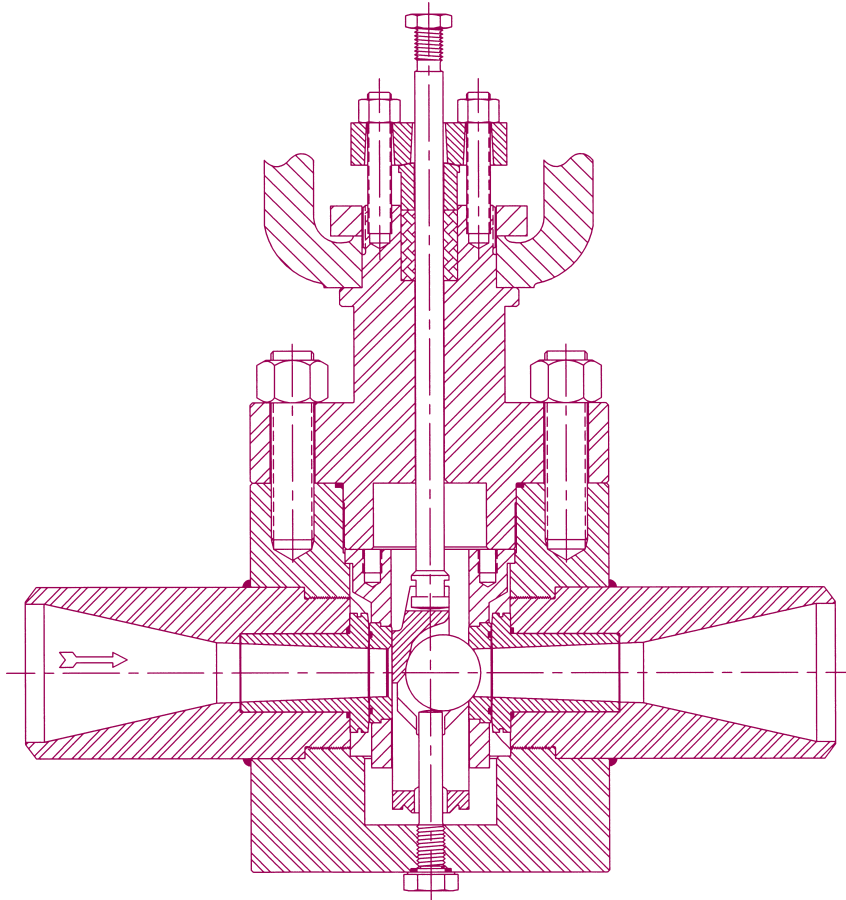


# HI-100

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## Features

- *Straight-thru design*
- 1/4" to 6"
- ANSI 150 to 4500 and Special Class
- Carbon Steel, Stainless, Alloys and Other Materials
- Socket Weld, Raised Face, Butt Welding or Custom Ends
- Temperatures: -425° F to 1900° F
- In-Line repair
- *Quick Change Trim*
- Top or Bottom Entry
- Low Operating Thrust
- Actuation: Manual, Pneumatic, Electric and Hydraulic



*ILLUSTRATION*  
*HI-100 Top Entry with Quick Change Trim*

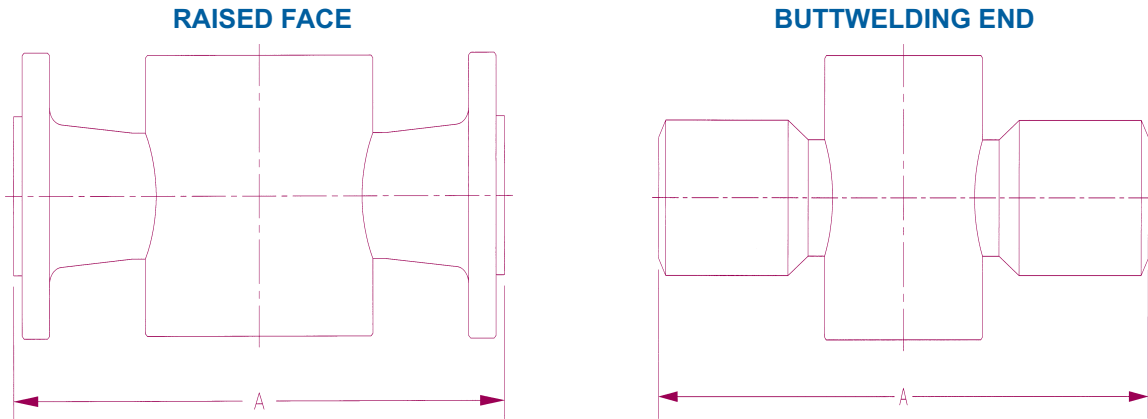
US PATENT # 3749355 & 3779508

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The **HI-100** design features an in-line through ported, venturi flow shape. The seating element, a spherical ball, is contained by a cage that positions it relative to the downstream seat by means of linear stem travel. There are no close clearances between the moving parts (i.e. cage, ball and seat). These basic features enable the valve design to operate smoothly and efficiently at high or low temperatures, and/or with fluids containing foreign matter such as in slurries. The **Quick Change Trim** feature permits *in-line* replacement of the internal trim (ball, stem, cage, seats, seat retainer cartridge and wear bushings). **Interchangeability** of the upstream and downstream seats and wear bushings extends the life of the valve at no extra cost.

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# HI-100



Nominal Valve Size	Class Dimensions (A)*					
	150	300	600	900	1500	2500
1/4	4					
3/8	4					
1/2	4-1/4	6	6-1/2		8-1/2	10-3/8
3/4	4-5/8	7	7-1/2	9	9	10-3/4
1	5	8	8-1/2	10	10	12-1/8
1-1/4	5-1/2	8-1/2	9	11	11	13-3/4
1-1/2	6-1/2	9	9-1/2	12	12	15-1/8
2	8	10-1/2	11-1/2	14-1/2	14-1/2	17-3/4
2-1/2	8-1/2	11-1/2	13	16-1/2	16-1/2	20
3	9-1/2	12-1/2	14	15	18-1/2	22-3/4
4	11-1/2	14	17	18	21-1/2	26-1/2
6	16	17-1/2	22	24	27-3/4	36

\* Copied from ANSI B16.10-1973. Dimensions may vary from the above based on customer requests.

## Flow Coefficient Values

Size	1/4	3/8	1/2	3/4	1	1-1/4
Cv	1	2.5	4.5	10	20	31

Size	1-1/2	2	2-1/2	3	4	6
Cv	45	80	125	180	320	720

Note: All dimensions are in inches.