

BRAZILIAN  
INDUSTRY



# PRODUCT CATALOG

INDUSTRIAL VALVES

[WWW.INTERVALVULAS.COM.BR](http://WWW.INTERVALVULAS.COM.BR)





## EXCELLENCE IN INDUSTRIAL VALVES WITH GLOBAL REACH

Located in Ribeirão Preto – SP, one of the largest industrial hubs in the interior of São Paulo state, we are a company specialized in the manufacturing and maintenance of industrial valves, serving various sectors with excellence: sugar, ethanol, chemical, petrochemical, pulp and paper, sanitation, steel, mining, pharmaceutical, and food industries.

With our own infrastructure and a highly qualified team, we combine technical expertise with partnerships with certified suppliers, ensuring the correct and safe specification of valves for each application.

Our engineering department is focused on the development of special projects, offering customized solutions according to the specific demands of each client.

We are a 100% Brazilian company, positioned among the largest valve manufacturers in the country. We operate strongly in the national market and also export to several countries, consolidating a solid and growing international presence.

We stand out for our commitment to continuous improvement and the highest quality, in addition to offering complete technical support to ensure the proper functioning of the supplied products. For our clients' peace of mind, we provide 24-hour technical assistance.



### **Mission:**

To provide technological and innovative solutions for flow control, ensuring excellence in the quality and reliability of the products and services offered, contributing to the progress and sustainable development of our clients, suppliers, and employees.



### **Vision:**

To be recognized as a leading Brazilian manufacturer of valves for industrial purposes, serving both national and international industries.



### **Values:**

Quality and excellence in products and services. Ethics, transparency, honesty, and professionalism. Commitment and fulfillment of assumed obligations. Respect for the values of clients, suppliers, and employees. Sustainability in economic, social, and environmental development.

## CERTIFICATIONS

Company certified under the NBR ISO 9001:2015 standard, with a quality system recognized internationally. This further ensures the quality of our products and the complete satisfaction of our customers.

We monitor product quality from receipt to final release, ensuring a high standard of quality and full product traceability.



ISO 9001:2015



CRC PETROBRÁS



LOCAL CONTENT  
CERTIFICATE



TYPE APROVAL



FIRE SAFE  
ISO 10497

## MARKETS SERVED

- Sugar and Ethanol
- Chemical Industry
- Naval and Offshore
- Petrochemical
- Pulp and Paper
- Sanitation
- Steel Industry
- Mining
- Pharmaceutical Industry
- Food Industry



# CONCENTRIC BUTTERFLY VALVES

## CLASSES 150/300



Wafer



Lug

| SERIES      | MODEL                                | CLASS     | CONNECTION | DIAMETERS |
|-------------|--------------------------------------|-----------|------------|-----------|
| S105 / S100 | One-Piece Concentric Butterfly Valve | 150 e 300 | Wafer      | 2" a 60"  |
|             |                                      |           | Lug        | 2" a 60"  |
| S155        | Two-Piece Concentric Butterfly Valve | 150       | Wafer      | 2" a 60"  |
|             |                                      |           | Lug        | 2" a 60"  |

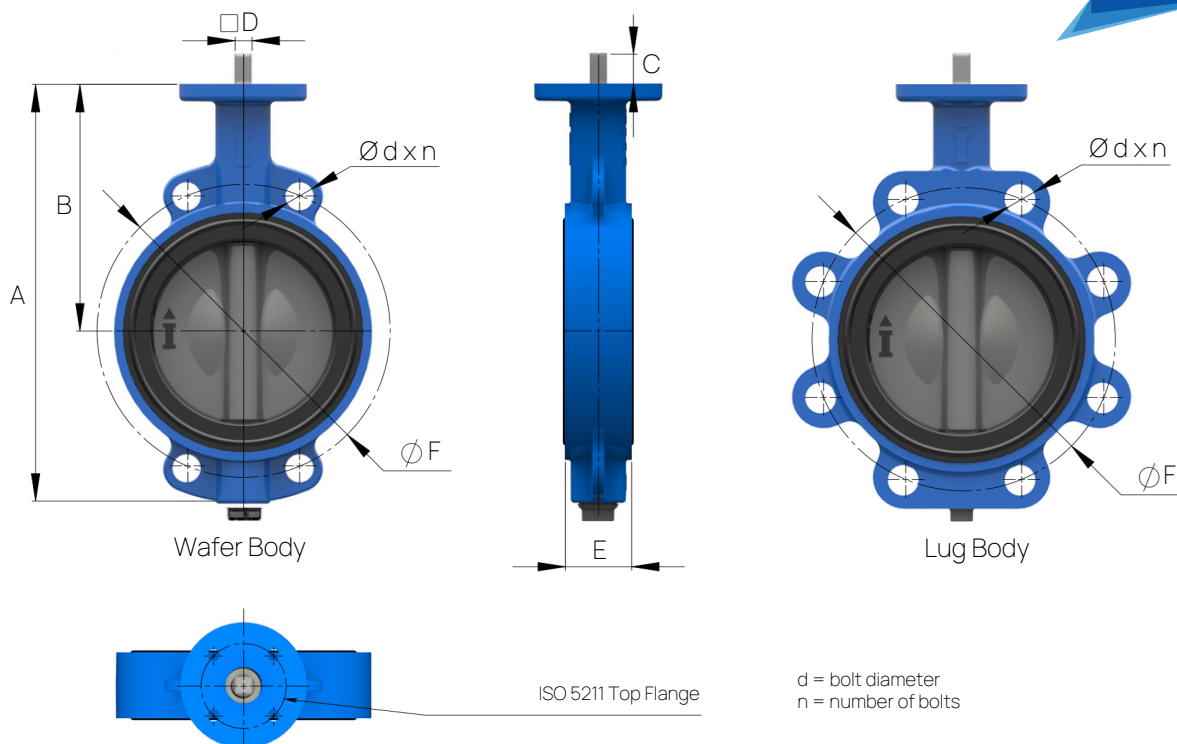
|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| Construction Standard   | API 609                                                                        |
| Face-to-Face Dimension  | API 609 Category A                                                             |
| Connection Standards    | ASME, ISO, DIN, and JIS                                                        |
| Testing Standards       | API 598                                                                        |
| Body and Disc Materials | Ductile Iron, WCB, CF8, CF8M, Aluminum Bronze, and Special Alloys upon request |
| Sealing Materials       | EPDM, Buna, Viton, Silicone, Brastec, SBR, Hypalon, PTFE                       |



Wafer-Type Two-Piece  
with PTFE Seat

## Dimensional Table

Concentric Butterfly Valves – Classes 150/300



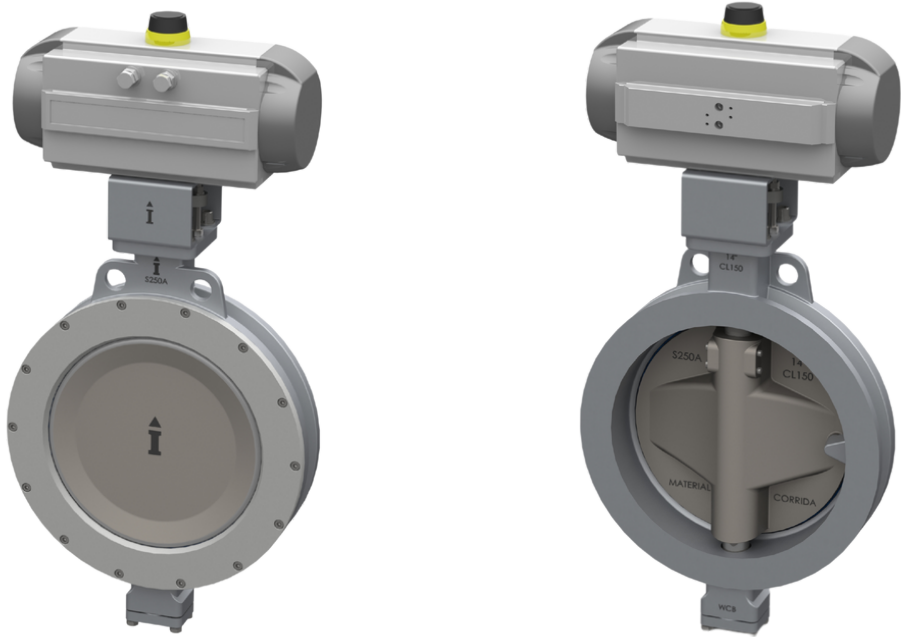
| DIAMETER |      | DIMENSIONS (mm) |             |              |         |             |                 |                           |                       |
|----------|------|-----------------|-------------|--------------|---------|-------------|-----------------|---------------------------|-----------------------|
| POL.     | mm   | CL 150 / CL 300 |             |              |         |             |                 |                           |                       |
|          |      | A               | B           | C            | □ D     | E           | ØF *            | Ød x n *                  | TOP FLANGE (ISO 5211) |
| 2        | 50   | 213 / 250       | 140 / 169   | 22 / 22      | 11 / 11 | 41,5 / 41,5 | 120,6 / 127     | 5/8" x 4 / 5/8" x 8       | F07                   |
| 2.1/2    | 62,5 | 229,3 / 300     | 151,8 / 205 | 15 / 22      | 11 / 11 | 44,5 / 46   | 139,7 / 149,4   | 5/8" x 4 / 3/4" x 8       | F07                   |
| 3        | 75   | 247 / 325       | 161 / 225   | 13 / 21      | 11 / 11 | 44,5 / 46   | 152,4 / 168,1   | 5/8" x 4 / 5/8" x 8       | F07                   |
| 4        | 100  | 294 / 345       | 179 / 228   | 21 / 21      | 11 / 14 | 50,5 / 52   | 190,5 / 200,2   | 5/8" x 8 / 3/4" x 8       | F07                   |
| 5        | 125  | 314 / 397       | 191 / 260   | 27 / 34      | 14 / 14 | 54,5 / 54,5 | 215,9 / 235     | 3/4" x 8 / 3/4" x 8       | F07                   |
| 6        | 150  | 343 / 432       | 275 / 277   | 34 / -       | 14 / -  | 56 / 56     | 241,3 / 269,7   | 3/4" x 8 / 3/4" x 12      | F10/F12               |
| 8        | 200  | 415 / 530       | 242,5 / 344 | 31,2 / 34,50 | 17 / 22 | 63 / 64     | 298,4 / 330,2   | 3/4" x 8 / 7/8" x 12      | F10/F12               |
| 10       | 250  | 485 / 601       | 275 / 365   | 34 / 32      | 22 / 27 | 65 / 85     | 362 / 387,4     | 7/8" x 12 / 1" x 16       | F10/F12               |
| 12       | 300  | 565 / 644       | 311 / 392   | 35 / 34      | 22 / 27 | 76 / 92     | 431,8 / 450,8   | 7/8" x 12 / 1 1/8" x 16   | F10/F12               |
| 14       | 350  | 587 / 695       | 316 / 416   | 40 / 34      | 27 / 27 | 76 / 92     | 476,2 / 514,4   | 1" x 12 / 1 1/8" x 20     | F10/F12               |
| 16       | 400  | 640 / 754       | 340 / 438   | 40 / 30      | 27 / 27 | 102 / 102   | 539,8 / 571,5   | 1" x 16 / 1 1/4" x 20     | F12/F14/F16           |
| 18       | 450  | 719 / 852       | 370,5 / 506 | 38 / 45,5    | 36 / 36 | 111 / 140   | 577,8 / 628,6   | 1 1/8" x 16 / 1 1/4" x 24 | F12/F14/F16           |
| 20       | 500  | 792 / 890       | 410 / 531   | 38 / 50      | 36 / 36 | 127 / 159   | 635 / 685,8     | 1 1/8" x 20 / 1 1/4" x 24 | F12/F14/F16           |
| 24       | 600  | 952 / 1051      | 494,5 / 611 | 48 / 55      | 46 / 46 | 151 / 180   | 749,3 / 812,8   | 1 1/4" x 20 / 1 1/2" x 24 | F12/F14/F16           |
| 26       | 650  | 1064,2          | 597,7       | 59           | 46      | 140         | 806,4 / 876,3   | 1 1/4" x 24 / 1 5/8" x 28 | -                     |
| 28       | 700  | 1180,5          | 657         | 56,8         | 46      | 174,3       | 863,6 / 939,8   | 1 1/4" x 28 / 1 5/8" x 28 | -                     |
| 30       | 750  | 1203,5          | 670         | 60           | 55      | 165         | 914,4 / 997     | 1 1/4" x 28 / 1 3/4" x 28 | -                     |
| 32       | 800  | 1276,5          | 705         | 60           | 55      | 176         | 977,9 / 1054,1  | 1 1/2" x 28 / 1 7/8" x 28 | -                     |
| 34       | 850  | 1334,2          | 733,8       | 50           | 55      | 176         | 1028,7 / 1104,9 | 1 1/2" x 32 / 1 7/8" x 28 | -                     |
| 36       | 900  | 1395,3          | 770         | 81,2         | 75      | 200         | 1085,8 / 1168,4 | 1 1/2" x 32 / 2" x 32     | -                     |
| 40       | 1000 | 1551,5          | 860         | 78           | 75      | 230         | 1200,2 / 1155,7 | 1 1/2" x 36 / 1 5/8" x 32 | -                     |
| 42       | 1050 | 1668,7          | 870         | 78,7         | 75      | 251         | 1257,3 / 1206,5 | 1 1/2" x 36 / 1 5/8" x 32 | -                     |
| 44       | 1100 | 1690,9          | 942         | 80           | 75      | 251         | 1314,4 / 1263,6 | 1 1/2" x 40 / 1 3/4" x 32 | -                     |
| 46       | 1150 | 1829            | 966         | 81,7         | 75      | 257,2       | 1365,2 / 1320,8 | 1 1/2" x 40 / 1 7/8" x 28 | -                     |
| 48       | 1200 | 1783,4          | 972         | 77,7         | 75      | 276         | 1422,4 / 1371,6 | 1 1/2" x 44 / 1 7/8" x 32 | -                     |
| 50       | 1250 | 1887,6          | 1020        | 87,7         | 75      | 260         | 1479,6 / 1428,8 | 1 3/4" x 44 / 2" x 32     | -                     |
| 54       | 1350 | 1926,9          | 1048        | -            | -       | 387,5       | 1593,8 / 1549,4 | 1 3/4" x 44 / 2 1/4" x 28 | -                     |
| 60       | 1500 | 2202            | 1200        | -            | -       | 390         | 1759 / 1701,8   | 1 3/4" x 52 / 2 1/4" x 32 | -                     |

Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

\*Dimensions in accordance with ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

# HIGH-PERFORMANCE DOUBLE-OFFSET BUTTERFLY VALVES

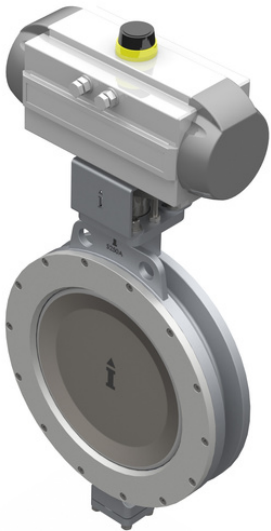
## CLASSES 150/300



S250 14" with AirTorque Pneumatic Actuator

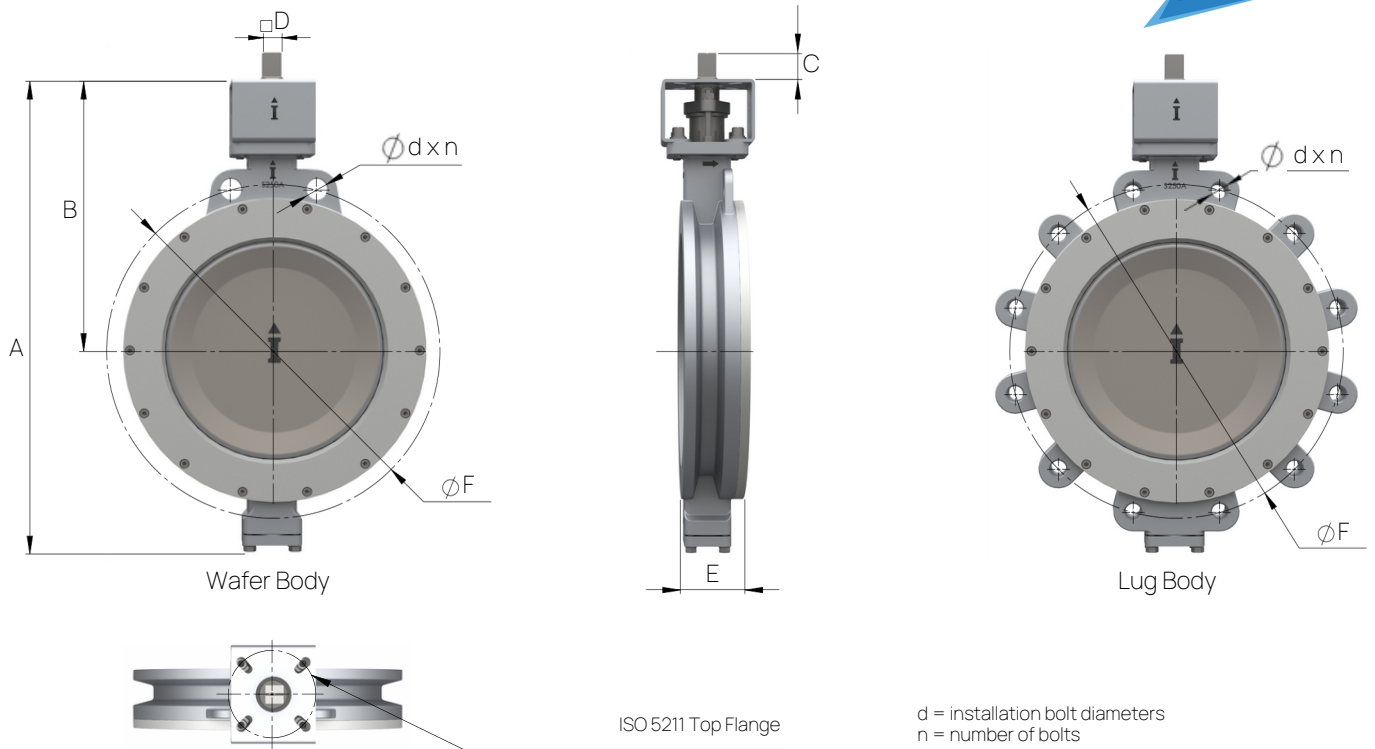
| SERIES | MODEL                                                  | CLASS | CONNECTION | DIAMETERS |
|--------|--------------------------------------------------------|-------|------------|-----------|
| S250   | Double-Offset Butterfly Valve with Resilient Seal      | 150   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        |                                                        | 300   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        | Double-Offset Butterfly Valve with Metal-to-Metal Seal | 150   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        |                                                        | 300   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        | Double-Offset Butterfly Valve with Resilient Seal      | PN3   | Wafer      | 30" a 60" |
|        |                                                        |       | BW         | 30" a 60" |

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Construction Standard   | API 609                                                                    |
| Face-to-Face Dimension  | API 609 Cat. B                                                             |
| Connection Standards    | ASME, ISO, DIN, and JIS                                                    |
| Testing Standards       | Locking: API 598<br>Control (Metal-to-Metal)<br>ANSI FCI 70-2              |
| Body and Disc Materials | WCB, CF8, CF8M, Aluminum Bronze, and Special Alloys available upon request |
| Sealing Materials       | RTFE, Metal-to-Metal                                                       |



## Dimensional Table

High-Performance Double-Offset Butterfly Valves – Classes 150/300



| DIAMETER |      | DIMENSIONS (mm) |             |           |         |             |                 |                           |                       |
|----------|------|-----------------|-------------|-----------|---------|-------------|-----------------|---------------------------|-----------------------|
| POL.     | mm   | CL 150 / CL 300 |             |           |         |             |                 |                           |                       |
|          |      | A               | B           | C         | □ D     | E           | ØF *            | Ød x n *                  | TOP FLANGE (ISO 5211) |
| 2        | 50   | 244             | 163         | 17        | 11      | 43,5 / 43,5 | 120,6 / 127     | 5/8" x 4 / 5/8" x 8       | F07                   |
| 2.1/2    | 62,5 | 264,1           | 173         | 20        | 11      | 45 / 45     | 139,7 / 149,4   | 5/8" x 4 / 3/4" x 8       | F07                   |
| 3        | 75   | 285,1 / 311,5   | 203         | 23        | 11      | 50,2 / 50,2 | 152,4 / 168,1   | 5/8" x 4 / 5/8" x 8       | F07                   |
| 4        | 100  | 339             | 219         | 24        | 14      | 57 / 57     | 190,5 / 200,2   | 5/8" x 8 / 3/4" x 8       | F07                   |
| 5        | 125  | 361             | 222,8       | 27,2      | 14      | 56,4 / 56,4 | 215,9 / 235     | 3/4" x 8 / 3/4" x 8       | F07                   |
| 6        | 150  | 414 / 439       | 255 / 276,4 | 27,6      | 17      | 58 / 60     | 241,3 / 269,7   | 3/4" x 8 / 3/4" x 12      | F10/F12               |
| 8        | 200  | 468 / 527,3     | 282 / 309,4 | 24        | 22      | 65 / 73     | 298,4 / 330,2   | 3/4" x 8 / 7/8" x 12      | F10/F12               |
| 10       | 250  | 529 / 596,5     | 313 / 344,4 | 24 / 30,5 | 22 / 27 | 71 / 83     | 362 / 387,4     | 7/8" x 12 / 1" x 16       | F10/F12               |
| 12       | 300  | 619,3 / 680,3   | 331,4 / 395 | 31        | 27      | 83 / 92     | 431,8 / 450,8   | 7/8" x 12 / 1 1/8" x 16   | F10/F12               |
| 14       | 350  | 686 / 798,3     | 397 / 465,7 | 31 / 48,1 | 27 / 46 | 92 / 118    | 476,2 / 514,4   | 1" x 12 / 1 1/8" x 20     | F10/F12               |
| 16       | 400  | 757,5           | 431,7       | 40        | 36      | 102 / 133   | 539,8 / 571,5   | 1" x 16 / 1 1/4" x 20     | F12/F14/F16           |
| 18       | 450  | 802,2 / 954,6   | 460,7 / 502 | 40 / 52   | 36 / 46 | 114,1 / 149 | 577,8 / 628,6   | 1 1/8" x 16 / 1 1/4" x 24 | F12/F14/F16           |
| 20       | 500  | 908             | 522,7       | 51        | 45      | 129,5 / 159 | 635 / 685,8     | 1 1/8" x 20 / 1 1/4" x 24 | -                     |
| 24       | 600  | 1093,2          | 654,1       | 53,4      | 46      | 153 / 181   | 749,3 / 812,8   | 1 1/4" x 20 / 1 1/2" x 24 | -                     |
| 26       | 650  | 1064,2          | 597,7       | 59        | 46      | 140         | 806,4 / 876,3   | 1 1/4" x 24 / 1 5/8" x 28 | -                     |
| 28       | 700  | 1180,5          | 657         | 56,8      | 46      | 174,3       | 863,6 / 939,8   | 1 1/4" x 28 / 1 5/8" x 28 | -                     |
| 30       | 750  | 1203,5          | 670         | 60        | 55      | 165         | 914,4 / 997     | 1 1/4" x 28 / 1 3/4" x 28 | -                     |
| 32       | 800  | 1276,5          | 705         | 60        | 55      | 176         | 977,9 / 1054,1  | 1 1/2" x 28 / 1 7/8" x 28 | -                     |
| 34       | 850  | 1334,2          | 733,8       | 50        | 55      | 176         | 1028,7 / 1104,9 | 1 1/2" x 32 / 1 7/8" x 28 | -                     |
| 36       | 900  | 1395,3          | 770         | 81,2      | 75      | 216         | 1085,8 / 1168,4 | 1 1/2" x 32 / 2" x 32     | -                     |
| 40       | 1000 | 1551,5          | 860         | 78        | 75      | 230         | 1200,2 / 1155,7 | 1 1/2" x 36 / 1 5/8" x 32 | -                     |
| 42       | 1050 | 1668,7          | 870         | 78,7      | 75      | 240,5       | 1257,3 / 1206,5 | 1 1/2" x 36 / 1 5/8" x 32 | -                     |
| 44       | 1100 | 1690,9          | 942         | 80        | 75      | 251         | 1314,4 / 1263,6 | 1 1/2" x 40 / 1 3/4" x 32 | -                     |
| 46       | 1150 | 1829            | 966         | 81,7      | 75      | 257,2       | 1365,2 / 1320,8 | 1 1/2" x 40 / 1 7/8" x 28 | -                     |
| 48       | 1200 | 1783,4          | 972         | 77,7      | 75      | 256         | 1422,4 / 1371,6 | 1 1/2" x 44 / 1 7/8" x 32 | -                     |
| 50       | 1250 | 1887,6          | 1020        | 87,7      | 75      | 260         | 1479,6 / 1428,8 | 1 3/4" x 44 / 2" x 32     | -                     |
| 54       | 1350 | 1926,9          | 1048        | -         | -       | 387,5       | 1593,8 / 1549,4 | 1 3/4" x 44 / 2 1/4" x 28 | -                     |
| 60       | 1500 | 2202            | 1200        | -         | -       | 390         | 1759 / 1701,8   | 1 3/4" x 52 / 2 1/4" x 32 | -                     |

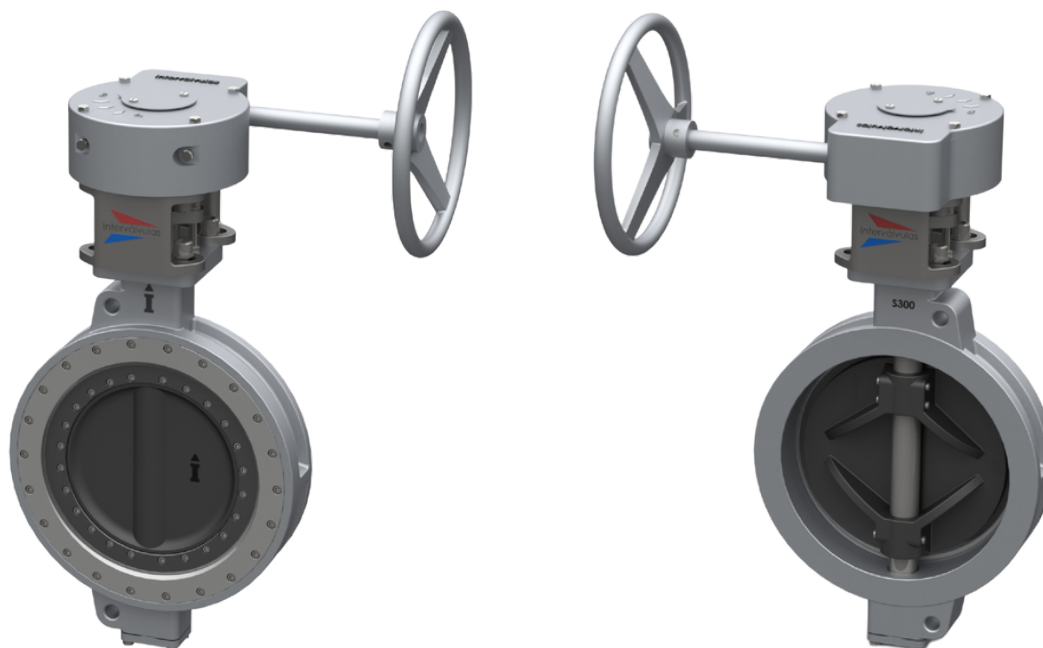
Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

\*Dimensions conform to ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

# TRIPLE-OFFSET BUTTERFLY VALVES

## CLASSES 150/300/600

 **FIRE SAFE**



S300 12" with Gearbox Actuation

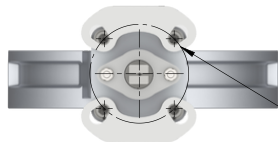
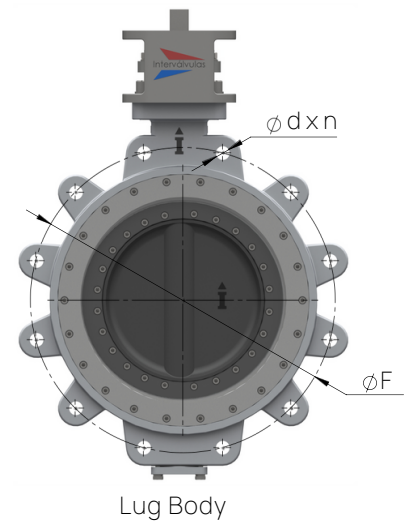
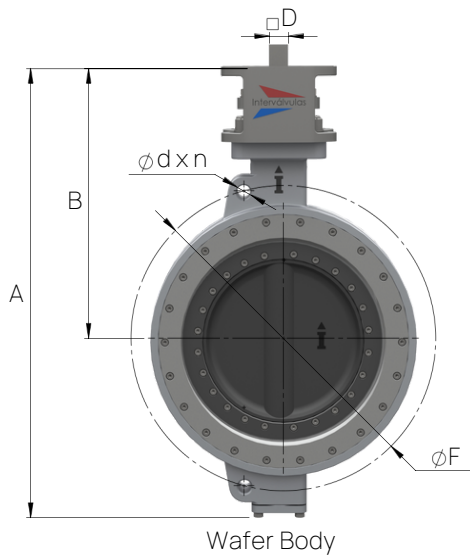
| SERIES | MODEL                                                  | CLASS | CONNECTION | DIAMETERS |
|--------|--------------------------------------------------------|-------|------------|-----------|
| S300   | Triple-Offset Butterfly Valve with Metal-to-Metal Seal | 150   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        |                                                        |       | Flangeada  | 2" a 60"  |
|        |                                                        | 300   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        |                                                        |       | Flangeada  | 2" a 60"  |
|        |                                                        | 600   | Wafer      | 2" a 60"  |
|        |                                                        |       | Lug        | 2" a 60"  |
|        |                                                        |       | Flangeada  | 2" a 60"  |

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Construction Standard   | API 609                                                                         |
| Face-to-Face Dimension  | API 609 Cat. B                                                                  |
| Connection Standards    | ASME, ISO, DIN, and JIS                                                         |
| Testing Standards       | API 598                                                                         |
| Body and Disc Materials | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Sealing Materials       | Metal-to-Metal                                                                  |



## Dimensional Table

High-Performance Triple-Offset Butterfly Valves – Classes 150/300/600



d = installation bolt diameters  
n = number of bolts

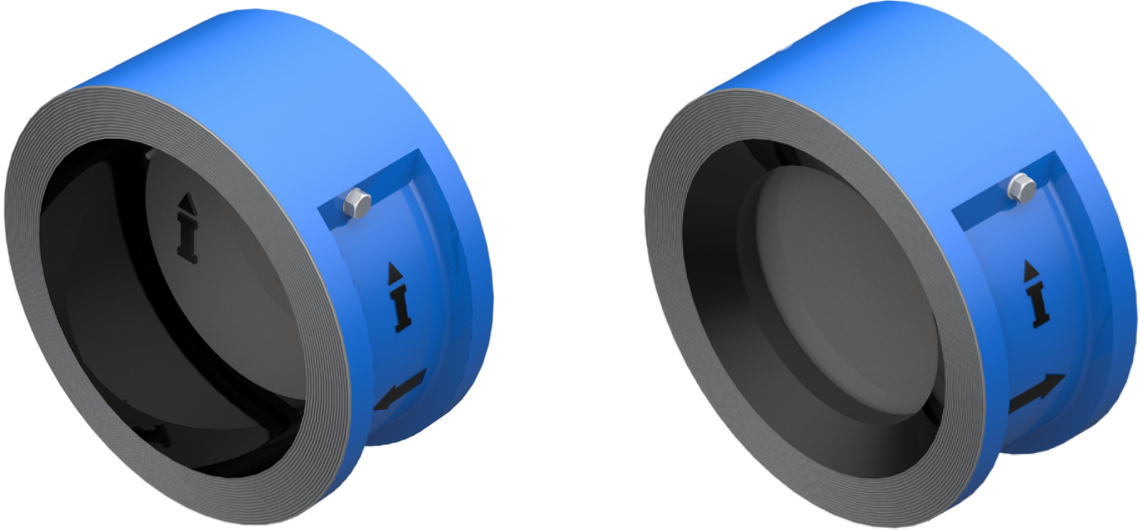
| DIAMETER |      | DIMENSIONS (mm) |             |           |         |             |                 |                           |                       |
|----------|------|-----------------|-------------|-----------|---------|-------------|-----------------|---------------------------|-----------------------|
| POL.     | mm   | CL 150 / CL 300 |             |           |         |             |                 |                           |                       |
|          |      | A               | B           | C         | □ D     | E           | ØF *            | Ød x n *                  | TOP FLANGE (ISO 5211) |
| 2        | 50   | 244             | 163         | 17        | 11      | 43,5 / 43,5 | 120,6 / 127     | 5/8" x 4 / 5/8" x 8       | F07                   |
| 2.1/2    | 62,5 | 264,1           | 173         | 20        | 11      | 45 / 45     | 139,7 / 149,4   | 5/8" x 4 / 3/4" x 8       | F07                   |
| 3        | 75   | 285,1 / 311,5   | 203         | 23        | 11      | 50,2 / 50,2 | 152,4 / 168,1   | 5/8" x 4 / 5/8" x 8       | F07                   |
| 4        | 100  | 339             | 219         | 24        | 14      | 57 / 57     | 190,5 / 200,2   | 5/8" x 8 / 3/4" x 8       | F07                   |
| 5        | 125  | 361             | 222,8       | 27,2      | 14      | 56,4 / 56,4 | 215,9 / 235     | 3/4" x 8 / 3/4" x 8       | F07                   |
| 6        | 150  | 414 / 439       | 255 / 276,4 | 27,6      | 17      | 58 / 60     | 241,3 / 269,7   | 3/4" x 8 / 3/4" x 12      | F10/F12               |
| 8        | 200  | 468 / 527,3     | 282 / 309,4 | 24        | 22      | 65 / 73     | 298,4 / 330,2   | 3/4" x 8 / 7/8" x 12      | F10/F12               |
| 10       | 250  | 529 / 596,5     | 313 / 344,4 | 24 / 30,5 | 22 / 27 | 71 / 83     | 362 / 387,4     | 7/8" x 12 / 1" x 16       | F10/F12               |
| 12       | 300  | 619,3 / 680,3   | 331,4 / 395 | 31        | 27      | 83 / 92     | 431,8 / 450,8   | 7/8" x 12 / 1 1/8" x 16   | F10/F12               |
| 14       | 350  | 686 / 798,3     | 397 / 465,7 | 31 / 48,1 | 27 / 46 | 92 / 118    | 476,2 / 514,4   | 1" x 12 / 1 1/8" x 20     | F10/F12               |
| 16       | 400  | 757,5           | 431,7       | 40        | 36      | 102 / 137   | 539,8 / 571,5   | 1" x 16 / 1 1/4" x 20     | F12/F14/F16           |
| 18       | 450  | 802,2 / 954,6   | 460,7 / 502 | 40 / 52   | 36 / 46 | 114,1 / 149 | 577,8 / 628,6   | 1 1/8" x 16 / 1 1/4" x 24 | F12/F14/F16           |
| 20       | 500  | 908             | 522,7       | 51        | 45      | 129,5 / 159 | 635 / 685,8     | 1 1/8" x 20 / 1 1/4" x 24 | -                     |
| 24       | 600  | 1093,2          | 654,1       | 53,4      | 46      | 153 / 181   | 749,3 / 812,8   | 1 1/4" x 20 / 1 1/2" x 24 | -                     |
| 26       | 650  | 1064,2          | 597,7       | 59        | 46      | 140         | 806,4 / 876,3   | 1 1/4" x 24 / 1 5/8" x 28 | -                     |
| 28       | 700  | 1180,5          | 657         | 56,8      | 46      | 174,3       | 863,6 / 939,8   | 1 1/4" x 28 / 1 5/8" x 28 | -                     |
| 30       | 750  | 1203,5          | 670         | 60        | 55      | 165         | 914,4 / 997     | 1 1/4" x 28 / 1 3/4" x 28 | -                     |
| 32       | 800  | 1276,5          | 705         | 60        | 55      | 176         | 977,9 / 1054,1  | 1 1/2" x 28 / 1 7/8" x 28 | -                     |
| 34       | 850  | 1334,2          | 733,8       | 50        | 55      | 176         | 1028,7 / 1104,9 | 1 1/2" x 32 / 1 7/8" x 28 | -                     |
| 36       | 900  | 1395,3          | 770         | 81,2      | 75      | 216         | 1085,8 / 1168,4 | 1 1/2" x 32 / 2" x 32     | -                     |
| 40       | 1000 | 1551,5          | 860         | 78        | 75      | 230         | 1200,2 / 1155,7 | 1 1/2" x 36 / 1 5/8" x 32 | -                     |
| 42       | 1050 | 1668,7          | 870         | 78,7      | 75      | 240,5       | 1257,3 / 1206,5 | 1 1/2" x 36 / 1 5/8" x 32 | -                     |
| 44       | 1100 | 1690,9          | 942         | 80        | 75      | 251         | 1314,4 / 1263,6 | 1 1/2" x 40 / 1 3/4" x 32 | -                     |
| 46       | 1150 | 1829            | 966         | 81,7      | 75      | 257,2       | 1365,2 / 1320,8 | 1 1/2" x 40 / 1 7/8" x 28 | -                     |
| 48       | 1200 | 1783,4          | 972         | 77,7      | 75      | 256         | 1422,4 / 1371,6 | 1 1/2" x 44 / 1 7/8" x 32 | -                     |
| 50       | 1250 | 1887,6          | 1020        | 87,7      | 75      | 260         | 1479,6 / 1428,8 | 1 3/4" x 44 / 2" x 32     | -                     |
| 54       | 1350 | 1926,9          | 1048        | -         | -       | 387,5       | 1593,8 / 1549,4 | 1 3/4" x 44 / 2 1/4" x 28 | -                     |
| 60       | 1500 | 2202            | 1200        | -         | -       | 390         | 1759 / 1701,8   | 1 3/4" x 52 / 2 1/4" x 32 | -                     |

Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

\*Dimensions conform to ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

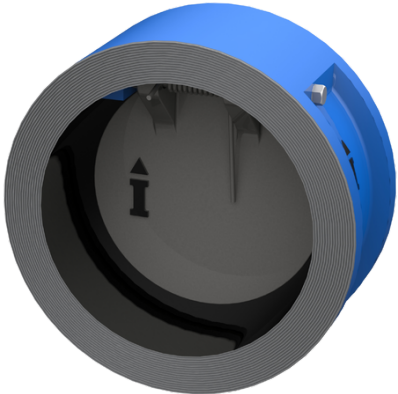
# UNO FLAP CHECK VALVES

## CLASSES 150/300



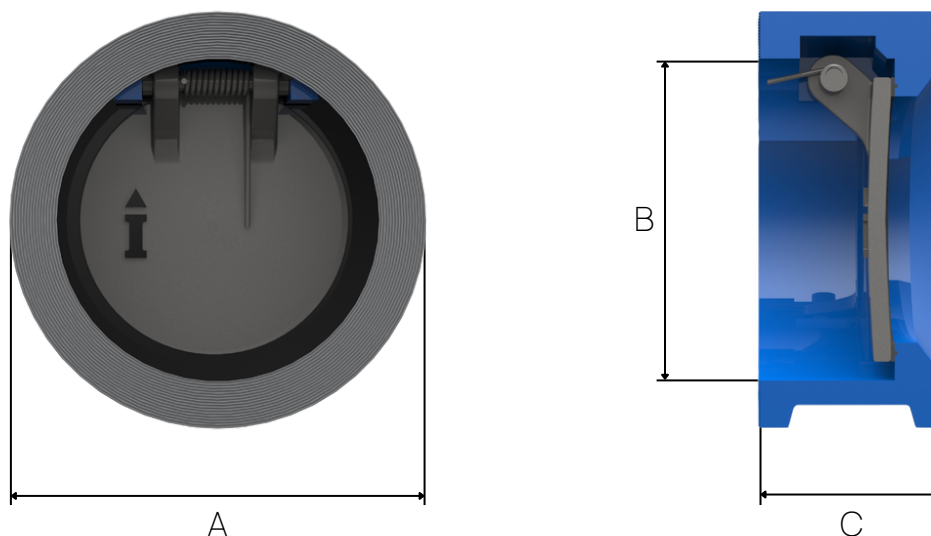
| SERIES | MODEL                   | CLASS | CONNECTION | DIAMETERS |
|--------|-------------------------|-------|------------|-----------|
| S400   | Single Flap Check Valve | 150   | Wafer      | 2" a 60"  |
|        |                         |       | Lug        | 2" a 60"  |
|        |                         | 300   | Wafer      | 2" a 36"  |
|        |                         |       | Lug        | 2" a 36"  |

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Construction Standard   | API 594                                                                         |
| Face-to-Face Dimension  | API 594                                                                         |
| Connection Standards    | ASME, ISO, DIN, and JIS                                                         |
| Testing Standards       | API 598                                                                         |
| Body and Disc Materials | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Sealing Materials       | Vulcanized Resilient, Metal-to-Metal                                            |



## Dimensional Table

Uno Flap Check Valves – Classes 150/300



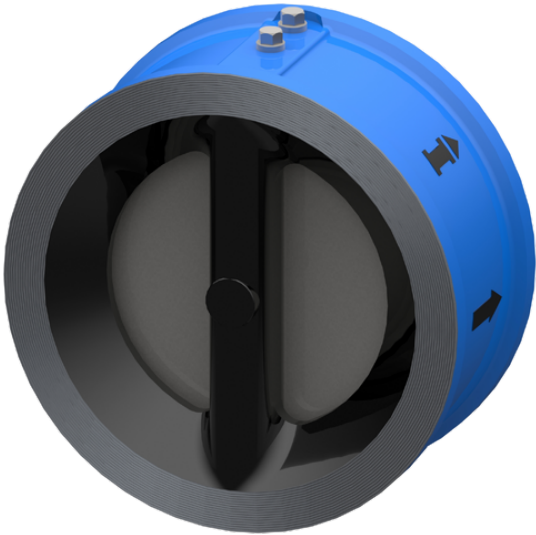
| DIAMETER |      | DIMENSIONS (mm) |      |     |         |     |     |
|----------|------|-----------------|------|-----|---------|-----|-----|
| POL.     | mm   | CL. 150         |      |     | CL. 300 |     |     |
|          |      | A *             | B    | C   | A *     | B   | C   |
| 2        | 50   | 120,6           | 100  | 60  | 127     | 100 | 60  |
| 2.1/2    | 65   | 139,7           | 122  | 67  | 149,4   | 122 | 67  |
| 3        | 75   | 152,4           | 135  | 73  | 168,1   | 135 | 73  |
| 4        | 100  | 190,5           | 173  | 73  | -       | -   | -   |
| 5        | 125  | 215,9           | 194  | 83  | -       | -   | -   |
| 6        | 150  | 241,3           | 220  | 99  | 269,7   | 247 | 98  |
| 8        | 200  | 298,4           | 275  | 127 | 330,2   | 280 | 127 |
| 10       | 250  | 362             | 337  | 146 | -       | -   | -   |
| 12       | 300  | 431,8           | 406  | 181 | -       | -   | -   |
| 14       | 350  | 476,2           | 444  | 184 | -       | -   | -   |
| 16       | 400  | 539,8           | 510  | 191 | 571,5   | 530 | 232 |
| 18       | 450  | 577,8           | 545  | 203 | -       | -   | -   |
| 20       | 500  | 635             | 607  | 219 | 685,8   | 630 | 292 |
| 22       | 550  | -               | -    | -   | -       | -   | -   |
| 24       | 600  | 749,3           | 714  | 222 | -       | -   | -   |
| 26       | 650  | -               | -    | -   | -       | -   | -   |
| 28       | 700  | -               | -    | -   | -       | -   | -   |
| 30       | 750  | 914,4           | 877  | 305 | -       | -   | -   |
| 32       | 800  | 977,9           | 934  | 356 | -       | -   | -   |
| 34       | 850  | -               | -    | -   | -       | -   | -   |
| 36       | 900  | 1085,8          | 1045 | 368 | -       | -   | -   |
| 38       | 950  | -               | -    | -   | -       | -   | -   |
| 40       | 1000 | -               | -    | -   | -       | -   | -   |
| 42       | 1050 | -               | -    | -   | -       | -   | -   |
| 44       | 1100 | -               | -    | -   | -       | -   | -   |
| 46       | 1150 | -               | -    | -   | -       | -   | -   |
| 48       | 1200 | 1422,4          | 1378 | 524 | -       | -   | -   |

Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

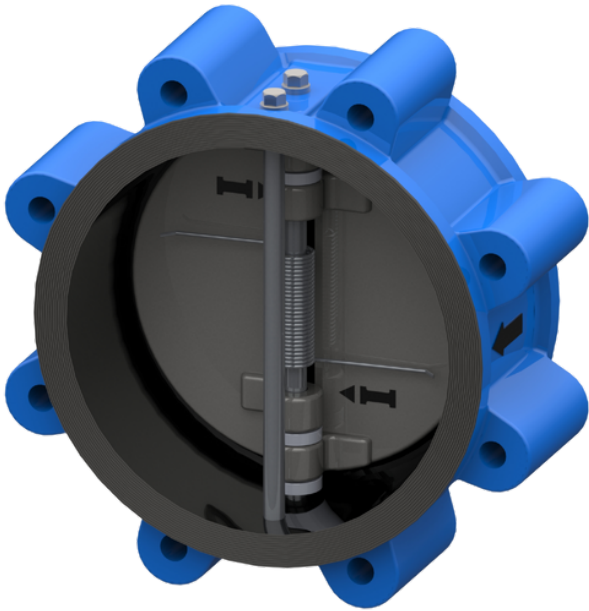
\*Dimensions conform to ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

# DOUBLE GATE CHECK VALVES

## CLASSES 150/300/600



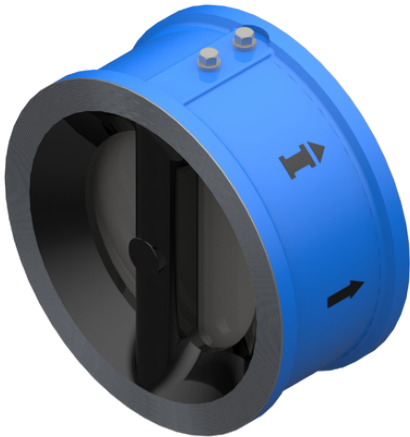
Wafer



Lug

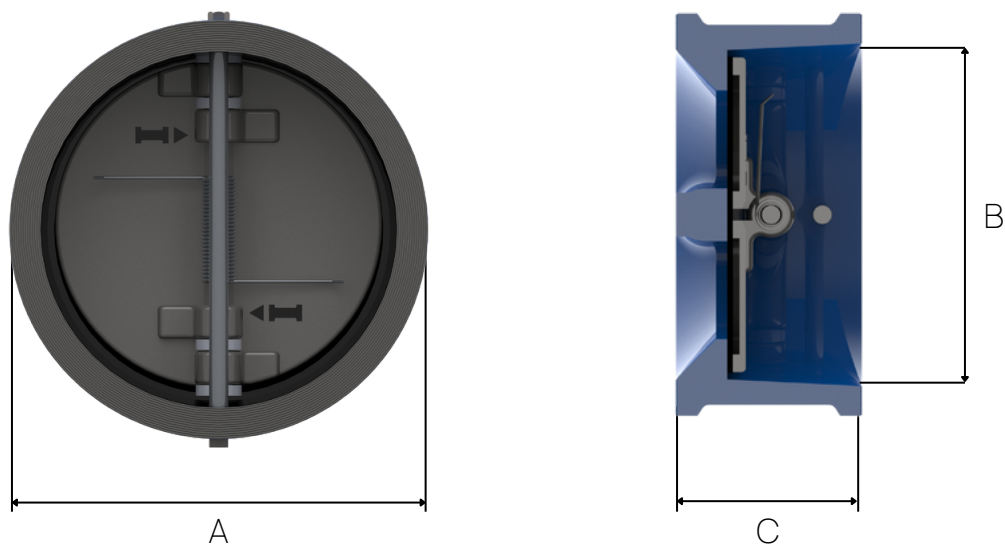
| SERIES | MODEL                   | CLASS | CONNECTION | DIAMETERS |
|--------|-------------------------|-------|------------|-----------|
| S500   | Double Gate Check Valve | 150   | Wafer      | 2" a 60"  |
|        |                         |       | Lug        | 2" a 60"  |
|        |                         | 300   | Wafer      | 2" a 36"  |
|        |                         |       | Lug        | 2" a 36"  |
|        |                         | 600   | Wafer      | 2" a 14"  |
|        |                         |       | Lug        | 2" a 14"  |

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Construction Standard   | API 594                                                                         |
| Face-to-Face Dimension  | API 594                                                                         |
| Connection Standards    | ASME, ISO, DIN, and JIS                                                         |
| Testing Standards       | API 598                                                                         |
| Body and Disc Materials | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Sealing Materials       | Vulcanized Resilient, Metal-to-Metal                                            |



## Dimensional Table

Double Gate Check Valves – Classes 150/300/600



| DIAMETER |      | DIMENSIONS (mm) |       |     |         |     |     |         |       |     |
|----------|------|-----------------|-------|-----|---------|-----|-----|---------|-------|-----|
| POL.     | mm   | CL. 150         |       |     | CL. 300 |     |     | CL. 600 |       |     |
|          |      | A *             | B     | C   | A *     | B   | C   | A *     | B     | C   |
| 2        | 50   | 120,6           | 101   | 60  | 127     | 106 | 60  | 127     | 108   | 60  |
| 2.1/2    | 65   | 139,7           | 120   | 67  | 149,4   | 127 | 67  | 149,4   | -     | -   |
| 3        | 75   | 152,4           | 133   | 73  | 168,1   | 133 | 73  | 168,1   | 147   | 73  |
| 4        | 100  | 190,5           | 171   | 73  | 200,2   | 171 | 73  | 215,9   | 190   | 79  |
| 5        | 125  | 215,9           | 194   | 86  | 235     | 194 | 86  | 266,7   | -     | -   |
| 6        | 150  | 241,3           | 218   | 99  | 269,7   | 218 | 99  | 292,1   | 262   | 136 |
| 8        | 200  | 298,4           | 275   | 127 | 330,2   | 302 | 127 | 349,2   | 316,5 | 165 |
| 10       | 250  | 362             | 335   | 146 | 387,4   | 355 | 146 | 431,8   | 364   | 213 |
| 12       | 300  | 431,8           | 405   | 181 | 450,8   | 418 | 181 | 498     | 435   | 229 |
| 14       | 350  | 476,2           | 438   | 184 | 514,4   | 480 | 222 | 527     | 471   | 273 |
| 16       | 400  | 539,8           | 510   | 190 | 571,5   | 535 | 232 | 603,2   | 559,1 | 305 |
| 18       | 450  | 577,8           | 540   | 203 | 628,6   | 590 | 264 | -       | -     | -   |
| 20       | 500  | 635             | 595   | 219 | 685,8   | 650 | 292 | 723,9   | 730   | 368 |
| 22       | 550  | 692,2           | 650   | 220 | -       | -   | -   | -       | -     | -   |
| 24       | 600  | 749,3           | 714   | 222 | 812,8   | 770 | 318 | 838,2   | -     | -   |
| 26       | 650  | 806,4           | 771   | 222 | -       | -   | -   | -       | -     | -   |
| 28       | 700  | 863,6           | 820   | 305 | -       | -   | -   | -       | -     | -   |
| 30       | 750  | 914,4           | 879   | 305 | -       | -   | -   | -       | -     | -   |
| 32       | 800  | 977,9           | 934   | 356 | -       | -   | -   | -       | -     | -   |
| 34       | 850  | 1028,7          | 983,4 | 356 | -       | -   | -   | -       | -     | -   |
| 36       | 900  | 1085,8          | 1044  | 368 | -       | -   | -   | -       | -     | -   |
| 38       | 950  | 1149,4          | -     | -   | -       | -   | -   | -       | -     | -   |
| 40       | 1000 | 1200,2          | 1158  | 432 | -       | -   | -   | -       | -     | -   |
| 42       | 1050 | 1257,3          | -     | -   | -       | -   | -   | -       | -     | -   |
| 44       | 1100 | 1314,4          | -     | -   | -       | -   | -   | -       | -     | -   |
| 46       | 1150 | 1365,2          | -     | -   | -       | -   | -   | -       | -     | -   |
| 48       | 1200 | 1422,4          | 1370  | 524 | -       | -   | -   | -       | -     | -   |
| 50       | 1250 | 1479,6          | 1432  | 530 | -       | -   | -   | -       | -     | -   |

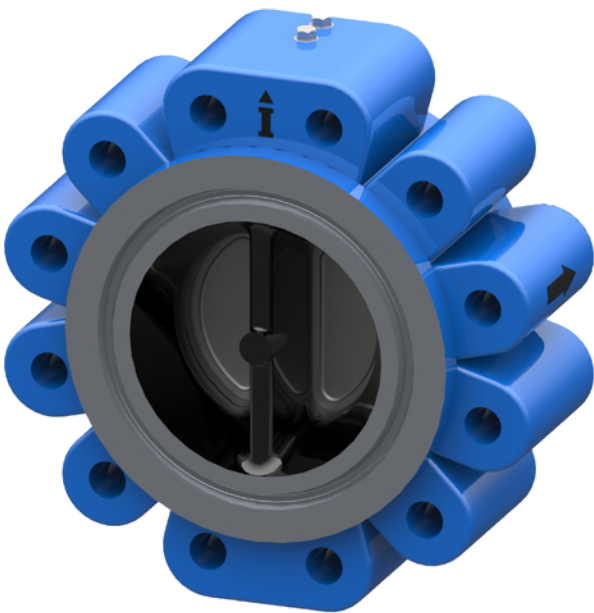
Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

\*Dimensions conform to ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

DOUBLE GATE CHECK VALVES  
FOR HIGH PRESSURE  
CLASSES 900/1500/2500



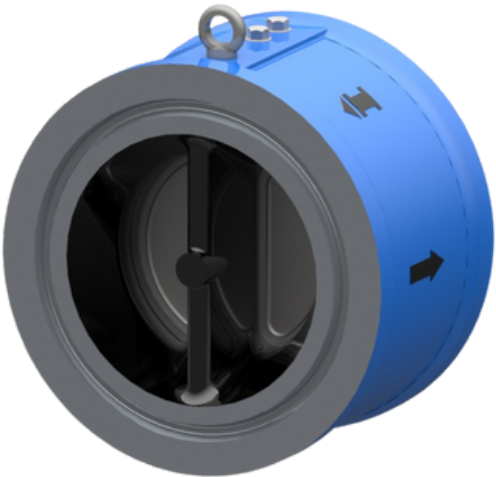
Wafer



Lug

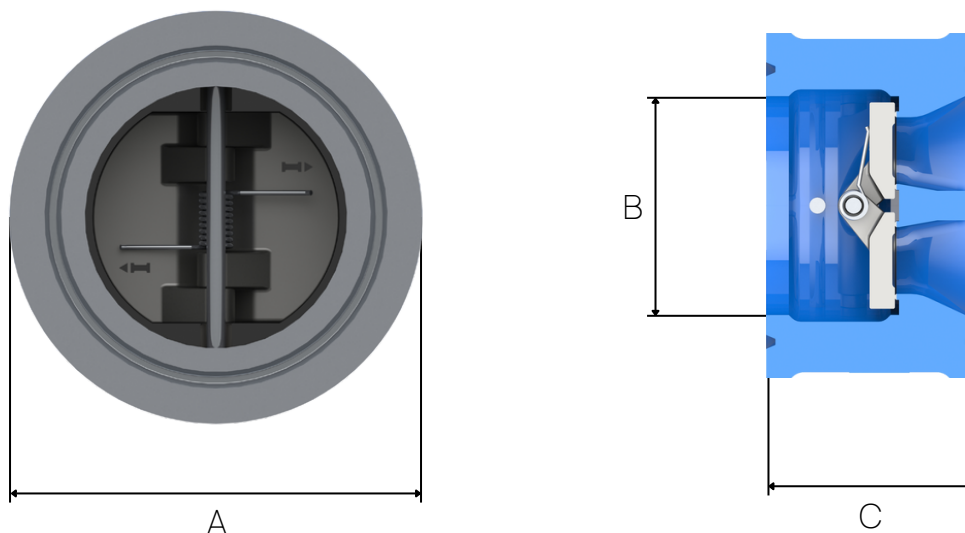
| SERIES | MODEL                   | CLASS       | CONNECTION | DIAMETERS |
|--------|-------------------------|-------------|------------|-----------|
| S500   | Double Gate Check Valve | 900         | Wafer      | 2" a 24"  |
|        |                         |             | Lug        | 2" a 24"  |
|        |                         | 1500 e 2500 | Wafer      | 2" a 14"  |
|        |                         |             | Lug        | 2" a 14"  |

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Construction Standard   | API 594                                                                         |
| Face-to-Face Dimension  | API 594                                                                         |
| Connection Standards    | ASME, ISO, DIN, and JIS                                                         |
| Testing Standards       | API 598                                                                         |
| Body and Disc Materials | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Sealing Materials       | Vulcanized Resilient, Metal-to-Metal                                            |



## Dimensional Table

Double Gate Check Valves – Classes 900/1500/2500



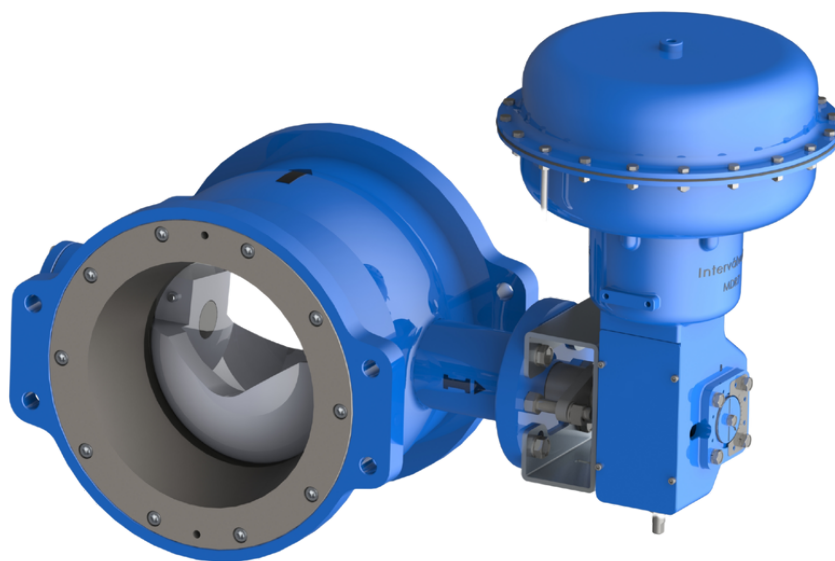
| DIAMETER |     | DIMENSIONS (mm) |     |     |          |     |     |          |     |     |
|----------|-----|-----------------|-----|-----|----------|-----|-----|----------|-----|-----|
| POL.     | mm  | CL. 900         |     |     | CL. 1500 |     |     | CL. 2500 |     |     |
|          |     | A *             | B   | C   | A *      | B   | C   | A *      | B   | C   |
| 2        | 50  | 142             | 78  | 70  | 142      | 60  | 70  | 142      | 60  | 70  |
| 2.1/2    | 65  | -               | -   | -   | 165      | 73  | 83  | 168      | 73  | 83  |
| 3        | 75  | 179             | 105 | 83  | 175      | 89  | 83  | 194,5    | 89  | 86  |
| 4        | 100 | 205             | 118 | 102 | 205      | 114 | 102 | 234      | 114 | 105 |
| 6        | 150 | 278             | 168 | 159 | 278      | 168 | 159 | 310      | 168 | 159 |
| 8        | 200 | -               | 219 | 206 | 347      | 219 | 206 | 387      | 219 | 206 |
| 10       | 250 | -               | 273 | 241 | 410      | 273 | 248 | 450,5    | 273 | 254 |
| 12       | 300 | -               | 324 | 292 | 500      | 324 | 305 | 549      | 324 | 304 |
| 14       | 350 | -               | 356 | 356 | 575      | 356 | 356 | -        | -   | -   |
| 16       | 400 | 566             | 406 | 384 | -        | -   | -   | -        | -   | -   |
| 18       | 450 |                 |     | -   | -        | -   | -   | -        | -   | -   |
| 20       | 500 | 695             | 484 | 451 | -        | -   | -   | -        | -   | -   |
| 22       | 550 | -               | -   | -   | -        | -   | -   | -        | -   | -   |
| 24       | 600 | 835             | 579 | 495 | -        | -   | -   | -        | -   | -   |

Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

\*Dimensions conform to ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

# SEGMENTED V-BALL VALVES

## CLASSES 150/300



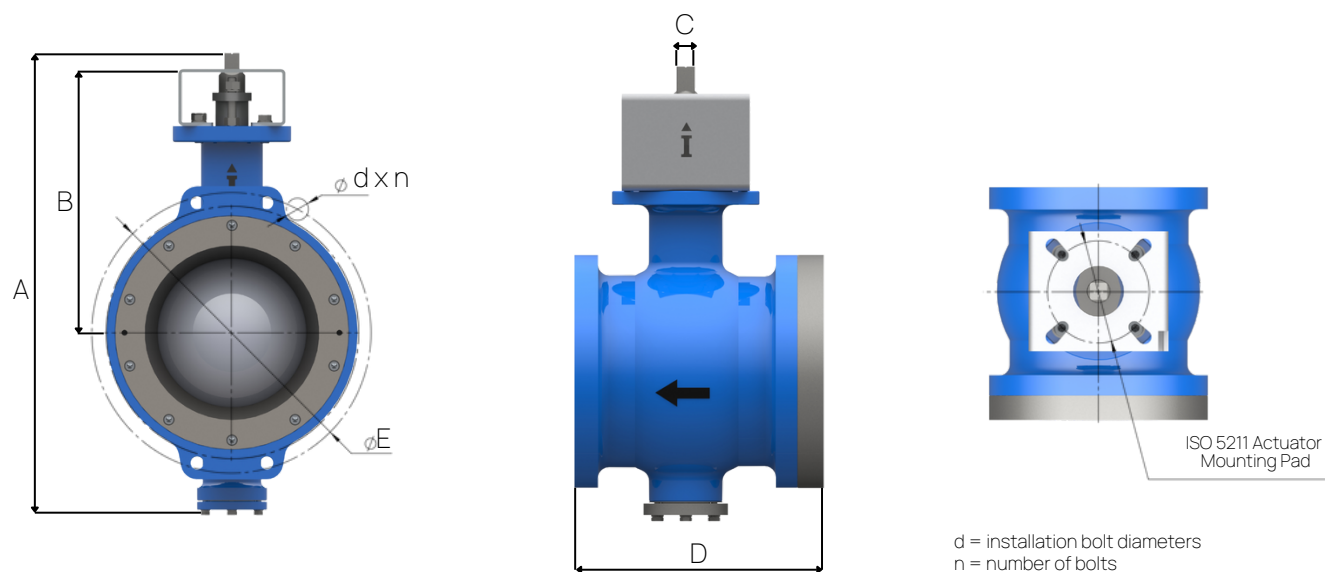
| SERIES | MODEL                | CLASS | CONNECTION | DIAMETERS    |
|--------|----------------------|-------|------------|--------------|
| 600    | Segmented Ball Valve | 150   | Wafer      | 1 1/2" a 16" |

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Construction Standard   | ASME B16.34                                                                     |
| Face-to-Face Dimension  | ISA 75.08.02                                                                    |
| Connection Standards    | ASME B16.5                                                                      |
| Testing Standards       | API 598, ANSI FCI 70-2                                                          |
| Body and Disc Materials | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Sealing Materials       | RTFE                                                                            |



## Dimensional Table

Segmented V-Ball Valves – Classes 150/300



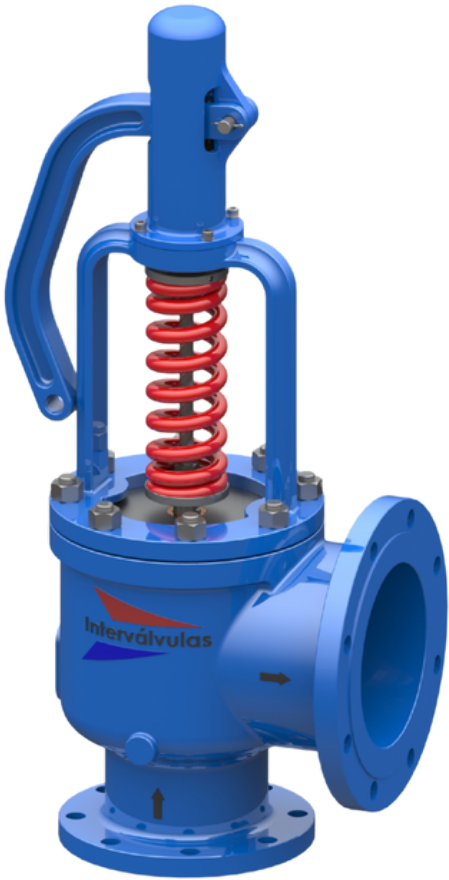
| DIAMETER |     | DIMENSIONS (mm) |     |    |     |          |       |       |     |
|----------|-----|-----------------|-----|----|-----|----------|-------|-------|-----|
| POL.     | mm  | CL 150          |     |    |     |          |       |       |     |
|          |     | A               | B   | C  | D   | ISO 5211 | ØE    | Ø d * | n * |
| 1.1/2    | 40  | 215             | 143 | 11 | 114 | F07      | 98,6  | 1/2"  | 4   |
| 2        | 50  | 226             | 151 | 11 | 124 | F07      | 120,6 | 5/8"  | 4   |
| 3        | 80  | 283             | 175 | 14 | 165 | F07      | 152,4 | 5/8"  | 4   |
| 4        | 100 | 369             | 251 | 14 | 194 | F07/F10  | 190,5 | 5/8"  | 8   |
| 6        | 150 | 393             | 255 | 17 | 229 | F07/F12  | 241,3 | 3/4"  | 8   |
| 8        | 200 | 490             | 297 | 22 | 243 | F07/F12  | 298,4 | 3/4"  | 8   |
| 10       | 250 | 625             | 366 | 22 | 329 | F07/F12  | 362   | 7/8"  | 12  |
| 14       | 350 | 789             | 466 | 27 | 379 | F07/F16  | 476,2 | 01"   | 12  |
| 16       | 400 | 776             | 451 | 36 | 400 | F07/F16  | 539,8 | 01"   | 16  |

Diameters not listed are available upon request. Dimensions are subject to change without prior notice.

\*Dimensions conform to ASME B16.5 and ASME B16.47 standards. Please consult for other connection standards.

# SAFETY AND RELIEF VALVES

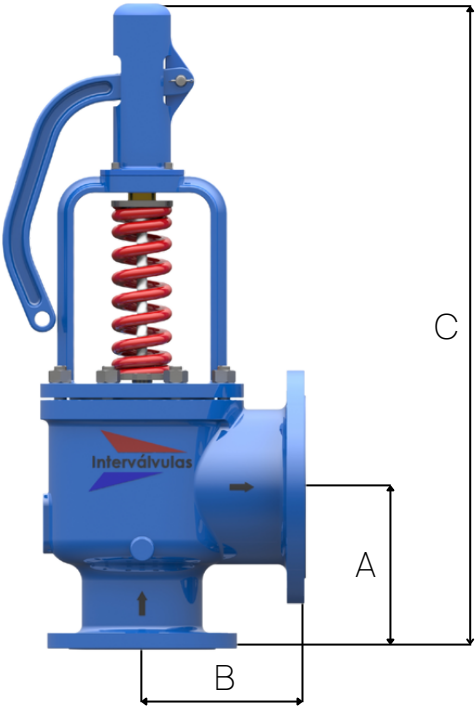
## CLASS 150



|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Series                | S700 / S720                                        |
| Connection            | Flangeada                                          |
| Diameters             | 4x6, 6x8, 8x10, 10x14                              |
| Construction Standard | ASME VIII, Div 1                                   |
| Connection Standard   | ASME B16.5                                         |
| Testing Standard      | API 527                                            |
| Face-to-Face Standard | API 526                                            |
| Orifice Standard      | API 526                                            |
| Body Materials        | WCB, other materials available upon request        |
| Spring Materials      | 5160 Steel, other materials available upon request |

| DIAMETER  | DIMENSIONS (mm) |     |      |
|-----------|-----------------|-----|------|
| POL.      | CL.150          |     |      |
|           | A               | B   | C    |
| 4" x 6"   | 178             | 184 | 836  |
| 6" x 8"   | 240             | 241 | 952  |
| 8" x 10"  | 276             | 279 | 1029 |
| 10" x 14" | 305             | 315 | 1277 |

Diameters not listed are available upon request. Dimensions are subject to change without prior notice.



## 2-WAY GLOBE VALVES CLASSES 150/300/600



|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| Series                  | S1000                                                                           |
| Connection              | Flangeada                                                                       |
| Diameters               | 1/2" a 12"                                                                      |
| Construction Standard   | ASME B16.34                                                                     |
| Connection Standard     | ASME B16.5                                                                      |
| Testing Standard        | FCI 70-2                                                                        |
| Bonnet Types            | Standard and Extended (high temperatures)                                       |
| Trim Types              | Top-Guided, Low Noise, Anti-Cavitation                                          |
| Opening Characteristics | Linear, Modified Parabolic, Equal Percentage                                    |
| Body Materials          | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Trim Materials          | 316, 410, 420, 17-4PH Stainless Steel – Hardened or with Stellite               |
| Class                   | 150, 300, and 600                                                               |
| Face-to-Face Dimension  | ANSI / ISA 75.08.01                                                             |

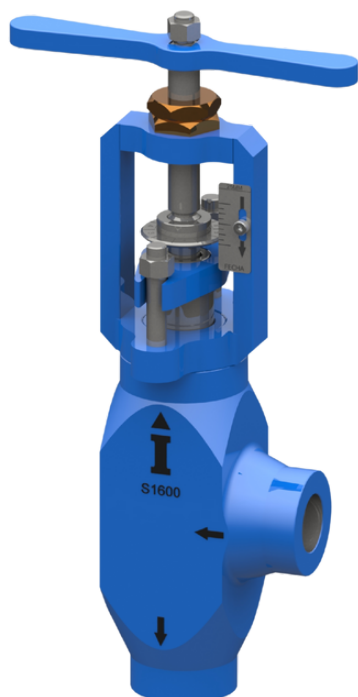
## QUICK-DISCHARGE BOILER BOTTOM VALVES CLASSES 150 TO 2500



|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| Series                 | S1200                                                                           |
| Connection             | ASME B16.34                                                                     |
| Diameters              | 1/2" a 4"                                                                       |
| Construction Standard  | ASME B16.34                                                                     |
| Connection Standard    | ASME B16.5                                                                      |
| Testing Standard       | FCI 70-2                                                                        |
| Body Materials         | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Class                  | 150 to 2500                                                                     |
| Face-to-Face Dimension | ANSI / ISA 75.08.01                                                             |

# CONTINUOUS BLOWDOWN VALVES

## CLASSES 150 TO 2500

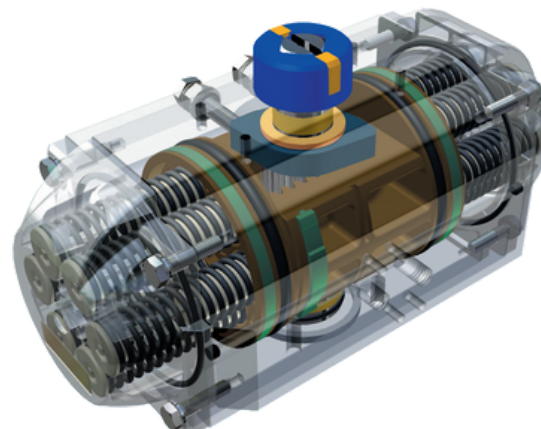


|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| Series                | S1600                                                                           |
| Construction Standard | API 602                                                                         |
| Connection            | Flanged, SW, and BW                                                             |
| Diameters             | 1" a 2"                                                                         |
| Connection Standard   | ASME B16.5 (FR)                                                                 |
| Class                 | 150 to 2500                                                                     |
| Body Materials        | WCB, CF8, CF8M, Duplex, Super Duplex, and special alloys available upon request |
| Internal Materials    | 316, 410, 420, 17-4PH Stainless Steel - Hardened or with Stellite               |
| Testing Standard      | API 598                                                                         |

# PNEUMATIC ACTUATORS

## FROM 4 TO 11,600 NM OF TORQUE

- Standard Series / 90° Rotation
- 17 Sizes
- Double Acting / Spring Return
- Supply Pressure from 2.5 to 8 bar
- Mounting and Coupling Standards: ISO 5211 and DIN 3337
- Accessory Mounting according to NAMUR VDI/VDE Standard

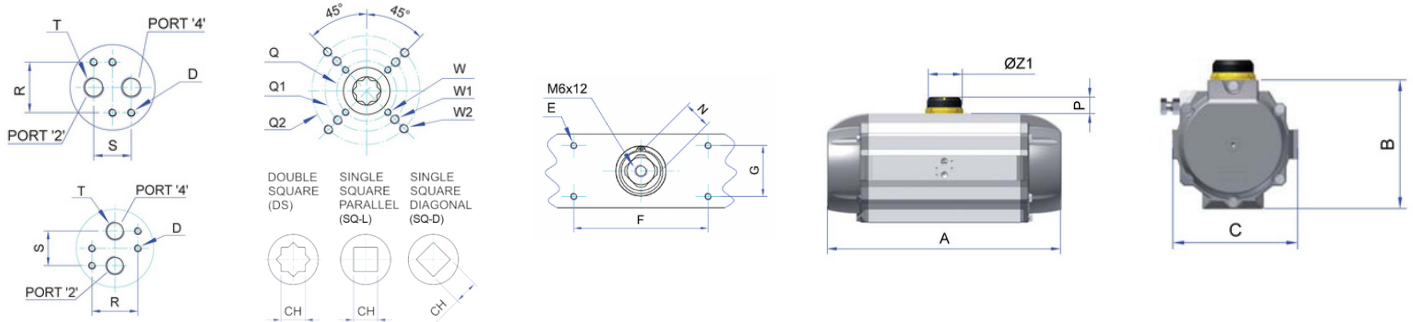


We are the exclusive representatives of AIR TORQUE in Brazil for the PT Line Pneumatic Actuators.



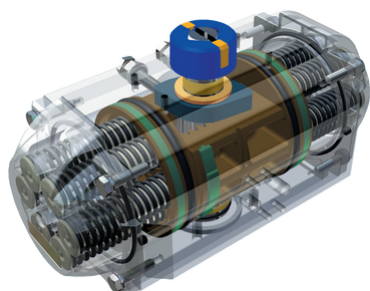
# PNEUMATIC ACTUATORS

## Dimensional Table



|                           | DIMENSIONS (mm) |         |         |         |         |             |         |         |         |         |         |         |            |            |                |         |             |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
|---------------------------|-----------------|---------|---------|---------|---------|-------------|---------|---------|---------|---------|---------|---------|------------|------------|----------------|---------|-------------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|----------|------|
|                           | PT045 U         |         | PT050 U |         | PT100 U |             | PT200 U |         | PT250 U |         | PT300 U |         | PT350 U    |            | PT400 U        |         | PT450 U     |      | PT500 U |      | PT550 U |      | PT600 U |      | PT650 U |      | PT700 U |      | PT750 U |      | PT800 U |      | PT1000 U |      |
|                           | D               | S       | D       | S       | D       | S           | D       | S       | D       | S       | D       | S       | D          | S          | D              | S       | D           | S    | D       | S    | D       | S    | D       | S    | D       | S    | D       | S    | D       | S    | D       | S    | D        | S    |
| A                         | 118             | 137     | 154     | 204     | 241     | 259         | 304     | 333     | 395     | 423     | 473     | 528     | 605        | 710        | 812            | 855     | 950         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| B                         | 66              | 69      | 85      | 102     | 115     | 127         | 145     | 157     | 177     | 196     | 220,5   | 245     | 298,5      | 330        | 383            | 410     | 518         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| C                         | 62              | 71      | 86,5    | 106     | 119     | 129,5       | 149     | 159     | 182,5   | 200,5   | 222     | 245     | 285,5      | 319,5      | 371            | 418     | 528         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| D                         | M5x8            | M5x8    | M5x8    | M5x8    | M5x8    | M5x8        | M5x8    | M5x8    | M5x8    | M5x8    | M5x8    | M5x8    | M5x8       | M5x8       | M5x8           | M5x8    | M5x8        | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8     | M5x8 |
| E                         | M5x8            | M5x8    | M5x8    | M5x8    | M5x8    | M5x8        | M5x8    | M5x8    | M5x8    | M5x8    | M5x8    | M5x8    | M5x8       | M5x8       | M5x8           | M5x8    | M5x8        | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8    | M5x8 | M5x8     | M5x8 |
| F                         | 80              | 80      | 80      | 80      | 80      | 80          | 80      | 80      | 80      | 80      | 80      | 80      | 80         | 80         | 80             | 80      | 80          | 80   | 80      | 80   | 80      | 80   | 80      | 80   | 80      | 80   | 80      | 80   | 80      | 80   | 80      | 80   | 80       | 80   |
| G                         | 30              | 30      | 30      | 30      | 30      | 30          | 30      | 30      | 30      | 30      | 30      | 30      | 30         | 30         | 30             | 30      | 30          | 30   | 30      | 30   | 30      | 30   | 30      | 30   | 30      | 30   | 30      | 30   | 30      | 30   | 30      | 30   | 30       | 30   |
| N                         | 11              | 11      | 11      | 17      | 17      | 17          | 27      | 27      | 27      | 27      | 36      | 36      | 36         | 36         | 36             | 36      | 36          | 36   | 36      | 36   | 36      | 36   | 36      | 36   | 36      | 36   | 36      | 36   | 36      | 36   | 36      | 36   | 36       | 36   |
| P                         | 15/20           | 20      | 20      | 20      | 20      | 20          | 20      | 30      | 30      | 30      | 30      | 50      | 50         | 50         | 50             | 50      | 50          | 50   | 50      | 50   | 50      | 50   | 50      | 50   | 50      | 50   | 50      | 50   | 50      | 50   | 50      | 50   | 50       | 50   |
| R                         | 32              | 32      | 32      | 32      | 32      | 32          | 32      | 32      | 32      | 32      | 32      | 32      | 32         | 32         | 32             | 32      | 32          | 32   | 32      | 32   | 32      | 32   | 32      | 32   | 32      | 32   | 32      | 32   | 32      | 32   | 32      | 32   | 32       | 32   |
| S                         | 24              | 24      | 24      | 24      | 24      | 24          | 24      | 24      | 24      | 24      | 24      | 24      | 24         | 24         | 24             | 24      | 24          | 24   | 24      | 24   | 24      | 24   | 24      | 24   | 24      | 24   | 24      | 24   | 24      | 24   | 24      | 24   | 24       | 24   |
| T NPT                     | 1/8"            | 1/8"    | 1/8"    | 1/8"    | 1/8"    | 1/4"        | 1/4"    | 1/4"    | 1/4"    | 1/4"    | 1/4"    | 1/4"    | 1/4"       | 1/4"       | 1/4"           | 1/4"    | 1/4"        | 1/4" | 1/4"    | 1/4" | 1/4"    | 1/4" | 1/4"    | 1/4" | 1/4"    | 1/4" | 1/4"    | 1/4" | 1/4"    | 1/4" | 1/4"    | 1/4" | 1/4"     | 1/4" |
| ØZ1                       | 42              | 42      | 42      | 42      | 42      | 42          | 58      | 58      | 67,5    | 67,5    | 80      | 80      | 115        | 115        | 115            | 115     | 135         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| ISO 5211 (Standard)       | F04             | F04     | F05+F07 | F05+F07 | F05+F07 | F05+F07+F10 | F07+F10 | F07+F10 | F10+F12 | F10+F12 | F14     | F14     | F16        | F16        | F16            | F16+F25 | F16+F25+F30 |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| ISO 5211 (Optional)       | F03             | F03+F05 | F04+F07 | -       | -       | -           | -       | -       | -       | -       | F10+F12 | F10+F12 | F12 ou F14 | F12 ou F14 | F14 ou F16+F25 | -       | -           |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| Q                         | 42              | 42      | 50      | 50      | 50      | 50          | 70      | 70      | 102     | 102     | 140     | 140     | 165        | 165        | 165            | 165     | 165         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| Q1                        | -               | -       | 70      | 70      | 70      | 70          | 102     | 102     | 125     | 125     | -       | -       | -          | -          | -              | 254     | 254         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| Q2                        | -               | -       | -       | -       | -       | 102         | -       | -       | -       | -       | -       | -       | -          | -          | -              | -       | 298         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| W                         | M5              | M5      | M6      | M6      | M6      | M6          | M8      | M8      | M10     | M10     | M16     | M16     | M20        | M20        | M20            | M20     | M20         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| W1                        | -               | -       | M8      | M8      | M8      | M8          | M10     | M10     | M12     | M12     | -       | -       | -          | -          | -              | M16     | M16         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| W2                        | -               | -       | -       | -       | -       | M10         | -       | -       | -       | -       | -       | -       | -          | -          | -              | -       | M20         |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| CH x I minimum (SQ)       | -               | 9 x 11  | 14 x 16 | 14 x 19 | 14 x 19 | 17 x 20     | 14 x 19 | 22 x 25 | 22 x 35 | 22 x 40 | 36 x 40 | 27 x 40 | 27 x 40    | 27 x 40    | 46 x 52        | 55 x 61 | 75 X 81     |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| CH x I minimum (SQ)       | -               | 11 x 13 |         | 17 x 19 | 17 x 20 | 22 x 25     | 22 x 25 | 27 x 29 | 27 x 30 | 27 x 30 | -       | 36 x 40 | 46 x 50    | 46 x 50    | 55 x 60        | -       | -           |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| CH x I minimum (DS)       | 9 x 11          | 11 x 13 | 11 x 19 | 14 x 19 | 17 x 20 | 17 x 25     | 17 x 25 | 22 x 35 | 27 x 40 | 27 x 40 | 27 x 40 | 27 x 40 | 36 x 40    | 36 x 40    | 46 x 52        | 46 x 52 | 55 X 60     |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| CH x I minimum (DS)       | 11 x 12         |         | 14 x 16 | 17 x 19 |         | 22 x 25     | 22 x 25 | 27 x 29 | -       | -       | 36 x 40 | 36 x 40 | 46 x 64    | 46 x 52    | 55 x 61        | 55 x 61 | -           |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| Opening Time (s)          | 0,15            | 0,2     | 0,2     | 0,25    | 0,25    | 0,3         | 0,3     | 0,4     | 0,4     | 0,5     | 0,5     | 0,7     | 0,7        | 0,9        | 0,9            | 1,2     | 1,2         | 1,5  | 1,5     | 1,8  | 2       | 2,4  | 2,7     | 3,5  | 3,5     | 4,1  | 4       | 4,5  | 5       | 6    | 6       | 7,5  | 8        | 10   |
| Closing Time (s)          | 0,2             | 0,25    | 0,25    | 0,3     | 0,3     | 0,35        | 0,35    | 0,5     | 0,5     | 0,6     | 0,6     | 0,9     | 0,8        | 1,1        | 1,1            | 1,4     | 1,4         | 1,8  | 1,7     | 2,1  | 2,2     | 2,8  | 3,2     | 4    | 4       | 4,6  | 4,5     | 5    | 6       | 7    | 7       | 8,5  | 9        | 11   |
| Air Volume at Opening (L) | 0,06            | 0,09    | 0,16    | 0,31    | 0,51    | 0,71        | 1,19    | 1,54    | 2,41    | 3,14    | 4,26    | 5,94    | 10         | 14,5       | 20             | 25      | 49          |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| Air Volume at Closing (L) | 0,1             | 0,15    | 0,26    | 0,49    | 0,78    | 1,11        | 1,8     | 2,34    | 3,78    | 4,92    | 6,89    | 9,46    | 15,2       | 21,4       | 33             | 40      | 84          |      |         |      |         |      |         |      |         |      |         |      |         |      |         |      |          |      |
| Approximate Weight (Kg)   | 0,75            | 0,9     | 1,15    | 1,26    | 1,7     | 1,9         | 3       | 3,4     | 4,2     | 4,8     | 5,7     | 6,6     | 8,8        | 10,2       | 10,7           | 12,6    | 15,5        | 18,7 | 19,6    | 23,7 | 25      | 33   | 37      | 45   | 56      | 71   | 77      | 97   | 118     | 150  | 127     | 169  | 170      | 238  |

## ACTUATORS



### ROTARY PNEUMATIC ACTUATOR

**Action:** Rotary

**Type:** Single Acting and Double Acting

**Torque:** 4 to 11,600 Nm

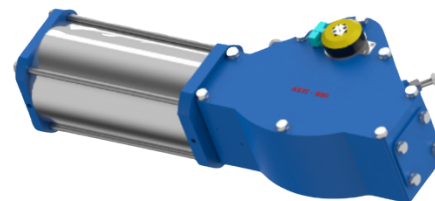


### ELECTRIC ACTUATOR

**Action:** Rotary

**Type:** Quarter-Turn and Multi-Turn

**Torque:** 15 to 350,000 Nm

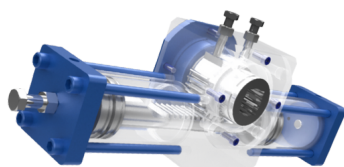


### SCOTCH YOKE ACTUATOR

**Action:** Rotary

**Type:** Double Acting

**Torque:** 2,000 to 40,000 Nm

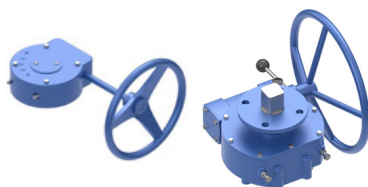


### HYDRAULIC ACTUATOR

**Action:** Rotary

**Type:** Quarter-Turn

**Torque:** 40 to 40,000 Nm



### GEARBOX / EMERGENCY GEARBOX

**Action:** Rotary

**Type:** Quarter-Turn

**Torque:** 15 to 12,000 Nm



### ACTUATING LEVER

**Action:** Rotary

**Type:** Position Coupling

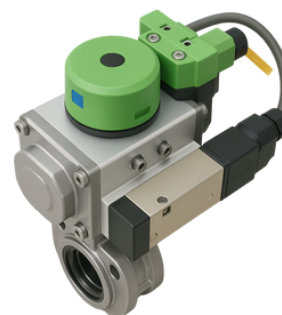
## ACCESSORIES



### SOLENOID VALVE



### MECHANICAL LIMIT SWITCH



### INDUCTIVE SENSOR



### FILTER REGULATOR WITH PRESSURE GAUGE



### MONITORING SYSTEM



### ELECTRO-PNEUMATIC POSITIONER (ROTARY / LINEAR)

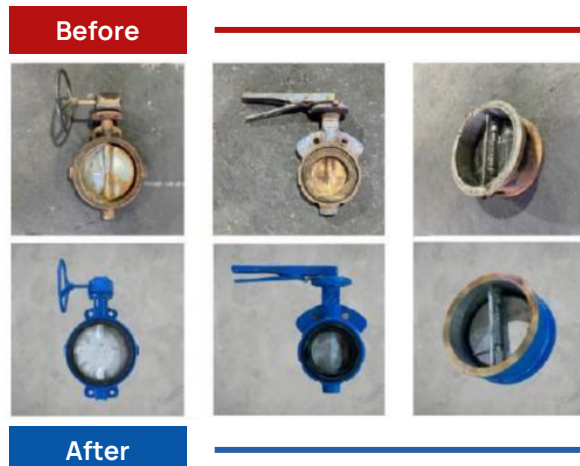
4-20 mA / 4-20 mA Hart / ProfiBus / FieldBus

## TECHNICAL SUPPORT AND VALVE MAINTENANCE

Interválvulas offers comprehensive solutions in the marketing, maintenance, and repair of valves, serving various industrial sectors such as Mining, Petrochemical, Sugar and Alcohol, Paper and Pulp, among others.

Valves play a fundamental role in fluid control and process isolation in industries, and their maintenance is essential to ensure the continuity and efficiency of operations. Valve repair provides significant benefits, including financial savings, reduced downtime, and extended equipment lifespan.

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