

## Features and Benefits

- **One Piece Body Integral to Bonnet**
  - Eliminates pressure retaining threads or bolts
  - No welds to cut for servicing
  - Eliminates deposits
- **Y Pattern Forged Body**
  - Excellent flow characteristics
  - Allows streamlined flow
  - Eliminates corrosion and deposits
  - 60° incline pressure drop
- **Heavy Integral Stellite Grade 6 Seat and Cone**
  - Tight shutoff
  - Long Valve Life
  - Prevents corrosion
  - Easy re-facing
  - Positive seating function as standard
  - Seat is guided at bottom and top
  - Integral STELLITE Gr.6 deposited with specialized and automatic procedure which guarantees the achievement of stated constant characteristics available
  - The deep thickness of the deposited STELLITE Gr.6 enables many renewing operations of the seating surface
- **Non-Rotating Splined Stem**
  - Non-rotating solid cone eliminates galling
  - Eliminates scoring or bending of the stem
  - No torsion applied to gland packing
  - Easy on site maintenance and low maintenance cost
  - Low operational torque
  - Can not be detached from the stem
  - Close roundness and straightness tolerances
  - Burnished for superior finish
- **Combination Gland Ring Packing**
  - Graphoil as standard maximum temperature 650 degree C.
  - Long operating life
  - Prevents corrosion
- **Heavy Two-piece Gland Bushings**
  - Withstand high stresses caused by live-loading
  - Bolt torques control total spring load

Two sets of GLAND BUSHINGS maintain permanent stress of 4000psi on the graphite packing, keeping it tight for long periods of time without maintenance

- **Double Packing and Leak-Off**

A lantern ring and leak-off pipe provide detection or removal of leakage, if any, from the lower packing set

- **Short and Narrow Packing Chamber**

Sealing effectiveness improves as overall packing length shortens. Chamber wall is burnished to a superior finish.

- **Handwheel**

- Carbon steel plated
- Its form allows positive grip
- Impacted Hand-wheel is not necessary, thanks to the two roller bearing

- **Unique, Fully Enclosed Stem Nut Drive**

- Well lubricated stem nut rotates on two thrust bearings
- 10,000 test cycles show no visible damage to parts



**Ratings:**

Refer to ASME B16.34 for the different ASTM materials

**Test Pressure\*:**

Hydrostatic: (minimum)

- Body - 16650 p.s.i.

- Seat - 12210 p.s.i.

Pneumatic:

- Seat - 85 p.s.i.

\*Per API 598, the testing requirements are the same for ALL Class 4500 regardless of material

**Standards:**

- Constuction: ASME B16.34

- Socket Weld: ASME B16.11

- Threaded: ASME B1.20.1

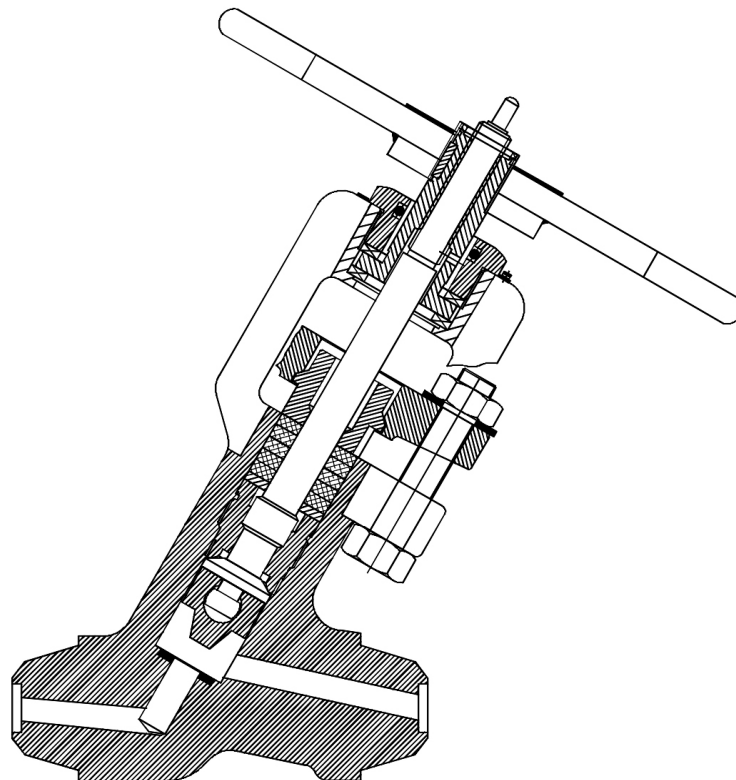
- Butt Weld: ASME B16.25

- Test: API 598-ASME B16.34

**Connections:**

- Butt Weld

\*others available





## Hex Globe Style Valves

4500# Y - Pattern

## HGY Series

### Ordering Schematic

1	2	3	4	5	6	7	8	9	10	11	12	13
Series		Orifice	Size	Pressure Class	Ends	Material	Trim	P&G				
H	G	Y	3	1	6	4	5	W	A	5	5	G

Example:

4	Orifice
3	10
4	15

5-6	Size
16	16 BW x 3 WT
18	18 BW x 4 WT
25	25 BW x 7 WT
32*	32 BW x 8 WT
35*	35 BW x 8 WT

\*only standard sizes for 15mm orifice

7-8	Pressure Class
45	4500#

\*others available

9	Ends
W	BWE

10-11	Material
A5	A105
GH	A182 316H
91	A182 F91
92	A182 F92
22	A182 F22

\*Other materials available - Consult Factory

12	Trim
5	API Trim 5

\*Other materials available - Consult Factory

13	Packing & Gasket
G	Manuf. STD Graphite