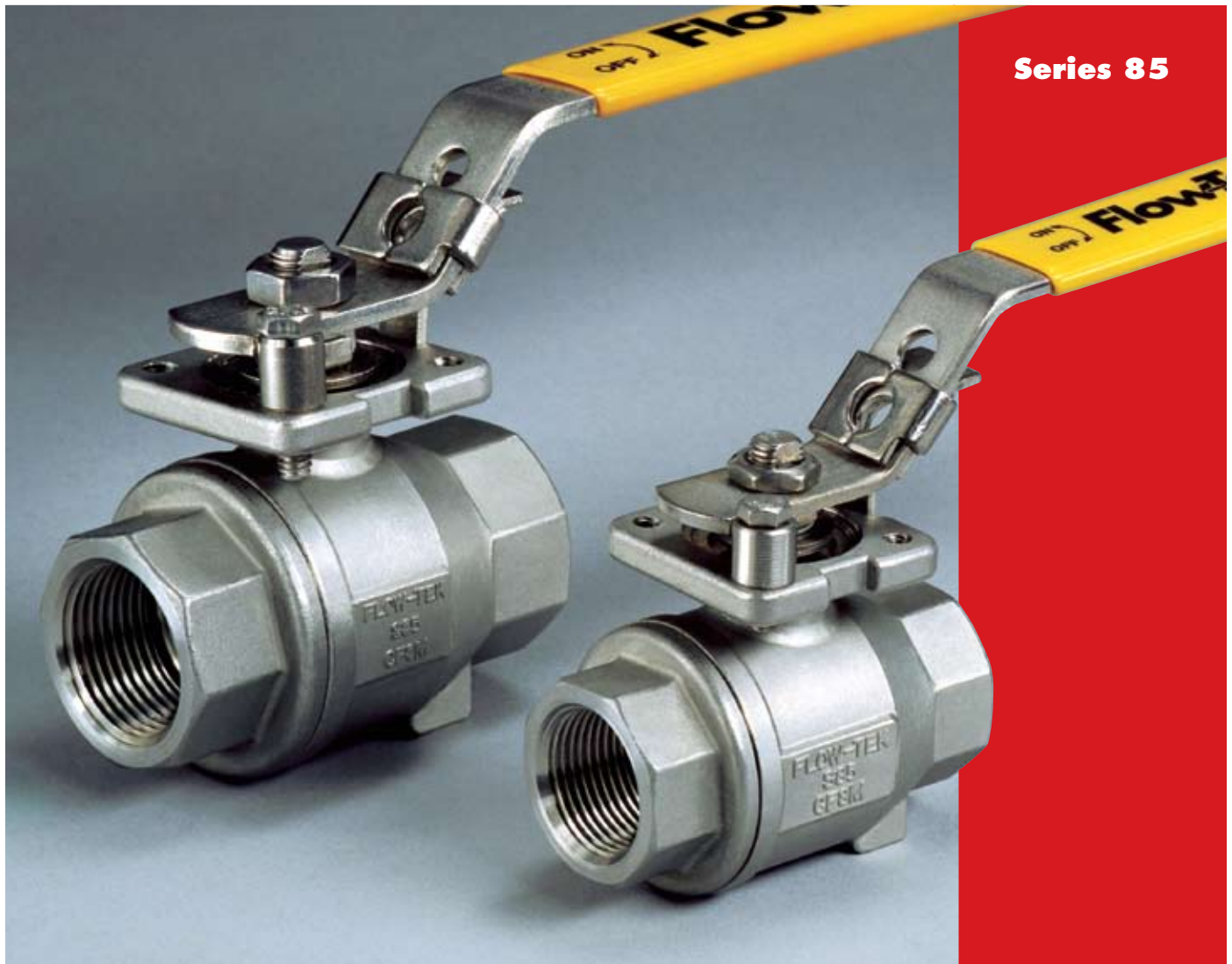




# Flow-Tek®

A Subsidiary of BRAY INTERNATIONAL, Inc.

## 2 Piece Threaded Full Port Ball Valves: 1/2" - 3"



Flow-Tek's Series S85 ball valves have been designed for ease of automation. Standard 2-piece valve bodies are investment cast Stainless Steel, solution annealed for the highest quality and added strength. All body castings are marked with a foundry heat number for full traceability.

These valves offer quarter turn operation and low operating torque. The S85 features live-loaded, self-adjusting stem seals that automatically adjust packing to

compensate for changes in wear and temperature. Other features include replaceable seats and seals, anti-static devices, blowout proof stems, and stainless steel safety latch handles.

**Secure Mount** The Series S85 features Flow-Tek's Secure Mount integrally cast actuator mounting pad. The Secure Mount fully complies with ISO 5211, ensuring positive alignment and interchangeability of the actuator.

**Pressure Rating** 1000 psi WOG

**Steam Rating** 150 psi WSP

**Temperature Range**

-50°F to +450°F

-46°C to +232°C

**End Connections** Threaded - NPT

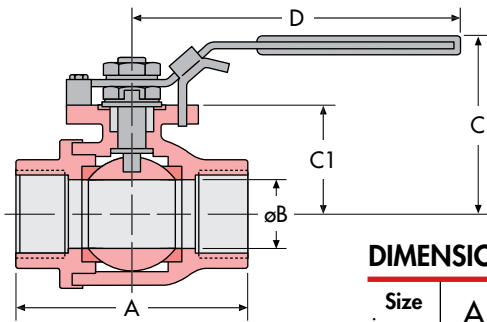
**Body Material** Stainless Steel

# Technical Data

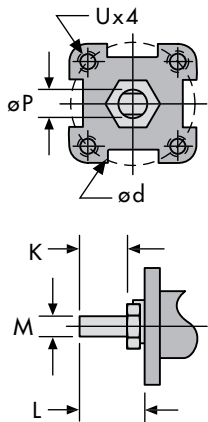
## COMPONENTS AND MATERIALS

Item	Name	Material	Qty.
1	Body	ASTM A351 Gr CF8M	1
2	End Cap	ASTM A351 Gr CF8M	1
3	Ball	ASTM A351 Gr CF8M	1
4	Seat*	RPTFE	2
5	Stem	ASTM A479 Type 316	1
6	Body Seal*	RPTFE	1
10	Anti-Static Device	SS304	2
11 A/B	Thrust Bearing*	PEEK	1/1
12	Thrust Washer*	50% PTFE + 50% 316	1
14	Stem Packing*	PTFE/RPTFE	4
15	Packing Gland	SS304	1
18	Belleville Washer	SS301	2
19	Tab Lock Washer	SS304	1
23	Stop Set Sleeve	SS304	1
24	Stop Bolt	SS304	1
25	Handle	SS304	1
26	Nut	SS304	2
28	Handle Sleeve	Vinyl	1
29	Locking Device	SS300	1

\*Parts included in the repair kits



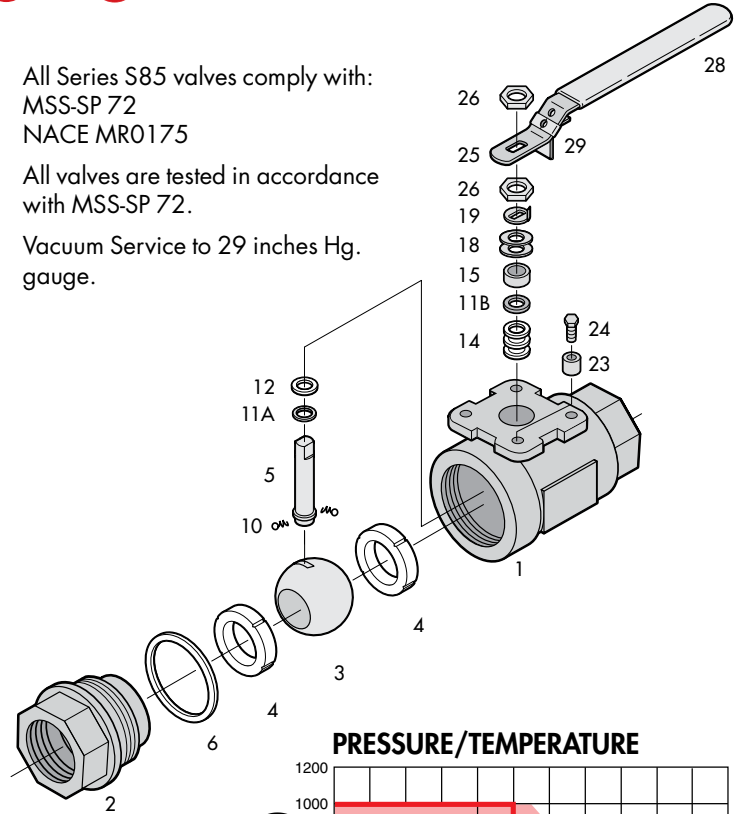
Verify mounting dimensions before manufacturing mounting hardware.



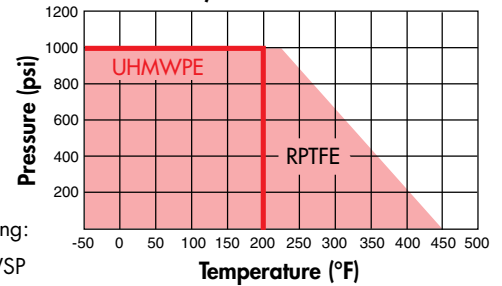
All Series S85 valves comply with:  
MSS-SP 72  
NACE MR0175

All valves are tested in accordance with MSS-SP 72.

Vacuum Service to 29 inches Hg. gauge.



### PRESSURE/TEMPERATURE



### DIMENSIONS AND WEIGHTS

Size ins mm	A	øB Port	C	C1	D	ød	K	L	M	øP	U UNC	C <sub>v</sub>	Torque Weight	
													lbs-in*	lbs kg
1/2	2.56	0.59	2.52	1.13	6.50	1.65	0.35	0.65	0.25	0.37	#10-24	12	60	65
15	65	15	64	28.7	165.1	42	9	16.5	6.4	9.4	#10-24	7	7	0.3
3/4	2.99	0.79	2.80	1.40	6.50	1.65	0.35	0.65	0.25	0.37	#10-24	38	96	1.45
20	76	20.1	71	35.5	165.1	42	9	16.5	6.4	6.4	#10-24	11	11	0.7
1	3.46	0.98	3.11	1.61	7.87	1.97	0.55	0.87	0.32	0.43	1/4"-20	66	140	2.36
25	87.9	25	79	41	200	50	14	22	8	10.9	1/4"-20	16	16	1.1
1 1/4	3.82	1.26	3.66	2.16	7.87	1.97	0.55	0.97	0.32	0.43	1/4"-20	105	195	3.50
32	97	32	93	54.95	200	50	14	20	8	10.9	1/4"-20	22	22	1.6
1 1/2	4.33	1.50	3.94	2.28	9.84	2.76	0.59	1.02	0.37	0.62	5/16"-18	190	315	4.85
40	110	38.1	100.1	58	249.9	70	15	26	9.5	15.8	5/16"-18	36	36	2.2
2	5.28	2.00	4.25	2.60	9.84	2.76	0.59	1.02	0.37	0.62	5/16"-18	275	510	7.30
50	134.1	50.8	108	66	249.9	70	15	26	9.5	15.8	5/16"-18	58	58	3.3
2 1/2	6.18	2.56	5.00	3.39	9.65	4.02	0.75	1.14	0.47	0.75	5/16"-18	480	800	13.5
65	157	65	127	86	245.1	102	19	29	12	19.1	5/16"-18	91	91	6.1
3	7.52	2.99	5.71	3.94	5.98	4.02	0.88	1.28	0.47	0.75	5/16"-18	797	1100	25.3
80	191	76	145	100	151.9	102	22.4	32.5	32.5	11.9	5/16"-18	125	125	11.5

\*Based on RPTFE seats at full rated pressure.



# Flow-Tek®

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