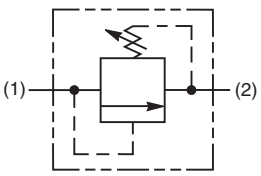
## General Description

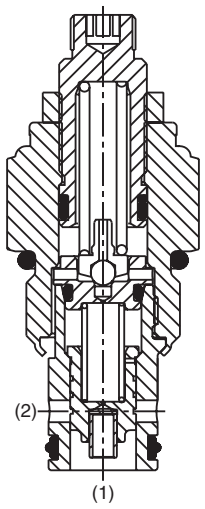
Pilot Operated Spool-Type Relief Valve.
For addition information see Technical Tips on pages PC3-PC7.

## Features

- Hardened, precision ground parts for durability
- Low profile adapter for minimal space requirements
- Fully guided poppet for more consistent reseat
- Steel adapters are zinc plated
- Polyurethane “D”-Ring eliminates backup rings and prevents hydrolysis
- Internal screening protects pilot spring from debris





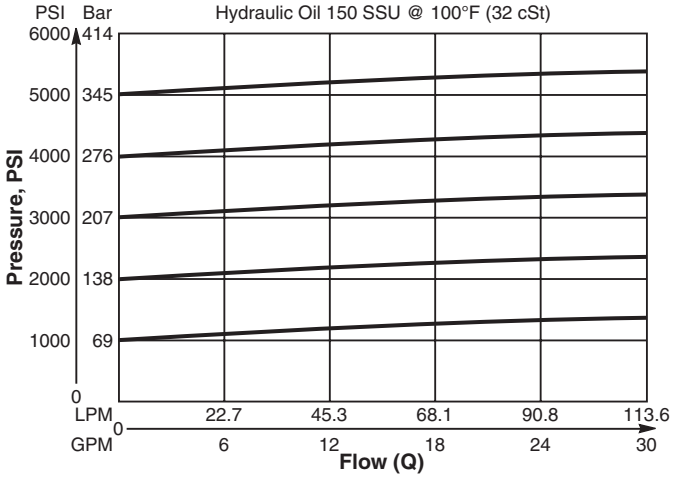

## Specifications

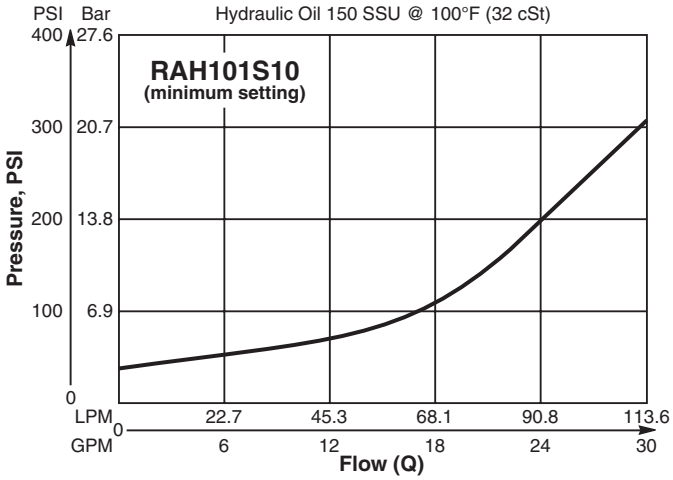
| | |
|---|---|
| Rated Flow | 113 LPM (30 GPM) |
| Maximum Inlet Pressure | 350 Bar (5000 PSI) |
| Maximum Pressure Setting | 350 Bar (5000 PSI) |
| Sensitivity: Pressure/Turn | **10** 19.6 Bar (285 PSI)<br>**30** 58.9 Bar (859 PSI)<br>**50** 131.7 Bar (1910 PSI) |
| Maximum Tank Pressure | 350 Bar (5000 PSI) |
| Reseat Pressure | 90% of crack pressure |
| Leakage at 150 SSU (32 cSt) | 5 cc per 6.8 Bar (100 PSI) setting |
| Cartridge Material | All parts steel. All operating parts hardened steel. |
| Operating Temp. Range/Seals | -37°C to +93°C (“D”-Ring)<br>(-35°F to +200°F)<br>-34°C to +121°C (Nitrile)<br>(-30°F to +250°F)<br>-26°C to +204°C (Fluorocarbon)<br>(-15°F to +400°F) |
| Fluid Compatibility/ Viscosity | Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt) |
| Filtration | ISO-4406 18/16/13, SAE Class 4 |
| Approx. Weight | 0.23 kg (0.50 lbs.) |
| Cavity | C10-2<br>(See BC Section for more details) |

## Performance Curves

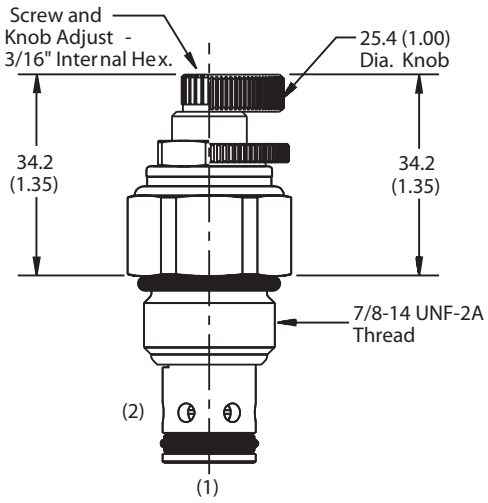
### Flow vs. Inlet Pressure

(Pressure rise through cartridge only)

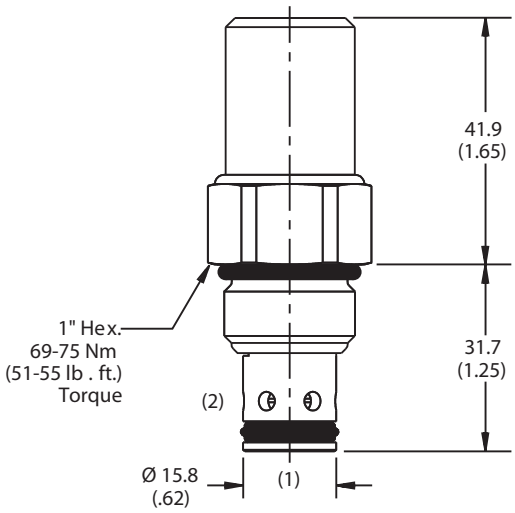


## Dimensions Millimeters (Inches)




Screw/Knob Version




Tamper Resistant Version

## Ordering Information

| RAH101 | S | |
|---|---|---|
| 10 Size Pilot Operated Relief Valve | Adjustment Style | Pressure Range |

**Highlighted** represents preferred options that offer the shortest lead times. Other options may be available, but at extended lead times.

| Code | Adjustment Style |
|---|---|
| S | Screw Adjust |

| Code | Seals |
|---|---|
| Omit | D-Ring |

| 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) |
| 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) |

| Kit | Part Number |
|---|---|
| Knob | 717784-10 |
| Tamper Resistant Cap | 717083 |
| D-Ring Seal | SK10-2 |
| Nitrile Seal | SK10-2 |
| Fluorocarbon Seal | SK10-2V |

*Order Bodies Separately*
*See section BC*

| B10 | – | 2 | – | 8T |
|---|---|---|---|---|
| 10 size | | 2-Way Cavity | | Port Size |

| Code | Porting / Body Material |
|---|---|
| 8T | SAE-8 / Steel (5000 PSI) |