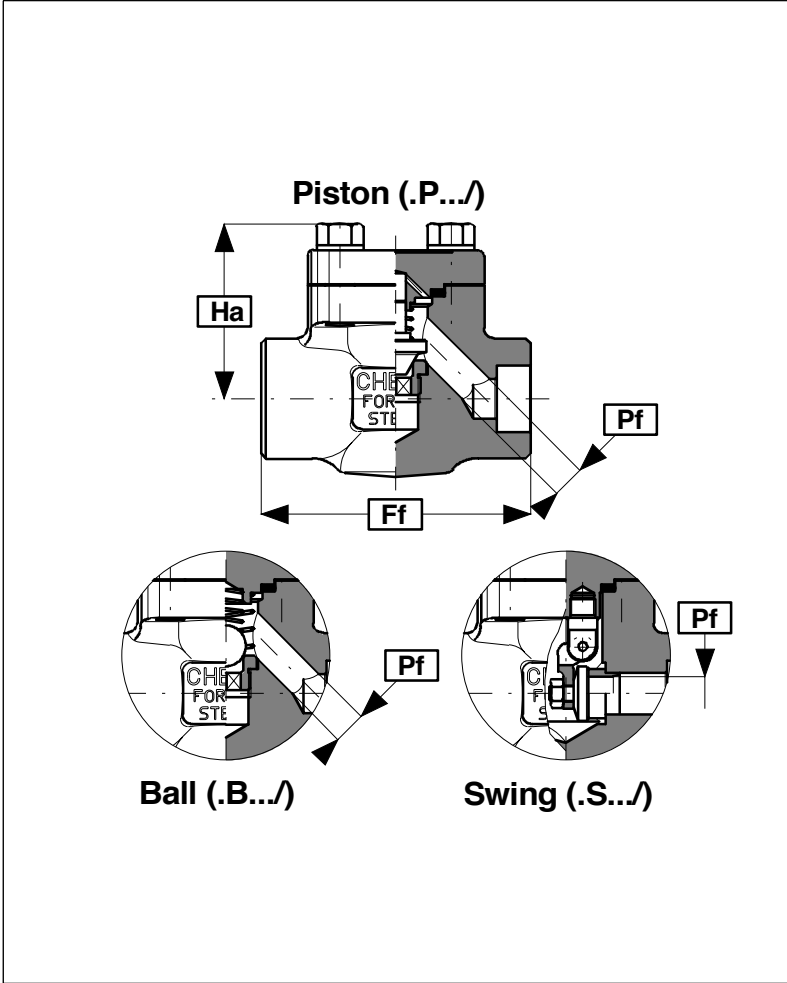


# FORGED STEEL VALVES

DOUGLAS CHERO SpA  
**dc** FORGED VALVES





### Ratings (ASTM A105)

1500 p.s.i. @ 850°F  
3705 p.s.i. @ 100°F

### Test pressure (ASTM A105)

**Hydraulic:(minimum)**  
Body - 5575 p.s.i.  
Seat - 4100 p.s.i.  
**Air under water:**  
not applicable

### Standards

**Construction** founded on API 602  
**Socket weld** ASME B16.11  
**Threaded** ASME B1.20.1  
**Butt weld** ASME B16.25  
**Test** founded on API 598

### 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 (in)/NPT   |                        |
| <b>SU</b> Sw (out)/NPT  |                        |
| <b>B6</b> Butt weld 160 |                        |

| CONVENTIONAL BORE              |          |          |          |           |          |          |          |            |
|--------------------------------|----------|----------|----------|-----------|----------|----------|----------|------------|
|                                | 1/4"     | 3/8"     | 1/2"     | 3/4"      | 1"       | 1.1/4"   | 1.1/2"   | 2"         |
| <b>Ff (mm/in)</b>              | 90 3,54  | 90 3,54  | 90 3,54  | 110 4,33  | 127 5,00 | 155 6,10 | 170 6,69 | 210 8,27   |
| <b>Ha (mm/in)</b>              | 56 2,20  | 56 2,20  | 56 2,20  | 74 2,91   | 79 3,11  | 100 3,94 | 109 4,29 | 135 5,31   |
| <b>Pf<sup>(4)</sup>(mm/in)</b> | 6,5 0,26 | 9 0,35   | 10 0,39  | 13,5 0,53 | 18 0,71  | 24 0,94  | 28 1,10  | 35 1,38    |
| <b>Wt. (kg/lb)</b>             | 2,2 4,8  | 2,2 4,8  | 2,2 4,8  | 3,0 6,6   | 4,1 9,0  | 6,2 13,6 | 9,4 20,7 | 13,3 29,26 |
| <b>Catal. no.</b>              | Xt850/xx | Xt851/xx | Xt852/xx | Xt853/xx  | Xt854/xx | Xt855/xx | Xt856/xx | Xt857/xx   |

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

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

4) Dimensions for piston & ball type; for swing see page 19  
5) Code t is replaced by kind of check valve (drawing above)

**Ratings (ASTM A105)**

1500 p.s.i. @ 850°F  
3705 p.s.i. @ 100°F

**Test pressure (ASTM A105)**

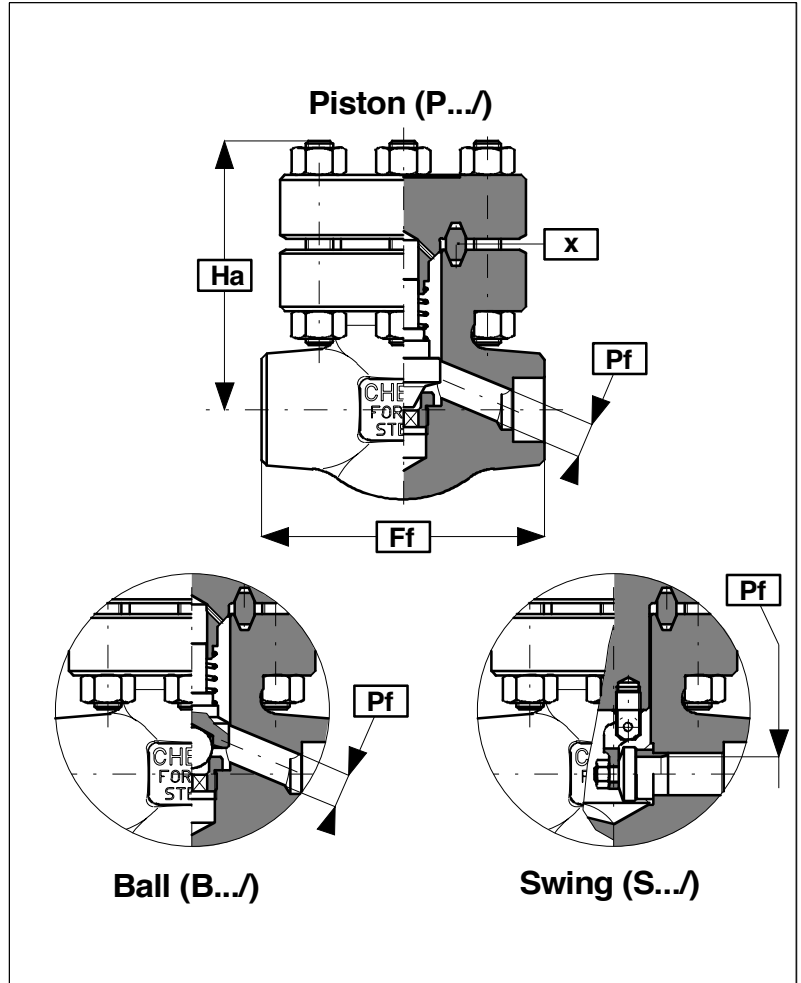
**Hydraulic:** (minimum)  
Body - 5575 p.s.i.  
Seat - 4100 p.s.i.  
**Air under water:**  
not applicable

**Standards**

**Construction** BS 5352  
**Socket weld** ASME B16.11  
**Threaded** ASME B1.20.1  
**Butt weld** ASME B16.25  
**Test** 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 (in)/NPT   |                        |
| <b>SU</b> Sw (out)/NPT  |                        |
| <b>B6</b> Butt weld 160 |                        |

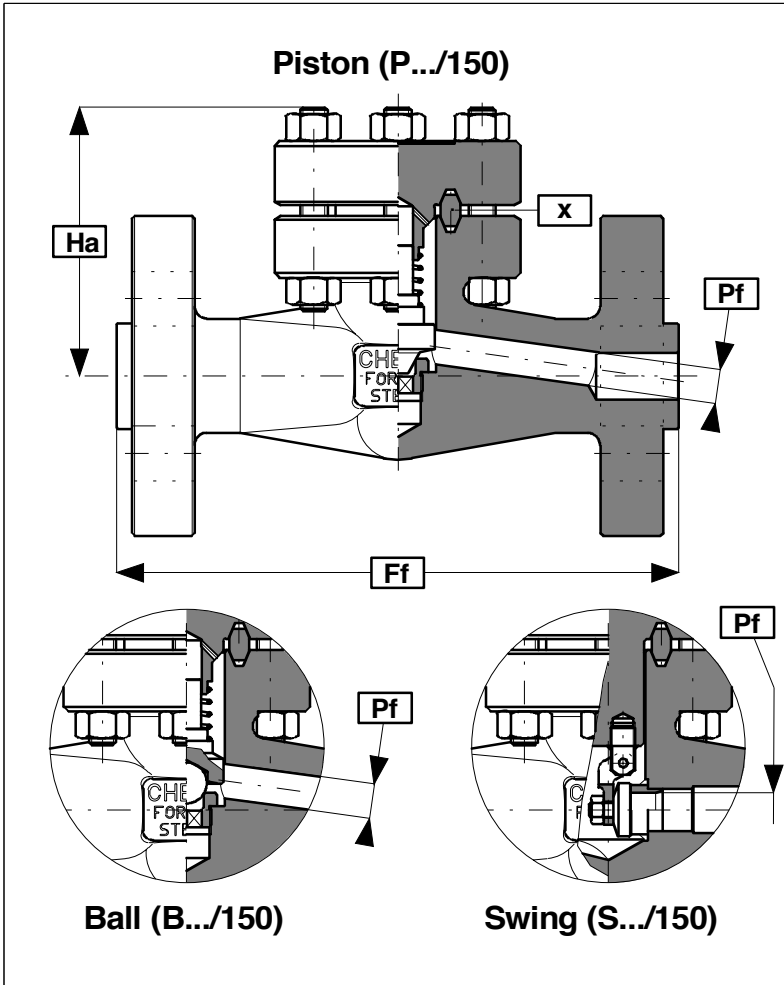


**X) Gasket=Spiral wound. RJ gasket available on request.**

|                                |  | STANDARD BORE   |                  |                 |  |    |                  |                  |  |    |  |
|--------------------------------|--|-----------------|------------------|-----------------|--|----|------------------|------------------|--|----|--|
|                                |  | 1/2"            |                  | 3/4"            |  | 1" |                  | 1.1/2"           |  | 2" |  |
| <b>Ff (mm/in)</b>              |  | <b>110</b> 4,33 | <b>115</b> 4,53  | <b>130</b> 5,12 |  |    | <b>210</b> 8,27  | <b>240</b> 9,45  |  |    |  |
| <b>Ha (mm/in)</b>              |  | <b>93</b> 3,66  | <b>109</b> 4,29  | <b>122</b> 4,80 |  |    | <b>158</b> 6,22  | <b>171</b> 6,73  |  |    |  |
| <b>Pf<sup>(4)</sup>(mm/in)</b> |  | <b>11</b> 0,43  | <b>14,5</b> 0,57 | <b>19</b> 0,75  |  |    | <b>31</b> 1,22   | <b>37,5</b> 1,48 |  |    |  |
| <b>Wt. (kg/lb)</b>             |  | <b>3,8</b> 8,4  | <b>5,9</b> 13,0  | <b>6,8</b> 15,0 |  |    | <b>18,8</b> 41,4 | <b>23,7</b> 52,1 |  |    |  |
| <b>Catal. no.</b>              |  | <b>t852/xx</b>  | <b>t853/xx</b>   | <b>t854/xx</b>  |  |    | <b>t856/xx</b>   | <b>t857/xx</b>   |  |    |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

1) Standard and alternative valve materials on page 67, type B  
2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72  
3) SW, NPT & BW dimensions on page 73  
4) Dimensions for piston & ball type; swing see page 25  
5) Code t is replaced by kind of check valve (drawing above)



| Ratings (ASTM A105) |  |
|---------------------|--|
| 1500 p.s.i. @ 850°F |  |
| 3705 p.s.i. @ 100°F |  |

| Test pressure (ASTM A105)  |  |
|----------------------------|--|
| <b>Hydraulic:(minimum)</b> |  |
| Body - 5575 p.s.i.         |  |
| Seat - 4100 p.s.i.         |  |
| <b>Air under water:</b>    |  |
| not applicable             |  |

| Standards           |                         |
|---------------------|-------------------------|
| <b>Construction</b> | BS 5352                 |
| <b>Flanged</b>      | ASME B16.5, ASME B16.10 |
| <b>Test</b>         | BS 6755 (Pt.1)          |

| Connections (xx) |                    |           |              |
|------------------|--------------------|-----------|--------------|
| <b>RF</b>        | Raised face (std.) | <b>LF</b> | Large female |
| <b>RJ</b>        | Ring joint         | <b>LG</b> | Large groove |
| <b>SF</b>        | Small female       | <b>LM</b> | Large male   |
| <b>SG</b>        | Small groove       | <b>LT</b> | Large tongue |
| <b>SM</b>        | Small male         |           |              |
| <b>ST</b>        | Small tongue       |           |              |

X )Gasket=Spiral wound. RJ gasket available on request.

|                                |  | STANDARD BORE |      |            |      |            |       |            |       |            |       |
|--------------------------------|--|---------------|------|------------|------|------------|-------|------------|-------|------------|-------|
|                                |  | 1/2"          |      | 3/4"       |      | 1"         |       | 1.1/2"     |       | 2"         |       |
| <b>Ff (mm/in)</b>              |  | 215,9         | 8,50 | 228,6      | 9,00 | 254,0      | 10,00 | 304,8      | 12,00 | 368,3      | 14,50 |
| <b>Ha (mm/in)</b>              |  | 93            | 3,66 | 109        | 4,29 | 122        | 4,80  | 158        | 6,22  | 171        | 6,73  |
| <b>Pf<sup>(4)</sup>(mm/in)</b> |  | 11            | 0,43 | 14,5       | 0,57 | 19         | 0,75  | 31         | 1,22  | 37,5       | 1,48  |
| <b>Wt. (kg/lb)</b>             |  | 7,5           | 16,5 | 10,9       | 24,0 | 14,4       | 31,7  | 30,3       | 67,0  | 44,0       | 96,8  |
| <b>Catal. no.</b>              |  | t852/150xx    |      | t853/150xx |      | t854/150xx |       | t856/150xx |       | t857/150xx |       |

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

1) Standard and alternative valve materials on page 67, type B  
 2) Complete Pressure-Temperature ratings on page 68, 69, 70, 71,72  
 3) Flanges & face-to-face dimensions on page 74,75  
 4) Dimensions for piston & ball type; swing see page 25  
 5) Code t is replaced by kind of check valve (drawing above)