

# FORGED STEEL VALVES

DOUGLAS CHERO SpA  
**dc** FORGED VALVES





# Cryogenic GATE VALVES - 800 - Bolted bonnet - Sw/Npt

## Ratings (ASTM A105)

800 p.s.i. @ 850 F  
1975 p.s.i. @ 100 F

## Test pressure (ASTM A105)

### Hydraulic: (minimum)

Body - 3000 p.s.i.  
Seat - 2175 p.s.i.

### Air under water:

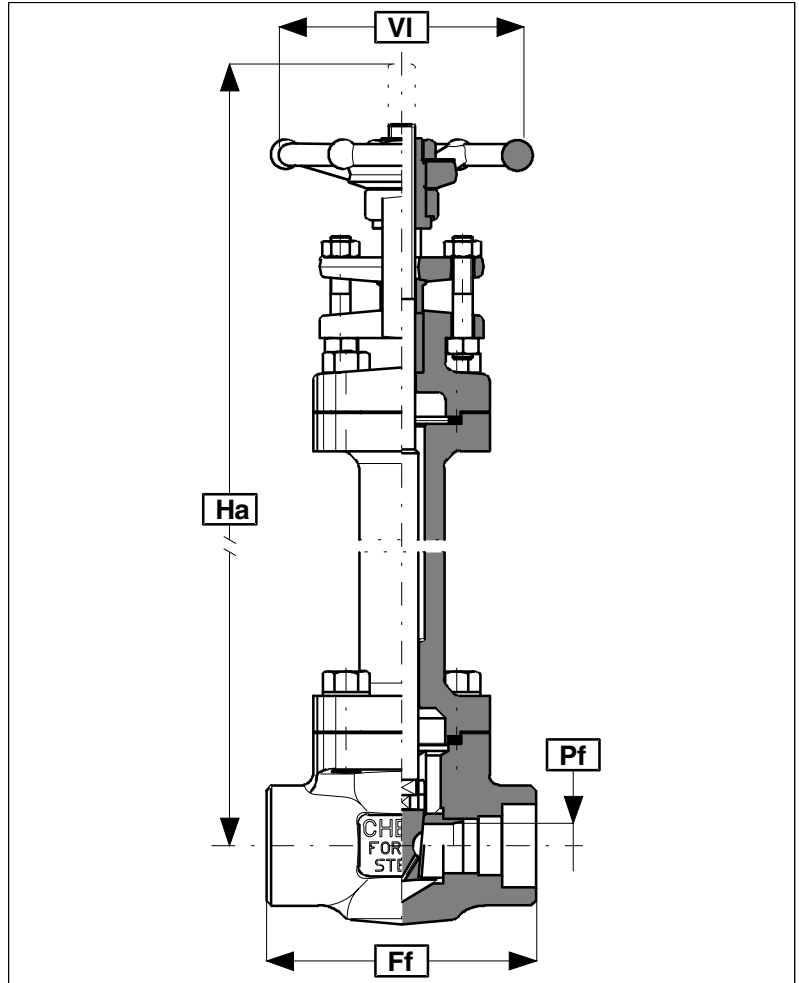
Seat - 85 p.s.i.

## Standards

**Construction** founded on API 602, BS 5352  
**Socket weld** ASME B16.11  
**Threaded** ASME B1.20.1  
**Test** founded on API 598-BS 6755 (Pt.1)

## Connections (xx)

|                        |                        |
|------------------------|------------------------|
| <b>SW</b> Socket weld  | <b>B8</b> Butt weld 80 |
| <b>TH</b> Threaded NPT |                        |
| <b>TS</b> Sw/NPT       |                        |
| <b>SE</b> Sw(e)/NPT    |                        |
| <b>SU</b> Sw(u)/NPT    |                        |
| <b>B4</b> Butt weld 40 |                        |



## CONVENTIONAL BORE

|                    |  | 1/2"      | 3/4"      | 1"        | 1.1/4"    | 1.1/2"    | 2"        |
|--------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Ff (mm/in)</b>  |  | 80 3,15   | 90 3,54   | 110 4,33  | 127 5,00  | 127 5,00  | 130 5,12  |
| <b>Ha (mm/in)</b>  |  | 333 13,11 | 367 14,45 | 406 15,98 | 463 18,23 | 508 20,00 | 534 21,02 |
| <b>VI (mm/in)</b>  |  | 90 3,54   | 90 3,54   | 100 3,94  | 120 4,72  | 140 5,51  | 140 5,51  |
| <b>Pf (mm/in)</b>  |  | 10 0,39   | 14 0,55   | 18 0,71   | 24 0,94   | 31 1,22   | 36,5 1,44 |
| <b>Wt. (kg/lb)</b> |  | 3,1 6,8   | 3,6 7,9   | 5,7 12,5  | 8,8 19,4  | 11,7 25,7 | 14,4 31,7 |
| <b>Catal. no.</b>  |  | CR252B/xx | CR253B/xx | CR254B/xx | CR255B/xx | CR256B/xx | CR257B/xx |

## FULL BORE

|                    | 1/4"      | 3/8"      | 1/2"      | 3/4"      | 1"        | 1.1/4"    | 1.1/2"    | 2"        |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Ff (mm/in)</b>  | 80 3,15   | 80 3,15   | 90 3,54   | 110 4,33  | 127 5,00  | 127 5,00  | 130 5,12  | 150 5,91  |
| <b>Ha (mm/in)</b>  | 333 13,11 | 333 13,11 | 367 14,45 | 406 15,98 | 463 18,23 | 508 20,00 | 534 21,02 | 658 25,91 |
| <b>VI (mm/in)</b>  | 90 3,54   | 90 3,54   | 90 3,54   | 100 3,94  | 120 4,72  | 140 5,51  | 140 5,51  | 200 7,87  |
| <b>Pf (mm/in)</b>  | 9 0,35    | 10 0,39   | 14 0,55   | 18 0,71   | 24 0,94   | 31 1,22   | 36,5 1,44 | 48 1,89   |
| <b>Wt. (kg/lb)</b> | 3,1 6,8   | 3,1 6,8   | 3,6 7,9   | 5,7 12,5  | 8,8 19,4  | 11,7 25,7 | 14,4 31,7 | 22,2 49,0 |
| <b>Catal. no.</b>  | CF210B/xx | CF211B/xx | CF212B/xx | CF213B/xx | CF214B/xx | CF215B/xx | CF216B/xx | CF217B/xx |

1) Standard and alternative valve materials on page 67, type C  
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72  
3) SW & NPT dimensions on page 73

4) On request flanged ends can be supplied; body dimensions on page 5,6,7  
5) For Ha Length in according to customer desire extension should be welded