Port size: 1/4 NPT, 1/2 NPT

Suitable for marine, offshore, food processing and dental applications. Model for precision regulation and high flow rates.

Reliable and long life, ideal for one time installation.

**Technical features**

**Medium:** Compressed air

**Operating pressure:** 20 bar (290 psi) maximum

**Outlet pressure range:**
- Standard: 0,5 ... 10 bar (7 ... 145 psi)
- Optional: 0,5 ... 6/16 bar (7 ... 87/232 psi)

**Flow characteristics:** See page 2

**Element:**
- Standard: 40 ... 50 μm
- Optional: 5 ... 10 μm, 20 ... 30 μm

**Drain:**
- Manual or automatic

**Fluid/Ambient temperature:**
- Standard: -30 ... +90°C (-22 ... +194°F)
- Optional: -55 ... +90°C (-67 ... +194°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

**Materials:**
- Valve body, top & bottom covers, valve trim: 316 stainless steel
- Seat and spring: stainless steel
- O-rings, seals and diaphragm: NBR

See option selector for variants.

**Technical data, standard model, relieving**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Outlet pressure *1)</th>
<th>Element (μm)</th>
<th>Flow *2) (dm³/s)</th>
<th>Drain</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 NPT</td>
<td>0,5 ... 10</td>
<td>40 ... 50</td>
<td>65</td>
<td>Manual</td>
<td>1,80</td>
<td>YR2ACA1H0BS040</td>
<td></td>
</tr>
<tr>
<td>1/2 NPT</td>
<td>0,5 ... 10</td>
<td>40 ... 50</td>
<td>160</td>
<td>Manual</td>
<td>2,20</td>
<td>YR2ACA3H0BS040</td>
<td></td>
</tr>
</tbody>
</table>

*1) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*2) Typical flow with 10 bar (145 psi) inlet pressure, 6,3 bar (91 psi) set pressure and a 1 bar (14 psi) drop from set.

**Option selector**

Outlet pressure range | Substitute
--- | ---
0,5 ... 10 bar (standard) | A
0,5 ... 18 bar | B
0,5 ... 6 bar | E

Operation options | Substitute
--- | ---
Filter/regulator unit automatic drain | A
Filter only automatic drain | B
Filter/regulator unit manual drain | C
Filter only manual drain | F
Regulator only automatic drain | R
Regulator only manual drain | M

Port size | Substitute
--- | ---
1/4 NPT (standard) | A1
G1/4 | E1
1/2 NPT (standard) | A3
G1/2 | E3

Seat/seal materials | Substitute
--- | ---
NBR (standard) | H
FKM | V
Low temperature variant (-55 ... 90°C) | L

Filter element | Substitute
--- | ---
40 ... 50 μm (standard) | 40
20 ... 30 μm | 20
5 ... 10 μm | 05

Mounting | Substitute
--- | ---
With mounting bracket (standard) | B
None | N

Gauge | Substitute
--- | ---
None (standard) | 0
304/316SS dry, bar & psi units | 1
304/316SS, Glycerine, bar & psi units | 2
304/316SS dry, psi & kPa units | 3
316/316SS dry, bar & psi units | 4
316/316SS, Glycerine, bar & psi units | 5
Flow characteristics

1/4"

1/2"

Dimensions

Bracket mounting kit

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under «Technical features/data».

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Thompson Valves Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2005 - 8169f) © IMI Precision Engineering, Thompson Valves Ltd.

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