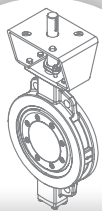




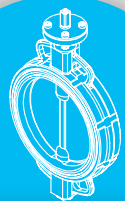
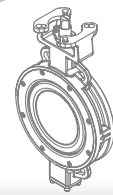
301 series
Butterfly Valves
with Rubber Seat

OUR PRODUCTION



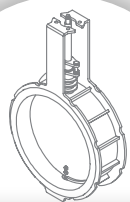
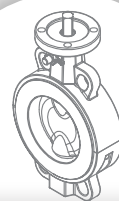
501M series - Triple Eccentric Metal Seated Butterfly Valves

401N series - Double Eccentric Butterfly Valves



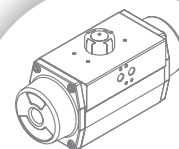
301 series - Butterfly Valves with rubber seat

301TSS / 301TT series - Butterfly Valves with PTFE lined

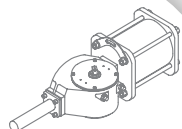


HT600 series - Damper valves for high temperature

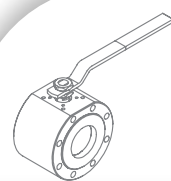
AP / APM series - Pneumatic Rotary Actuators



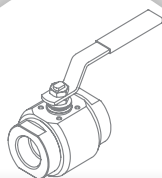
APG series - Schotch Yoke Pneumatic Actuators



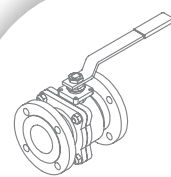
S10 series - Wafer Flat Body Ball Valves



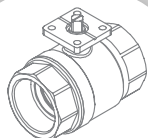
S20 series - Two-pieces 800 p.s.i. Ball Valves



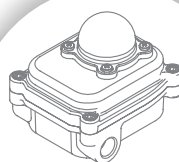
S30 series - Split Body Ball Valves



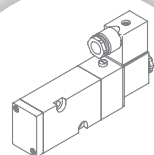
S40, S50, S60, S70, S80 series - Threaded actuated and manual ball valves



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.

Constructive features **DN40÷DN600**



The upper stem is locked by manual or motorized control while the O-ring assures a life-time lubrication. Moreover, a mark is machined on the top part of the stem, which reproduces exactly the disc position, when the valve is inserted between the flanges.

The one-piece valve body casting ensures high strength with minimum weight. It can be supplied in a wide choice of materials, for both WAFER and LUG models, so as to meet all possible installation requirements.

The stem has a square end which fits directly in the disc; hence no fastening elements are needed. This allows the disc to float on the stem and to be self-centering inside the seal so as to form a continuous tight shut-off line with the latter. Thanks to the special shape of the SIRCA disc, pressure drops and forces of rotation are appreciably reduced.

Thanks to the special internal profile of the surface of contact between disc-seat, the reciprocal back pressures ensure tight shut-off.

The resilient seat is vulcanized on metallic support ring. Thanks to its straight-forward design it is easily replaceable without use of special tools.

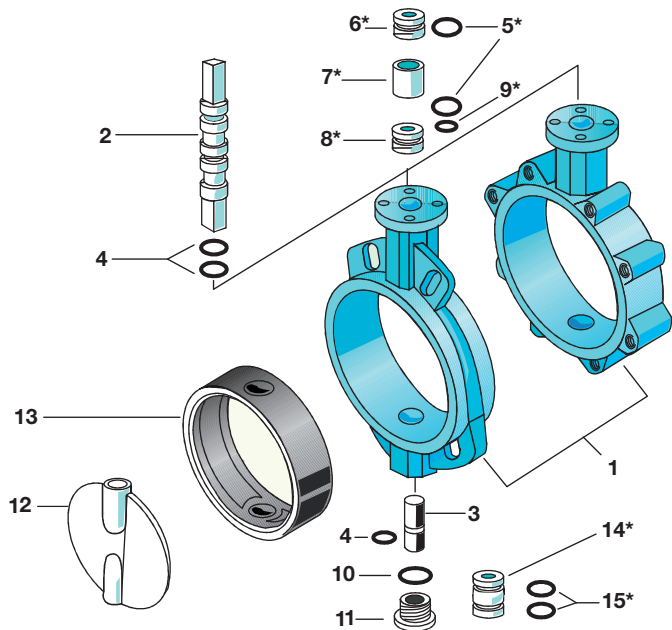
Thanks to the special profile of the seat, no seal is required between the flanges. while the O-ring assures a life-time lubrication. Moreover, a mark is machined on the top part of the stem, which reproduces exactly the disc position, when the valve is inserted between the flanges.

- **Corrosion and abrasion resistant** only the seat and disc are in contact with the fluid.
- **Self-cleaning** and two-way (therefore the valve can be mounted in both direction of flow).
- **Seat** with internal metallic support ring to ensure geometric and dimensional stability.
- **Disc** self-centering inside the seat thanks to the floating coupling between stem-disc.
- **Stem-disc coupling** without use of fastening elements (screw bolts, etc.) which could be sources of corrosion and failures.
- **Disc of special design** in order to ensure ample full flow, low pressure drops, and minimum turbulence.
- **Valves** are in according to I.S. EN 558-1 API STD 609 - MSS SP 67 - ASME B16.5 / B16.34.
- **Maximum** ease of assembly and maintenance: no additional seals are required for mounting between the flanges, nor lubrication.
- **Adaptability** to any type of pneumatic or electric actuator.
- **Protection** of the valve outer parts against corrosion (epoxy or polyurethane paint).
- **Good** adjustment characteristic.
- **Tight shut-off** with pressure drop up to 20 bar.
- **Favourable cost.**
- **Very compact** size and light weight.

| | |
|-------------------------------|---|
| Size range | 1.1/2" ÷ 40" (DN40 ÷ DN1000) |
| Type | Wafer, Lug, Double flanged |
| Face to face dimension | EN 558 series 20 |
| Top flange | ISO 5211 |
| Max working pressure | 20 bar - bidirectional |
| Flange drilling | PN6, PN10, PN16 / ANSI class 150 |
| Operating temperature | -20 °C ÷ +160 °C (-4 °F ÷ +320 °F) |
| Standard materials | Body: Ductile Iron, Carbon Steel, Stainless Steel, Al/Bronze, F51 Disc: Ductile Iron, Carbon Steel, Stainless Steel, Al/Bronze Stem: AISI 316, AISI 420, AISI 630, MONEL K Seat: NBR, EPDM, EPDM HT, VITON, more (all seats have inside a metal ring reinforcement) |
| Leakage class | Rate "A" - No leakage – according to EN 12266-1 |
| Applications | Liquids or gases in industrial environments, plants, water treatment, vacuum, other applications with compatible materials to working conditions |
| Certifications | 2014/68/EU PED, 2014/34/EU ATEX, SIL IEC 61508 - IEC 61511, CU TR 010 – CU TR 032 CU TR 012, TA-Luft |

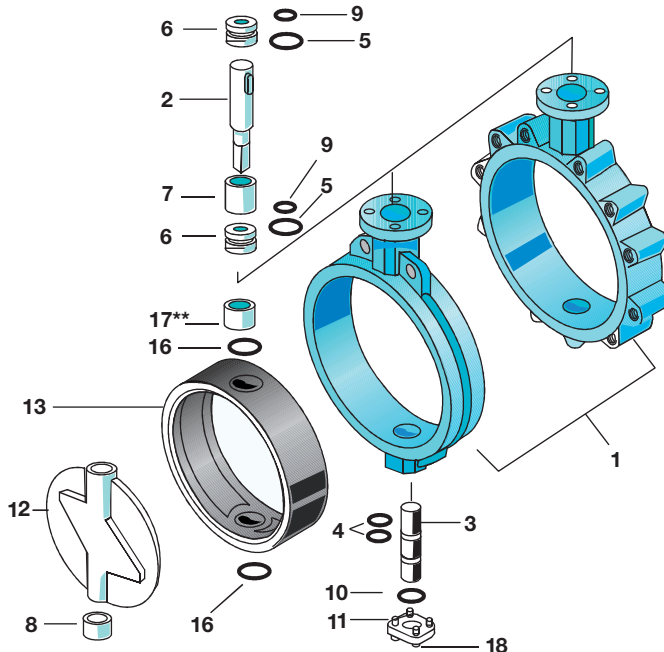
DN 40 ÷ DN 300 (1 1/2" ÷ 12")

* Only for valves with body in steel material.



DN 350 ÷ DN 600 (14" ÷ 24")

** Only for 18"-20".



| Item | Description | Materials | Ref. Norm. |
|-------|--------------------------------|---|---|
| 1 | Body | Ductile Iron Al/BR. G-CU Al 11 Fe4 Ni4 Cut-off Carb.Steel P355NH Carbon Steel Stainless Steel | EN GJS 400/15 o GGG40 ASTM B 148-GR.955 EN 10028-3 ASTM 216 WCB ASTM 351-CF8M / CF3M |
| 2+3 | Upper and lower stem | Al/BR CU Al 10 Ni5 Fe4 416 S.S. 316 S.S. / 316 L.S.S. 630 S.S. Duplex F51 Hastelloy C 276 Monel K 500 | DIN 1756 ASTM A 582 Type 416 ASTM A 479 Type 316 / 316L ASTM A 5642 Type 630 UNS S 31803 ASTM B 574-94 BS 3076 NA 18(1989) |
| 4+5 | O-Ring | Buna / Viton | - |
| 6 | Short bushing with 1 OR | Bronze | - |
| 7 | Spacer | Carbon Steel | - |
| 8 | Short bushing with 2 OR | Bronze | - |
| 9+10 | O-Ring | Buna / Viton | - |
| 11 | Plug | Carbon Steel / 304 S.S. | - |
| 12 | Disc | Ductile Iron EN GJS 400/15 o GGG40 Al/BR. G-CU Al 11 Fe4 Ni4 Cut-off Carbon Steel Stainless Steel EPDM-BUNA N-Viton coated RILSAN-HALAR coated | ASTM A 536 GR.64-45-15 ASTM B 148-GR.955 ASTM A 216 WCB ASTM A 351-CF8M / CF3M ASTM A 351 GR. CK 3 M CUN ASTM A 351 GR. CD 4 M CU ASTM A 494 CW 2 M ASTM A 494 GR. CK M 35-1 |
| 13 | Seat | Buna N* - EPDM - EPDM H.T. Natural rubber - Neoprene Viton - Hypalon - Silicone PTFE | - ASTM D 2000 - ASTM D 1437-73 |
| 14 | Long bushing | Bronze | - |
| 15+16 | O-Ring | Buna / Viton | - |
| 17** | Bushing | Bronze | - |
| 18 | Screw | Carbon Steel 8.8 / S.S. A2 | - |

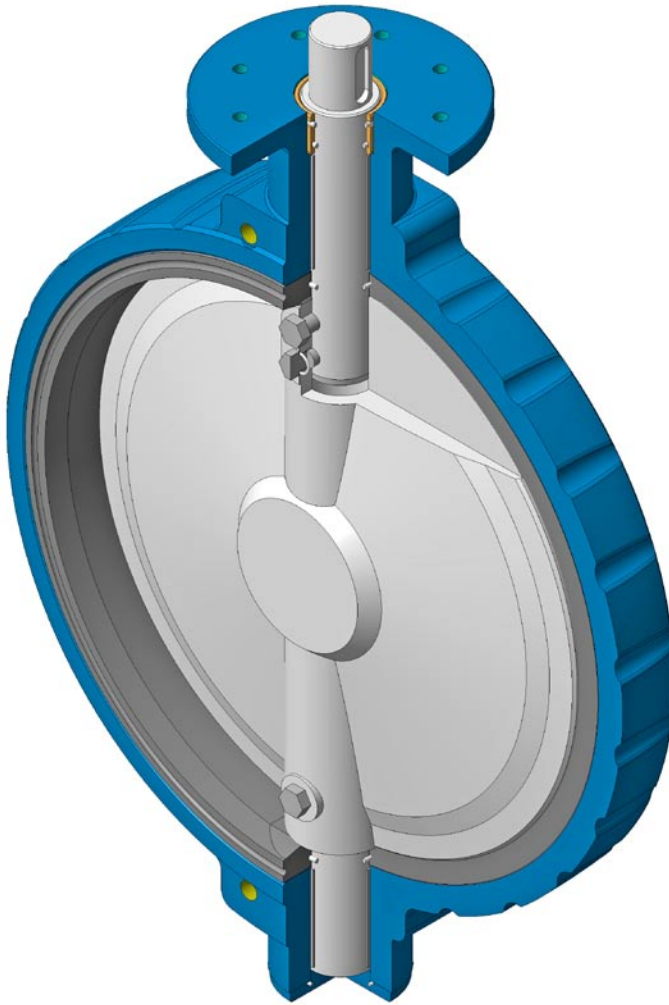
* Du Pont trademark

Spare part suggested

NOTE:

Special materials, are available on request.

The butterfly valve 301 series bears to satisfy applications as interception and regulation of fluids in plants for big diameters (DN700÷DN1000).



Project Design

The valves are built in diameters from DN700 up to DN1000. The valves have a perfect held “bubble tight shut off” in every direction of fluid at maximum rating application. The Seat is constituted by matter of vulcanized rubber on a metallic support that allows geometric stability. The disc is very wide in order to have low drop of pressure and minimum turbulence. The body and the shafts are always protected from the fluid, only the seat and the disc are in contact with the fluid. Easy to adapt to any type of actuator: pneumatic, electrical, hydraulic or handwheel and gear devices. The body has an epoxy painting that protects the valve from corrosion and makes it suitable for marine atmosphere. The valve is self-cleaning and it has double tightening on the shafts. The one-piece cast can be supplied in different materials in Wafer, Lug and Flanged application.

One of the many advantages of this valve is the low Weight that allows an easy installation and the low cost with the guarantee of a safety technical application.

Butterfly Valves 301 series are bidirectional and have the seal constituted by a particular seat with a wide gauge bigger than face to face of the valve’s body, so it’s possible to install the valve without the use of added seals.

These valves are available in Wafer, Lug and Flanged applications.

The **Wafer** type has four throughout threaded holes according to actual flanges norms.

The **Lug** type has ears with threaded holes according to actual flanges norms.

Also the **Flanged** Valves have the threaded holes but for this application there are not ears on the valve’s body, in fact the Flanged valve’s body is made by two flat faces similar to two flanges.

All sizes of 301 series can be mounted on the flanges according to actual flanges norms, UNI EN 1092-1 for PN6-10-16 and ASME B16.1 for ANSI150.

The easy structure of the valve and the employment of few components of the valve during the action of the same, guarantee the long life of the valve and besides they reduce the maintenance operations. The large choice of material at disposal and the possibility to execute particular applications, like coverings of components of the valve, give to this valve a large variety of fields of application.

Technical Features

The one-piece cast can be supplied in different materials in Wafer, Lug and Flanged application.

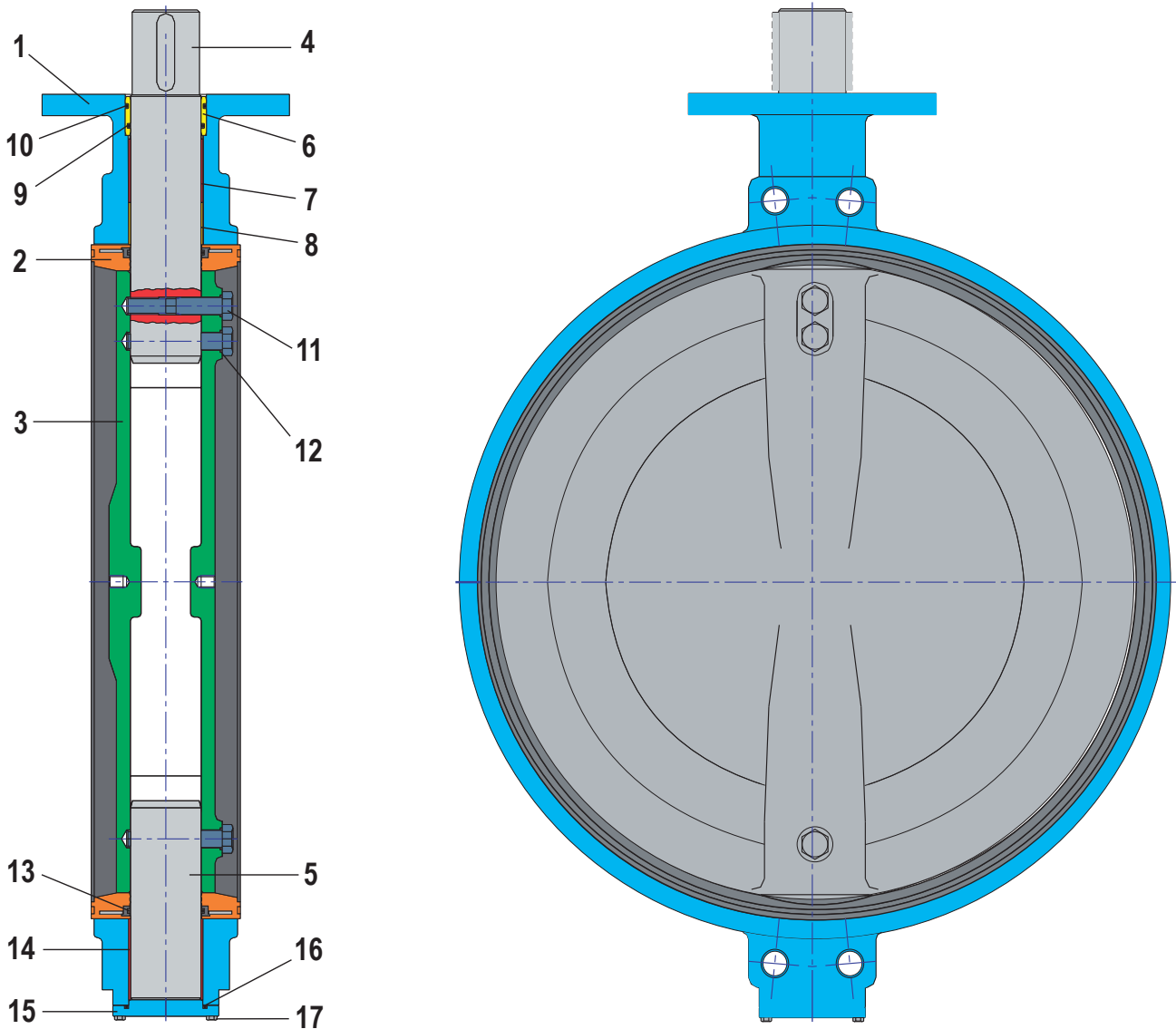
The rounded profile of the Disc, and the particular shape of the Seat allow to obtain a low torque during the closing-action and guarantee a perfect bubble tight shut off.

The high resistant shafts enter into the discs for 2/3 of the diameter of the disc.

The shafts are guided by bushings with internal and external O-rings that guarantee a good operation and avoid that powders and liquids go inside the body or be in contact with the shafts.

The shafts are fixed onto the discs with special screws.

The butterfly valves 301 series has also in the lower part a plug with O-ring that locks the lower shaft and eliminates the leakages towards the outside.

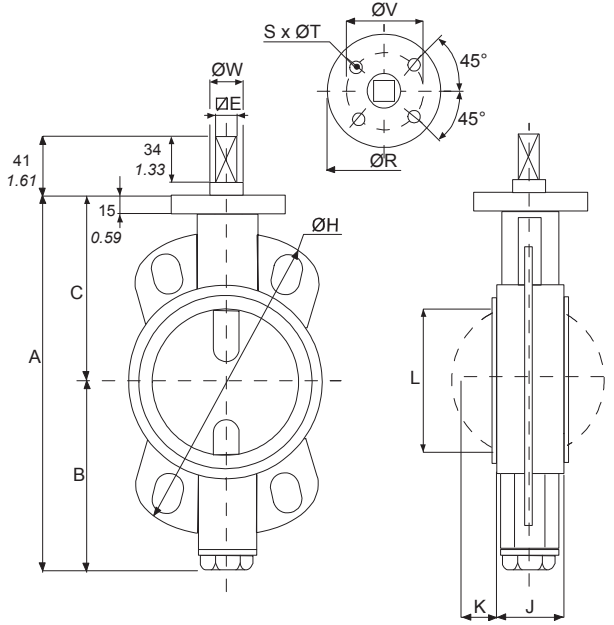


| Item | Description | Standard materials | Q.ty |
|------|---------------|---|------|
| 1 | Body | Carbon Steel A216 WCB - Stainless Steel ASTM A351-CF8M - Ductile Iron ENGJS400-15 | 1 |
| 2* | Gasket | BUNA / VITON /EPDM | 1 |
| 3 | Disc | Carbon steel A216 WCB - Stainless Steel ASTM A351-CF8M - Ductile Iron ENGJS400-15 | 1 |
| 4 | Upper stem | S.S. AISI 416 - S.S. AISI 420 - S.S. AISI 316 | 1 |
| 5 | Lower stem | S.S. AISI 416 - S.S. AISI 420 - S.S. AISI 316 | 1 |
| 6 | Upper bushing | Bronze | 1 |
| 7 | Metal bushing | Carbon Steel | 1 |
| 8 | Metal bushing | Carbon Steel | 1 |
| 9* | O-Ring | BUNA / VITON | 1 |
| 10* | O-Ring | BUNA / VITON | 1 |
| 11* | Hexagon screw | Steel type class 8.8 or A2 S.S. | 3 |
| 12* | O-Ring | BUNA / VITON | 3 |
| 13* | O-Ring | BUNA / VITON | 3 |
| 14 | Metal bushing | Carbon Steel | 1 |
| 15 | Plug | Carbon Steel - 316 S.S. | 1 |
| 16* | O-Ring | BUNA / VITON | 1 |
| 17 | Hexagon screw | Steel type class 8.8 or A2 S.S. | 4 |

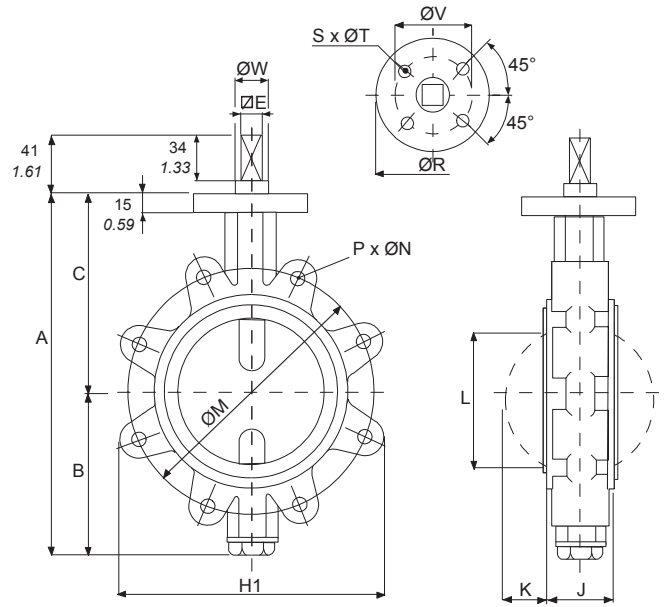
* Spare part suggested

Overall dimensions

WAFER TYPE



LUG TYPE



| DN | A | B | C | ØE | ØH | H1 | J** | K | L | ØM | ØM | ØM | ØM | ØN | ØN | ØN | ØN | P | P | P | P | ØR | S | T | ØV | ØW |
|-----|-----|-----|-----|----|-----|-----|------|-------|-----|-----|------|------|--------------|-----|------|------|--------------|-----|------|------|--------------|--------|----------|---------|----------------|------|
| | | | | | | | | | | PN6 | PN10 | PN16 | ANSI 150 lbs | PN6 | PN10 | PN16 | ANSI 150 lbs | PN6 | PN10 | PN16 | ANSI 150 lbs | FLANGE | N° HOLES | Ø HOLES | Ø HOLES CIRCLE | |
| 40 | 188 | 90 | 98 | 12 | 145 | 111 | 34 | 6.6 | 31 | 100 | 110 | 110 | 98.5 | M12 | M16 | M16 | 1/2" | 4 | 4 | 4 | 4 | 90 | 4 | 8.5 | 70 | 16 |
| 50 | 205 | 96 | 109 | 12 | 160 | 120 | 43,5 | 7.2 | 36 | 110 | 125 | 125 | 120.5 | M12 | M16 | M16 | 5/8" | 4 | 4 | 4 | 4 | 90 | 4 | 8.5 | 70 | 16 |
| 65 | 230 | 108 | 122 | 12 | 180 | 138 | 46 | 12.9 | 53 | 130 | 145 | 145 | 139.5 | M12 | M16 | M16 | 5/8" | 4 | 4 | 4 | 4 | 90 | 4 | 8.5 | 70 | 16 |
| 80 | 250 | 118 | 132 | 12 | 198 | 150 | 46 | 19.3 | 69 | 150 | 160 | 160 | 152.5 | M16 | M16 | M16 | 5/8" | 4 | 8 | 8 | 4 | 90 | 4 | 8.5 | 70 | 16 |
| 100 | 285 | 132 | 153 | 12 | 230 | 213 | 52 | 27.15 | 90 | 170 | 180 | 180 | 190.5 | M16 | M16 | M16 | 5/8" | 4 | 8 | 8 | 8 | 90 | 4 | 8.5 | 70 | 16 |
| 125 | 327 | 150 | 177 | 16 | 256 | 243 | 56,5 | 36.4 | 115 | 200 | 210 | 210 | 216 | M16 | M16 | M16 | 3/4" | 8 | 8 | 8 | 8 | 90 | 4 | 8.5 | 70 | 19.5 |
| 150 | 359 | 165 | 194 | 16 | 286 | 267 | 56,5 | 48.6 | 142 | 225 | 240 | 240 | 241.5 | M16 | M20 | M20 | 3/4" | 8 | 8 | 8 | 8 | 90 | 4 | 8.5 | 70 | 19.5 |
| 200 | 419 | 194 | 225 | 16 | 348 | 320 | 60 | 69.8 | 199 | 280 | 295 | 295 | 298.5 | M16 | M20 | M20 | 3/4" | 8 | 8 | 12 | 8 | 90 | 4 | 8.5 | 70 | 19.5 |
| 250 | 495 | 220 | 275 | 18 | 414 | 402 | 68 | 90 | 238 | 335 | 350 | 355 | 362 | M16 | M20 | M24 | 7/8" | 12 | 12 | 12 | 12 | 125 | 4 | 11 | 102 | 24 |
| 300 | 559 | 262 | 297 | 22 | 490 | 473 | 78 | 111.1 | 289 | 395 | 400 | 410 | 432 | M20 | M20 | M24 | 7/8" | 12 | 12 | 12 | 12 | 125 | 4 | 11 | 102 | 29 |

** Complying with I.S. EN 558-1 Standards

"L" is the measurement of the disc chord, which determines its full opening.

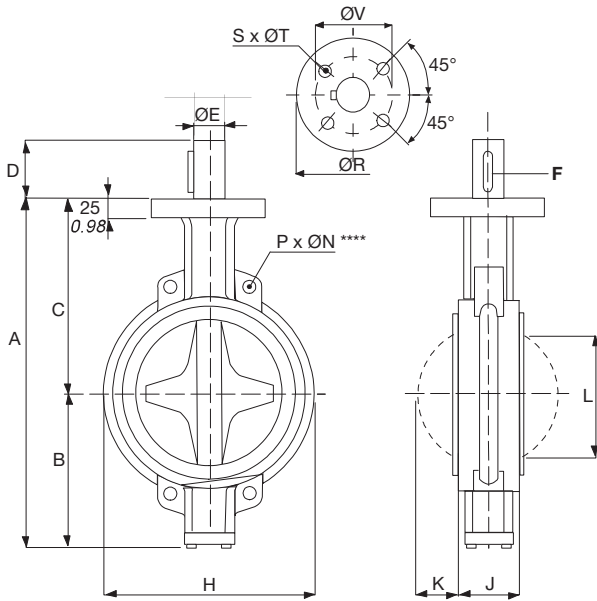
*** For flanges ANSI 150 lbs thread is according to ANSI B1.1 type UNC / 8-UN .

*** On request, for ANSI 150 lbs metric threading UNI EN 1092-1.

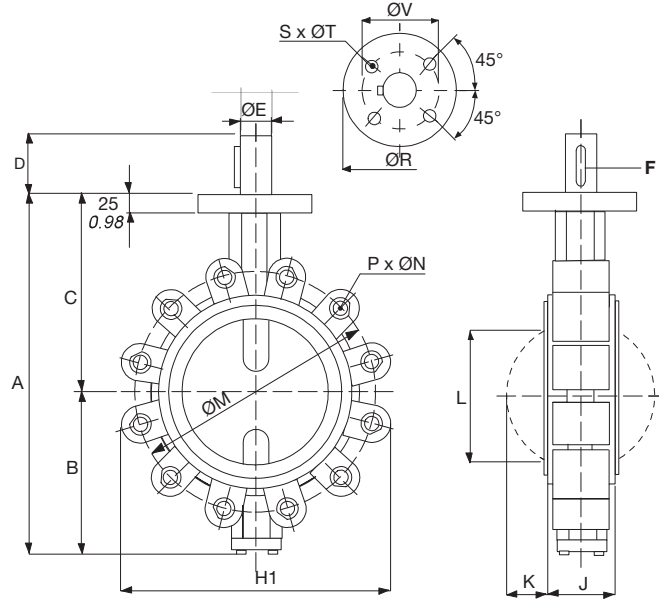
Weights (Kg)

| DN | mm | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
|--------|-------|-------|-----|-------|-----|-----|-----|------|------|------|------|
| | inc | 1 1/2 | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
| Weight | Wafer | 2.2 | 2.9 | 3.9 | 4.2 | 5 | 7.4 | 8.5 | 11.8 | 18.5 | 29.8 |
| | Lug | 2.6 | 3.5 | 4.9 | 5.4 | 7 | 10 | 11.1 | 17 | 27.4 | 40.4 |

WAFER TYPE



LUG TYPE



| DN | A | B | C | D | ØE | F | ØH | H1 | J** | K | L | ØM | ØM | ØM | ØM | ØN | ØN | ØN | ØN | P | P | P | P | ØR | S | T | ØV |
|------|------|-------|-------|-----|------|-----------------|------|------|-----|-----|-----|------|------|------|--------------|-----|------|------|--------------|-----|------|------|--------------|--------|----------|---------|----------------|
| | | | | | | | | | | | | PN6 | PN10 | PN16 | ANSI 150 lbs | PN6 | PN10 | PN16 | ANSI 150 lbs | PN6 | PN10 | PN16 | ANSI 150 lbs | FLANGE | N° HOLES | Ø HOLES | Ø HOLES CIRCLE |
| 350 | 632 | 281 | 351 | 60 | 44,5 | | 436 | 516 | 78 | 126 | 324 | 445 | 460 | 470 | 476 | M20 | M20 | M24 | 1" | 12 | 16 | 16 | 12 | 175 | 4 | 17 | 140 |
| 400 | 681 | 305,5 | 375,5 | 60 | 44,5 | 14x 9x 45 | 483 | 590 | 102 | 138 | 367 | 495 | 515 | 525 | 540 | M20 | M24 | M27 | 1" | 16 | 16 | 16 | 16 | 175 | 4 | 17 | 140 |
| 450 | 749 | 349 | 400 | 60 | 44,5 | | 540 | 644 | 114 | 157 | 417 | 550 | 565 | 585 | 578 | M20 | M24 | M27 | 1 1/8" 8-UN | 16 | 20 | 20 | 16 | 175 | 4 | 17 | 140 |
| 500 | 798 | 373 | 425 | 60 | 44,5 | | 580 | 715 | 127 | 179 | 468 | 600 | 620 | 650 | 635 | M20 | M24 | M30 | 1 1/8" 8-UN | 20 | 20 | 20 | 20 | 175 | 4 | 17 | 140 |
| 600 | 936 | 445 | 491 | 90 | 63 | 18x 11x 80 | 710 | 830 | 153 | 218 | 572 | 705 | 725 | 770 | 749,3 | M24 | M27 | M33 | 1 1/4" 8-UN | 20 | 20 | 20 | 20 | 210 | 4 | 22 | 165 |
| 700 | 1120 | 540 | 580 | 90 | 75 | n°2 22x 14x 80 | 792 | 910 | 165 | 261 | 666 | 810 | 840 | 840 | 863,6 | M24 | M27 | M33 | 1 1/4" 8-UN | 24 | 24 | 24 | 28 | 300 | 8 | 18 | 254 |
| 750 | 1195 | 585 | 610 | 90 | 75 | | 860 | 970 | 190 | 279 | 719 | - | - | - | 914,4 | - | - | - | 1 1/4" 8-UN | - | - | - | 28 | 300 | 8 | 17 | 254 |
| 800 | 1242 | 612 | 630 | 90 | 75 | | 925 | 1040 | 190 | 304 | 774 | 920 | 950 | 950 | 977,9 | M27 | M30 | M36 | 1 1/2" 8-UN | 24 | 24 | 24 | 28 | 360 | 8 | 18 | 254 |
| 900 | 1350 | 660 | 690 | 120 | 95 | n°2 25x 14x 110 | 1008 | 1150 | 203 | 339 | 858 | 1020 | 1050 | 1050 | 1085,9 | M27 | M30 | M36 | 1 1/2" 8-UN | 24 | 28 | 28 | 32 | 360 | 8 | 21 | 298 |
| 1000 | 1500 | 740 | 760 | 120 | 95 | | 1135 | 1260 | 216 | 383 | 957 | 1120 | 1160 | 1170 | 1200,2 | M27 | M33 | M39 | 1 1/2" 8-UN | 28 | 28 | 28 | 36 | 415 | 8 | 21 | 298 |

** Complying with I.S. EN 558-1 Standards.
 "L" is the measurement of the disc chord, which determines its full opening.
 *** For flanges ANSI 150 lbs thread is according to ANSI B1.1 type UNC / 8-UN.
 *** On request, for ANSI 150 lbs metric threading UNI EN 1092-1.
 **** For butterfly valves wafer type from DN700 to DN1000, the body has only four holes threaded for each side.

Weights (Kg)

| DN | mm | 350 | 400 | 450 | 500 | 600 | 700 | 750 | 800 | 900 | 1000 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | inc | 14 | 16 | 18 | 20 | 24 | 30 | 30 | 32 | 36 | 40 |
| Weight | Wafer | 50 | 70 | 90 | 110 | 210 | 250 | 315 | 365 | 440 | 575 |
| | Lug | 60 | 90 | 110 | 150 | 270 | 350 | 415 | 465 | 530 | 672 |

Torque values (Nm)

| DN | mm | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 750 | 800 | 900 | 1000 |
|---------------------|-----|-------|----|-------|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-------|-------|-------|
| | inc | 1 1/2 | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 28 | 30 | 32 | 36 | 40 |
| Δp 0 bar | | 11 | 12 | 28 | 35 | 38 | 64 | 70 | 85 | 180 | 325 | 400 | 515 | 840 | 1150 | 2130 | / | / | / | / | / |
| Δp 3 bar | | 12 | 13 | 29 | 42 | 45 | 78 | 80 | 110 | 190 | 400 | 460 | 680 | 925 | 1355 | 2300 | / | / | / | / | / |
| Δp 7,5 bar | | 13 | 14 | 30 | 48 | 51 | 82 | 84 | 125 | 260 | 472 | 600 | 775 | 1100 | 1490 | 2685 | 2880 | 3430 | 4100 | 6240 | 8000 |
| Δp 11,5 bar | | 14 | 18 | 34 | 50 | 54 | 94 | 100 | 140 | 300 | 570 | 750 | 920 | 1320 | 1690 | 3200 | 4800 | 5720 | 6940 | 10400 | 14540 |
| Δp 17,5 bar | | 17 | 23 | 38 | 59 | 60 | 108 | 119 | 200 | 370 | 715 | 900 | 1114 | 1545 | 1815 | 5420 | 6300 | 7600 | 9100 | 13600 | 18980 |
| Δp 21,5 bar | | 18 | 25 | 46 | 67 | 69 | 138 | 145 | 275 | 450 | 820 | 1035 | 1340 | 1710 | 2210 | 5790 | 7680 | 9150 | 11110 | 16000 | 23260 |

NOTE:

The table above gives the recommended maximum torque values to be applied to the SIRCA butterfly valves. They represent the sum of the amounts of the mechanical friction caused by opening and closing the valve in relation on the various pressure drops. These torque do not include the safety value, besides these values apply to any type of application.

VALVE SIZING

Nominal valve diameter is determined by calculating the CV* coefficient on the basis of actual fluid operating conditions. Determine the valve size in the table below so that the CV* calculated by the formula is about 80% of the CV in the table.

CV values

| ANGLE | VALVE SIZE | | | | | | | | | | | | | | | | | | | |
|-------|------------|-------|-----|-------|-----|-----|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|
| | mm | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 |
| DN | inc | 1 1/2 | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 28 | 32 | 36 | 40 |
| 10° | | / | / | 1,5 | 2,3 | 6,7 | 10,3 | 21 | 38 | 53 | 78 | 103 | 133 | 185 | 230 | 307 | 485 | 595 | 725 | 1020 |
| 15° | | 0,2 | 0,6 | 3,2 | 5,2 | 15 | 23 | 48 | 86 | 118 | 173 | 228 | 295 | 410 | 512 | 683 | 980 | 1140 | 1540 | 1980 |
| 20° | | 0,9 | 2,5 | 7 | 12 | 22 | 36 | 74 | 132 | 182 | 266 | 350 | 455 | 630 | 787 | 1050 | 1590 | 2140 | 2560 | 2980 |
| 25° | | 3 | 6 | 10 | 15 | 28 | 60 | 98 | 170 | 260 | 380 | 500 | 650 | 840 | 1125 | 1720 | 2260 | 2940 | 3450 | 3910 |
| 30° | | 5 | 9 | 15 | 22 | 42 | 88 | 145 | 250 | 390 | 550 | 750 | 900 | 1250 | 1850 | 2420 | 3200 | 3850 | 4800 | 5580 |
| 40° | | 11 | 17 | 26 | 38 | 73 | 155 | 250 | 420 | 670 | 1000 | 1300 | 1700 | 2300 | 2800 | 3800 | 4550 | 5350 | 6850 | 9300 |
| 50° | | 18 | 27 | 42 | 63 | 120 | 250 | 410 | 700 | 1150 | 1600 | 2200 | 2650 | 3700 | 4600 | 6100 | 8150 | 9700 | 12300 | 16800 |
| 60° | | 26 | 53 | 83 | 125 | 235 | 490 | 800 | 1300 | 2150 | 3100 | 4100 | 5100 | 7100 | 8700 | 11750 | 13080 | 19300 | 24550 | 33500 |
| 70° | | 45 | 70 | 105 | 160 | 305 | 625 | 1030 | 1750 | 2750 | 4050 | 5100 | 6500 | 9200 | 11500 | 16500 | 26050 | 38500 | 49050 | 66900 |
| 75° | | 55 | 900 | 130 | 205 | 400 | 830 | 1350 | 2200 | 3600 | 5000 | 6700 | 9000 | 12000 | 15000 | 20500 | 29600 | 43700 | 55750 | 76100 |
| 80° | | 70 | 105 | 160 | 240 | 475 | 1000 | 1650 | 2725 | 4300 | 6050 | 8100 | 10800 | 14000 | 17500 | 24000 | 34800 | 51400 | 65600 | 89500 |
| 90° | | 80 | 130 | 200 | 300 | 550 | 1125 | 1950 | 3250 | 5000 | 7500 | 1000 | 12500 | 17500 | 22000 | 28000 | 46400 | 68500 | 87500 | 119000 |

CV* (pure number) gives the flow rate of water in U.S. gallons per minute passing through the valve, creating a pressure drop of 1 psi at a temperature of + 68° F (American units). In metric units this coefficient is defined as the KV which likewise represents the flow rate in m³/h passing through the valve with a pressure drop of 1 bar at a temperature of 20° C. The relation between CV and KV expressed in the above units is as follows: CV= 1.16 KV.



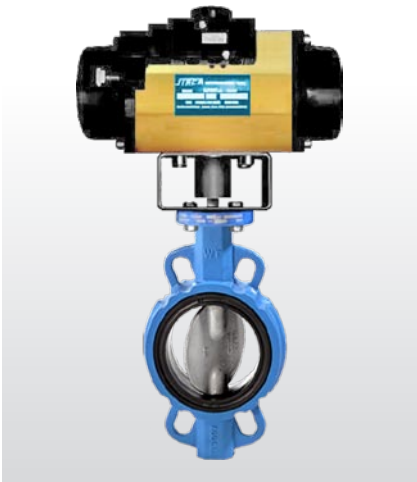
Butterfly valve
with pneumatic actuator AP model
double acting or spring return type.



Butterfly valve
with 10 position leverlock.



Butterfly valve
with reduction gear and handwheel.



Butterfly valve
with pneumatic actuator AP model
and solenoid valve namur IP65.



Butterfly valve
with pneumatic actuator AP model
and solenoid valve EX-proof style.



Butterfly valve
with pneumatic actuator
and MBX series limit switch box IP65.



Butterfly valve
with pneumatic actuator AP model
and electropneumatic actuator 4÷20mA.



Butterfly valve
with pneumatic actuator AP model
featuring emergency control.



Butterfly valve
with 230V-50Hz one phase or 400V-50Hz
three phases IP67 electric actuator.



Via Trieste n° 8 - 20060 TREZZANO ROSA (MI - ITALY) - Phone ++39 02 92010204
Fax ++39 02 92010216 Purchase Dept. - Fax ++39 02 92011954 Sales Dept.
E-mail: info@sircainternational.com - web site: www.sircainternational.com