

## MONDIAL CHECK VALVES WITH BRASS OBTURATOR

CONNECTIONS: INLET FEMALE - OUTLET FEMALE



### DESCRIPTION

This uncontrollable check valve **MONDIAL** is a security device which operates automatically to prevent back flow into the main networks, thus avoiding contamination in a water distribution system. This phenomenon presents itself after suspending the water supply in the water distribution system, which creates a flow inversion. The check valve, when installed between the public main water supply and that of the user in a water distribution system, precludes contact between the water in both networks by closing automatically whenever a back flow is detected. This same valve is likewise utilized in heating plants for that same reason. Passage of fluids flowing in a single direction separates the obturator from its own seat, thus opening the valve. Inversely, if the fluid should flow back, it would force the obturator against the seat and consequently the valve would remain closed, preventing any passage. The obturator is made of a disc which moves linearly, which is guided by two pins forming a single body with the disc itself, upon which is assembled a sealing gasket. The reduced friction of the obturator and the precision of the internal works minimize the head loss. The check valve can be installed at any point on conditioning plants, heating systems, sanitary installations for water supply outside buildings, according to EN 805, irrigation systems and compressed air distribution systems. This product adheres to the standards set forth by the European health authorities for the transport of alimentary fluids and potable water

### TECHNICAL FEATURES

#### Pressure:

|                                          |                  |
|------------------------------------------|------------------|
| maximum allowed pressure 3/8" ÷ 1" (PN)  | 25 bar           |
| maximum allowed pressure 1"1/4 ÷ 2" (PN) | 16 bar           |
| maximum allowed pressure 2"1/2 ÷ 4" (PN) | 10 bar           |
| Δp closure non-return                    | 2 kPa (0,02 bar) |

#### Temperature:

|                          |                              |
|--------------------------|------------------------------|
| maximum temperature (TS) | 0°C (excluding ice) ÷ 110 °C |
|--------------------------|------------------------------|

#### Compatible fluids:

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| heat transfer fluids          | in compliance with Italian national standards UNI 8065 § 6 |
| glycolate solutions           | 50% glycol                                                 |
| hydrocarbons and mineral oils |                                                            |

#### Threading:

|                      |                                |
|----------------------|--------------------------------|
| pipeline connections | threads according to ISO 228/1 |
|----------------------|--------------------------------|

#### Requirements and tests as per:

test P11 - EN 12266-1

### DESIGN

|              |                                            |
|--------------|--------------------------------------------|
| Body         | brass EN12165 - CW617N                     |
| Seat gaskets | NBR rubber                                 |
| Obturator    | brass EN 12164 - CW614N                    |
|              | stainless steel EN 10088-1.4301 (AISI 304) |
|              | stainless steel EN 10088-1.4310 (AISI 302) |
| Spring       |                                            |

### PRODUCT CODES

|          |                     |       |          |                     |       |
|----------|---------------------|-------|----------|---------------------|-------|
| 2154.912 | female inlet/outlet | 3/8"  | 2154.942 | female inlet/outlet | 1"1/2 |
| 2154.915 | female inlet/outlet | 1/2"  | 2154.950 | female inlet/outlet | 2"    |
| 2154.920 | female inlet/outlet | 3/4"  | 2154.966 | female inlet/outlet | 2"1/2 |
| 2154.925 | female inlet/outlet | 1"    | 2154.980 | female inlet/outlet | 3"    |
| 2154.933 | female inlet/outlet | 1"1/4 | 2154.995 | female inlet/outlet | 4"    |

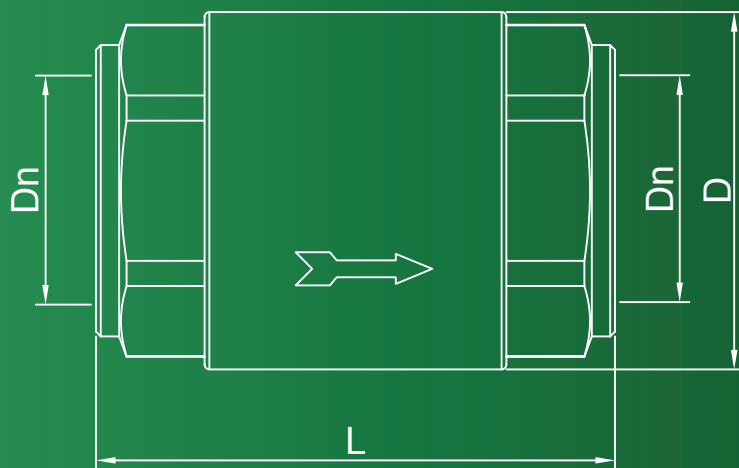


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# 2154.9 • 3/8"÷4"

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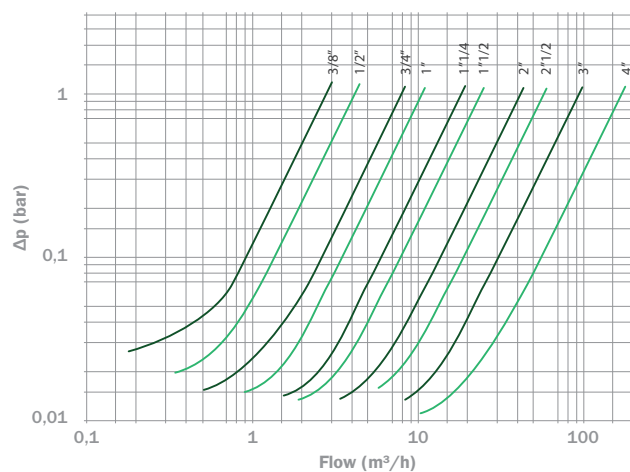
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### FEATURES

| Dn    | Pn | D    | L   |
|-------|----|------|-----|
| 3/8"  | 25 | Ø31  | 45  |
| 1/2"  | 25 | Ø34  | 58  |
| 3/4"  | 25 | Ø41  | 65  |
| 1"    | 25 | Ø48  | 74  |
| 1"1/4 | 16 | Ø60  | 83  |
| 1"1/2 | 16 | Ø71  | 93  |
| 2"    | 16 | Ø87  | 101 |
| 2"1/2 | 10 | Ø104 | 104 |
| 3"    | 10 | Ø125 | 113 |
| 4"    | 10 | Ø155 | 132 |

### HEAD LOSS



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