

# Mark H-900, H-1500 and H-2500 Series

## Globe Style Control Valves

The Mark H Series Control Valve provides excellent pressure and flow control on steam, gasses and various liquid applications.

The Mark H2D valve is a single port, globe body with cage guiding, and balanced valve plug with push down to close action. Suitable for general applications where tight shutoff is not required.

The Mark H5T valve is a single port, globe body with cage guiding, balanced valve plug, metal seat and pressure assisted spring seal to provide a seal between the valve plug and cage. Suitable for applications which require low leakage rates.

### FEATURES

- Two trim configurations available, ED and ET
- Cage guiding allows the Mark H900/H1500/H2500 to handle high pressure drops while providing greater plug stability
- High pressure capability, up to Class 2500
- Characterized flow options include equal percentage and quick opening
- Optional body and trim materials are available
- Sour service capability: Optional NACE MRO175/ISO 15156-2009



**Typical Mark H Series  
Body with Trim and Seals**

## SPECIFICATIONS

**Sizes:** 3", 4" & 6"

**End Connections:**

- ANSI class 900 through 2500
- Raised Face, Ring Type Joint, or welded flanges.

**Body Materials:**

- LCC
- WCB
- CF8M
- CF3M
- WCC
- Additional materials may be available upon request

**Trim Materials:**

- 316SST (standard)
- Alloy 6
- Cobalt
- Tungsten Carbide

**Seats:** Metal

**Shutoff:** Class II, III, IV & V

**Maximum Inlet Pressures and Temperatures:** The Maximum Inlet Pressure and Temperature is consistent with ASME Class per ASME 16.34.

**Maximum Pressure Drops:** All valves are capable of Full Rated Pressure Drops

**Flow Characteristics:**

- Quick Opening
- Linear
- Equal Percentage

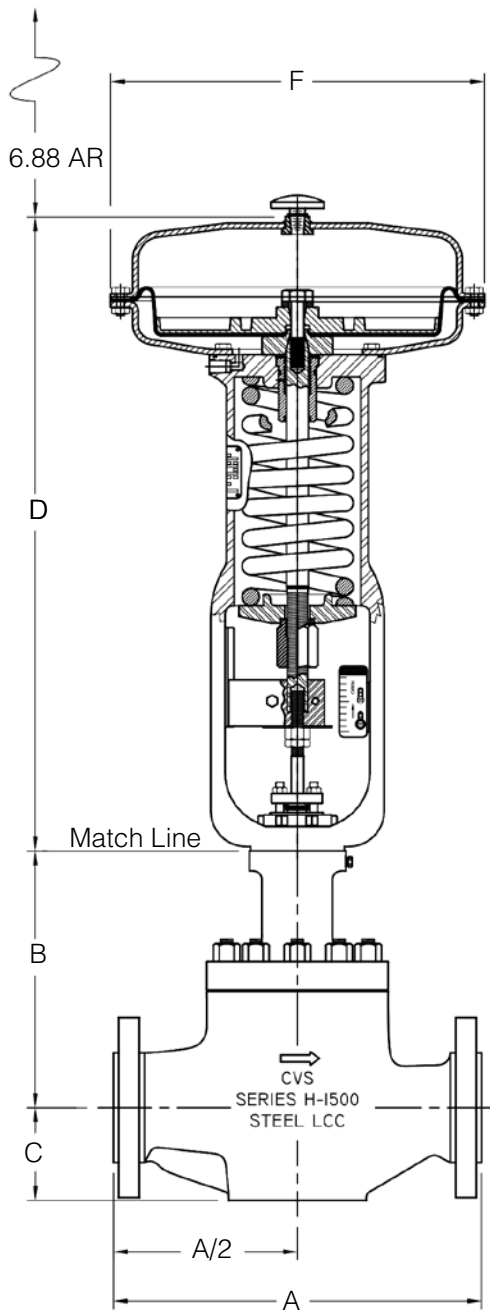
**Trim Options:**

- Noise abatement
- Anti-cavitation

**Flow Direction:** Flow Down

**Valve Travel Indication:** Valves are supplied with Visual Travel Indicator

MARK H-900, H-1500 & H-2500 SERIES GLOBE STYLE CONTROL VALVES



**DIMENSIONS**

H-900, H-1500, and H-2500 Valve Bodies							
Size	Face to Face Dimension "A"	900 ANSI		1500 ANSI		2500 ANSI	
		in.	mm	in.	mm	in.	mm
3	Raised Face (RF)	17.38	442	18.12	460	19.62	498
	Ring Type Joint (RTJ)	17.50	445	18.25	464	19.88	505
4	Raised Face (RF)	20.12	511	20.88	530	22.62	575
	Ring Type Joint (RTJ)	20.25	515	21.00	534	23.00	584

1500 ANSI Dimension "B"	2 13/16 Yoke Boss		3 9/16 Yoke Boss	
	in.	mm	in.	mm
3 inch	12.94	329	12.56	319
4 inch	---	---	12.88	327

2500 ANSI Dimension "B"	2 13/16 Yoke Boss		3 9/16 Yoke Boss	
	in.	mm	in.	mm
3 inch	12.25	311	11.88	302
4 inch	---	---	12.56	319

1500 ANSI Dimension "C"	in.	mm
	3 inch	4.38
4 inch	5.38	137

2500 ANSI Dimension "C"	in.	mm
	3 inch	4.50
4 inch	5.38	137

**Approximate Weights**

Approximate Weight (Valve Body Assembly and Bonnet)	Body Size (in)	ANSI Class H-900 & H-1500						ANSI Class H-2500			
		BWE		Class H-900 FLG		Class H-1500 FLG		BWE		FLG	
		lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
		3	365	166	465	211	485	220	522	234	700
4	510	232	620	282	680	309	607	275	800	363	

## MARK H-900, H-1500 AND H-2500 SERIES GLOBE STYLE CONTROL VALVES

**Interpolation Table: Cv Coefficients for the Mark H-900 and H-1500 Series**

H-900 and H-1500			
Percent Travel	3"	4"	6"
	km= 0.85	km= 0.76	km= 0.76
10	2.4	2.4	3.8
20	5.6	6.1	12.6
30	12.7	13.2	27.8
40	22.1	24.8	50.5
50	33.5	41.2	85.8
60	52.9	61.3	139.0
70	71.6	88.2	197.0
80	86.1	115.0	261.0
90	99.8	138.0	315.0
100	108.0	145.0	339.0

**Interpolation Table: Cv Coefficients for the Mark H-2500 Series**

H-2500		
Percent Travel	3"	4"
	km= 0.73	km= 0.85
10	0.956	2.38
20	2.86	5.58
30	6.6	12.7
40	12.2	22.1
50	20.4	33.5
60	30.8	52.9
70	43.8	71.6
80	57.4	86.1
90	69.2	99.8
100	76.5	108

**Shutoff Classifications**

Trim Configuration	Port Sizes In. (mm)	ANSI* Shutoff Class	Leakage	Test
ED	2-7/8" (73 mm) and smaller	II (Standard) III (Optional)	0.5% of rated valve capacity	Air at 50 psid (3,4 bar), differential
	3-7/16" (87,3 mm) and smaller	III (Standard)	0.1% of rated valve capacity	Air at 50 psid (3,4 bar), differential
ET	All	IV (Standard)	0.01% of rated valve capacity	Air at 50 psid (3,4 bar), differential
		V (Optional)	5x10—4 ml/minute/inch port diameter/psid (5x10-12 m3/second/ mm of port diameter/bar differential)	Water at maximum service $\Delta P$

\* In accordance with FC170-2-1998

Note: Above values for normal flow directions. Values also apply to Mark ED up to 100 psid in the reverse flow direction  
Contact your Jordan Valve representative for reverse flow applications using the Mark ET**Jordan Valve, a division of Richards Industries**

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