



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 $+450^{\circ}$ F -46° C to $+232^{\circ}$ C

End Connections Threaded - NPT

Body Material Stainless Steel

















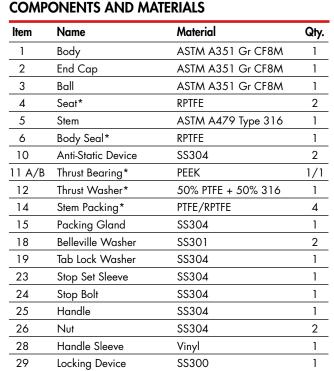
Technical Data

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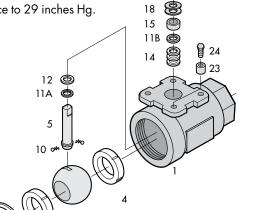
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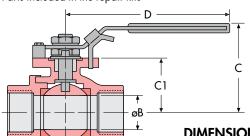
All Series S85 valves comply with: MSS-SP 110 NACE MR0175 All valves are tested in accordance

with MSS-SP 110.

Vacuum Service to 29 inches Hg. gauge.







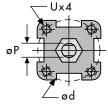
PRESSURE/TEMPERATURE 1200 1000 **UHMWPE** (psi) Pressure 600 400 RPTFE 200 Steam Rating: 100 150 200 250 300 350 400 450 50 0 50 -50 150 psi WSP Temperature (YF)

DIMENSIONS AND WEIGHTS

Torque	Weigh

Size ins mm	Α	ØB Port	С	C1	D	ød	K	L	М	øΡ	UNC	Cv	lbs-in* Nm	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	38	60	65
15	65	15	64	28.7	165.1	42	9	16.5	6.4	9.4			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	66	96	1.45
20	76	20.1	71	35.5	165.1	42	9	16.5	6.4	6.4			-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	105	140	2.36
25	87.9	25	79	41	200	50	14	22	8	10.9			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	190	195	3.50
32	97	32	93	54.95	200	50	14	20	8	10.9			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	275	315	4.85
40	110	38.1	100.1	58	249.9	70	15	26	9.5	15.8			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	480	510	7.30
50	134.1	50.8	108	66	249.9	70	15	26	9.5	15.8			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	797	800	13.5
65	157	65	127	86	245.1	102	19	29	12	19.1			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	1150	1100	25.3
80	191	76	145	100	151.9	102	22.4	32.5	32.5	11.9			125	11.5

Verify mounting dimensions before manufacturing mounting hardware.





^{*}Based on RPTFE seats at full rated pressure.



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