General Description
Pilot Operated Spool-Type Relief Valve
For additional information see Technical Tips on pages PC1-PC6.

Features
- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided pilot for more consistent reseat
- Steel adapters are coated with yellow zinc dichromate for protection from salt spray
- Polyurethane "D"-Ring eliminates backup rings and prevents hydrolysis
- Internal screening protects pilot spring from debris

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>75.8 LPM (20 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>380 Bar (5500 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Maximum Tank Pressure</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Reseat Pressure</td>
<td>90% of crack pressure</td>
</tr>
<tr>
<td>Leakage at 150 SSU (32 cSt)</td>
<td>5 cc per 100 PSI (6.8 Bar) setting</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>-45°C to +93.3°C (&quot;D&quot;-Ring)</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>.09 kg (.20 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C08-2</td>
</tr>
<tr>
<td>(See BC Section for more details)</td>
<td></td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher Finisher None NFT08-2F</td>
</tr>
</tbody>
</table>

Performance Curves

Flow vs. Inlet Pressure
(Pressure rise through cartridge only)
Pilot Operated Relief Valve

Series RAH081

Technical Information

Dimensions  Millimeters (Inches)

Screw/Knob Version  Fixed Cap/Tamper Resistant Version

Ordering Information

RAH081

08 Size  Pilot Operated Relief Valve
Adjustment Style
Pressure Range
Seals
Optional Pressure Setting
Body Material
Port Size

Code  Adjustment Style / Kit No.
F  Fixed, preset at factory.
K  Knob Adjust (717784-10)
S  Screw Adjust
T  Tamper Resistant Cap (717943)

Code  Pressure Range
10  6.9 - 69 Bar (100 - 1000 PSI)
  Standard Setting: 34.5 Bar (500 PSI) @ crack pressure, approximately .95 LPM (.25 GPM)
  Optional Pressure Setting:
  Pressure + 10
  i.e. 235 + 2350 PSI
  (Omit if standard setting is used)
  Setting Range: 100 to 5000 PSI
  All settings at crack pressure, approximately .95 LPM (.25 GPM)

20  6.9 - 138 Bar (100 - 2000 PSI)
  Standard Setting: 69 Bar (1000 PSI) @ crack pressure, approximately .95 LPM (.25 GPM)

30  13.8 - 207 Bar (200 - 3000 PSI)
  Standard Setting: 103.5 Bar (1500 PSI) @ crack pressure, approximately .95 LPM (.25 GPM)

50  13.8 - 345 Bar (200 - 5000 PSI)
  Standard Setting: 172.4 Bar (2500 PSI) @ crack pressure, approximately .95 LPM (.25 GPM)

Code  Seals / Kit No.
Omit
D-Ring / (SK08-2)
N  Nitrile / (SK08-2N)
V  Fluorocarbon / (SK08-2V)

Code  Body Material
Omit
Steel
A  Aluminum

Code  Port Size  Body Part No.
4P  Cartridge Only
1/4" NPTF  (B08-2-"4P"
6P  3/8" NPTF  (B08-2-"6P"
4T  SAE-4  (B08-2-"4T"
6T  SAE-6  (B08-2-"6T"
6B  3/8" BSPG  (B08-2-"6B"

* Add "A" for aluminum, omit for steel.
General Description
Pilot Operated Spool-Type Relief Valve
For addition information see Technical Tips on pages PC1-PC6.

Features
- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided poppet for more consistent reseat
- Steel adapters are coated with yellow zinc dichromate for protection from salt spray
- Polyurethane "D"-Ring eliminates backup rings and prevents hydrolysis
- Internal screening protects pilot spring from debris

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>113 LPM (30 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>380 Bar (5500 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Maximum Tank Pressure</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Reseat Pressure</td>
<td>90% of crack pressure</td>
</tr>
<tr>
<td>Leakage at 150 SSU (32 cSt)</td>
<td>5 cc per 100 PSI (6.8 Bar) setting</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>-45°C to +93.3°C (&quot;D&quot;-Ring) (-50°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°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>.23 kg (.50 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 Finisher None NFT10-2F</td>
</tr>
</tbody>
</table>

Performance Curves
Flow vs. Inlet Pressure
(Pressure rise through cartridge only)
Pilot Operated Relief Valve
Series RAH101

Technical Information

Dimensions  Millimeters (Inches)

<table>
<thead>
<tr>
<th>Code</th>
<th>Pressure Range</th>
<th>Standard Setting</th>
<th>Optional Pressure Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6.9 - 69 Bar (100 - 1000 PSI)</td>
<td>34.5 Bar (500 PSI) @ crack pressure, approximately 95 LPM (.25 GPM)</td>
<td>Pressure = 10 i.e. 235 = 2350 PSI (Omit if standard setting is used) Setting Range: 100 to 5000 PSI All settings at crack pressure, approximately 95 LPM (.25 GPM)</td>
</tr>
<tr>
<td>20</td>
<td>6.9 - 138 Bar (100 - 2000 PSI)</td>
<td>69 Bar (1000 PSI) @ crack pressure, approximately 95 LPM (.25 GPM)</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>13.8 - 207 Bar (200 - 3000 PSI)</td>
<td>138 Bar (1500 PSI) @ crack pressure, approximately 95 LPM (.25 GPM)</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>13.8 - 345 Bar (200 - 5000 PSI)</td>
<td>172.4 Bar (2500 PSI) @ crack pressure, approximately 95 LPM (.25 GPM)</td>
<td></td>
</tr>
</tbody>
</table>

Ordering Information

Code  Adjustment Style / Kit No.
F  Fixed style, preset at factory.
K  Knob Adjust (717784-10)
S  Screw Adjust
T  Tamper Resistant Cap (718083)

Optional Pressure Setting
Pressure = 10 i.e. 235 = 2350 PSI (Omit if standard setting is used) Setting Range: 100 to 5000 PSI All settings at crack pressure, approximately 95 LPM (.25 GPM)

Code  Seals / Kit No.
Omit 
"D"-Ring / (SK10-2)
N  Nitrile / (SK10-2N)
V  Fluorocarbon / (SK10-2V)

Code  Body Material
Omit  Steel
A  Aluminum

Code  Port Size  Body Part No.
Omit  Cartridge Only
4P  1/4" NPTF  (B10-2-4P)
6P  3/8" NPTF  (B10-2-6P)
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)

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

SH
CV
PC
LM
LE
DC
MV
SV
BV
CE
BC
TD

Parker Hannifin Corporation
Hydraulic Cartridge Systems

PC38
General Description
Pilot Operated Spool-Type Relief Valve. For additional information see Technical Tips on pages PC1-PC6.

Features
- Low override curve
- Ball-type pilot for added stability
- High accuracy - pilot operated design
- Hardened, precision ground parts for durability
- Compact size for reduced space requirements
- All external parts have yellow zinc dichromate. This coating is ideal for salt spray applications.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>189.5 LPM (50 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>380 Bar (5500 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Reseat Pressure</td>
<td>80% of crack pressure</td>
</tr>
<tr>
<td>Leakage at 150 SSU (32 cSt)</td>
<td>82 cc/min. (5 cu. in./min.) @ 75% of crack pressure</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></td>
<td>-31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°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>.22 kg (.48 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C12-2</td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher None Finisher NFT12-2F</td>
</tr>
</tbody>
</table>

Performance Curve
Flow vs. Inlet Pressure
(Pressure rise through cartridge only)

![Performance Curve Graph]
**Dimensions**  Millimeters (Inches)

```
35.7 (1.41)  
37.4 (1.47)  
38.1 (1.50) Dia. Knob  
38.7 (1.52)  
39.3 (1.55)  
1-1/16-12 UNF-2A Thread  
1-1/4" Hex.  
40.1 (.158)  
```

**Ordering Information**

**RAH121**

<table>
<thead>
<tr>
<th>Code</th>
<th>Adjustment Style / Kit No.</th>
<th>Seals / Kit No.</th>
<th>Optional Pressure Setting</th>
<th>Body Material</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Fixed style, preset at factory.</td>
<td>Omit Nitrile / (SK12-2)</td>
<td>Pressure = 10 i.e. 225 = 2250 PSI (Omit if standard setting is used)</td>
<td>Steel</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>Knob Adjust (717784-15)</td>
<td>V Fluorocarbon / (SK12-2V)</td>
<td>Setting Range: 100 to 5000 PSI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Screw Adjust</td>
<td></td>
<td>All settings at 11.3 LPM (3 GPM)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>Tamper Resistant Cap (717785)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Code | Pressure Range**

| 10 | 6.9 - 69 Bar (100 - 1000 PSI) Standard Setting: 34.5 Bar (500 PSI) @ 11.3 LPM (3 GPM) |
| 20 | 13.8 - 138 Bar (200 - 2000 PSI) Standard Setting: 69 Bar (1000 PSI) @ 11.3 LPM (3 GPM) |
| 30 | 20.7 - 207 Bar (300 - 3000 PSI) Standard Setting: 103.5 Bar (1500 PSI) @ 11.3 LPM (3 GPM) |
| 50 | 34.5 - 345 Bar (500 - 5000 PSI) Standard Setting: 172.4 Bar (2500 PSI) @ 11.3 LPM (3 GPM) |

* Add "A" for aluminum, omit for steel.*
General Description
Pilot Operated Spool-Type Relief Valve. For additional information see Technical Tips on pages PC1-PC6.

Features
- Low override curve
- Ball-type pilot for added stability
- High accuracy - pilot operated design
- Hardened, precision ground parts for durability
- Compact size for reduced space requirements
- All external parts have yellow zinc dichromate. This coating is ideal for salt spray applications.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Flow</td>
<td>302.8 LPM (80 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>380 Bar (5500 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Maximum Tank Pressure</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Reseat Pressure</td>
<td>80% of crack pressure</td>
</tr>
<tr>
<td>Leakage at 150 SSU (32 cSt)</td>
<td>5 cc per 100 PSI (6.8 Bar) setting</td>
</tr>
<tr>
<td>Cartridge Material</td>
<td>All parts steel. All operating parts hardened steel.</td>
</tr>
<tr>
<td>Operating Temp. Range (Ambient)</td>
<td>-40°C to +93.3°C (Nitrile) (-40°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°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>0.9 kg (2.0 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C16-2 (See BC Section for more details)</td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher Finisher None NFT16-2F</td>
</tr>
</tbody>
</table>

Performance Curve
Flow vs. Inlet Pressure
(Pressure rise through cartridge only)
Pilot Operated Relief Valve
Series RAH161

Dimensions  Millimeters (Inches)

Ordering Information

RAH161

16 Size Pilot Operated Relief Valve

Code | Adjustment Style / Kit No.
--- | ---
F | Fixed style, preset at factory.
K | Knob Adjust (717784-15)
S | Screw Adjust
T | Tamper Resistant Cap (717785)

Code | Pressure Range
--- | ---
10 | 6.9 - 69 Bar (100 - 1000 PSI)
   | 34.5 Bar (500 PSI)
   | @ 37.5 LPM (10 GPM)
20 | 13.8 - 138 Bar (200 - 2000 PSI)
   | 69 Bar (1000 PSI)
   | @ 37.5 LPM (10 GPM)
30 | 20.7 - 207 Bar (300 - 3000 PSI)
   | 103.5 Bar (1500 PSI)
   | @ 37.5 LPM (10 GPM)
50 | 34.5 - 345 Bar (500 - 5000 PSI)
   | 172.4 Bar (2500 PSI)
   | @ 37.5 LPM (10 GPM)

Optional Pressure Setting
Pressure = 10
i.e. 225 = 2250 PSI
(If standard setting is used)
Setting Range:
100 to 5000 PSI
All settings at 37.5 LPM (10 GPM)

Code | Seals / Kit No.
--- | ---
Omit | Nitrile / (SK16-2)
V | Fluorocarbon / (SK16-2V)

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

Code | Port Size | Body Part No.
--- | --- | ---
12P | 3/4" NPTF (B16-2-*12P)
16P | 1" NPTF (B16-2-*16P)
8T | SAE-8 (B16-2-*8T)
12T | SAE-12 (B16-2-*12T)
16T | SAE-16 (B16-2-*16T)
12B | 3/4" BSPG (B16-2-12B)†
16B | 1" BSPG (B16-2-16B)

† Steel body only.

* Add “A” for aluminum, omit for steel.
Catalog HY15-3502/US

Technical Information

Pilot Operated Relief Valve
Series A06G2

General Description
Pilot Operated, Spool-Type Relief Valve. For additional information see Technical Tips on pages PC1-PC6.

Features
- Very high flow capacity
- Minimal pressure variation with flow change
- Full tank line back pressure capability, ideal for crossline relief applications
- Integral 250 micron pilot flow filter
- Hardened working parts for maximum durability
- Adjustable and tamperproof versions available
- All external parts zinc plated

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>400 LPM (106 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>H - 10-210 Bar (145-3000 PSI)</td>
</tr>
<tr>
<td></td>
<td>P - 10-420 Bar (145-6000 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>100 ml/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)</td>
</tr>
<tr>
<td></td>
<td>(-40°F to +200°F)</td>
</tr>
<tr>
<td></td>
<td>-31.7°C to +121.1°C (Fluorocarbon)</td>
</tr>
<tr>
<td></td>
<td>(-25°F to +250°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>0.57 kg (1.26 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C16-2 (See BC Section for more details)</td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher Finisher None NFT16-2F</td>
</tr>
</tbody>
</table>

Performance Curve
(Pressure rise through cartridge only)

Flow vs. Inlet Pressure

![Performance Curve Graph](image)
Pilot Operated Relief Valve
Series A06G2

Technical Information

Dimensions  Millimeters (Inches)

Ordering Information

A06G2

16 Size Pilot Operated Relief Valve
Pressure Adjustment Range  Adjustment Style  Optional Pressure Setting  Seals  Body Material  Port Size

Code Pressure Adjustment Range
H 10 - 210 Bar (145 - 3000 PSI)
P 10 - 420 Bar (145 - 6000 PSI)

Code Adjustment Style / Kit No.
Z Screw Adjust (Std.)
W Knob Adjust
T Tamper Resistant Cap (TC1130)

Optional Pressure Setting
Specify setting if required (Bar)
A06G2H Standard Setting:
100 Bar (1450 PSI)
@ 15 LPM (4.0 GPM)
A06G2P Standard Setting:
200 Bar (2900 PSI)
@ 15 LPM (4.0 GPM)

Code Seals / Kit No.
N Nitrile, Buna-N (Std.) / (SK30507N-1)
V Fluorocarbon / (SK30507V-1)

Code Body Material
Omit Steel
A Aluminum

Code Port Size  Body Part No.
0mit Cartridge Only
12P 3/4" NPTF (B16-2-*12P)
16P 1" NPTF (B16-2-*16P)
8T SAE-8 (B16-2-*8T)
12T SAE-12 (B16-2-*12T)
16T SAE-16 (B16-2-*16T)
12B 3/4" BSPG (B16-2-12B)
16B 1" BSPG (B16-2-16B)

* Add “A” for aluminum, omit for steel.
† Steel body only.
General Description

Pilot Operated Spool-Type Relief Valve. For additional information see Technical Tips on pages PC1-PC6.

Features

- Low override curve
- Ball-type pilot for added stability
- High accuracy - pilot operated design
- Hardened, precision ground parts for durability
- Compact size for reduced space requirements
- All external parts have yellow zinc dichromate. This coating is ideal for salt spray applications.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>379 LPM (100 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>380 Bar (5500 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Maximum Tank Pressure</td>
<td>350 Bar (5000 PSI)</td>
</tr>
<tr>
<td>Reseat Pressure</td>
<td>80% of crack pressure</td>
</tr>
<tr>
<td>Leakage at 150 SSU</td>
<td>5 cc per 100 PSI (6.8 Bar) setting</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></td>
<td>-31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°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>0.9 kg (2.0 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C20-2</td>
</tr>
<tr>
<td></td>
<td>(See BC Section for more details)</td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher Finisher None NFT20-2F</td>
</tr>
</tbody>
</table>

Performance Curve

Flow vs. Inlet Pressure

(Pressure rise through cartridge only)
Dimensions  Millimeters (Inches)

<table>
<thead>
<tr>
<th>Code</th>
<th>Pressure Range</th>
<th>Adjustable Cap/Tamper Resistant Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6.9 - 69 Bar (100 - 1000 PSI)</td>
<td>1-7/8&quot; Hex. 133 Nm (98 lb. ft.) Torque</td>
</tr>
<tr>
<td>20</td>
<td>13.8 - 138 Bar (200 - 2000 PSI)</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>20.7 - 207 Bar (300 - 3000 PSI)</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>34.5 - 345 Bar (500 - 5000 PSI)</td>
<td></td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>RAH201</th>
<th>20 Size Pilot Operated Relief Valve</th>
<th>Adjustment Style / Kit No.</th>
<th>Pressure Range</th>
<th>Seals</th>
<th>Optional Pressure Setting</th>
<th>Body Material</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>F</td>
<td>Fixed style, preset at factory.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>K</td>
<td>Knob Adjust (717784-15)</td>
<td></td>
<td></td>
<td>Steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S</td>
<td>Screw Adjust</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>T</td>
<td>Tamper Resistant Cap (717785)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Optional Pressure Setting

Pressure + 10
i.e. 235 = 2360 PSI
(Omit if standard setting is used)
Setting Range:
100 to 5000 PSI
All settings at 37.5 LPM (10 GPM)
**General Description**

Kick-Down, Pilot Operated Relief Valve. For additional information see Technical Tips on pages PC1-PC6.

**Features**
- High flow capacity
- Integral 250 micron pilot flow filter
- Hardened working parts for maximum durability
- Adjustable and tamper resistant versions available
- All external parts zinc plated

**Specifications**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Flow</td>
<td>160 LPM (42 GPM)</td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td>420 Bar (6000 PSI)</td>
</tr>
<tr>
<td>Maximum Pressure Setting</td>
<td>H - 10-210 Bar (145-3000 PSI)</td>
</tr>
<tr>
<td></td>
<td>P - 10-420 Bar (144-6000 PSI)</td>
</tr>
<tr>
<td>Maximum Tank Pressure</td>
<td>420 Bar (6000 PSI)</td>
</tr>
<tr>
<td>Sensitivity: Pressure/Turn</td>
<td>H - 30 Bar (435 PSI)</td>
</tr>
<tr>
<td></td>
<td>P - 55 Bar (800 PSI)</td>
</tr>
<tr>
<td>Leakage at 150 SSU (32 cSt)</td>
<td>25 ml/min. @ 50 Bar (725 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)</td>
</tr>
<tr>
<td></td>
<td>(-40°F to +200°F)</td>
</tr>
<tr>
<td></td>
<td>-31.7°C to +121.1°C (Fluorocarbon)</td>
</tr>
<tr>
<td></td>
<td>(-25°F to +250°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>0.29 kg (0.64 lbs.)</td>
</tr>
<tr>
<td>Cavity</td>
<td>C10-2</td>
</tr>
<tr>
<td></td>
<td>(See BC Section for more details)</td>
</tr>
<tr>
<td>Form Tool</td>
<td>Rougher None</td>
</tr>
</tbody>
</table>

**Performance Curve**

(Pressure rise through cartridge only)

**Application Note**

Valve unloads completely when setting is reached and resets when fluid supply is removed.
Technical Information

Series A04K2

Dimensions  Millimeters (Inches)

Ordering Information

A04K2 [ ] [ ] [ ] [ ] [ ]

10 Size Kick-Down Relief Valve  Pressure Adjustment Range  Adjustment Style  Optional Pressure Setting  Seals  Body Material  Port Size

Code Pressure Adjustment Range
H 10 - 210 Bar (145 - 3000 PSI)
P 10 - 420 Bar (145 - 6000 PSI)

Code Adjustment Style / Kit No.
Z Screw Adjust (Std.)
W Knob Adjust
T Tamper Resistant Cap (TC1130)

Optional Pressure Setting
Specify setting if required (Bar)
A04K2H Standard Setting: 100 Bar (1450 PSI)
A04K2P Standard Setting: 200 Bar (2900 PSI)

Code Seals / Kit No.
N Nitrile, Buna-N (Std.) / (SK30503N-1)
V Fluorocarbon / (SK30503V-1)

Code Body Material
Omit Steel
A Aluminum

Code Port Size Body Part No.
0mit Cartridge Only
4P 1/4" NPTF (B10-2-4P)
6P 3/8" NPTF (B10-2-6P)
8P 1/2" NPTF (B10-2-8P)
6T SAE-6 (B10-2-6T)
8T SAE-8 (B10-2-8T)
T& SAE-8 (B10-2-T8T)†
6B 3/8" BSPP (B10-2-6B)†

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