

# ON/OFF Valves

## Series VPOO

Heavy Duty valve 2 way

# BUROCCO

## INDUSTRIAL VALVES srl

### Technical data

|                 |  |
|-----------------|--|
| Size (DN)       | DN 15 — 150                                    |
| Pressure rating | PN16, PN40<br>ANSI 300                         |
| Connections     | Flanges UNI/DIN PN16, PN40<br>Flanges ANSI 300 |
| Type sealing    | Metallic (Class IV - V), soft (Class VI)       |
| Characteristic  | Equalpercentage (eqp%)                         |
| Action          | Pneumatic with piston (supply max 10 bar)      |
| Temperature     | -196 to +350 °C                                |

### Description

The Series VPOO "Heavy Duty" ON/OFF valve offers superior performance in nearly all types in liquid and gaseous services within a wide temperature range. Due to the modular body construction the valves can easily be upgraded to special applications. The Series VPOO is the industry choice for a reliable and tough ON/OFF valve. All Burocco valves are delivered as tested units and ready for a long lasting, maintenance free operation.

### Options

- ⇒ Characteristic on/off
- ⇒ **Soft seal**
- ⇒ High temperature extension (finned bonnet)
- ⇒ Extension (- 60 / - 100 °C)
- ⇒ Cryogenic extension (- 196 °C)
- ⇒ Bellows seal (double wall PN16, triple wall PN40)
- ⇒ Flanges drilling ANSI 150, (face to face) and rating UNI/DIN
- ⇒ Full stainless steel actuator and yoke for corrosive environment
- ⇒ 3-way (diverting) valves (see brochure VPOO/3)
- ⇒ Handwheel for emergency operation
- ⇒ Valve positioners
- ⇒ Limit switches
- ⇒ Position feedback
- ⇒ Airset



### Flow rate coefficient (CV)

| DN  | CV  | KVs  |
|-----|-----|------|
| 15  | 4   | 3,5  |
| 20  | 7   | 6    |
| 25  | 12  | 10   |
| 32  | 18  | 15,5 |
| 40  | 28  | 24   |
| 50  | 48  | 41   |
| 65  | 72  | 61,5 |
| 80  | 105 | 90   |
| 100 | 160 | 136  |
| 150 | 300 | 256  |

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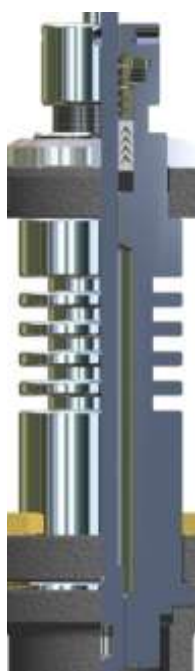
|                    |   |
|--------------------|---|
| Materials          |   |
| Valve body *       | Nodular cast iron GGG 40 (PN16)<br>Carbon steel ASTM A216WCB<br>Stainless steel ASTM CF8M |
| Trim (plug - seat) | 316L / 17-4PH / 316L+Stellite /<br>Hastelloy / Monel                                      |
| Stem               | 316L / Hastelloy / Monel  |
| Packing            | PTFE, PTFE/CG, graphite, special  |
| Body gasket        | SIL C4500, NOVAPHIT, PTFE, special  |
| Acuator            | Stainless steel   |
| Yoke               | GGG 40 (epoxy varnish), stainless steel   |

\* Special body material on request

Bonnet specifications (temperatures limit employment )



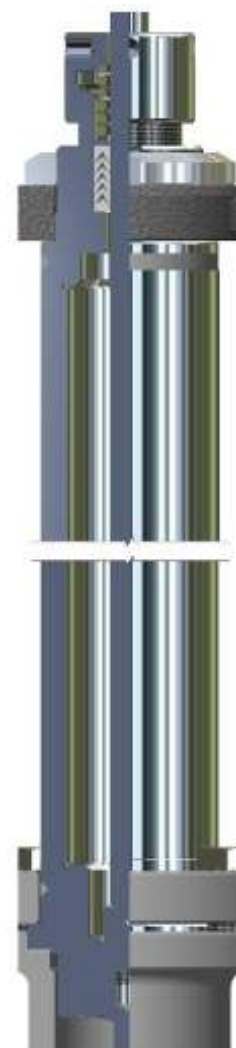
Standar (-30°C / +250 °C)



Finned (-30°C / +350 °C)



Bellows (-100°C / +350 °C)



Criogenic (-196°C / +180 °C)

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Dimensions (mm) and weight (kg) serie VPOO - UNI/DIN PN16/40



| Type actuator with piston |            |
|---------------------------|------------|
| Ø SERV                    | D (mm)     |
| S82                       | 122        |
| S118                      | 165        |
| S136                      | 185        |
| S153                      | 215        |
| S235                      | On request |

Dimensions (mm)

| DN  | A   | B   | C          |                       |                        |                        |                        |            | D          | E          |
|-----|-----|-----|------------|-----------------------|------------------------|------------------------|------------------------|------------|------------|------------|
|     |     |     | Standard   | -60 °C<br>(extension) | -100 °C<br>(extension) | -200 °C<br>(criogenic) | High.Temp.<br>(finned) | Bellows    |            |            |
| 15  | 130 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122        | 190        |
| 20  | 150 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122        | 190        |
| 25  | 160 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 32  | 180 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 40  | 200 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 50  | 230 | 100 | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 65  | 290 | 137 | 341        | 403                   | 478                    | 773                    | 426                    | 447        | 165 / 185  | 216 / 242  |
| 80  | 310 | 137 | 341        | 403                   | 478                    | 773                    | 426                    | 447        | 165 / 185  | 216 / 242  |
| 100 | 350 | 159 | 361        | 423                   | 498                    | 793                    | 446                    | 467        | 185 / 215  | 242 / 292  |
| 150 | 480 | 233 | On request | On request            | On request             | On request             | On request             | On request | On request | On request |

Indicative weight\*

| DN | 15   | 20 | 25        | 32        | 40        | 50        | 65      | 80      | 100       | 150        |
|----|------|----|-----------|-----------|-----------|-----------|---------|---------|-----------|------------|
| kg | 15,5 | 17 | 18 / 21,5 | 20,5 / 24 | 21 / 24,5 | 29 / 32,5 | 49 / 53 | 53 / 57 | 69,5 / 74 | On request |

\* without positioner, airset or other accessories

Extra weight with bonnet extension

| DN     | -60 / -100 °C | -200 °C | High Temp. | Bellows    |
|--------|---------------|---------|------------|------------|
| 15-50  | + 2           | + 3,5   | + 1        | + 1,5      |
| 65-100 | + 2           | + 4     | + 3        | + 2        |
| 150    | + 5           | + 15    | + 10       | On request |

Burocco reserves the right to make improvements without prior notice 01/13

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Dimensions (mm) and weight (kg) serie VPOO - ANSI 300



Type actuator with piston

| Ø SERV | D (mm)     |
|--------|------------|
| S82    | 122        |
| S118   | 165        |
| S136   | 185        |
| S153   | 215        |
| S235   | On request |

Dimensions (mm)

| DN  | A   | B   | C          |                       |                        |                        |                        |            | D          | E          |
|-----|-----|-----|------------|-----------------------|------------------------|------------------------|------------------------|------------|------------|------------|
|     |     |     | Standard   | -60 °C<br>(extension) | -100 °C<br>(extension) | -200 °C<br>(criogenic) | High.Temp.<br>(finned) | Bellows    |            |            |
| 25  | 197 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 40  | 235 | 96  | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 50  | 267 | 100 | 314        | 376                   | 451                    | 746                    | 400                    | 420        | 122 / 165  | 190 / 206  |
| 80  | 318 | 137 | 341        | 403                   | 478                    | 773                    | 426                    | 447        | 165 / 185  | 216 / 242  |
| 100 | 368 | 159 | 361        | 423                   | 498                    | 793                    | 446                    | 467        | 185 / 215  | 242 / 292  |
| 150 | 473 | 233 | On request | On request            | On request             | On request             | On request             | On request | On request | On request |

Indicative weight\*

| DN | 25        | 40        | 50        | 80      | 100       | 150        |
|----|-----------|-----------|-----------|---------|-----------|------------|
| kg | 18,5 / 22 | 22 / 25,5 | 30 / 33,5 | 54 / 58 | 71,5 / 76 | On request |

\* without positioner, airset or other accessories

Extra weight with bonnet extension

| DN     | -60 / -100 °C | -200 °C | High Temp. | Bellows    |
|--------|---------------|---------|------------|------------|
| 25-50  | + 2           | + 3,5   | + 1        | + 1,5      |
| 80-100 | + 2           | + 4     | + 3        | + 2        |
| 150    | + 5           | + 15    | + 10       | On request |

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