**General Description**

Direct Acting Poppet-Type Relief Valve. For additional information see Technical Tips on pages PC1-PC6.

**Features**

- Fast response with good stability
- Virtually leak-free
- Hardened working parts for maximum durability
- Adjustable, preset and tamperproof versions available
- Preset version is tamperproof and compact
- All external parts zinc plated

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>100 LPM (26 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure H - P</td>
<td>5-210 Bar (72-3000 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>420 Bar (6000 PSI)</td>
</tr>
<tr>
<td>Maximum Tank Pressure</td>
<td>420 Bar (6000 PSI)</td>
</tr>
<tr>
<td>Leakage at 150 SSU (32 cSt)</td>
<td>5 drops/min. @ 100 Bar (1450 PSI)</td>
</tr>
<tr>
<td>Cartridge Material</td>
<td>All parts steel. All operating parts hardened steel.</td>
</tr>
<tr>
<td>Operating Temp. Range/Seals</td>
<td>-40°C to +93.3°C (Nitrile) (-40°F to +200°F)</td>
</tr>
<tr>
<td>Fluid Compatibility/Viscosity</td>
<td>Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)</td>
</tr>
<tr>
<td>Filtration</td>
<td>ISO Code 16/13, SAE Class 4 or better</td>
</tr>
<tr>
<td>Approx. Weight</td>
<td>0.28 kg (0.62 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C10-2 (See BC Section for more details)</td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher None Finisher NFT10-2F</td>
</tr>
</tbody>
</table>

**Performance Curves**

(Pressure rise through cartridge only)

**Flow vs. Inlet Pressure**

![Graph showing pressure drop vs. flow]
Direct Acting Relief Valve
Series A04B2

Catalog HY15-3502/US

Technical Information

Dimensions  Millimeters (Inches)

- 5 AF Hex socket
- 21.8 (0.86) max
- 59 (2.32)
- 31.8 (1.25)
- 17 AF Hex. 12 Nm (9 lb. ft.) Torque
- 26 AF Hex. 50 Nm (37 lb. ft.) Torque
- 7/8" - 14 UNF

Ordering Information

A04B2

10 Size Direct Acting Relief Valve
Pressure Adjustment Range
Adjustment Style
Optional Pressure Setting
Seals
Body Material
Port Size

Code | Pressure Adjustment Range
--- | ---
H | 5 - 210 Bar (72 - 3000 PSI)
P | 5 - 420 Bar (72 - 6000 PSI)

Code | Seal Kit No.
--- | ---
N | Nitrile, Buna-N (Std.) / (SK30503H-1)
V | Fluorocarbon / (SK30503V-1)

Code | Body Material
--- | ---
Omit | Steel
A | Aluminum

Code | Port Size | Body Part No.
--- | --- | ---
Omit | Cartridge Only
4P | 1/4" NPTF (B10-2-*4P)
5P | 3/8" NPTF (B10-2-*5P)
8P | 1/2" NPTF (B10-2-*8P)
6T | SAE-6 (B10-2-*6T)
8T | SAE-8 (B10-2-*8T)
T8T | SAE-8 (B10-2-T8T)†
6B | 3/8" BSPG (B10-2-6B)†

Optional Pressure Setting
Specify setting if required (Bar)
Y Setting must be specified
A04B2H Standard Setting: 100 Bar (1450 PSI) @ 15 LPM (4.0 GPM)
A04B2P Standard Setting: 200 Bar (2900 PSI) @ 15 LPM (4.0 GPM)

* Add "A" for aluminum, omit for steel.
† Steel body only.