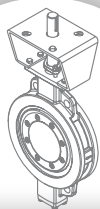




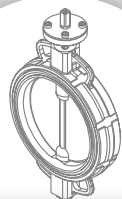
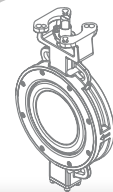
S30 series Split Body Ball Valves

OUR PRODUCTION



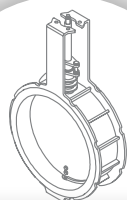
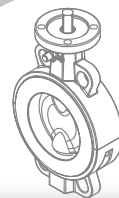
501M series - Triple Eccentric Metal Seated Butterfly Valves

401N series - Double Eccentric Butterfly Valves



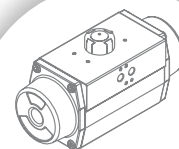
301 / 301E series - Butterfly Valves with rubber seat

301TSS 301TT series - Butterfly Valves with PTFE lined

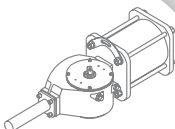


HT600 series - Damper valves for high temperature

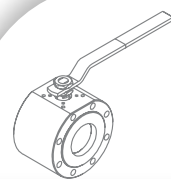
AP / APM series - Pneumatic Rotary Actuators



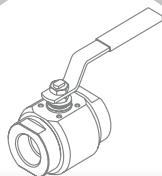
APG series - Schotch Yoke Pneumatic Actuators



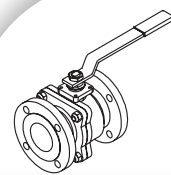
S10 series - Wafer Flat Body Ball Valves



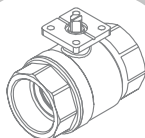
S20 series - Two-pieces 800 p.s.i. Ball Valves



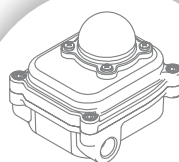
S30 series - Split Body Ball Valves



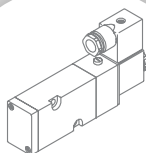
S40, S50, S60, S70, S80 series - Threaded actuated and manual ball valves



MBX Series - Limit Switch Box



SVS Series - Solenoid valve 5/2 or 3/2 way



ACCESSORIES



Sirca International SpA was founded in the late seventies, and started doing business as a manufacturer of complete automation and pneumatic regulation systems.

Our flagship product is rotating pneumatic quarter-turn actuators which are compact, lightweight and highly reliable.

Subsequently, our company entered the Italian market with the production and sale of rubber-seated butterfly valves, double eccentric butterfly valves, ball valves and check valves.

In time at Sirca International we began marketing and producing accessories to actuate, control and regulate valves. These were installed on our own valves and actuators in order to offer our customers complete “assemblies” that are capable of meeting the most varied system requirements.

Beginning in the 1990s, our company began looking at foreign markets and in a short time we started exporting more than 60% of our production.

This type of market development requires continuous product innovation as well as continuous effort to maintain product competitiveness and quality.

With this motivation and these objectives, with the arrival of the new millenium we at Sirca International began designing and producing the triple eccentric butterfly valve metal-seated that are currently top of the range of the valves produced at Sirca.

The main strong points of Sirca International SpA lie in our product quality, competitive price, large warehouse stocks and in the reliability of our services. These confirm our status as a Leading Company on the national and international markets.

Floating Ball Valves, Split Body Design, Introduction:

The ball valves split body series S30 consist of a body and a closure made from bar or casting, in two configurations, carbon steel and stainless steel. Inside the valve body there's the ball with seats in R-PTFE.

The stem, always inserted in the valve body, has an anti blow-out system with dual anti-static system (stemball and stem-body valve). The sealing between the stem and the valve body is guaranteed by an R-PTFE chevron pack. The sealing between the valve body and closure is made by using an o-ring and an R-PTFE ring.

Basically, the purpose of the ball valves is to carry out an on-off function on the pipeline. They are widely used on all types of industrial, civil, naval ect. systems. The opening and closing of the valve can be carried out by using various aids such as hand levers, gears, air-operated actuators, electric engines, etc. The valve provided with electro-pneumatic positioner, can be used as a control valve.

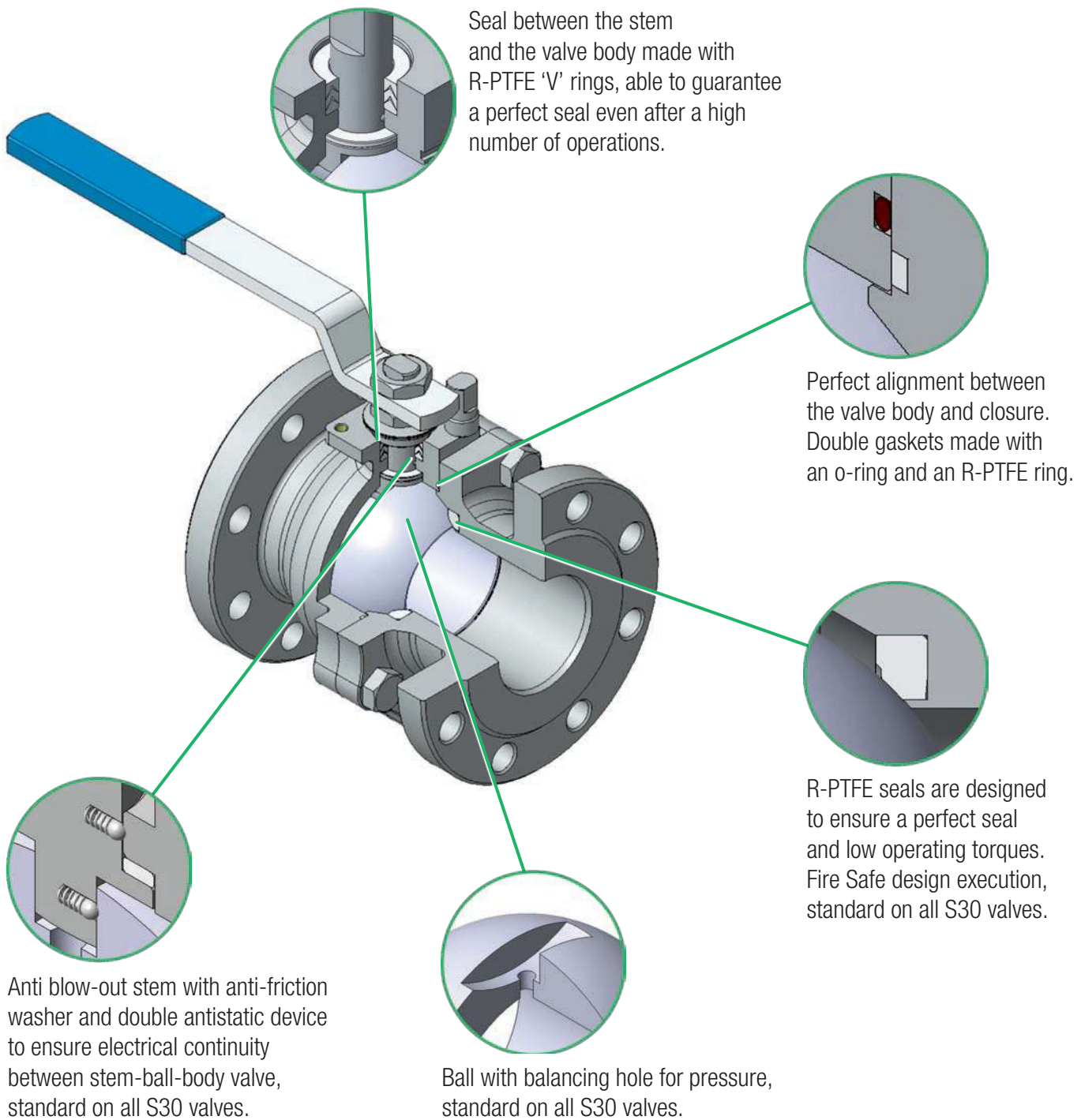
The S30 series split body ball valves are machined with the use of CNC machines, controlled with 3D measurement systems, assembled according to precise procedures and 100% tested in accordance with the requirements of international ASME, API, EN standards. All S30 series ball valves produced by Sirca International are made in Italy.

Standard technical features:

| | |
|----------------------------------|--|
| Type | Floating Ball valves Split Body |
| Size Range | 1/2" ÷ 8" (DN15 ÷ DN200) full bore |
| Design | EN 12516-2, ANSI B16.34, ISO 14313, ANSI B16.5ANSI B16.10, UNI EN 558-2 |
| Pressure class | ANSI 150 - 300 - 600 |
| (*) Max working pressure | 20 bar for class ANSI150 50 bar for class ANSI300 100 bar for class ANSI600 |
| Std operating temperature | -20°C ÷ +200 °C (-4 °F ÷ +392 °F) (see pressure-temperature diagram) |
| Leakage class | Rate "A", NO leakage, according to EN12266-1 |
| Flange drilling | Standard ANSI150, on request PN10-16 ANSI300, on request PN25, PN40 ANSI600, on request PN63, PN100 |
| Type end | RF-RF |
| Antistatic device | According to EN12266-2 |
| Top connection flange | According to ISO 5211 |
| Intercepted fluid | Air, water, gas, petroleum and petrochemical products, etc. |
| Certifications | 2014/68/UE PED 2014/34/UE ATEX IEC 61508, IEC 61511 SIL API607 - ISO 10497 - API 6FA FIRE SAFE EAC TR-CU 10, TR-CU 32 DVGW - EN13774 (undergoing certification) |

(*) At temperatures below 38°C, according to ASME B16.34

Standard features:



Special features:



On request, FIRE SAFE execution, certified according to API607 - ISO10497 - API6FA



On request, execution for NATURAL GAS use, certified DVGW - EN13774

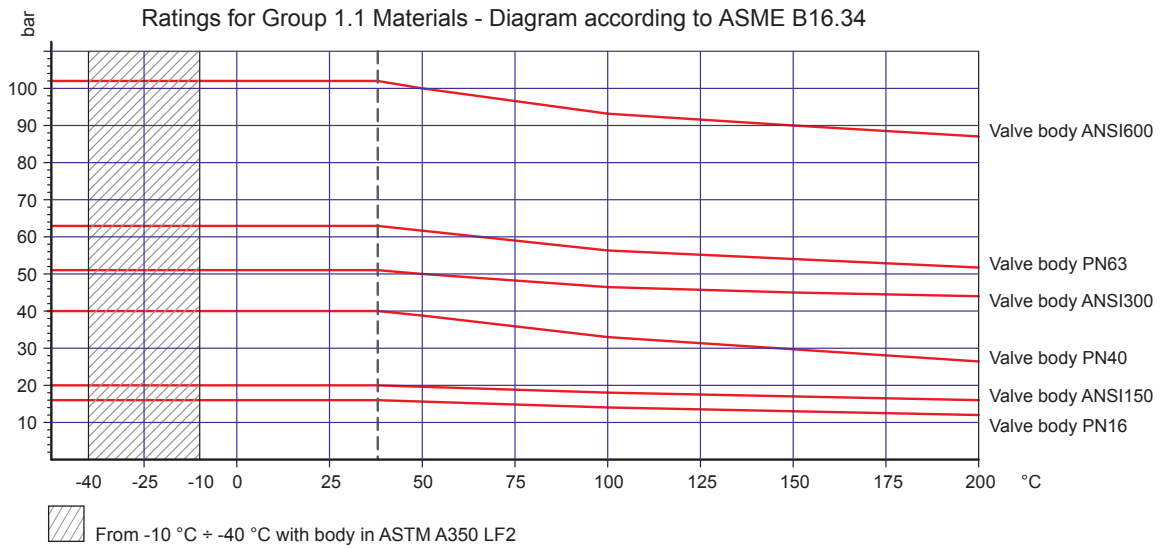


On request, GREASE FREE execution for oxygen use, according to EIGA IGC Doc. 13/02/E

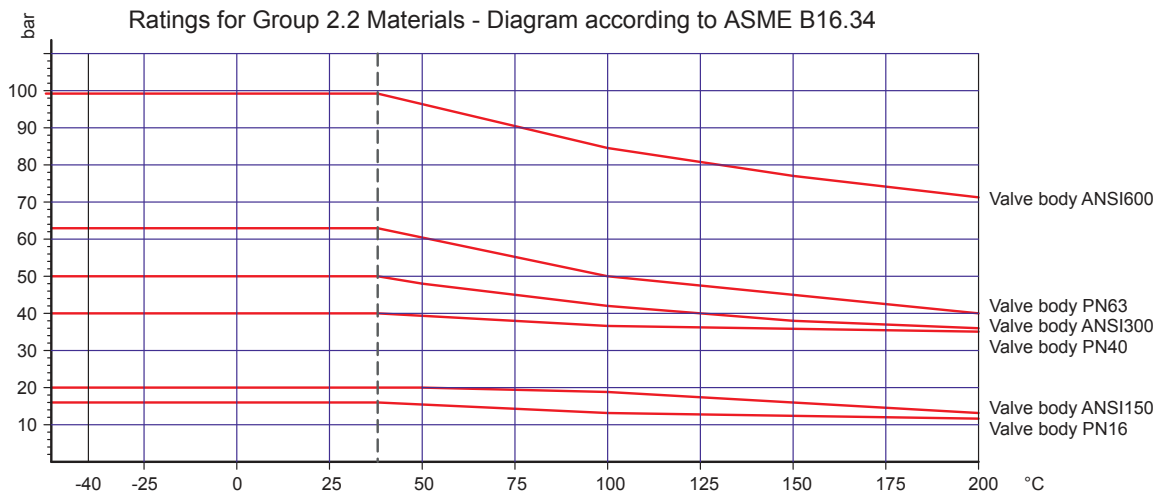


On request, FUGITIVE EMISSIONS certified according to EN-ISO 15848-1:2015

Temperature/Pressure diagram, for carbon steel valve



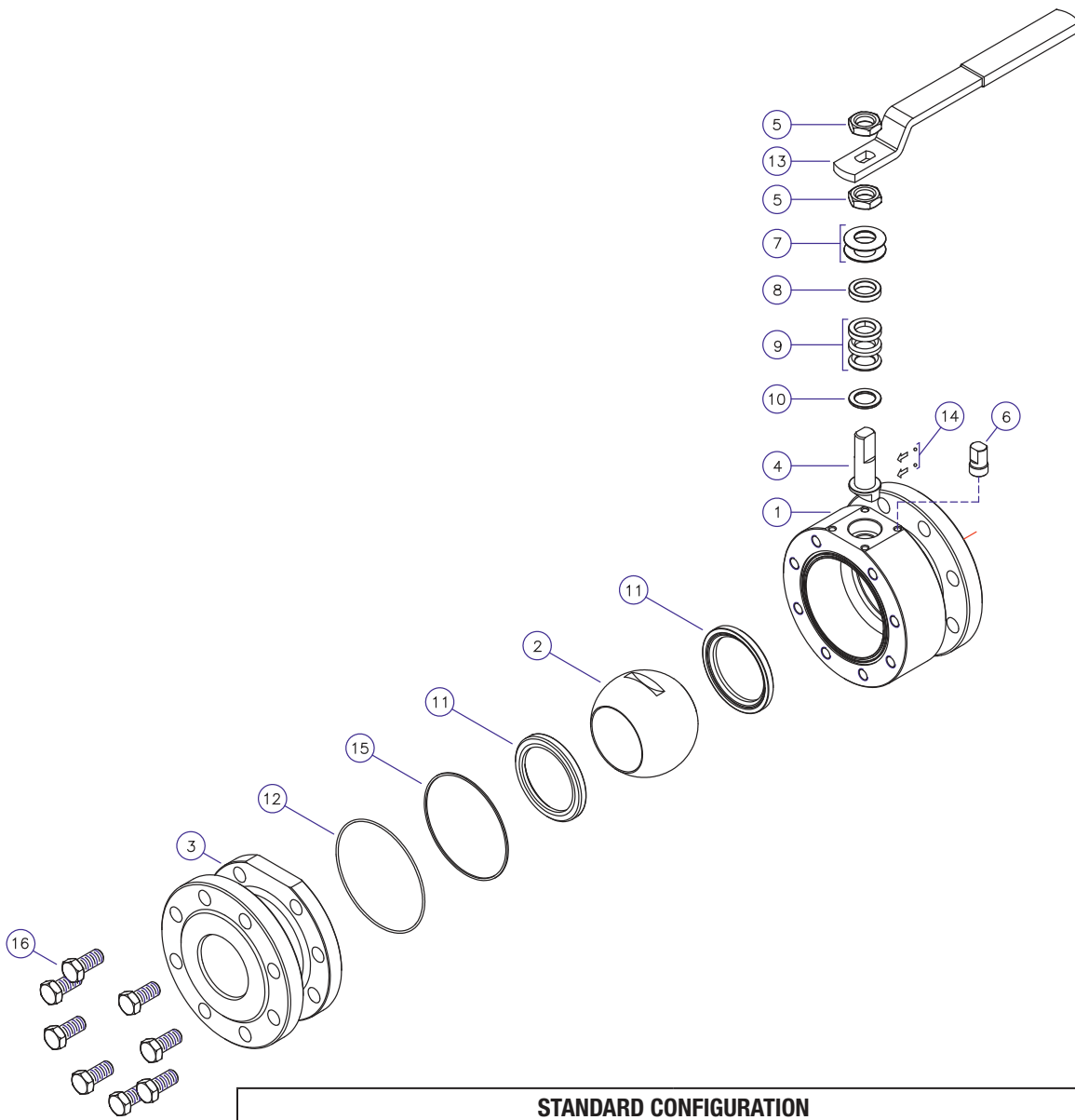
Temperature/Pressure diagram, for stainless steel valve



Torque (Nm) - Cv/Kv Values:

| Pressure (bar) | DN (mm) | | | | | | | | | | | |
|-------------------|---------|----|-----|-----|----|-----|-----|-----|------|------|------|------|
| | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
| 0 | 6 | 8 | 10 | 15 | 25 | 35 | 50 | 70 | 90 | 125 | 160 | 550 |
| 6 | 8 | 10 | 15 | 20 | 28 | 42 | 55 | 76 | 102 | 144 | 175 | 584 |
| 10 | 10 | 12 | 18 | 22 | 30 | 45 | 58 | 85 | 115 | 158 | 202 | 617 |
| 16 | 12 | 14 | 20 | 23 | 32 | 48 | 60 | 90 | 120 | 170 | 225 | 644 |
| 25 | 14 | 16 | 22 | 25 | 35 | 50 | 64 | 100 | 131 | 185 | 242 | 784 |
| 40 | 16 | 20 | 24 | 28 | 38 | 54 | 70 | 110 | 140 | 206 | 270 | 966 |
| 50 | 18 | 22 | 26 | 32 | 45 | 80 | 92 | 155 | 204 | // | // | // |
| 63 | 21 | 24 | 30 | 44 | 59 | 94 | 118 | 185 | 242 | // | // | // |
| 100 | 27 | 30 | 45 | 78 | 90 | 122 | 150 | 221 | 350 | // | // | // |
| Cv | 24 | 71 | 116 | 150 | 99 | 326 | 594 | 900 | 1402 | 1814 | 2080 | 4420 |
| Kv | 21 | 61 | 100 | 129 | 85 | 281 | 512 | 776 | 1208 | 1564 | 1793 | 3810 |

The values of the torques stated above can change in function of the intercepted fluid and working conditions (pressure, temperature, number of operations in time). Torque values listed are referred to an use with lubricating fluids, consider a safety factor of +25%. In the event that the valve intercept non-lubricated fluids and/or solid abrasive particles, the torques may be slightly higher, in such conditions, we recommend using a safety factor of +40%.



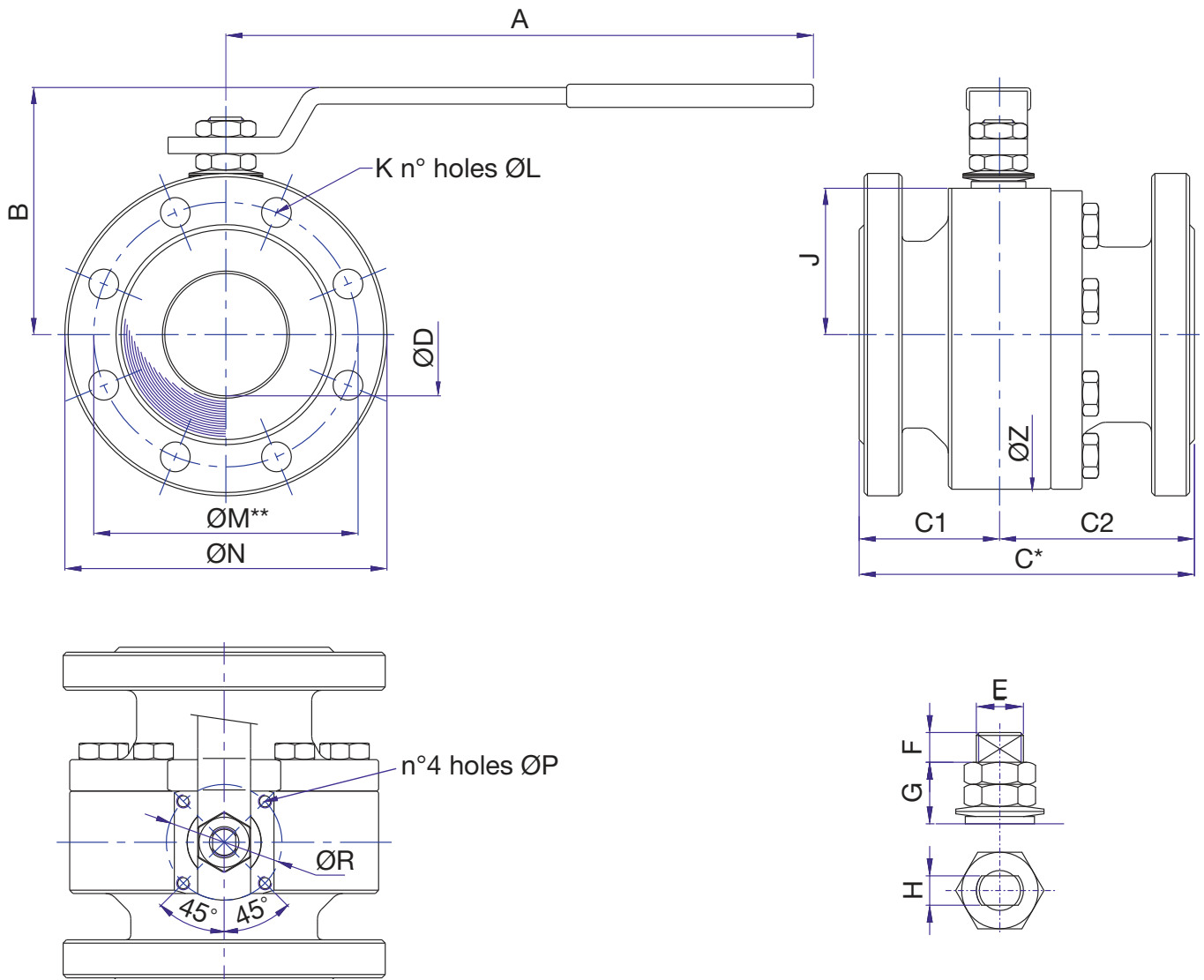
| Item | Description | STANDARD CONFIGURATION | | Q.ty |
|------|---------------------------|---------------------------------------|---------------------------------------|------|
| | | Carbon steel | Stainless steel | |
| 1 | Body | C.S. ASTM A350 LF2 | S.S. ASTM A351 CF8M or ASTM A479 316L | 1 |
| 2 | Ball | S.S. ASTM A351 CF8M or ASTM A479 316L | S.S. ASTM A351 CF8M or ASTM A479 316L | 1 |
| 3 | Plug | C.S. ASTM A350 LF2 | S.S. ASTM A351 CF8M or ASTM A479 316L | 1 |
| 4 | Stem | Stainless steel AISI 304 | Stainless steel AISI 316 | 1 |
| 5 | Nut | Stainless steel A2 | Stainless steel A2 | 2 |
| 6 | Stop pin | E.N.P. Carbon steel | Stainless steel AISI 303 | 1 |
| 7 | Belleville springs | E.N.P. Carbon steel | E.N.P. Carbon steel | 2 |
| 8 | Stuffing box | E.N.P. Carbon steel | Stainless steel AISI 316 | 1 |
| 9* | Gland packing | R-PTFE | R-PTFE | 1 |
| 10* | Stem seal ring | R-PTFE | R-PTFE | 1 |
| 11* | Seat | R-PTFE | R-PTFE | 2 |
| 12* | O-ring | NBR | VITON | 1 |
| 13 | Hand lever | Fe 360 B zinc plated | Stainless steel AISI 304 | 1 |
| 14 | Anti-static device | Stainless steel AISI 316 | Stainless steel AISI 316 | 2 |
| 15* | Gasket | R-PTFE | R-PTFE | 1 |
| 16 | Screw / Nut (**) | Carbon steel 8.8 / 6S | Stainless steel A2 / A2 | 4÷8 |

(*) Spare parts suggested

(**) On request: for Carbon steel configuration ASTM A193 B7 / ASTM A194 gr 2H
for Stainless steel configuration ASTM A193 B8M / ASTM A194 gr 8M

ATTENTION: other materials are available on request.

Overall dimensions for **class ANSI 150**



| SIZE | | A | B | *C | C1 | C2 | ØD | E | F | G | H | J | ANSI 150 | | | | ØZ max | ØP | ØR | ISO | WEIGHT (Kg) | |
|------|-------|-----|-----|-----|------|------|-----|----|----|----|----|-----|----------|------|-------|------|--------|-----|-----|-----|-------------|---------|
| mm | ins | | | | | | | | | | | | K | ØL | **ØM | ØN | | | | | bar | casting |
| 15 | 1/2 | 125 | 58 | 108 | 44,5 | 63,5 | 15 | 10 | 7 | 8 | 6 | 33 | 4 | 15,9 | 60,3 | 92,5 | 83,5 | M5 | 36 | F03 | 2,9 | 2,1 |
| 20 | 3/4 | 125 | 63 | 117 | 47,5 | 69,5 | 19 | 10 | 7 | 8 | 6 | 38 | 4 | 15,9 | 69,8 | 103 | 88,5 | M5 | 36 | F03 | 3,6 | 2,6 |
| 25 | 1 | 165 | 87 | 127 | 51,5 | 75,5 | 24 | 12 | 8 | 13 | 8 | 45 | 4 | 15,9 | 79,4 | 113 | 100 | M5 | 42 | F04 | 5,2 | 4 |
| 32 | 1.1/4 | 165 | 87 | 140 | 58,5 | 81,5 | 31 | 12 | 10 | 16 | 8 | 50 | 4 | 15,9 | 88,9 | 115 | 120 | M5 | 42 | F04 | 7,4 | 6,2 |
| 40 | 1.1/2 | 240 | 102 | 165 | 66 | 99 | 38 | 16 | 10 | 20 | 10 | 55 | 4 | 15,9 | 98,4 | 125 | 131 | M6 | 50 | F05 | 10,3 | 7,8 |
| 50 | 2 | 240 | 112 | 178 | 74,5 | 104 | 49 | 16 | 10 | 20 | 10 | 64 | 4 | 19 | 120,6 | 150 | 146 | M6 | 50 | F05 | 12,9 | 10,6 |
| 65 | 2.1/2 | 310 | 138 | 190 | 76 | 114 | 64 | 22 | 14 | 28 | 14 | 79 | 4 | 19 | 139,7 | 183 | 169 | M8 | 70 | F07 | 21,9 | 16,1 |
| 80 | 3 | 310 | 147 | 203 | 85 | 118 | 75 | 22 | 14 | 28 | 14 | 89 | 4 | 19 | 152,4 | 195 | 187 | M8 | 70 | F07 | 25,8 | 21 |
| 100 | 4 | 476 | 147 | 229 | 105 | 124 | 101 | 30 | 18 | 30 | 18 | 98 | 8 | 19 | 190,5 | 230 | 228 | M8 | 70 | F07 | 43,2 | 33,9 |
| 125 | 5 | 476 | 184 | 254 | 117 | 137 | 118 | 30 | 18 | 30 | 18 | 112 | 8 | 22,3 | 215,9 | 255 | 254 | M10 | 102 | F10 | 52,1 | 44 |
| 150 | 6 | 476 | 253 | 267 | 134 | 134 | 151 | 42 | 20 | 42 | 28 | 142 | 8 | 22,3 | 241,3 | 280 | 296 | M12 | 125 | F12 | 71,2 | 65 |
| 200 | 8 | 520 | 294 | 457 | 209 | 249 | 202 | 48 | 20 | 48 | 32 | 181 | 8 | 22,3 | 298,4 | 345 | 365 | M14 | 140 | F14 | 168,7 | 143 |

ATTENTION:

(*) Dimension according to ASME B16.10 ANSI150 'Short Pattern'

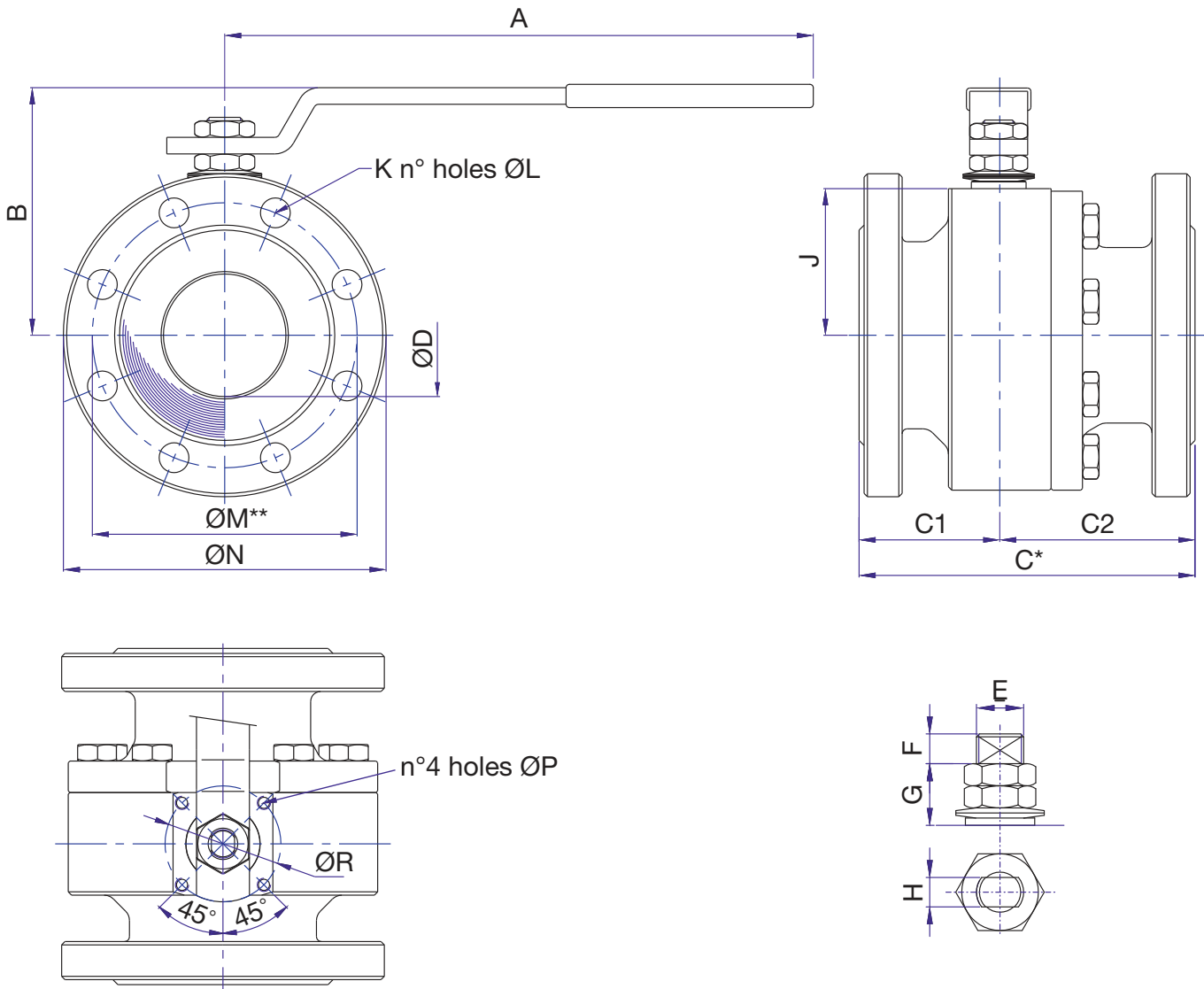
Only for DN200-8" according to ASME B16.10 ANSI150 'Long Pattern'

(**) Dimension according to ASME B16.5 ANSI150 (available on request drilling according to UNI EN 1092-1, PN10, PN16)

Sirca International s.p.a. reserves the right to change the dimensions and data shown in this catalogue, without prior notice.

When ordering you may want to request updated versions of the drawings and technical documentation from Sirca International s.p.a.

Overall dimensions for class ANSI 300



| SIZE | | A | B | *C | C1 | C2 | ØD | E | F | G | H | J | ANSI 300 | | | | ØP | ØR | ISO | WEIGHT (Kg) | |
|------|-------|-----|-----|-----|------|------|-----|----|----|----|----|-----|----------|------|-------|-----|-----|-----|-----|-------------|---------|
| mm | ins | | | | | | | | | | | | K | ØL | **ØM | ØN | | | | bar | casting |
| 15 | 1/2 | 125 | 58 | 140 | 70 | 70 | 15 | 10 | 7 | 8 | 6 | 33 | 4 | 15,9 | 66,7 | 95 | M5 | 36 | F03 | 4,2 | // |
| 20 | 3/4 | 125 | 63 | 152 | 76 | 76 | 19 | 10 | 7 | 8 | 6 | 38 | 4 | 19 | 82,6 | 115 | M5 | 36 | F03 | 5 | // |
| 25 | 1 | 165 | 87 | 165 | 82,5 | 82,5 | 24 | 12 | 8 | 13 | 8 | 45 | 4 | 19 | 88,9 | 125 | M5 | 42 | F04 | 8,1 | // |
| 32 | 1.1/4 | 165 | 87 | 178 | 89 | 89 | 31 | 12 | 10 | 16 | 8 | 50 | 4 | 19 | 98,4 | 135 | M5 | 42 | F04 | 10,5 | // |
| 40 | 1.1/2 | 240 | 102 | 190 | 84 | 106 | 38 | 16 | 10 | 20 | 10 | 55 | 4 | 22,3 | 114,3 | 155 | M6 | 50 | F05 | 13,2 | // |
| 50 | 2 | 240 | 112 | 216 | 106 | 111 | 49 | 16 | 10 | 20 | 10 | 64 | 8 | 19 | 127,0 | 165 | M6 | 50 | F05 | 17,8 | // |
| 65 | 2.1/2 | 310 | 138 | 241 | 121 | 121 | 64 | 22 | 14 | 28 | 14 | 79 | 8 | 22,3 | 149,2 | 190 | M8 | 70 | F07 | 30,5 | // |
| 80 | 3 | 310 | 147 | 283 | 142 | 142 | 75 | 22 | 14 | 28 | 14 | 89 | 8 | 22,3 | 168,3 | 210 | M8 | 70 | F07 | 37,4 | // |
| 100 | 4 | 476 | 147 | 305 | 153 | 153 | 101 | 30 | 18 | 30 | 18 | 98 | 8 | 22,3 | 200,0 | 255 | M8 | 70 | F07 | 61,1 | // |
| 125 | 5 | 476 | 184 | 381 | 117 | 264 | 118 | 30 | 18 | 30 | 18 | 112 | 8 | 22,3 | 235,0 | 280 | M10 | 102 | F10 | 73,3 | // |
| 150 | 6 | 476 | 253 | 403 | 202 | 202 | 151 | 42 | 20 | 42 | 28 | 142 | 12 | 22,3 | 269,9 | 320 | M12 | 125 | F12 | 99 | // |
| 200 | 8 | 520 | 294 | 502 | 251 | 251 | 202 | 48 | 20 | 48 | 32 | 181 | 12 | 25,4 | 330,2 | 380 | M14 | 140 | F14 | 233 | // |

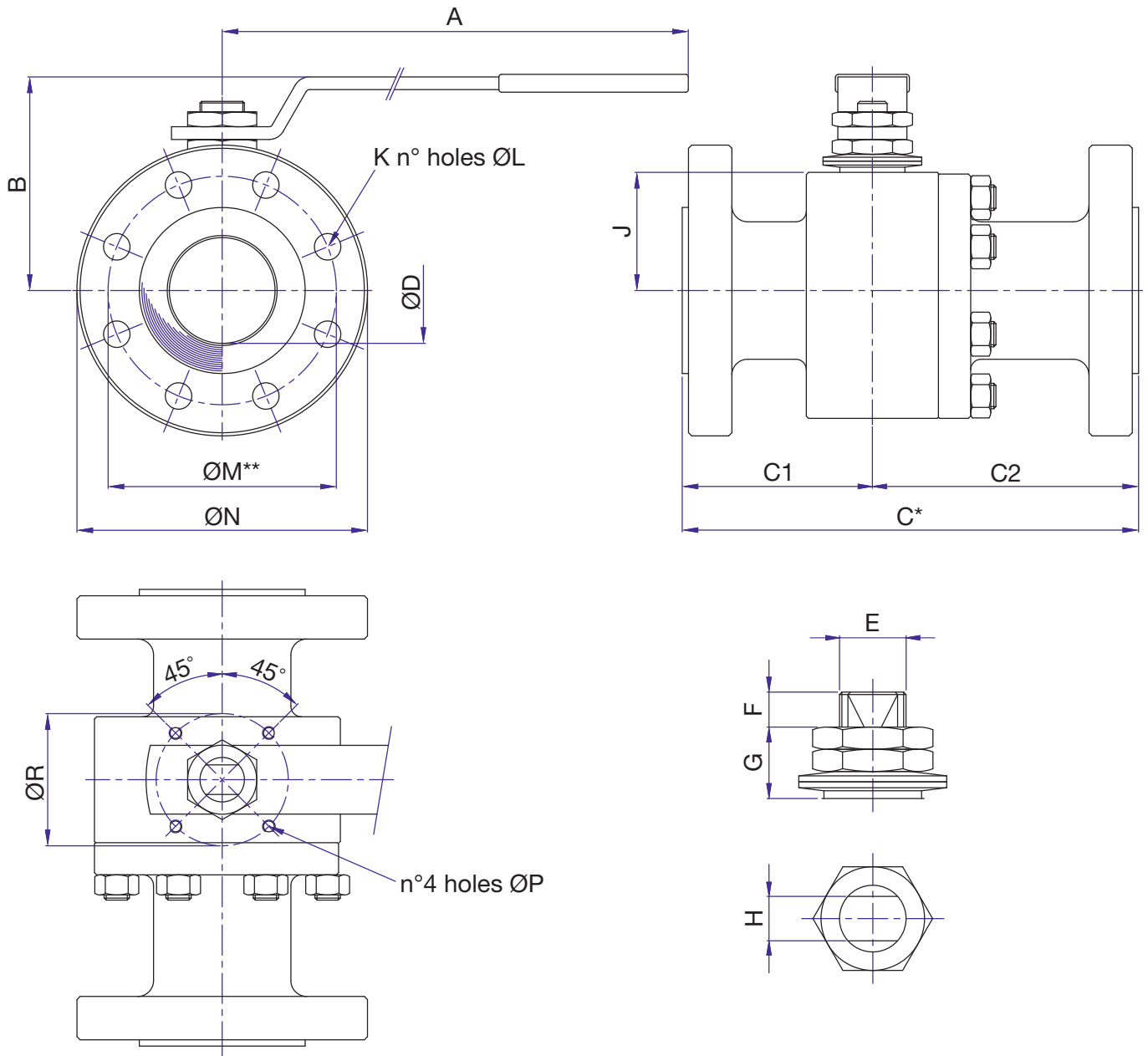
ATTENTION:

(*) Dimension according to ASME B16.10 ANSI300 'Long Pattern'

(**) Dimension according to ASME B16.5 ANSI300 (available on request drilling according to UNI EN 1092-1, PN25, PN40)

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When ordering you may want to request updated versions of the drawings and technical documentation from Sirca International s.p.a.

Overall dimensions for **class ANSI 600**



| SIZE | | ANSI 600 | | | | | | | | | | | WEIGHT (Kg) | | | | | | | | |
|------|-------|----------|-----|-----|-----|-----|-----|----|------|----|----|-----|-------------|------|-------|-----|-----|-----|-----|-------|---------|
| mm | ins | A | B | *C | C1 | C2 | ØD | E | F | G | H | J | K | ØL | **ØM | ØN | ØP | ØR | ISO | bar | casting |
| 15 | 1/2 | 190 | 105 | 165 | 66 | 99 | 15 | 12 | 8,5 | 14 | 8 | 35 | 4 | 15,9 | 66,7 | 95 | M5 | 36 | F03 | 6,1 | // |
| 20 | 3/4 | 190 | 106 | 190 | 80 | 110 | 19 | 12 | 8,5 | 14 | 8 | 38 | 4 | 19 | 82,6 | 115 | M5 | 36 | F03 | 7,5 | // |
| 25 | 1 | 280 | 110 | 216 | 78 | 138 | 24 | 16 | 10 | 20 | 10 | 46 | 4 | 19 | 88,9 | 125 | M6 | 50 | F05 | 9,0 | // |
| 32 | 1.1/4 | 280 | 112 | 229 | 88 | 141 | 31 | 16 | 10 | 20 | 10 | 57 | 4 | 19 | 98,4 | 135 | M6 | 50 | F05 | 12,2 | // |
| 40 | 1.1/2 | 380 | 130 | 241 | 100 | 141 | 38 | 22 | 12 | 22 | 14 | 68 | 4 | 22,2 | 114,3 | 155 | M8 | 70 | F07 | 19,0 | // |
| 50 | 2 | 380 | 140 | 292 | 100 | 192 | 49 | 22 | 12 | 22 | 14 | 78 | 8 | 19 | 127,0 | 165 | M8 | 70 | F07 | 24,5 | // |
| 65 | 2.1/2 | 380 | 158 | 330 | 130 | 200 | 64 | 30 | 16,5 | 26 | 18 | 88 | 8 | 22,2 | 149,2 | 190 | M8 | 70 | F07 | 48,0 | // |
| 80 | 3 | 480 | 170 | 356 | 156 | 200 | 75 | 30 | 16,5 | 26 | 18 | 97 | 8 | 22,2 | 168,3 | 210 | M8 | 70 | F07 | 51,8 | // |
| 100 | 4 | 750 | 225 | 432 | 180 | 252 | 101 | 42 | 20 | 34 | 28 | 114 | 8 | 25,4 | 215,9 | 255 | M12 | 125 | F12 | 102,0 | // |

ATTENTION:

(*) Dimension according to ASME B16.10 ANSI600 'Long Pattern'

(**) Dimension according to ASME B16.5 ANSI600 (available on request drilling according to UNI EN 1092-1, PN63, PN100)

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When ordering you may want to request updated versions of the drawings and technical documentation from Sirca International s.p.a.

HAND LEVER



GEAR BOX



PNEUMATIC ROTARY ACTUATORS



LIMIT SWITCH BOX and SOLENOID VALVE



ELECTRO-PNEUMATIC POSITIONER



ELECTRIC ACTUATORS





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