

PO5-F SERIES:  
TEFLON LINED DIAPHRAGM VALVE

DESCRIPTION

In the world of fluid control systems, precision and reliability are paramount. When it comes to handling corrosive or aggressive media, a robust solution is required to ensure optimal performance and longevity. That's where the Teflon lined steel material diaphragm valve comes into play.

The Teflon lining, renowned for its exceptional chemical resistance and low friction properties, is engineered to provide an impermeable barrier between the fluid and the valve body. This lining is meticulously applied to the interior of the valve, creating a protective layer that safeguards the steel material from exposure to corrosive substances.

The steel material used in the construction of these diaphragm valves offers remarkable strength and durability, ensuring the valves can withstand high pressures and temperatures without compromising their integrity. This combination of Teflon lining and steel material results in a valve that is not only resistant to corrosion but also capable of withstanding harsh operating conditions.

One of the key advantages of Teflon lined steel material diaphragm valves is their versatility. They are suitable for a wide range of applications across various industries, including chemical processing, pharmaceuticals, and wastewater treatment. Whether it's controlling the flow of aggressive chemicals, acids, or solvents, these valves excel in maintaining efficient and leak-free operation.



TECHNICAL PARAMETERS

- Nominal Diameter : DN15 – DN400
- Structure Type: Weir Type
- Pressure Rating : DN15 – DN100 PN1.0Mpa  
DN125 – DN200 PN0.6Mpa  
Over DN200 PN0.4Mpa
- End Connection : RF Flange
- Flange Standard: HG/T 20592、 GB/T9113、 EN 1092-1、 JB/T79.1、 ASME B16.5、 JIS B2220
- Main Material : Cast Iron、 Ductile Iron、 Cast Steel、 Stainless Steel
- Liner / Coating Material : F46、 PFA
- Diaphragm Material : Single Layer EPDM  
Double Layers EPDM+F46  
Double Layers EPDM+PFA  
Double Layers EPDM+PTFE
- Operation : Manual Handwheel、 Pneumatic Cylinder
- Applicable Medium : Liquid、 Gas、 Oil、 Corrosive Medium

FACE-TO-FACE LENGTH

**GB STANDARD** FACE-TO-FACE LENGTH DIAPHRAGM VALVE:  
STANDARD : GB12221

| DN | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| L  | 125 | 135 | 145 | 160 | 180 | 210 | 250 | 300 | 350 | 400 | 460 | 570 | 680 | 790 | 900 | 1000 |

**BS STANDARD** FACE-TO-FACE LENGTH DIAPHRAGM VALVE:  
STANDARD : BS5156 / ISO5752 / EN558

| DN | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L  | 108 | 117 | 127 | 146 | 159 | 190 | 216 | 254 | 305 | 356 | 406 | 521 | 635 | 749 | 787 | 914 |

## FLOW CHARACTERISTIC CURVE AND CV/KV VALUE OF DIAPHRAGM VALVE

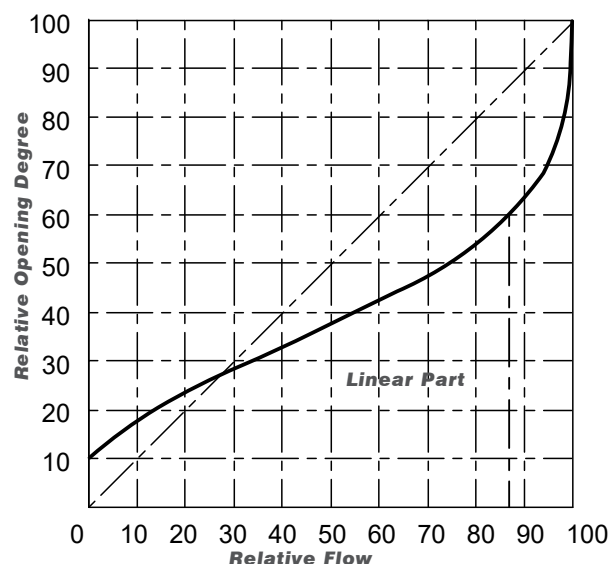
CV/KV VALUE TABLE FOR VALVE DN20-DN100

| DN          | 20   |      | 25    |      | 32    |       | 40    |       | 50    |       | 65    |       | 80     |        | 100    |        |
|-------------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Open Degree | CV   | KV   | CV    | KV   | CV    | KV    | CV    | KV    | CV    | KV    | CV    | KV    | CV     | KV     | CV     | KV     |
| 100%        | 6.50 | 5.59 | 11.19 | 9.60 | 16.70 | 14.31 | 31.00 | 26.57 | 59.00 | 50.60 | 83.00 | 71.10 | 148.00 | 126.90 | 270.00 | 231.00 |
| 90%         | 6.24 | 5.35 | 10.75 | 9.21 | 16.03 | 13.74 | 29.76 | 25.51 | 56.00 | 48.00 | 79.70 | 68.30 | 142.00 | 121.70 | 259.00 | 222.00 |
| 80%         | 5.98 | 5.13 | 10.30 | 8.83 | 15.35 | 13.17 | 28.51 | 24.43 | 54.00 | 46.29 | 76.40 | 65.40 | 136.00 | 116.60 | 248.00 | 213.00 |
| 70%         | 5.72 | 4.90 | 9.85  | 8.42 | 14.69 | 12.59 | 27.28 | 23.38 | 52.00 | 44.57 | 73.00 | 62.60 | 130.00 | 111.40 | 237.00 | 103.00 |
| 60%         | 4.54 | 4.67 | 9.40  | 8.06 | 14.02 | 12.02 | 26.03 | 22.32 | 50.00 | 42.86 | 69.70 | 59.80 | 124.00 | 106.30 | 226.00 | 194.00 |
| 50%         | 4.45 | 3.89 | 7.83  | 6.71 | 11.69 | 10.02 | 21.69 | 18.59 | 41.00 | 35.14 | 58.10 | 49.80 | 103.00 | 88.30  | 189.00 | 172.00 |
| 40%         | 3.63 | 3.11 | 6.27  | 5.37 | 9.35  | 8.01  | 17.35 | 14.87 | 33.00 | 28.28 | 16.50 | 39.80 | 82.90  | 71.00  | 151.00 | 129.00 |
| 30%         | 2.72 | 2.33 | 4.70  | 4.02 | 7.01  | 6.01  | 13.01 | 11.15 | 25.00 | 21.43 | 34.90 | 29.80 | 62.20  | 44.70  | 113.00 | 97.00  |
| 20%         | 1.18 | 1.55 | 3.13  | 2.68 | 4.67  | 4.00  | 8.67  | 7.43  | 16.00 | 13.71 | 23.20 | 19.90 | 41.40  | 35.50  | 75.60  | 65.00  |
| 10%         | 0.90 | 0.70 | 1.56  | 1.34 | 2.33  | 1.98  | 4.33  | 3.71  | 8.00  | 6.86  | 11.60 | 9.90  | 20.70  | 17.80  | 37.80  | 32.40  |
| 0%          | 0.00 | 0.00 | 0.00  | 0.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   |

CV/KV VALUE TABLE FOR VALVE DN150-DN350

| DN          | 150 |     | 200  |      | 250  |      | 300  |      | 350  |      |
|-------------|-----|-----|------|------|------|------|------|------|------|------|
| Open Degree | CV  | KV  | CV   | KV   | CV   | KV   | CV   | KV   | CV   | KV   |
| 100%        | 505 | 433 | 1350 | 1156 | 2100 | 1800 | 3880 | 3326 | 3880 | 3326 |
| 90%         | 484 | 414 | 1295 | 1109 | 2015 | 1727 | 2724 | 3191 | 3724 | 3191 |
| 80%         | 464 | 398 | 1242 | 1064 | 1932 | 1656 | 3569 | 3059 | 3569 | 3059 |
| 70%         | 444 | 381 | 1188 | 1017 | 1848 | 1584 | 3414 | 2926 | 3414 | 2926 |
| 60%         | 424 | 363 | 1133 | 971  | 1763 | 1511 | 3259 | 2793 | 3259 | 2793 |
| 50%         | 353 | 303 | 945  | 809  | 1470 | 1260 | 2716 | 2327 | 2716 | 2327 |
| 40%         | 282 | 242 | 756  | 647  | 1176 | 1008 | 2172 | 1861 | 2172 | 1861 |
| 30%         | 212 | 182 | 566  | 485  | 881  | 756  | 1629 | 1396 | 1629 | 1396 |
| 20%         | 141 | 121 | 378  | 323  | 588  | 504  | 1086 | 931  | 1086 | 931  |
| 10%         | 71  | 61  | 189  | 161  | 294  | 252  | 543  | 465  | 543  | 465  |
| 0%          | 0   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

FLOW CHARACTERISTIC CURVE



## ORDERING CODE

PO

5    4    —    2

| Actuator Type |           |
|---------------|-----------|
| 1             | Manual    |
| 3             | Pneumatic |

| Diaphragm Material |           |
|--------------------|-----------|
| 2                  | EPDM      |
| F                  | EPDM+F46  |
| A                  | EPDM+PFA  |
| P                  | EPDM+PTFE |

| Body Material |                     |
|---------------|---------------------|
| 0             | Cast Iron           |
| 2             | Ductile Cast Iron   |
| 3             | Cast Steel          |
| A             | Stainless steel 304 |
| B             | Stainless steel 316 |

| Lining Material |     |
|-----------------|-----|
| F               | F46 |
| A               | PFA |

| End Connection Standard |                            |
|-------------------------|----------------------------|
| G                       | GB/JB/HG Standard PN10     |
| A                       | ANSI Standard Class 150LBS |
| J                       | JIS Standard JIS10K        |
| E                       | EN/BS Standard PN10        |
| O                       | Others                     |

— F —

| Valve Type |                           |
|------------|---------------------------|
| M          | Manual Diaphragm Valve    |
| P          | Pneumatic Diaphragm Valve |

| Face-to-Face Length Standard |                    |
|------------------------------|--------------------|
| G                            | GB Standard Length |
| B                            | BS Standard Length |

## PO5-F SERIES: TEFLON LINED DIAPHRAGM VALVE

### PO5-FM Series: MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE

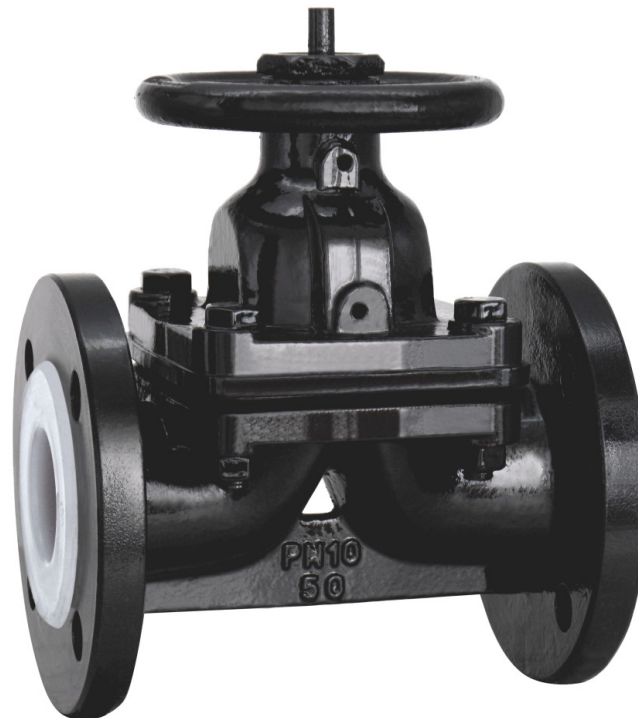
#### DESCRIPTION

At the forefront of valve technology, we proudly present the PO5-FM Series MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE, an engineering marvel tailored for the most demanding industrial environments. With our unwavering commitment to excellence in valve manufacturing, we bring you a solution that surpasses expectations in durability, chemical resistance, and performance.

Crafted with meticulous precision, this valve boasts a Teflon lining that sets it apart from the competition. Renowned for its exceptional resistance to corrosive substances, the Teflon lining shields the valve from aggressive fluids, acids, solvents, and caustic materials, ensuring unrivaled longevity and reducing maintenance requirements. With this valve in place, rest assured that your operation will stand strong against the most challenging conditions.

Leak-tight sealing is at the core of this valve's design philosophy. Equipped with a diaphragm made of high-quality elastomer, it offers an impenetrable seal, safeguarding against any leakage or contamination. This critical feature ensures not only process integrity but also environmental safety – a paramount concern in industries where cross-contamination can have severe consequences.

As a trusted leader in the field, we stand behind our product with a reputation built on certifications, stringent quality control measures, and a global reach. Our commitment to excellence in valve manufacturing enables us to deliver a MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE that not only meets industry standards but exceeds them. With us, you can have confidence in the performance, reliability, and longevity of your valve investment.



#### STANDARDS

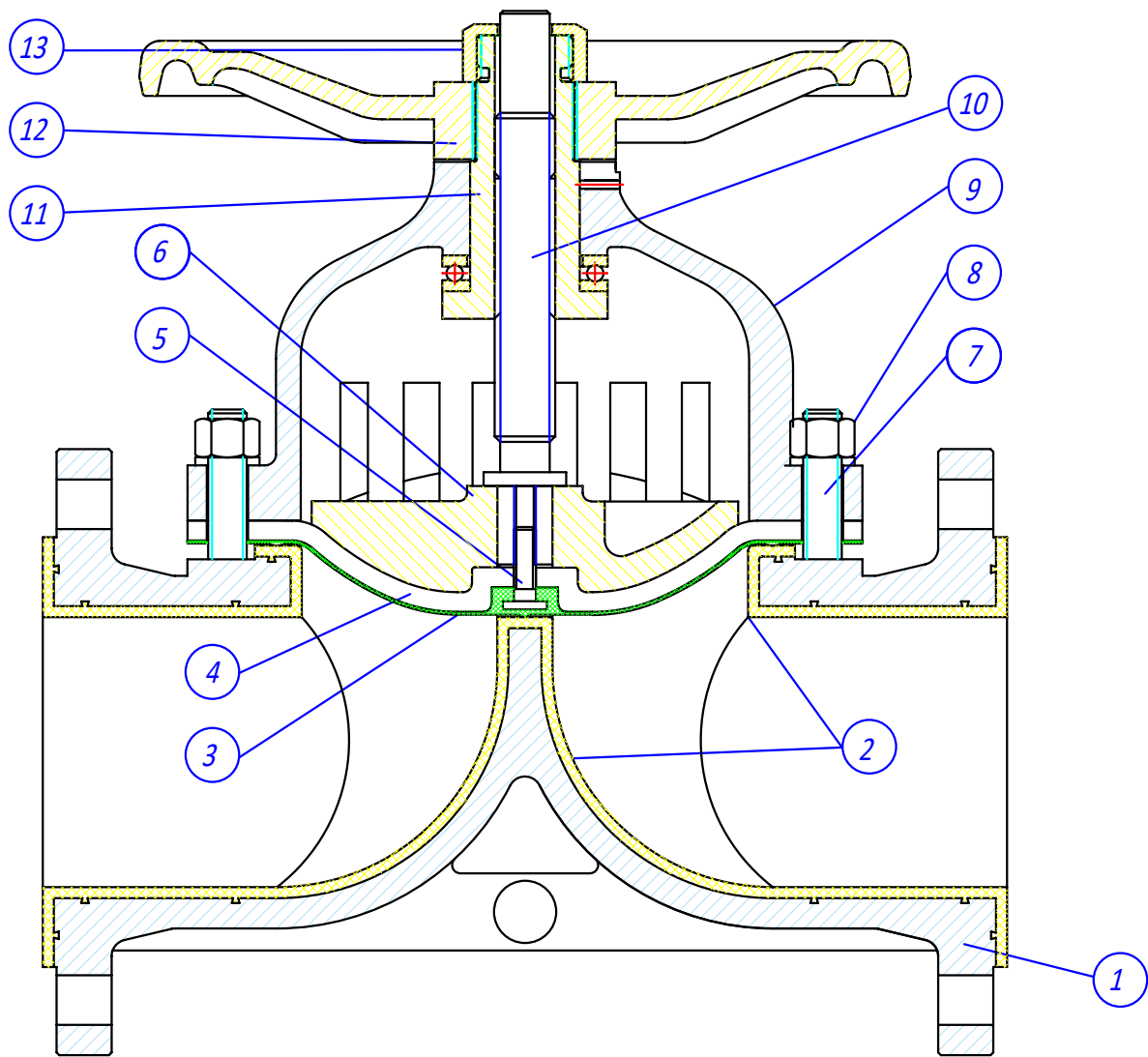
|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| Design Standard       | GB/T 12239 – 1989、<br>MSS-SP-88 – 1988<br>ISO 5752 – 1988、<br>BS 5156 – 1985   |
| Inspection Standard   | GB/T 12239 – 1989                                                              |
| Face-to-Face Standard | GB/T 12221 Series 7<br>BS-EN-558-2008 Series 7<br>ISO 5752 Series 7<br>BS 5156 |
| Flange Standard       | HG/T 20592、GB/T9113<br>EN 1092-1、JB/T79.1<br>ANSI B 16.5、JIS B2220             |

#### PERFORMANCE

| Valve Size                        | DN15–DN50                            | DN65–DN100 | DN125–DN200 | Over DN200 |
|-----------------------------------|--------------------------------------|------------|-------------|------------|
| Nominal Pressure                  | 1.0Mpa                               | 1.0Mpa     | 0.6Mpa      | 0.4Mpa     |
| Max Working Pressure              | 1.0Mpa                               | 1.0Mpa     | 0.6Mpa      | 0.4Mpa     |
| Shell Testing Pressure            | 1.5Mpa                               | 1.5Mpa     | 0.9Mpa      | 0.6Mpa     |
| Seal Testing Pressure (Hydraulic) | 1.1Mpa                               | 1.3Mpa     | 0.66Mpa     | 0.53Mpa    |
| Seal Testing Pressure (Air)       | 0.5~ 0.6Mpa                          |            |             |            |
| Applicable Medium                 | Water、Liquid、Gas、Oil、Acid and Alkali |            |             |            |
| Applicable Temperature            | -10℃ ~100℃                           |            |             |            |

PO5-FM Series:  
MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE

STRUCTURE

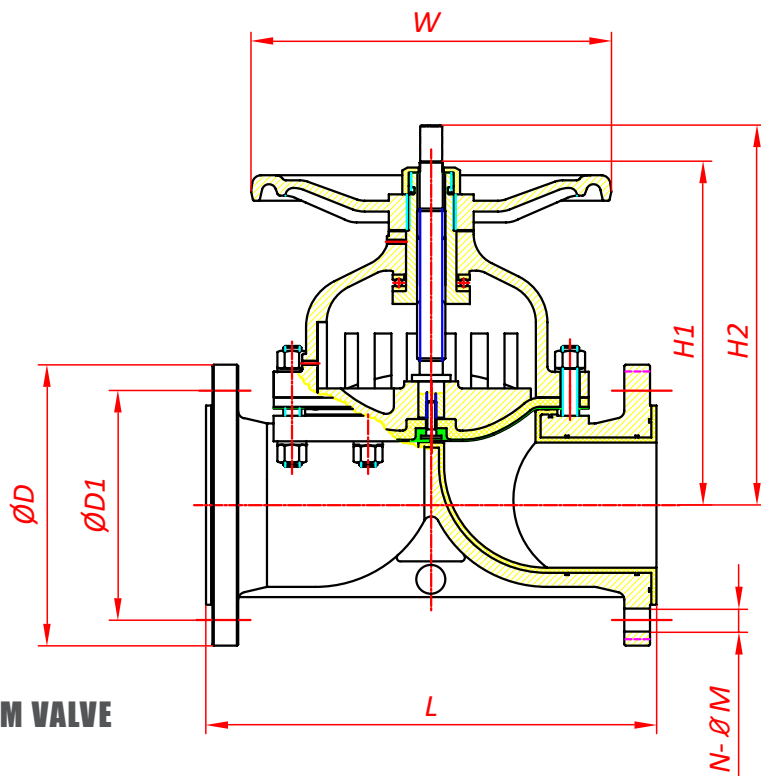
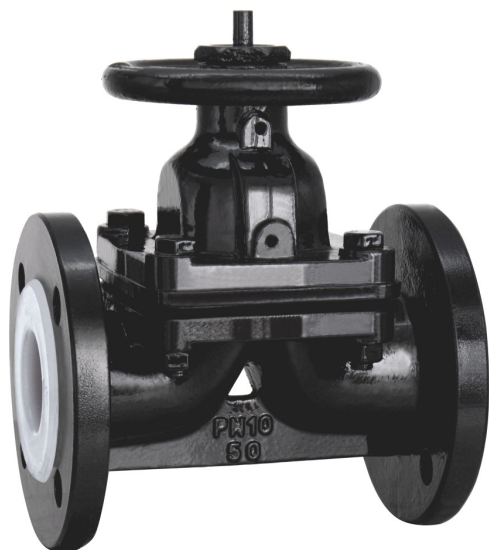


| Part Number | Part Name      | Material         |                   |            |
|-------------|----------------|------------------|-------------------|------------|
|             |                | Cast Iron        | Ductile Cast Iron | Cast Steel |
| 1           | BODY           | Cast Iron        | Ductile Cast Iron | Cast Steel |
| 2           | LINER          | F46 / FPA        |                   |            |
| 3           | DIAPHRAGM      | F46 / FPA / PTFE |                   |            |
| 4           | DIAPHRAGM BACK | EPDM             |                   |            |
| 5           | TRIM           | A216 WCB         |                   |            |
| 6           | TRIM           | A216 WCB         |                   |            |
| 7           | BOLT           | 1Cr18Ni9Ti       |                   |            |
| 8           | NUT            | 1Cr18Ni9Ti       |                   |            |
| 9           | BONNET         | Cast Iron        | Ductile Cast Iron | Cast Steel |
| 10          | STEM           | 2Cr13            |                   |            |
| 11          | STEM NUT       | ZCuAl10Fe3       |                   |            |
| 12          | HANDWHEEL      | HT200            |                   |            |
| 13          | LOCK NUT       | HT200            |                   |            |

## PO5-FM Series: MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE

### PO5-FM-G : GB STANDARD MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE

#### DIMENSIONS



## GB STANDARD FTF LENGTH DIAPHRAGM VALVE GB/T 12221

#### DIMENSIONS OF OF MANUAL DIAPHRAGM VALVE WITH PN10 END CONNECTION

### PN10 END CONNECTION

| Size  | L    | D   | D1  | D2  | N-M   | H1<br>Full Close | H2<br>Full Open | f | W   | Unit Weight<br>KGs |
|-------|------|-----|-----|-----|-------|------------------|-----------------|---|-----|--------------------|
| DN15  | 125  | 95  | 65  | 46  | 4-14  | 105              | 116             | 2 | 120 | 4.5                |
| DN20  | 135  | 105 | 75  | 56  | 4-14  | 117              | 128             | 2 | 120 | 4.5                |
| DN25  | 145  | 115 | 85  | 65  | 4-14  | 121              | 135             | 2 | 120 | 5                  |
| DN32  | 160  | 140 | 100 | 76  | 4-18  | 132              | 150             | 2 | 120 | 7                  |
| DN40  | 180  | 150 | 110 | 84  | 4-18  | 156              | 176             | 3 | 140 | 9                  |
| DN50  | 210  | 165 | 125 | 99  | 4-18  | 160              | 195             | 3 | 140 | 13                 |
| DN65  | 250  | 185 | 145 | 118 | 4-18  | 200              | 236             | 3 | 200 | 19                 |
| DN80  | 300  | 200 | 160 | 132 | 8-18  | 216              | 256             | 3 | 200 | 26                 |
| DN100 | 350  | 220 | 180 | 156 | 8-18  | 270              | 322             | 3 | 280 | 40                 |
| DN125 | 400  | 250 | 210 | 184 | 8-18  | 315              | 380             | 3 | 320 | 62                 |
| DN150 | 460  | 285 | 240 | 211 | 8-22  | 378              | 458             | 3 | 320 | 81                 |
| DN200 | 570  | 340 | 295 | 266 | 8-22  | 518              | 638             | 4 | 400 | 146                |
| DN250 | 680  | 395 | 350 | 319 | 12-22 | 583              | 720             | 4 | 500 | 240                |
| DN300 | 790  | 445 | 400 | 370 | 12-22 | 698              | 778             | 4 | 500 | 334                |
| DN350 | 900  | 505 | 460 | 429 | 16-22 | 723              | 883             | 4 | 500 | 371                |
| DN400 | 1000 | 565 | 515 | 480 | 16-26 | 868              | 1078            | 4 | 640 | 584                |

**PO5-FM-G : GB STANDARD MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE****DIMENSIONS OF OF MANUAL DIAPHRAGM VALVE WITH CL150# END CONNECTION****ANSI CLASS150LBS END CONNECTION**

| Size  | L    | D   | D1    | D2    | N-M   | H1<br>Full Close | H2<br>Full Open | f | W   | Unit Weight<br>KGs |
|-------|------|-----|-------|-------|-------|------------------|-----------------|---|-----|--------------------|
| DN15  | 125  | 90  | 60.3  | 34.9  | 4-16  | 105              | 116             | 2 | 120 | 4.5                |
| DN20  | 135  | 100 | 69.9  | 42.9  | 4-16  | 117              | 128             | 2 | 120 | 4.5                |
| DN25  | 145  | 110 | 79.4  | 50.8  | 4-16  | 121              | 135             | 2 | 120 | 5                  |
| DN32  | 160  | 115 | 88.9  | 63.5  | 4-16  | 132              | 150             | 2 | 120 | 7                  |
| DN40  | 180  | 125 | 98.4  | 73    | 4-16  | 156              | 176             | 3 | 140 | 9                  |
| DN50  | 210  | 150 | 120.7 | 92.1  | 4-19  | 160              | 195             | 3 | 140 | 13                 |
| DN65  | 250  | 180 | 139.7 | 104.8 | 4-19  | 200              | 236             | 3 | 200 | 19                 |
| DN80  | 300  | 190 | 152.4 | 127   | 4-19  | 216              | 256             | 3 | 200 | 26                 |
| DN100 | 350  | 230 | 190.5 | 157.2 | 8-19  | 270              | 322             | 3 | 280 | 40                 |
| DN125 | 400  | 255 | 215.9 | 185.7 | 8-22  | 315              | 380             | 3 | 320 | 62                 |
| DN150 | 460  | 280 | 241.3 | 215.9 | 8-22  | 378              | 458             | 3 | 320 | 81                 |
| DN200 | 570  | 345 | 298.5 | 269.9 | 8-22  | 518              | 638             | 4 | 400 | 146                |
| DN250 | 680  | 405 | 362   | 323.8 | 12-26 | 583              | 720             | 4 | 500 | 240                |
| DN300 | 790  | 485 | 431.8 | 381   | 12-26 | 698              | 778             | 4 | 500 | 334                |
| DN350 | 900  | 535 | 476.3 | 412.8 | 12-29 | 723              | 883             | 4 | 500 | 371                |
| DN400 | 1000 | 595 | 539.8 | 469.9 | 16-29 | 868              | 1078            | 4 | 640 | 584                |

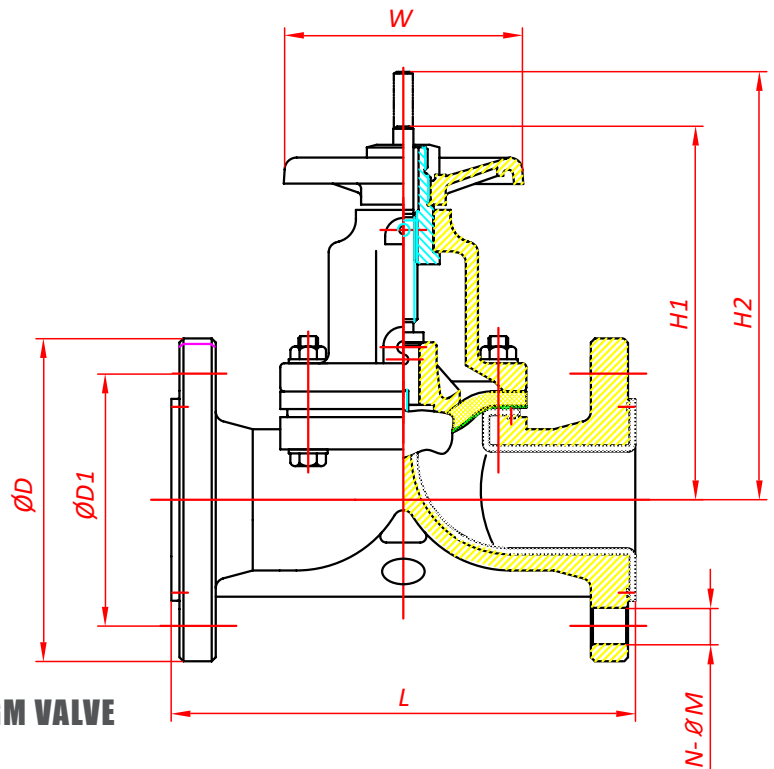
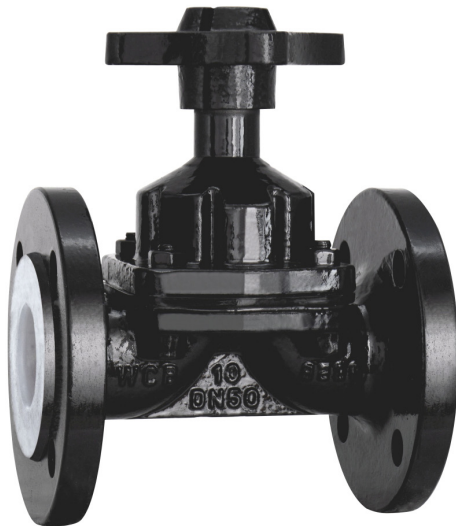
**DIMENSIONS OF OF MANUAL DIAPHRAGM VALVE WITH JIS10K END CONNECTION****JIS 10K END CONNECTION**

| Size  | L    | D   | D1  | D2  | N-M   | H1<br>Full Close | H2<br>Full Open | f | W   | Unit Weight<br>KGs |
|-------|------|-----|-----|-----|-------|------------------|-----------------|---|-----|--------------------|
| DN15  | 125  | 95  | 70  | 51  | 4-12  | 105              | 116             | 2 | 120 | 4.5                |
| DN20  | 135  | 100 | 75  | 56  | 4-14  | 117              | 128             | 2 | 120 | 4.5                |
| DN25  | 145  | 125 | 90  | 67  | 4-14  | 121              | 135             | 2 | 120 | 5                  |
| DN32  | 160  | 135 | 100 | 76  | 4-16  | 132              | 150             | 2 | 120 | 7                  |
| DN40  | 180  | 140 | 105 | 81  | 4-16  | 156              | 176             | 3 | 140 | 9                  |
| DN50  | 210  | 155 | 120 | 96  | 4-16  | 160              | 195             | 3 | 140 | 13                 |
| DN65  | 250  | 175 | 140 | 116 | 4-18  | 200              | 236             | 3 | 200 | 19                 |
| DN80  | 300  | 185 | 150 | 126 | 8-18  | 216              | 256             | 3 | 200 | 26                 |
| DN100 | 350  | 210 | 175 | 151 | 8-18  | 270              | 322             | 3 | 280 | 40                 |
| DN125 | 400  | 250 | 210 | 182 | 8-20  | 315              | 380             | 3 | 320 | 62                 |
| DN150 | 460  | 280 | 240 | 212 | 8-22  | 378              | 458             | 3 | 320 | 81                 |
| DN200 | 570  | 330 | 290 | 262 | 12-22 | 518              | 638             | 4 | 400 | 146                |
| DN250 | 680  | 400 | 355 | 324 | 12-24 | 583              | 720             | 4 | 500 | 240                |
| DN300 | 790  | 445 | 400 | 368 | 16-24 | 698              | 778             | 4 | 500 | 334                |
| DN350 | 900  | 490 | 445 | 413 | 16-26 | 723              | 883             | 4 | 500 | 371                |
| DN400 | 1000 | 560 | 510 | 475 | 16-28 | 868              | 1078            | 4 | 640 | 584                |

## PO5-FM Series: MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE

### PO5-FM-B : BS STANDARD MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE

#### DIMENSIONS



### BS STANDARD FTF LENGTH DIAPHRAGM VALVE BS 5156

#### DIMENSIONS OF OF MANUAL DIAPHRAGM VALVE WITH PN10 END CONNECTION

| PN10 END CONNECTION |     |     |     |     |       |                  |                 |   |     |                    |
|---------------------|-----|-----|-----|-----|-------|------------------|-----------------|---|-----|--------------------|
| Size                | L   | D   | D1  | D2  | N-M   | H1<br>Full Close | H2<br>Full Open | f | W   | Unit Weight<br>KGs |
| DN15                | 108 | 95  | 65  | 46  | 4-14  | 90               | 99              | 2 | 66  | 2                  |
| DN20                | 117 | 105 | 75  | 56  | 4-14  | 93               | 103             | 2 | 66  | 3                  |
| DN25                | 127 | 115 | 85  | 65  | 4-14  | 100              | 112             | 2 | 66  | 4                  |
| DN32                | 146 | 140 | 100 | 76  | 4-18  | 127              | 144             | 2 | 96  | 6.5                |
| DN40                | 159 | 150 | 110 | 84  | 4-18  | 136              | 156             | 3 | 96  | 7.5                |
| DN50                | 190 | 165 | 125 | 99  | 4-18  | 151              | 177             | 3 | 118 | 10                 |
| DN65                | 216 | 185 | 145 | 118 | 4-18  | 183              | 213             | 3 | 165 | 16                 |
| DN80                | 254 | 200 | 160 | 132 | 8-18  | 198              | 273             | 3 | 230 | 23.5               |
| DN100               | 305 | 220 | 180 | 156 | 8-18  | 266              | 320             | 3 | 280 | 34                 |
| DN125               | 356 | 250 | 210 | 184 | 8-18  | 319              | 386             | 3 | 280 | 44                 |
| DN150               | 406 | 285 | 240 | 211 | 8-22  | 380              | 453             | 3 | 368 | 68                 |
| DN200               | 521 | 340 | 295 | 266 | 8-22  | 506              | 626             | 4 | 400 | 142                |
| DN250               | 635 | 395 | 350 | 319 | 12-22 | 598              | 734             | 4 | 500 | 229                |
| DN300               | 749 | 445 | 400 | 370 | 12-22 | 698              | 778             | 4 | 560 | 321                |
| DN350               | 787 | 505 | 460 | 429 | 16-22 | 723              | 883             | 4 | 560 | 360                |
| DN400               | 914 | 565 | 515 | 480 | 16-26 | 868              | 1078            | 4 | 640 | 584                |

**PO5-FM-B : BS STANDARD MANUAL OPERATED TEFLON LINED DIAPHRAGM VALVE****DIMENSIONS OF OF MANUAL DIAPHRAGM VALVE WITH CL150# END CONNECTION****ANSI CLASS150LBS END CONNECTION**

| Size  | L   | D   | D1    | D2    | N-M   | H1<br>Full Close | H2<br>Full Open | f | W   | Unit Weight<br>KGs |
|-------|-----|-----|-------|-------|-------|------------------|-----------------|---|-----|--------------------|
| DN15  | 108 | 90  | 60.3  | 34.9  | 4-16  | 90               | 99              | 2 | 66  | 2                  |
| DN20  | 117 | 100 | 69.9  | 42.9  | 4-16  | 93               | 103             | 2 | 66  | 3                  |
| DN25  | 127 | 110 | 79.4  | 50.8  | 4-16  | 100              | 112             | 2 | 66  | 4                  |
| DN32  | 146 | 115 | 88.9  | 63.5  | 4-16  | 127              | 144             | 2 | 96  | 6.5                |
| DN40  | 159 | 125 | 98.4  | 73    | 4-16  | 136              | 156             | 3 | 96  | 7.5                |
| DN50  | 190 | 150 | 120.7 | 92.1  | 4-19  | 151              | 177             | 3 | 118 | 10                 |
| DN65  | 216 | 180 | 139.7 | 104.8 | 4-19  | 183              | 213             | 3 | 165 | 16                 |
| DN80  | 254 | 190 | 152.4 | 127   | 4-19  | 198              | 273             | 3 | 230 | 23.5               |
| DN100 | 305 | 230 | 190.5 | 157.2 | 8-19  | 266              | 320             | 3 | 280 | 34                 |
| DN125 | 356 | 255 | 215.9 | 185.7 | 8-22  | 319              | 386             | 3 | 280 | 44                 |
| DN150 | 406 | 280 | 241.3 | 215.9 | 8-22  | 380              | 453             | 3 | 368 | 68                 |
| DN200 | 521 | 345 | 298.5 | 269.9 | 8-22  | 506              | 626             | 4 | 400 | 142                |
| DN250 | 635 | 405 | 362   | 323.8 | 12-26 | 598              | 734             | 4 | 500 | 229                |
| DN300 | 749 | 485 | 431.8 | 381   | 12-26 | 698              | 778             | 4 | 560 | 321                |
| DN350 | 787 | 535 | 476.3 | 412.8 | 12-29 | 723              | 883             | 4 | 560 | 360                |
| DN400 | 914 | 595 | 539.8 | 469.9 | 16-29 | 868              | 1078            | 4 | 640 | 584                |

**DIMENSIONS OF OF MANUAL DIAPHRAGM VALVE WITH JIS10K END CONNECTION****JIS 10K END CONNECTION**

| Size  | L   | D   | D1  | D2  | N-M   | H1<br>Full Close | H2<br>Full Open | f | W   | Unit Weight<br>KGs |
|-------|-----|-----|-----|-----|-------|------------------|-----------------|---|-----|--------------------|
| DN15  | 108 | 95  | 70  | 51  | 4-12  | 90               | 99              | 2 | 66  | 2                  |
| DN20  | 117 | 100 | 75  | 56  | 4-14  | 93               | 103             | 2 | 66  | 3                  |
| DN25  | 127 | 125 | 90  | 67  | 4-14  | 100              | 112             | 2 | 66  | 4                  |
| DN32  | 146 | 135 | 100 | 76  | 4-16  | 127              | 144             | 2 | 96  | 6.5                |
| DN40  | 159 | 140 | 105 | 81  | 4-16  | 136              | 156             | 3 | 96  | 7.5                |
| DN50  | 190 | 155 | 120 | 96  | 4-16  | 151              | 177             | 3 | 118 | 10                 |
| DN65  | 216 | 175 | 140 | 116 | 4-18  | 183              | 213             | 3 | 165 | 16                 |
| DN80  | 254 | 185 | 150 | 126 | 8-18  | 198              | 273             | 3 | 230 | 23.5               |
| DN100 | 305 | 210 | 175 | 151 | 8-18  | 266              | 320             | 3 | 280 | 34                 |
| DN125 | 356 | 250 | 210 | 182 | 8-20  | 319              | 386             | 3 | 280 | 44                 |
| DN150 | 406 | 280 | 240 | 212 | 8-22  | 380              | 453             | 3 | 368 | 68                 |
| DN200 | 521 | 330 | 290 | 262 | 12-22 | 506              | 626             | 4 | 400 | 142                |
| DN250 | 635 | 400 | 355 | 324 | 12-24 | 598              | 734             | 4 | 500 | 229                |
| DN300 | 749 | 445 | 400 | 368 | 16-24 | 698              | 778             | 4 | 560 | 321                |
| DN350 | 787 | 490 | 445 | 413 | 16-26 | 723              | 883             | 4 | 560 | 360                |
| DN400 | 914 | 560 | 510 | 475 | 16-28 | 868              | 1078            | 4 | 640 | 584                |

## PO5-F SERIES: TEFLON LINED DIAPHRAGM VALVE

### PO5-FP Series: PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

#### DESCRIPTION

PO5-FP Series Pneumatic Operated Teflon Lined Diaphragm Valve –a cutting-edge solution designed to meet the demanding requirements of various industries. As a leading manufacturer in the valve industry, we take pride in delivering high-quality products that excel in performance, reliability, and durability.

As an authoritative source in the valve manufacturing industry, we take pride in highlighting the distinct advantages:

- 1. Exceptional Corrosion Resistance:** The Teflon lining of this diaphragm valve offers exceptional resistance to corrosive fluids.
- 2. Smooth and Precise Operation:** The combination of the Teflon lining and pneumatic actuation system enables smooth and precise control over fluid flow, pressure, and direction.
- 3. Extended Service Life:** The Teflon lining not only protects against corrosion but also minimizes friction during operation.
- 4. Certified Quality:** Our Pneumatic Operated Teflon Lined Diaphragm Valve is backed by certifications that reflect our commitment to quality.
- 5. Versatile Applications:** The Pneumatic Operated Teflon Lined Diaphragm Valve finds its usefulness across various industries and applications.
- 6. Expert Guidance and Support:** As a global player in the valve manufacturing industry, we offer expert guidance and support to help you choose the right valve for your specific needs.

With exceptional corrosion resistance, smooth operation, extended service life, certified quality, versatile applications, and expert guidance, PO5-FP Series Pneumatic Operated Teflon Lined Diaphragm Valve proves to be a reliable and efficient choice for a wide range of industries. Trust in our confident and authoritative brand voice as we provide you with superior solutions in the valve manufacturing industry.

#### PERFORMANCE

| Valve Size                        | DN15-DN50                            | DN65-DN100 | DN125-DN200 | Over DN200 |
|-----------------------------------|--------------------------------------|------------|-------------|------------|
| Nominal Pressure                  | 1.0Mpa                               | 1.0Mpa     | 0.6Mpa      | 0.4Mpa     |
| Max Working Pressure              | 1.0Mpa                               | 1.0Mpa     | 0.6Mpa      | 0.4Mpa     |
| Shell Testing Pressure            | 1.5Mpa                               | 1.5Mpa     | 0.9Mpa      | 0.6Mpa     |
| Seal Testing Pressure (Hydraulic) | 1.1Mpa                               | 1.3Mpa     | 0.66Mpa     | 0.53Mpa    |
| Seal Testing Pressure (Air)       | 0.5~ 0.6Mpa                          |            |             |            |
| Applicable Medium                 | Water、Liquid、Gas、Oil、Acid and Alkali |            |             |            |
| Applicable Temperature            | -10℃ ~100℃                           |            |             |            |



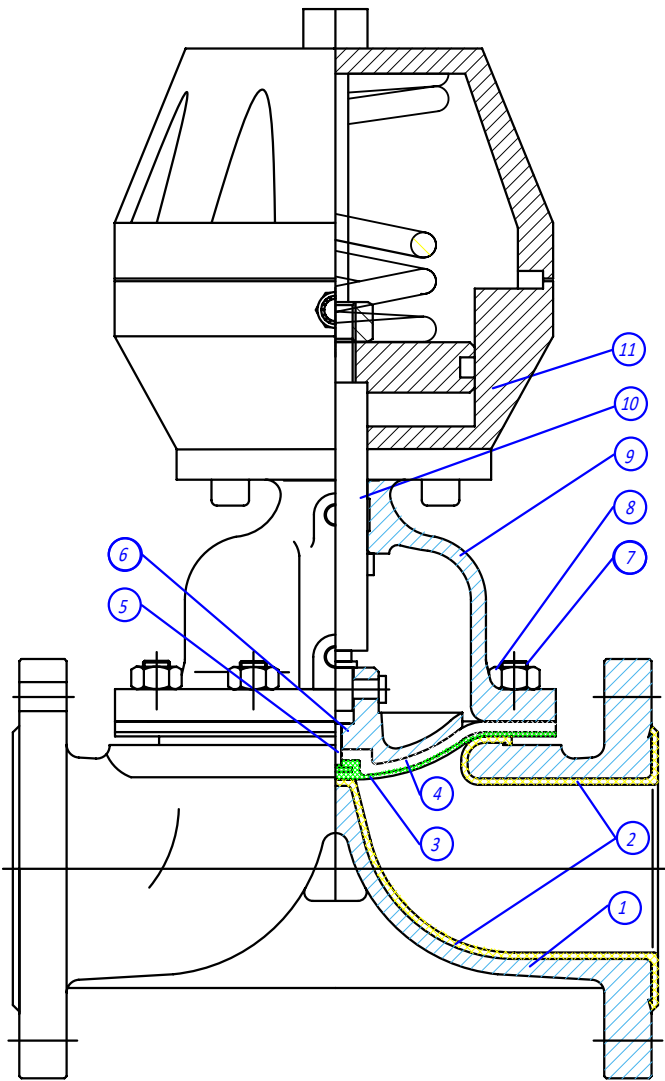
#### STANDARDS

|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| Design Standard       | GB/T 12239 – 1989、<br>MSS-SP-88 – 1988<br>ISO 5752 – 1988、<br>BS 5156 – 1985   |
| Inspection Standard   | GB/T 12239 – 1989                                                              |
| Face-to-Face Standard | GB/T 12221 Series 7<br>BS-EN-558-2008 Series 7<br>ISO 5752 Series 7<br>BS 5156 |
| Flange Standard       | HG/T 20592、GB/T9113<br>EN 1092-1、JB/T79.1<br>ANSI B 16.5、JIS B2220             |

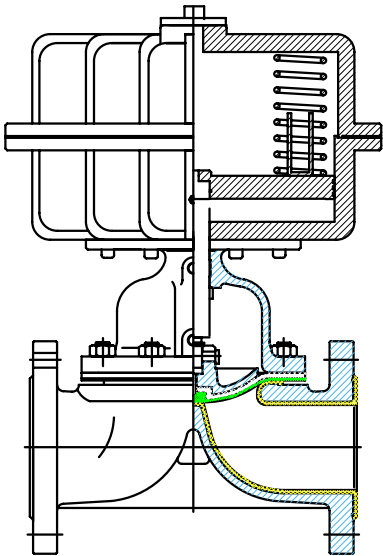
PO5-FP Series:  
PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

PO5-FP

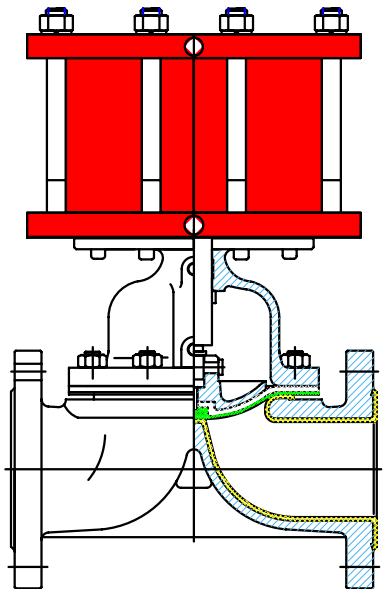
STRUCTURE



PNEUMATIC DIAPHRAGM VALVE DN15-DN125  
WITH ALU ALLOY MATERIAL ACTUATOR



PNEUMATIC DIAPHRAGM VALVE DN150-DN200  
WITH ALU ALLOY MATERIAL ACTUATOR



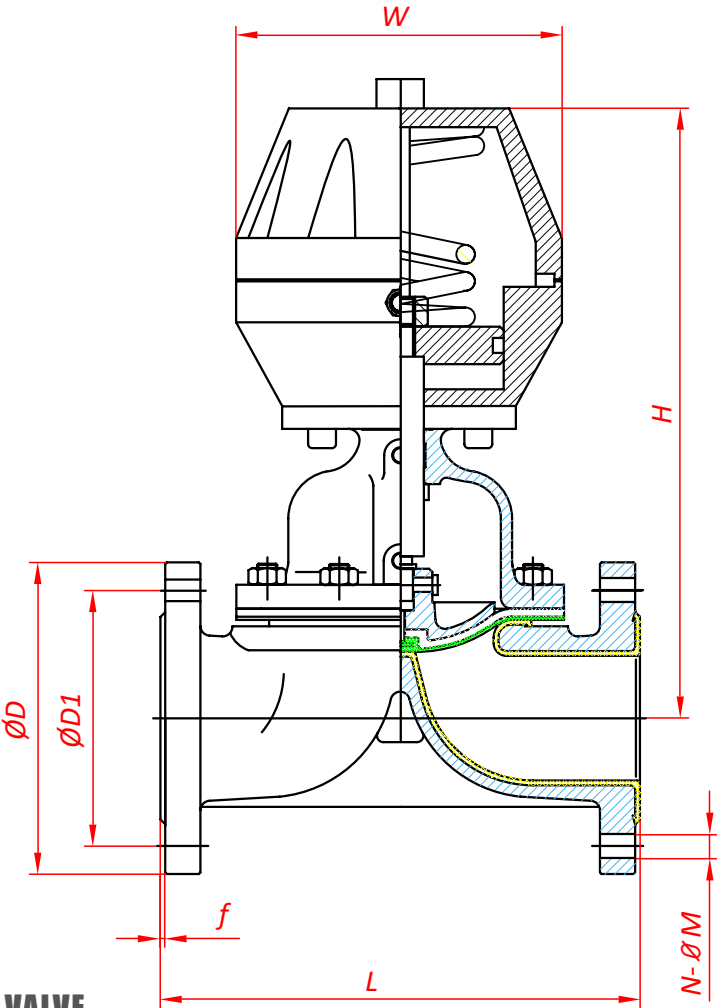
PNEUMATIC DIAPHRAGM VALVE DN50-DN200  
WITH CAST STEEL MATERIAL ACTUATOR

| Part Number | Part Name      | Material                                |                   |            |
|-------------|----------------|-----------------------------------------|-------------------|------------|
|             |                | Cast Iron                               | Ductile Cast Iron | Cast Steel |
| 1           | BODY           | Cast Iron                               | Ductile Cast Iron | Cast Steel |
| 2           | LINER          | F46 / FPA                               |                   |            |
| 3           | DIAPHRAGM      | F46 / FPA / PTFE                        |                   |            |
| 4           | DIAPHRAGM BACK | EPDM                                    |                   |            |
| 5           | TRIM           | A216 WCB                                |                   |            |
| 6           | TRIM           | A216 WCB                                |                   |            |
| 7           | BOLT           | 1Cr18Ni9Ti                              |                   |            |
| 8           | NUT            | 1Cr18Ni9Ti                              |                   |            |
| 9           | BONNET         | Cast Iron                               | Ductile Cast Iron | Cast Steel |
| 10          | STEM           | 2Cr13                                   |                   |            |
| 11          | ACTUATOR       | Aluminum Alloy / Cast Iron / Cast Steel |                   |            |

PO5-FP Series:  
PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

PO5-FP-G : GB STANDARD PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

DIMENSIONS



**GB STANDARD** FTF LENGTH DIAPHRAGM VALVE  
GB/T 12221

DIMENSIONS OF PNEUMATIC DIAPHRAGM VALVE DN15-DN125 WITH PN10 END CONNECTION

| PN10 END CONNECTION |     |     |     |     |       |     |   |     |                     |                 |
|---------------------|-----|-----|-----|-----|-------|-----|---|-----|---------------------|-----------------|
| Size                | L   | D   | D1  | D2  | N-M   | H   | f | W   | Air Supply Pressure | Unit Weight KGs |
| DN15                | 125 | 95  | 65  | 45  | 4- 14 | 215 | 2 | 110 | 600 kPa             | 5               |
| DN20                | 135 | 105 | 75  | 58  | 4- 14 | 220 | 2 | 110 | 600 kPa             | 5.2             |
| DN25                | 145 | 115 | 85  | 68  | 4- 14 | 225 | 2 | 110 | 600 kPa             | 5.4             |
| DN32                | 160 | 140 | 100 | 78  | 4- 18 | 240 | 2 | 140 | 600 kPa             | 7               |
| DN40                | 180 | 150 | 110 | 88  | 4- 18 | 285 | 3 | 170 | 600 kPa             | 14              |
| DN50                | 210 | 165 | 125 | 102 | 4- 18 | 307 | 3 | 170 | 600 kPa             | 16              |
| DN65                | 250 | 185 | 145 | 122 | 4- 18 | 327 | 3 | 200 | 600 kPa             | 22              |
| DN80                | 300 | 200 | 160 | 138 | 8- 18 | 390 | 3 | 230 | 600 kPa             | 31              |
| DN100               | 350 | 220 | 180 | 158 | 8- 18 | 470 | 3 | 230 | 600 kPa             | 50              |
| DN125               | 400 | 250 | 210 | 188 | 8- 18 | 637 | 3 | 310 | 600 kPa             | 65              |

PO5-FP-G : GB STANDARD PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

DIMENSIONS OF PNEUMATIC DIAPHRAGM VALVE DN15-DN125 WITH CL150# END CONNECTION

| ANSI CLASS150LBS END CONNECTION |     |     |       |       |      |     |   |     |                     |                 |
|---------------------------------|-----|-----|-------|-------|------|-----|---|-----|---------------------|-----------------|
| Size                            | L   | D   | D1    | D2    | N-M  | H   | f | W   | Air Supply Pressure | Unit Weight KGs |
| DN15                            | 125 | 90  | 60.3  | 34.9  | 4-16 | 215 | 2 | 110 | 600 kPa             | 5               |
| DN20                            | 135 | 100 | 69.9  | 42.9  | 4-16 | 220 | 2 | 110 | 600 kPa             | 5.2             |
| DN25                            | 145 | 110 | 79.4  | 50.8  | 4-16 | 225 | 2 | 110 | 600 kPa             | 5.4             |
| DN32                            | 160 | 115 | 88.9  | 63.5  | 4-16 | 240 | 2 | 140 | 600 kPa             | 7               |
| DN40                            | 180 | 125 | 98.4  | 73    | 4-16 | 285 | 3 | 170 | 600 kPa             | 14              |
| DN50                            | 210 | 150 | 120.7 | 92.1  | 4-19 | 307 | 3 | 170 | 600 kPa             | 16              |
| DN65                            | 250 | 180 | 139.7 | 104.8 | 4-19 | 327 | 3 | 200 | 600 kPa             | 22              |
| DN80                            | 300 | 190 | 152.4 | 127   | 4-19 | 390 | 3 | 230 | 600 kPa             | 31              |
| DN100                           | 350 | 230 | 190.5 | 157.2 | 8-19 | 470 | 3 | 230 | 600 kPa             | 50              |
| DN125                           | 400 | 255 | 215.9 | 185.7 | 8-22 | 637 | 3 | 310 | 600 kPa             | 65              |

DIMENSIONS OF PNEUMATIC DIAPHRAGM VALVE DN15-DN125 WITH JIS10K END CONNECTION

| JIS 10K END CONNECTION |     |     |     |     |      |     |   |     |                     |                 |
|------------------------|-----|-----|-----|-----|------|-----|---|-----|---------------------|-----------------|
| Size                   | L   | D   | D1  | D2  | N-M  | H   | f | W   | Air Supply Pressure | Unit Weight KGs |
| DN15                   | 125 | 95  | 70  | 51  | 4-12 | 215 | 2 | 110 | 600 kPa             | 5               |
| DN20                   | 135 | 100 | 75  | 56  | 4-14 | 220 | 2 | 110 | 600 kPa             | 5.2             |
| DN25                   | 145 | 125 | 90  | 67  | 4-14 | 225 | 2 | 110 | 600 kPa             | 5.4             |
| DN32                   | 160 | 135 | 100 | 76  | 4-16 | 240 | 2 | 140 | 600 kPa             | 7               |
| DN40                   | 180 | 140 | 105 | 81  | 4-16 | 285 | 3 | 170 | 600 kPa             | 14              |
| DN50                   | 210 | 155 | 120 | 96  | 4-16 | 307 | 3 | 170 | 600 kPa             | 16              |
| DN65                   | 250 | 175 | 140 | 116 | 4-18 | 327 | 3 | 200 | 600 kPa             | 22              |
| DN80                   | 300 | 185 | 150 | 126 | 8-18 | 390 | 3 | 230 | 600 kPa             | 31              |
| DN100                  | 350 | 210 | 175 | 151 | 8-18 | 470 | 3 | 230 | 600 kPa             | 50              |
| DN125                  | 400 | 250 | 210 | 182 | 8-20 | 637 | 3 | 310 | 600 kPa             | 65              |

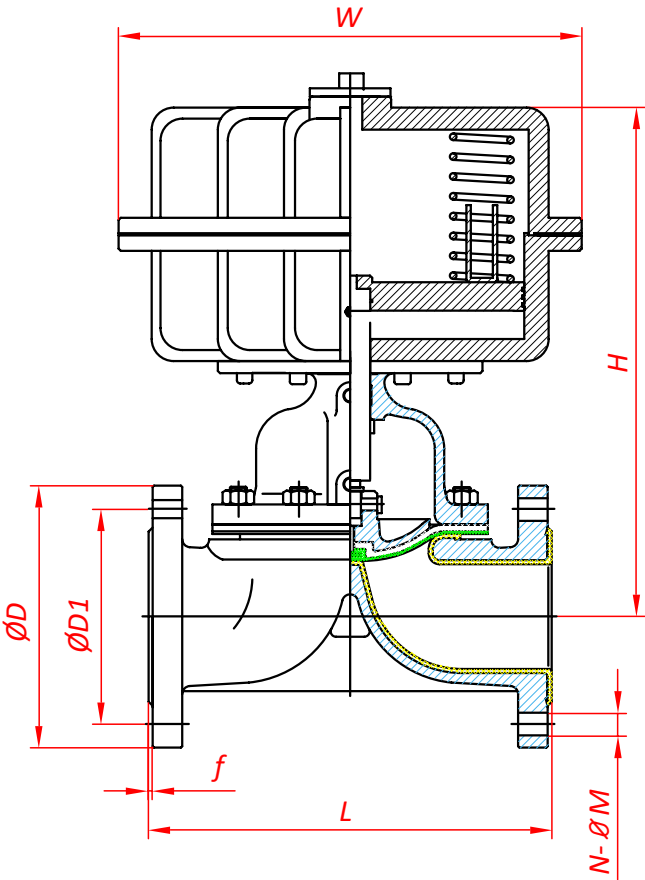


PO5-FP-G : GB STANDARD PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

DIMENSIONS



GB STANDARD FTF LENGTH DIAPHRAGM VALVE  
GB/T 12221



DIMENSIONS OF OF PNEUMATIC DIAPHRAGM VALVE DN150-DN200 WITH PN10 END CONNECTION

| PN10 END CONNECTION |     |     |     |     |      |     |   |     |                     |
|---------------------|-----|-----|-----|-----|------|-----|---|-----|---------------------|
| Size                | L   | D   | D1  | D2  | N-M  | H   | f | W   | Air Supply Pressure |
| DN150               | 460 | 285 | 240 | 212 | 8-22 | 830 | 4 | 370 | 600 kPa             |
| DN200               | 570 | 340 | 295 | 268 | 8-22 | 880 | 4 | 490 | 600 kPa             |

DIMENSIONS OF OF PNEUMATIC DIAPHRAGM VALVE DN150-DN200 WITH CL150# END CONNECTION

| ANSI CLASS150LBS END CONNECTION |     |     |       |       |      |     |   |     |                     |
|---------------------------------|-----|-----|-------|-------|------|-----|---|-----|---------------------|
| Size                            | L   | D   | D1    | D2    | N-M  | H   | f | W   | Air Supply Pressure |
| DN150                           | 460 | 280 | 241.3 | 215.9 | 8-22 | 830 | 4 | 370 | 600 kPa             |
| DN200                           | 570 | 345 | 298.5 | 269.9 | 8-22 | 880 | 4 | 490 | 600 kPa             |

DIMENSIONS OF OF PNEUMATIC DIAPHRAGM VALVE DN150-DN200 WITH JIS10K END CONNECTION

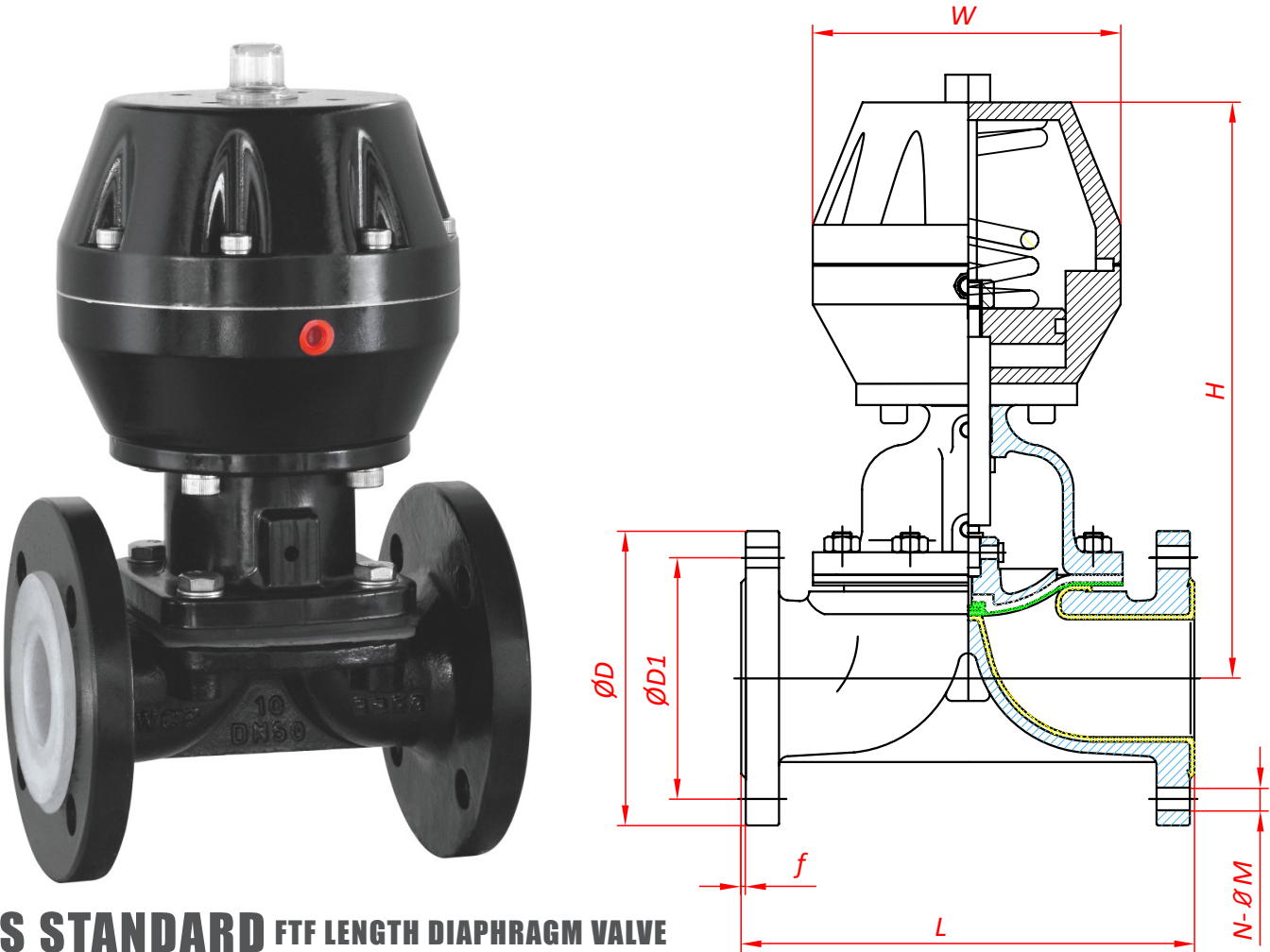
| JIS 10K END CONNECTION |     |     |     |     |       |     |   |     |                     |
|------------------------|-----|-----|-----|-----|-------|-----|---|-----|---------------------|
| Size                   | L   | D   | D1  | D2  | N-M   | H   | f | W   | Air Supply Pressure |
| DN150                  | 460 | 280 | 240 | 212 | 8-22  | 830 | 4 | 370 | 600 kPa             |
| DN200                  | 570 | 330 | 290 | 262 | 12-22 | 880 | 4 | 490 | 600 kPa             |

PO5-FP Series:

PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

PO5-FP-B : BS STANDARD PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

DIMENSIONS



BS STANDARD FTF LENGTH DIAPHRAGM VALVE

BS 5156

DIMENSIONS OF PNEUMATIC DIAPHRAGM VALVE DN15-DN125 WITH PN10 END CONNECTION

| PN10 END CONNECTION |     |     |     |     |       |     |   |     |                     |                 |
|---------------------|-----|-----|-----|-----|-------|-----|---|-----|---------------------|-----------------|
| Size                | L   | D   | D1  | D2  | N-M   | H   | f | W   | Air Supply Pressure | Unit Weight KGs |
| DN15                | 108 | 95  | 65  | 45  | 4- 14 | 215 | 2 | 110 | 600 kPa             | 5               |
| DN20                | 117 | 105 | 75  | 58  | 4- 14 | 220 | 2 | 110 | 600 kPa             | 5.2             |
| DN25                | 127 | 115 | 85  | 68  | 4- 14 | 225 | 2 | 110 | 600 kPa             | 5.4             |
| DN32                | 146 | 140 | 100 | 78  | 4- 18 | 240 | 2 | 140 | 600 kPa             | 7               |
| DN40                | 159 | 150 | 110 | 88  | 4- 18 | 285 | 3 | 170 | 600 kPa             | 14              |
| DN50                | 190 | 165 | 125 | 102 | 4- 18 | 307 | 3 | 170 | 600 kPa             | 16              |
| DN65                | 216 | 185 | 145 | 122 | 4- 18 | 327 | 3 | 200 | 600 kPa             | 22              |
| DN80                | 254 | 200 | 160 | 138 | 8- 18 | 390 | 3 | 230 | 600 kPa             | 31              |
| DN100               | 305 | 220 | 180 | 158 | 8- 18 | 470 | 3 | 230 | 600 kPa             | 50              |
| DN125               | 356 | 250 | 210 | 188 | 8- 18 | 637 | 3 | 310 | 600 kPa             | 65              |

## PO5-FP-B : BS STANDARD PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

### DIMENSIONS OF PNEUMATIC DIAPHRAGM VALVE DN15-DN125 WITH CL150# END CONNECTION

#### ANSI CLASS150LBS END CONNECTION

| Size  | L   | D   | D1    | D2    | N-M  | H   | f | W   | Air Supply Pressure | Unit Weight KGs |
|-------|-----|-----|-------|-------|------|-----|---|-----|---------------------|-----------------|
| DN15  | 108 | 90  | 60.3  | 34.9  | 4-16 | 215 | 2 | 110 | 600 kPa             | 5               |
| DN20  | 117 | 100 | 69.9  | 42.9  | 4-16 | 220 | 2 | 110 | 600 kPa             | 5.2             |
| DN25  | 127 | 110 | 79.4  | 50.8  | 4-16 | 225 | 2 | 110 | 600 kPa             | 5.4             |
| DN32  | 146 | 115 | 88.9  | 63.5  | 4-16 | 240 | 2 | 140 | 600 kPa             | 7               |
| DN40  | 159 | 125 | 98.4  | 73    | 4-16 | 285 | 3 | 170 | 600 kPa             | 14              |
| DN50  | 190 | 150 | 120.7 | 92.1  | 4-19 | 307 | 3 | 170 | 600 kPa             | 16              |
| DN65  | 216 | 180 | 139.7 | 104.8 | 4-19 | 327 | 3 | 200 | 600 kPa             | 22              |
| DN80  | 254 | 190 | 152.4 | 127   | 4-19 | 390 | 3 | 230 | 600 kPa             | 31              |
| DN100 | 305 | 230 | 190.5 | 157.2 | 8-19 | 470 | 3 | 230 | 600 kPa             | 50              |
| DN125 | 356 | 255 | 215.9 | 185.7 | 8-22 | 637 | 3 | 310 | 600 kPa             | 65              |

### DIMENSIONS OF PNEUMATIC DIAPHRAGM VALVE DN15-DN125 WITH JIS10K END CONNECTION

#### JIS 10K END CONNECTION

| Size  | L   | D   | D1  | D2  | N-M  | H   | f | W   | Air Supply Pressure | Unit Weight KGs |
|-------|-----|-----|-----|-----|------|-----|---|-----|---------------------|-----------------|
| DN15  | 108 | 95  | 70  | 51  | 4-12 | 215 | 2 | 110 | 600 kPa             | 5               |
| DN20  | 117 | 100 | 75  | 56  | 4-14 | 220 | 2 | 110 | 600 kPa             | 5.2             |
| DN25  | 127 | 125 | 90  | 67  | 4-14 | 225 | 2 | 110 | 600 kPa             | 5.4             |
| DN32  | 146 | 135 | 100 | 76  | 4-16 | 240 | 2 | 140 | 600 kPa             | 7               |
| DN40  | 159 | 140 | 105 | 81  | 4-16 | 285 | 3 | 170 | 600 kPa             | 14              |
| DN50  | 190 | 155 | 120 | 96  | 4-16 | 307 | 3 | 170 | 600 kPa             | 16              |
| DN65  | 216 | 175 | 140 | 116 | 4-18 | 327 | 3 | 200 | 600 kPa             | 22              |
| DN80  | 254 | 185 | 150 | 126 | 8-18 | 390 | 3 | 230 | 600 kPa             | 31              |
| DN100 | 305 | 210 | 175 | 151 | 8-18 | 470 | 3 | 230 | 600 kPa             | 50              |
| DN125 | 356 | 250 | 210 | 182 | 8-20 | 637 | 3 | 310 | 600 kPa             | 65              |

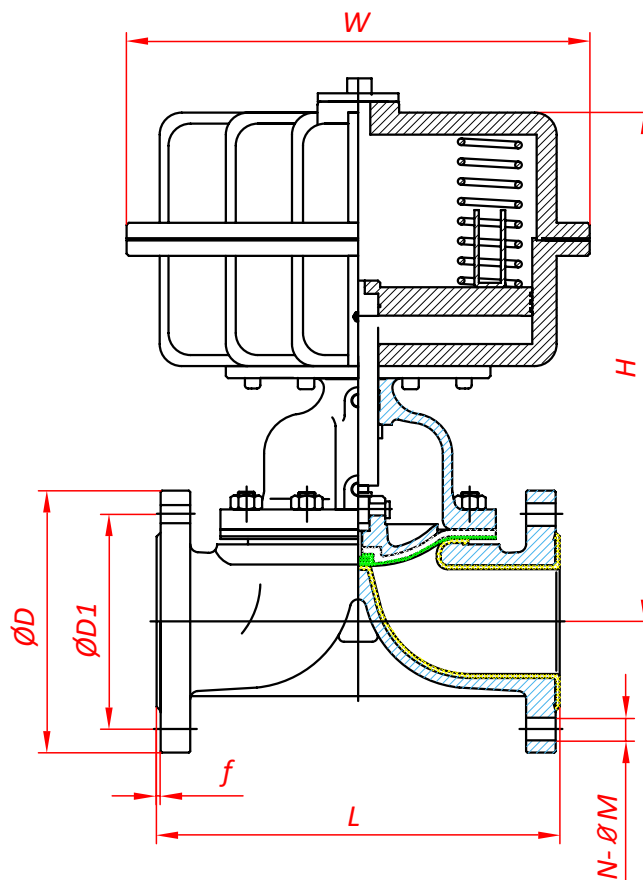


PO5-FP-B : BS STANDARD PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

## DIMENSIONS



**BS STANDARD** FTF LENGTH DIAPHRAGM VALVE  
BS 5156



DIMENSIONS OF OF PNEUMATIC DIAPHRAGM VALVE DN150-DN200 WITH PN10 END CONNECTION

## PN10 END CONNECTION

| Size  | L   | D   | D1  | D2  | N-M  | H   | f | W   | Air Supply Pressure |
|-------|-----|-----|-----|-----|------|-----|---|-----|---------------------|
| DN150 | 406 | 285 | 240 | 212 | 8-22 | 830 | 4 | 370 | 600 kPa             |
| DN200 | 521 | 340 | 295 | 268 | 8-22 | 880 | 4 | 490 | 600 kPa             |

DIMENSIONS OF OF PNEUMATIC DIAPHRAGM VALVE DN150-DN200 WITH CL150# END CONNECTION

## ANSI CLASS150LBS END CONNECTION

| Size  | L   | D   | D1    | D2    | N-M  | H   | f | W   | Air Supply Pressure |
|-------|-----|-----|-------|-------|------|-----|---|-----|---------------------|
| DN150 | 406 | 280 | 241.3 | 215.9 | 8-22 | 830 | 4 | 370 | 600 kPa             |
| DN200 | 521 | 345 | 298.5 | 269.9 | 8-22 | 880 | 4 | 490 | 600 kPa             |

DIMENSIONS OF OF PNEUMATIC DIAPHRAGM VALVE DN150-DN200 WITH JIS10K END CONNECTION

## JIS 10K END CONNECTION

| Size  | L   | D   | D1  | D2  | N-M   | H   | f | W   | Air Supply Pressure |
|-------|-----|-----|-----|-----|-------|-----|---|-----|---------------------|
| DN150 | 406 | 280 | 240 | 212 | 8-22  | 830 | 4 | 370 | 600 kPa             |
| DN200 | 521 | 330 | 290 | 262 | 12-22 | 880 | 4 | 490 | 600 kPa             |

### PO5-FP Series: PNEUMATIC OPERATED TEFLON LINED DIAPHRAGM VALVE

#### ACCESSORY

#### SOLENOID VALVE : ON-OFF CONTROL

##### POT521/321 SOLENOID VALVE:

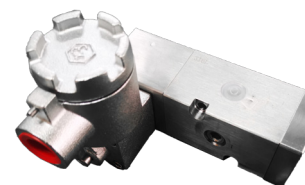
- Type: POT521 : 5-Way-2-Position (Double Acting)  
POT321 : 3-Way-2-Position (Single Acting)
- Power Supply: 12/24/48VDC  
110/210/220/240VAC
- Material: Alu-Alloy / Stainless steel 316
- Explosion-Proof: Common / Exd II CT6 / Exia IIC T4



COMMON ALU-MATERIAL TYPE



EXPLOSION-PROOF TYPE



SS316 TYPE



#### LIMIT SWITCH : ON-OFF POSITION FEEDBACK

##### POP110/112/113 LIMIT SWITCH:

- Type: POP110 : Mechanical Switches 2x SPDT  
POP112 : Proximity Switches 2x P+F NCB2-V3-N0 Ex ia IIC T6  
POP113 : Proximity Switches, Dry Contact, NPN/PNP -3 Wires
- Power Supply: 24VDC (POP112 Max Supply Voltage 8V, use with Safety Barrier)

#### INTELLIGENT POSITIONER : 4-20mA MODULATING CONTROL

##### PO1500/1600 INTELLIGENT POSITIONER:

- Type: 4-20mA Input Signal  
4-20mA Feedback (optional)
- Power Supply: 24VDC
- Material: POLYAMIDE



#### HANDWHEEL MANUAL OVERRIDE

##### TOP-MOUNTED HANDWHEEL:

- Material: CAST IRON