# Ball Valves and Spare Parts

## Type 15C01 - Ball Valve full bore

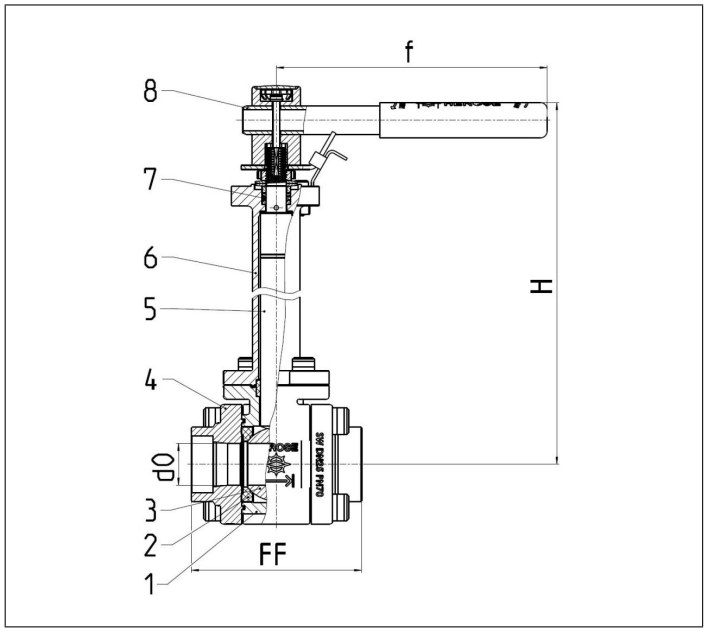
**Cryogenic Ball Valve**

Unidirectional ball valve to be installed in flow direction with upstream pressure relief hole.
Socket weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312
Butt weld connection for stainless steel pipes acc. to ISO 1127 or ASTM A312
Female thread type NPT acc. to ANSI 1.20.1
Female thread type G (BSPP) acc. to ISO 228/1
Marking acc. to EN 1626
Top flange to EN ISO 5211
" cleaned and degreased for oxygen service "

Available accessories:
· Lock for locking device type 55394.0019.0302

**Applications:**
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.
Working temperature: -196°C / -321°F (77K) up to +65°C / +149°F (338K)

| Materials | | DIN EN | ASTM |
|---|---|---|---|
| 1 | Body | 1.4409 | A 351 CF3M |
| 2 | Ball seal | PCTFE | |
| 3 | Ball | 1.4404 | 316L S.S. |
| 4 | Side connection | 1.4409 | A 351 CF3M |
| 5 | Stem | 1.4401 | A 479 Grade 316 |
| 6 | Bonnet extension | 1.4409 | A 351 CF3M |
| 7 | Gland packing | INOFLON M295 | |
| 8 | Lever | 1.4301 | ASTM A312 TP304 |




CE

| Technical data - Standard design | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nominal size [DN] | Height (H) [mm] | Orifice ($D_0$) [mm] | Weight [kg] | Kvs-value [$m^3/h$] | Cv-value [gal/min] | Length (f) [mm] | ISO 5211 |
| **10** | 296 | 8.0 | 2.5 | 5.7 | 6.6 | 127 | F03 |
| **15** | 296 | 14.5 | 2.5 | 10.7 | 12.4 | 127 | F03 |
| **20** | 305 | 19.5 | 3.1 | 24.7 | 28.6 | 157 | F04 |
| **25** | 310 | 25.0 | 3.8 | 32.1 | 37.1 | 157 | F04 |
| **32** | 376 | 32.0 | 6.5 | 77.9 | 90.1 | 240 | F05 |
| **40** | 380 | 38.0 | 7.3 | 122.3 | 141.4 | 240 | F05 |
| **50** | 427 | 50.0 | 13.6 | 124.1 | 143.7 | 420 | F07 |
| **65** | 496 | 64.5 | 29.8 | 188.6 | 218.4 | 462.5 | F10 |
| **80** | 592 | 80.0 | 44.7 | 279.8 | 323.7 | 600 | F10 |

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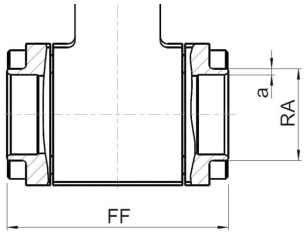
**Connection types**




**Butt weld connection acc. to**
**· ISO 1127**

| DN | Nominal Pressure [PN] | Face-to-face dim. (FF) [mm] | Outside pipe-Ø ISO (RA) [mm] | Wall thickness pipe ISO (a) [mm] | Part No. |
|---|---|---|---|---|---|
| **10** | 100 | 65 | 13.5 | 2.0 | 15C01.A001.000201 |
| **15** | 100 | 70 | 21.3 | 2.0 | 15C01.A001.000207 |
| **20** | 100 | 85 | 26.3 | 2.0 | 15C01.A001.000213 |
| **25** | 70 | 100 | 33.7 | 2.6 | 15C01.A001.000219 |
| **32** | 70 | 115 | 42.4 | 2.6 | 15C01.A001.000225 |
| **40** | 70 | 125 | 48.3 | 3.2 | 15C01.A001.000231 |
| **50** | 70 | 160 | 60.3 | 3.2 | 15C01.A001.000237 |
| **65** | 30 | 182.5 | 76.1 | 2.9 | 15C01.A001.000243 |
| **80** | 20 | 218 | 88.9 | 3.2 | 15C01.A001.000247 |

**Butt weld connection acc. to**
**· ASTM A312**

| DN | Nominal Pressure [PN] | Face-to-face dim. (FF) [mm] | Outside pipe-Ø ASTM (RA) [mm] | Wall thickness pipe ASTM (a) [mm] | Part No. |
|---|---|---|---|---|---|
| **10** | 100 | 65 | 13.72 | 1.65 | 15C01.A001.000204 |
| **10** | 100 | 65 | 13.72 | 2.24 | 15C01.A001.000205 |
| **15** | 100 | 70 | 21.35 | 2.11 | 15C01.A001.000210 |
| **15** | 100 | 70 | 21.35 | 2.78 | 15C01.A001.000211 |
| **20** | 100 | 85 | 26.70 | 2.10 | 15C01.A001.000216 |
| **20** | 100 | 85 | 26.70 | 2.85 | 15C01.A001.000217 |
| **25** | 70 | 100 | 33.40 | 2.77 | 15C01.A001.000222 |
| **25** | 70 | 100 | 33.40 | 3.38 | 15C01.A001.000223 |
| **32** | 70 | 115 | 42.20 | 2.77 | 15C01.A001.000228 |
| **32** | 70 | 115 | 42.20 | 3.56 | 15C01.A001.000229 |
| **40** | 70 | 125 | 48.30 | 2.77 | 15C01.A001.000234 |
| **40** | 70 | 125 | 48.30 | 3.70 | 15C01.A001.000235 |
| **50** | 70 | 160 | 60.33 | 2.77 | 15C01.A001.000240 |
| **50** | 70 | 160 | 60.33 | 3.91 | 15C01.A001.000241 |
| **65** | 30 | 182.5 | 73.10 | 3.10 | 15C01.A001.000244 |
| **65** | 30 | 182.5 | 73.10 | 5.20 | 15C01.A001.000245 |
| **80** | 20 | 218 | 88.90 | 3.10 | 15C01.A001.000248 |
| **80** | 20 | 218 | 88.90 | 5.45 | 15C01.A001.000249 |

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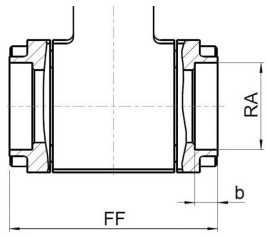


**Socket weld connection acc. to**
**· ISO 1127**
**· ASTM A312**

| DN | Nominal Pressure [PN] | Face-to-face dim. (FF) [mm] | Socket depth (b) [mm] | Socket diameter (RA) [mm] | Part No. |
|---|---|---|---|---|---|
| **10** | 100 | 65 | 6.0 | 14.1 | 15C01.A001.000200 |
| **15** | 100 | 70 | 10.0 | 22.0 | 15C01.A001.000206 |
| **20** | 100 | 85 | 13.0 | 27.5 | 15C01.A001.000212 |
| **25** | 70 | 100 | 13.0 | 34.0 | 15C01.A001.000218 |
| **32** | 70 | 115 | 13.0 | 38.2 | 15C01.A001.000224 |
| **40** | 70 | 125 | 13.0 | 48.7 | 15C01.A001.000230 |
| **50** | 70 | 160 | 16.0 | 60.3 | 15C01.A001.000236 |
| **65** | 10 | 182.5 | 16.0 | 77.0 | 15C01.A001.000242 |
| **80** | 10 | 218 | 16.0 | 90.0 | 15C01.A001.000246 |

**Female thread type**
**· NPT acc. to ANSI 1.20.1**
**· G (BSPP) acc. to ISO 228/1**

| DN | Nominal Pressure [PN] | Face-to-face dim. (FF) [mm] | Thread size (GW) [mm] | Part No. |
|---|---|---|---|---|
| **10** | 100 | 65 | G 3/8 | 15C01.A001.000202 |
| **10** | 100 | 65 | NPT 3/8 | 15C01.A001.000203 |
| **15** | 100 | 70 | G 1/2 | 15C01.A001.000208 |
| **15** | 100 | 70 | NPT 1/2 | 15C01.A001.000209 |
| **20** | 100 | 85 | G 3/4 | 15C01.A001.000214 |
| **20** | 100 | 85 | NPT 3/4 | 15C01.A001.000215 |
| **25** | 70 | 100 | G 1 | 15C01.A001.000220 |
| **25** | 70 | 100 | NPT 1 | 15C01.A001.000221 |
| **32** | 70 | 115 | G 1 1/4 | 15C01.A001.000226 |
| **32** | 70 | 115 | NPT 1 1/4 | 15C01.A001.000227 |
| **40** | 70 | 125 | G 1 1/2 | 15C01.A001.000232 |
| **40** | 70 | 125 | NPT 1 1/2 | 15C01.A001.000233 |
| **50** | 70 | 160 | G 2 | 15C01.A001.000238 |
| **50** | 70 | 160 | NPT 2 | 15C01.A001.000239 |