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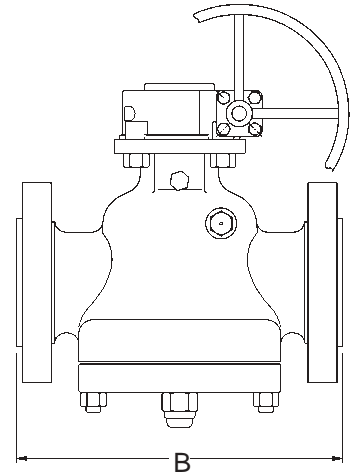
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# Полнопроходные плунжерные клапаны со смазкой сбалансированные давлением API 6D и API 6A



## Face to Face Dimension Tables

### API 6D Plug Valves

|             | B<br>ANSI 600/PN100<br>RF & BW/RTJ | B<br>ANSI 900/PN150<br>RF & BW/RTJ | B<br>ANSI 1500/PN250<br>RF & BW/RTJ | B<br>ANSI 2500/PN420<br>RF/BW/RTJ |
|-------------|------------------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| 1"/DN25     | 216/216 (a)                        | 254/254 (a)                        | 254/254 (a)                         | 308/308/308 (a)                   |
| 1 1/2"/DN40 | 241/241 (a)                        | 305/305 (a)                        | 305/305 (a)                         | 384/384/387 (a)                   |
| 2"/DN50     | 292/295                            | 368/371                            | 368/371                             | 451/ * /454                       |
| 2 1/2"/DN65 | 330/333                            | 419/422                            | 419/422                             | 508/ * /514                       |
| 3"/DN80     | 356/356                            | 381/384                            | 470/473                             | 578/ * /584                       |
| 4"/DN100    | 432/435                            | 457/460                            | 546/549                             | 673/ * /683                       |
| 6"/DN150    | 559/562                            | 610/613                            | 705/711                             | 914/ * /927                       |
| 8"/DN200    | 660/663                            | 737/740                            | 832/841                             | 1022/ * /1038                     |
| 10"/DN250   | 787/790                            | 838/841                            | 991/1000                            | 1270/ * /1232                     |
| 12"/DN300   | 838/841                            | 965/968                            | 1130/1146                           | 1422/ * /1445                     |
| 14"/DN350   | 889/892                            | 1029/1038 (a)                      | 1257/1276 (a)                       | * / * / *                         |
| 16"/DN400   | 991/994                            | 1130/1140                          | 1384/1406 (a)                       | * / * / *                         |
| 18"/DN450   | 1092/1095                          | 1219/1232 (a)                      | 1537/1559 (a)                       |                                   |
| 20"/DN500   | 1194/1200                          | 1321/1334 (a)                      | 1664/1686 (a)                       |                                   |
| 22"/DN550   | 1295/1305                          | * / *                              | * / *                               |                                   |
| 24"/DN600   | 1397/1407                          | 1549/1568 (a)                      | 1943/1962 (a)                       |                                   |

(\*) To be agreed with the end user - (a) Face to face dimension extrapolated from ASME B16.10

### API 6A Plug Valves

|                  | B<br>API 2000/PN138<br>RF & BW/RTJ | B<br>API 3000/PN207<br>RF & BW/RTJ | B<br>API 5000/PN345<br>RF & BW/RTJ | B<br>API 10000/PN690<br>RTJ & BW |
|------------------|------------------------------------|------------------------------------|------------------------------------|----------------------------------|
| 1 13/16"         | ----                               | ----                               | ----                               | 464                              |
| 2 1/16"          | 292/295                            | 368/371                            | 368/371                            | 521                              |
| 2 9/16"          | 330/333                            | 419/422                            | 419/422                            | 565                              |
| 3 1/16"          | ----                               | ----                               | ----                               | 619                              |
| 3 1/8"           | 356/356                            | 381/384                            | 470/473                            | ----                             |
| 4 1/16"          | 432/435                            | 457/460                            | 546/549                            | 670                              |
| 5 1/8"           | ----                               | ----                               | ----                               | 737                              |
| 7 1/16" x 6"     | 559/562                            | 610/613                            | 705/711                            | ----                             |
| 7 1/16" x 6 3/8" | ----                               | ----                               | ----                               | 889                              |
| 7 1/16"          | ----                               | ----                               | ----                               | 889                              |

# Pressure Test Tables in accordance with API 598 & API 6D

## ASME B16.34 Group Material 1.1

(A 105; A 216 WCB; A 350 LF2)

### Working Pressures by Classes, psig (Bar)

|                         | 150 PN20 | 300 PN50  | 600 PN100  | 900 PN150  | 1500 PN250 | 2500 PN420 |
|-------------------------|----------|-----------|------------|------------|------------|------------|
| Working pressure rating | 285 (20) | 740 (51)  | 1480 (102) | 2220 (153) | 3705 (255) | 6170 (425) |
| Hydraulic body test     | 450 (31) | 1125 (78) | 2225 (153) | 3350 (231) | 5575 (384) | 9275 (640) |
| Hydraulic seat test     | 314 (22) | 814 (56)  | 1628 (112) | 2442 (168) | 4076 (281) | 6787 (468) |

## ASME B16.34 Group Material 1.2 and 2.8

(A 350 LF6; A 216 WCC; A 352 LCC; A 182 F44/ F51; UNS S31803/S31254/S32750; A 351 Gr. CK3MCuN / CE8MN / CD4MCu / CD3MWCuN)

### Working Pressures by Classes, psig (Bar)

|                         | 150 PN20 | 300 PN50  | 600 PN100  | 900 PN150  | 1500 PN250 | 2500 PN420 |
|-------------------------|----------|-----------|------------|------------|------------|------------|
| Working pressure rating | 290 (20) | 750 (52)  | 1500 (103) | 2250 (155) | 3750 (259) | 6250 (431) |
| Hydraulic body test     | 450 (31) | 1125 (78) | 2250 (155) | 3375 (233) | 5625 (388) | 9375 (646) |
| Hydraulic seat test     | 319(22)  | 825(57)   | 1650(114)  | 2475(171)  | 4125(284)  | 6875(474)  |

## ASME B16.34 Group Material 1.3

(A 352 LCB)

### Working Pressures by Classes, psig (Bar)

|                         | 150 PN20 | 300 PN50  | 600 PN100  | 900 PN150  | 1500 PN250 | 2500 PN420 |
|-------------------------|----------|-----------|------------|------------|------------|------------|
| Working pressure rating | 265 (18) | 695 (48)  | 1390 (96)  | 2085 (144) | 3470 (239) | 5785 (399) |
| Hydraulic body test     | 400 (28) | 1050 (72) | 2100 (145) | 3150 (217) | 5225 (360) | 8700 (600) |
| Hydraulic seat test     | 292 (20) | 765 (53)  | 1529 (105) | 2294 (158) | 3817 (263) | 6364 (439) |

## ASME B16.34 Group Material 2.1 and 2.2

(A 182 F304; A 479 Gr.304; A 351 CF3; A 351 CF8; A 182 F316; A 479 Gr.316; A 351 CF3M)

### Working Pressures by Classes, psig (Bar)

|                         | 150 PN20 | 300 PN50  | 600 PN100  | 900 PN150  | 1500 PN250 | 2500 PN420 |
|-------------------------|----------|-----------|------------|------------|------------|------------|
| Working pressure rating | 275 (19) | 720 (50)  | 1440 (99)  | 2160 (149) | 3600 (248) | 6000 (414) |
| Hydraulic body test     | 425 (29) | 1100 (76) | 2175 (150) | 3250 (224) | 5400 (372) | 9000 (621) |
| Hydraulic seat test     | 303 (21) | 792 (55)  | 1584 (109) | 2376 (164) | 3960 (273) | 6600 (455) |

## ASME B16.34 Group Material 2.3

(A 182 F304/F316L; A 479 Gr.304/316L)

### Working Pressures by Classes, psig (Bar)

|                         | 150 PN20 | 300 PN50 | 600 PN100  | 900 PN150  | 1500 PN250 | 2500 PN420 |
|-------------------------|----------|----------|------------|------------|------------|------------|
| Working pressure rating | 230 (16) | 600 (41) | 1200 (83)  | 1800 (124) | 3000 (207) | 5000 (345) |
| Hydraulic body test     | 350 (24) | 900 (62) | 1800 (124) | 2700 (186) | 4500 (310) | 7500 (517) |
| Hydraulic seat test     | 253 (17) | 660 (46) | 1320 (91)  | 1980 (137) | 3300 (228) | 5500 (379) |

# Pressure Test Tables in accordance with API 6A

| Working Pressure Rating |       | Hydraulic Pressure Test |       |              |       |      |       | High Pressure Gas Test Body & Seat |       |
|-------------------------|-------|-------------------------|-------|--------------|-------|------|-------|------------------------------------|-------|
|                         |       | Up to 13 5/8"           |       | From 16 3/4" |       | Seat |       |                                    |       |
| Bar                     | psi   | Bar                     | psi   | Bar          | psi   | Bar  | psi   | Bar                                | psi   |
| 138                     | 2000  | 276                     | 4000  | 207          | 3000  | 138  | 2000  | 138                                | 2000  |
| 207                     | 3000  | 415                     | 6000  | 310          | 4500  | 207  | 3000  | 207                                | 3000  |
| 345                     | 5000  | 517                     | 7500  | 517          | 7500  | 345  | 5000  | 345                                | 5000  |
| 690                     | 10000 | 1035                    | 15000 | 1035         | 15000 | 690  | 10000 | 690                                | 10000 |
| 1.035                   | 15000 | 1550                    | 22500 | 1550         | 22500 | 1035 | 15000 | 1035                               | 15000 |
| 1.380                   | 20000 | 2070                    | 30000 |              |       | 1380 | 20000 | 1380                               | 20000 |

# Material Selection Guide for GALLI&CASSINA Valves

**Trim materials are designed according to the service conditions.**

- 1 Standard Carbon Steel Body and Plug. (ASTM-A216 WCB/WCC material) suitable for general services.
- 2 Carbon Steel Body and Plug (A352 LCB/LCC material) suitable for low temperature services.
- 3 Carbon Steel Body and Plug (ASTM A216WCB/WCC material) suitable for "SOUR SERVICE"(H<sub>2</sub>S and CO<sub>2</sub>) according to NACE-MR.01.75/Latest Edition.

- 4 Special Austenitic (6MO) and Ferritic-Austenitic Stainless Steel (Duplex and Superduplex) suitable for sea water and corrosive services.
- 5 Nickel-Chromium-Iron alloy (i.e. Alloy 20), Titanium & Titanium alloy, carbon steel with Inconel 625 cladding and stellite or Tungsten carbide hardfacing for abrasive/corrosive service.
- 6 Other materials upon request.

## Standard Design Categories (Typical Construction Materials)

| Trim Service   | Class       | Body/Cover   | Plug  | Stem and Oldham Coupler        | Bolting                                     |
|--|-------------|--|---|--------------------------------|---|
| <b>1 Standard service</b><br>Natural gas<br>Hydrocarbons                         | 150 to 2500 | ASTM A105  | ASTMA105  | ASTM A29 Gr. 4140              | ASTM A193-B7M<br>ASTM A194-2HM              |
|  |             | ASTM A216<br>WCB/WCC<br>Max C 0.25%  | ASTMA216<br>WCB/WCC                             |                                |   |
| <b>2 Low temperature</b><br>Natural gas<br>Hydrocarbons                          | 150 to 2500 | ASTM A350-LF2  | ASTMA350-LF2                                    | ASTM A29 Gr. 4140              | ASTM A320-L7<br>ASTM A194 Gr.7              |
|  |             | ASTM A352<br>LCB/LCC<br>Max C 0.23%  | ASTM A352-<br>LCB/LCC                           |                                |   |
| <b>3 Sour Service</b><br>(H <sub>2</sub> S and CO <sub>2</sub> )<br>Hydrocarbons | 150 to 2500 | ASTM A105  | ASTM A105                                       | ASTM A29 Gr. 4140<br>Max HRC22 | ASTM A193-B7M<br>ASTM A194-2HM<br>MAX HRC22 |
|  |             | ASTM A216<br>WCB/WCC<br>Max C.0.23%<br>Max HRC22   | ASTMA216<br>WCB/WCC<br>Max C.0.23%<br>Max HRC22 |                                |   |
| <b>4 Sea Water</b>   | 150 to 2500 | UNS S31254<br>ASTM A 351<br>CK3MCuN<br>(6MO)   | UNS S31254                                      | UNS S31254                     | ASTM A453 Gr.660A                           |
|  |             | UNS S31803<br>ASTM A 890<br>J92205<br>(Duplex 22% Cr)                                      | UNS S31803                                      | UNS S31803                     | ASTM A453 Gr.660A<br>UNS S32760             |
|  |             | UNS S32750<br>ASTM A 890<br>J93404<br>(Super duplex 25% Cr)                                | UNS S32750                                      | UNS S32750                     | UNS S32760                                  |
|  |             | UNS S32760<br>ASTM A 890<br>J93380<br>(Super duplex 25% Cr)                                | UNS S32760                                      | UNS S32760                     | UNS S32760                                  |
| <b>5 Abrasive/Corrosive Slurry service</b>                                       | 150 to 2500 | ASTM B348 Gr 3 or 5<br>(Titanium)  | ASTM B348<br>GR 3 or 5                          | UNS S31254<br>UNS S32760       | ASTM A453 Gr.660A                           |
|  |             | UNS N08020<br>ASTM A351 CN7M<br>(Alloy 20)   | UNS N08020<br>ASTMA351 CN7M                     | UNS S32750<br>UNS S32760       | ASTM A453 Gr.660A<br>UNS S32760             |
|  |             | ASTM A 105<br>ASTM A 216 WCB/WCC<br>Hardfacing (Stellite/WC)<br>and Cladding (Inconel 625) |   | ASTM A 29<br>Gr 4140           | ASTM A193 B7M<br>ASTM A194 2HM              |

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