



# TAPER PLUG VALVES

Pressure Test / Inspection

After assembling, before delivery, all Christensen Plug Valves pass through a careful pressure test. The test is carried out acc. to the following standards: ASME B 16.34, BS 1560, BS 6755 API 598 and ASME B16.1.

If the customer or his representative wants to participate at the test - or, if there are special requirements to the pressure testing, this must be arranged with the manufacturer and stipulated in the purchase order.

| Material                        | ASME B 16.1                   |             | (1/2" to 12") |             | Class (14" to 36") |  |           |           |           |
|---------------------------------|-------------------------------|-------------|---------------|-------------|--------------------|--|-----------|-----------|-----------|
|                                 |                               |             | 125           | 250         |                    |  |           | 125       | 250       |
| Semi Steel<br>ASTM A126 Class B | Maximum Cold Working Pressure | PSI         | 200           | 500         |                    |  |           | 150       | 300       |
|                                 |                               | BAR         | 13,8          | 34,5        |                    |  |           | 11        | 21        |
|                                 | Hydrostatic Shell Test        | PSI<br>BAR  | 300<br>20,7   | 750<br>51,8 |                    |  |           | 230<br>16 | 450<br>30 |
| Seat Test                       | Min. PSI<br>Min. BAR          | 220<br>15,2 | 550<br>37,9   |             |                    |  | 165<br>12 |           |           |

| Material                          |                               |             | Class       |              |               |               |               |             |             |
|-----------------------------------|-------------------------------|-------------|-------------|--------------|---------------|---------------|---------------|-------------|-------------|
|                                   |                               |             | 150         | 300          | 400           | 600           | 900           | 1500        | 2500        |
| Carbon Steel<br>ASTM A216 Gr. WCB | Maximum Cold Working Pressure | PSI         | 285         | 740          | 990           | 1480          | 2220          | 3705        | 6170        |
|                                   |                               | BAR         | 19,6        | 51,1         | 68,1          | 102,1         | 153,2         | 255,3       | 425,5       |
|                                   | Hydrostatic Shell Test        | PSI<br>BAR  | 450<br>30   | 1125<br>77   | 1500<br>103   | 2225<br>154   | 3350<br>230   | 5575<br>383 | 9275<br>639 |
| Seat Test                         | Min. PSI<br>Min. BAR          | 315<br>21,5 | 815<br>56,2 | 1090<br>74,9 | 1630<br>112,3 | 2442<br>168,5 | 4075<br>280,8 | 6787<br>468 |             |

| Material                          |                               |             | Class       |              |               |               |               |               |             |
|-----------------------------------|-------------------------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|-------------|
|                                   |                               |             | 150         | 300          | 400           | 600           | 900           | 1500          | 2500        |
| Carbon Steel<br>ASTM A352 Gr. LCB | Maximum Cold Working Pressure | PSI         | 265         | 695          | 925           | 1390          | 2085          | 3470          | 5785        |
|                                   |                               | BAR         | 18,4        | 47,9         | 63,8          | 95,9          | 143,8         | 239,4         | 399         |
|                                   | Hydrostatic Shell Test        | PSI<br>BAR  | 400<br>28   | 1050<br>72   | 1400<br>96    | 2100<br>144   | 3150<br>216   | 5225<br>360   | 8700<br>599 |
| Seat Test                         | Min. PSI<br>Min. BAR          | 292<br>20,2 | 765<br>52,7 | 1018<br>70,2 | 1529<br>105,5 | 2294<br>158,2 | 3817<br>263,3 | 6364<br>438,9 |             |

| Material                                 |                               |             | Class       |              |               |               |               |               |             |
|--|-------------------------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|-------------|
|  |                               |             | 150         | 300          | 400           | 600           | 900           | 1500          | 2500        |
| Stainless Steel<br>ASTM A351<br>Gr. CF8M | Maximum Cold Working Pressure | PSI         | 275         | 720          | 960           | 1440          | 2160          | 3600          | 6000        |
|  |                               | BAR         | 19,0        | 49,6         | 66,2          | 99,3          | 148,9         | 248,1         | 413,6       |
|  | Hydrostatic Shell Test        | PSI<br>BAR  | 425<br>29   | 1100<br>75   | 1450<br>100   | 2175<br>149   | 3250<br>224   | 5400<br>373   | 9000<br>621 |
| Seat Test                                | Min. PSI<br>Min. BAR          | 303<br>20,9 | 792<br>54,6 | 1056<br>72,8 | 1584<br>109,2 | 2376<br>163,7 | 3960<br>272,9 | 6600<br>454,9 |             |

| Material  |                               |            | Class       |              |               |               |               |             |             |
|---|-------------------------------|------------|-------------|--------------|---------------|---------------|---------------|-------------|-------------|
|   |                               |            | 150         | 300          | 400           | 600           | 900           | 1500        | 2500        |
| ASTM A216 Gr. WCC<br>ASTM A352 Gr. LCC<br>ASTM A352 Gr. LC2<br>ASTM A890 Gr. 4A | Maximum Cold Working Pressure | PSI        | 290         | 750          | 1000          | 1500          | 2250          | 3750        | 6250        |
|   |                               | BAR        | 20          | 51,7         | 69            | 103,4         | 155,2         | 258,6       | 431,0       |
|   | Hydrostatic Shell Test        | PSI<br>BAR | 450<br>30   | 1125<br>78   | 1500<br>104   | 2250<br>156   | 3375<br>233   | 5625<br>388 | 9375<br>647 |
| Seat Test   | Min. PSI<br>Min. BAR          | 319<br>22  | 825<br>56,9 | 1100<br>75,9 | 1650<br>113,7 | 2475<br>170,7 | 4125<br>284,5 | 6875<br>474 |             |