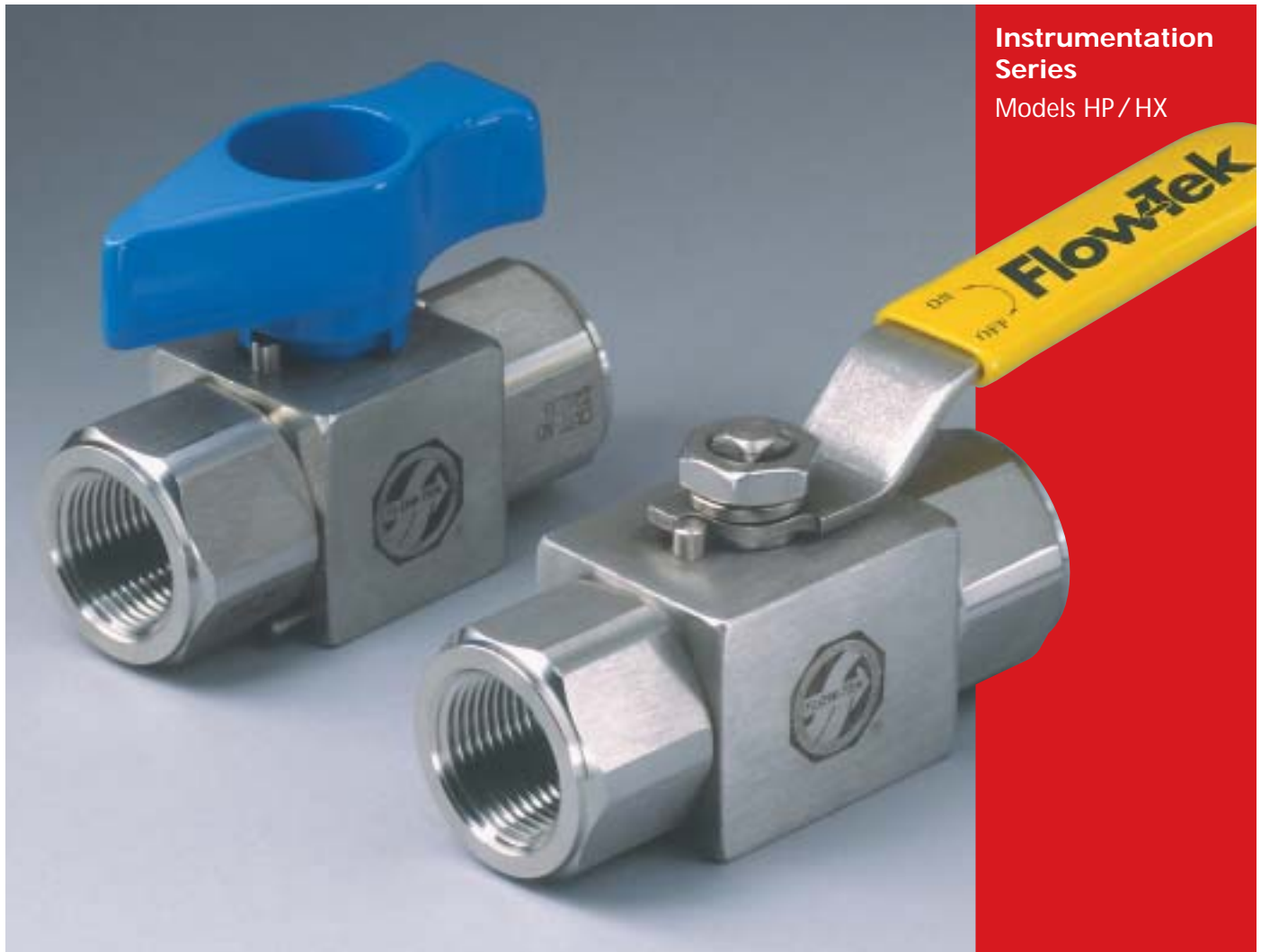


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Threaded Standard Port Ball Valves, 1/4" - 1" For High Pressure Applications



**Instrumentation
Series**
Models HP/HX

Flow-Tek's Instrumentation Series ball valves offer rugged reliability for high pressure and instrumentation applications. The valves feature three piece bodies designed for flexibility of installation and ease of maintenance. Both models HP and HX are constructed as standard with 316 stainless steel bodies manufactured to NACE specifications. Other body materials are available such as Duplex SS, Hastelloy, Monel and Titanium. All bodies are marked with a heat code for full material traceability.

A floating ball design provides a positive, bubble tight shut off with smooth quarter turn operation at low operating torque. Additional Instrumentation Series advantages include a choice of lever or pointer handles, travel limit stop pins and replaceable seats and seals. Locking kits which secure the valve in a desired position are also available.

Safety features include an internally loaded blow-out proof stem and end connections that are pinned to prevent inadvertent loosening or disassembly.

Pressure Ratings

Model HP: 6,000 psi
Model HX: 10,000 psi

End Connections

Standard: NPT
Optional: Compression Fittings

Technical Data

Model HP DIMENSIONS

Size ins mm	A	∅B	C	D	□E	F	□G	H	Torque lbs-ins Nm	Weight lbs. kg.
1/4 6	2.795 71	0.394 10	1.772 45	4.528 115	1.260 32	0.630 16	0.335 8.5	1.929 49	30 3.4	1.2 0.5
3/8 10	3.031 77	0.394 10	1.772 45	4.528 115	1.260 32	0.630 16	0.335 8.5	1.929 49	30 3.4	1.2 0.5
1/2 15	3.346 85	0.394 10	1.772 45	4.528 115	1.260 32	0.630 16	0.335 8.5	1.929 49	30 3.4	1.2 0.5
3/4 20	3.543 90	0.500 12.7	1.969 50	4.528 115	1.496 38	0.591 15	0.335 8.5	2.047 52	80 9.0	1.7 0.8
1 25	4.370 111	0.787 20	2.362 60	6.496 165	1.969 50	1.063 27	0.492 12.5	—	90 10.2	4.0 1.8

A 3-Way version of the Model HP valve is also available. Please see Flow-Tek brochure #3HP.

Testing

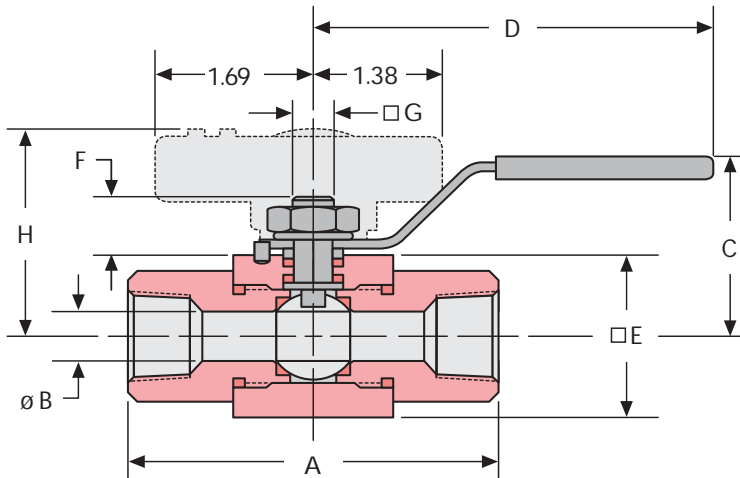
All valves are factory tested in the Open and Closed position for bubble tight integrity before shipping to the following test pressures:

Shell: HP-9,000 psig
HX-15,000 psig
Seat: 1.1 x Rated Pressure
Final Seat Test: 100 psig Air

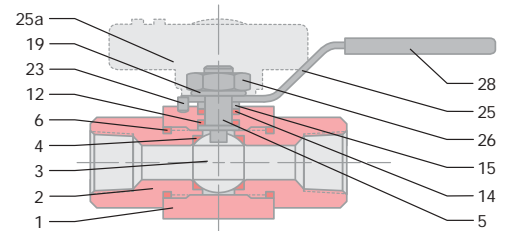
Model HX

Size ins mm	A	∅B	C	D	□E	F	□G	H	Torque lbs-ins Nm	Weight lbs. kg.
1/4 6	3.189 81	0.394 10	1.772 45	4.528 115	1.260 32	0.630 16	0.335 8.5	1.929 49	45 5.1	1.2 0.5
3/8 10	3.425 87	0.394 10	1.772 45	4.528 115	1.260 32	0.591 15	0.335 8.5	1.929 49	45 5.1	1.2 0.5
1/2 15	3.740 95	0.394 10	1.772 45	4.528 115	1.260 32	0.630 16	0.335 8.5	1.929 49	45 5.1	1.3 0.6
3/4 20	3.937 100	0.500 12.7	1.969 50	4.528 115	1.496 38	0.591 15	0.335 8.5	2.047 52	95 10.7	1.9 0.9
1 25	4.803 122	0.787 20	2.362 60	6.496 165	1.969 50	1.063 27	0.492 12.5	—	130 14.7	4.2 1.9

∅Indicates round dimensions. □Indicates square dimensions.



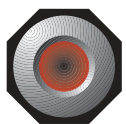
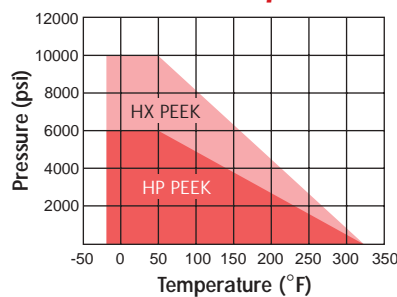
Components & Materials



Item	Name	Material	Qty.
1	Body	Stainless Steel 316	1
2	End Connector	Stainless Steel 316	2
3	Ball	Stainless Steel 316	1
4	Seat*	PEEK	2
5	Stem	Stainless Steel 316	1
6	Body Seal*	RPTFE	2
12	Thrust Washer*	RPTFE	1
14	Stem Packing*	RPTFE	1
15	Packing Gland	Stainless Steel	1
19	Lock Washer	Stainless Steel	2
23	Stop Pin	Stainless Steel	1
25	Lever Handle	Stainless Steel	1
25a	Pointer Handle	Mazak 3	1
26	Lock Nut	Stainless Steel	1
28	Handle Sleeve	Vinyl	1

*Parts included in the repair kits.

Pressure/Temperature



Flow-Tek

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