

**CONFIGURATION**

|               |                  |  |
|---------------|------------------|--|
| <b>L</b>      | Control          | Standard Screw Adjustment                                      |
| <b>C</b>      | Adjustment Range | 18 - 50 psi (1,2 - 3,5 bar), 50 psi (3,5 bar) Standard Setting |
| <b>N</b>      | Seal Material    | Buna-N   |
| <b>(none)</b> | Material/Coating | Standard Material/Coating                                      |

Direct-acting relief cartridges are normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise.

**TECHNICAL DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

|  |                         |
|--|-------------------------|
| Cavity   | T-3A                    |
| Series   | 2                       |
| Capacity   | 200 L/min.              |
| Factory Pressure Settings Established at               | 15 L/min.               |
| Max. Op. Press.  | 350 bar                 |
| Maximum Valve Leakage at 110 SUS (24 cSt)              | 50 cc/min.@70 bar       |
| Response Time - Typical                                | 10 ms                   |
| Adjustment - No. of CW Turns from Min. to Max. setting | 6                       |
| Valve Hex Size   | 28,6 mm                 |
| Valve Installation Torque                              | 61 - 68 Nm              |
| Adjustment Screw Internal Hex Size                     | 4 mm                    |
| Locknut Hex Size                                       | 15 mm                   |
| Locknut Torque   | 9 - 10 Nm               |
| Seal kit - Cartridge                                   | Buna: 990203007         |
| Seal kit - Cartridge                                   | EPDM: 990203014         |
| Seal kit - Cartridge                                   | Polyurethane: 990003002 |
| Seal kit - Cartridge                                   | Viton: 990203006        |
| Model Weight   | 0.25 kg.                |

**NOTES** For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

**CONFIGURATION OPTIONS**

**Model Code Example: RGFALCN**

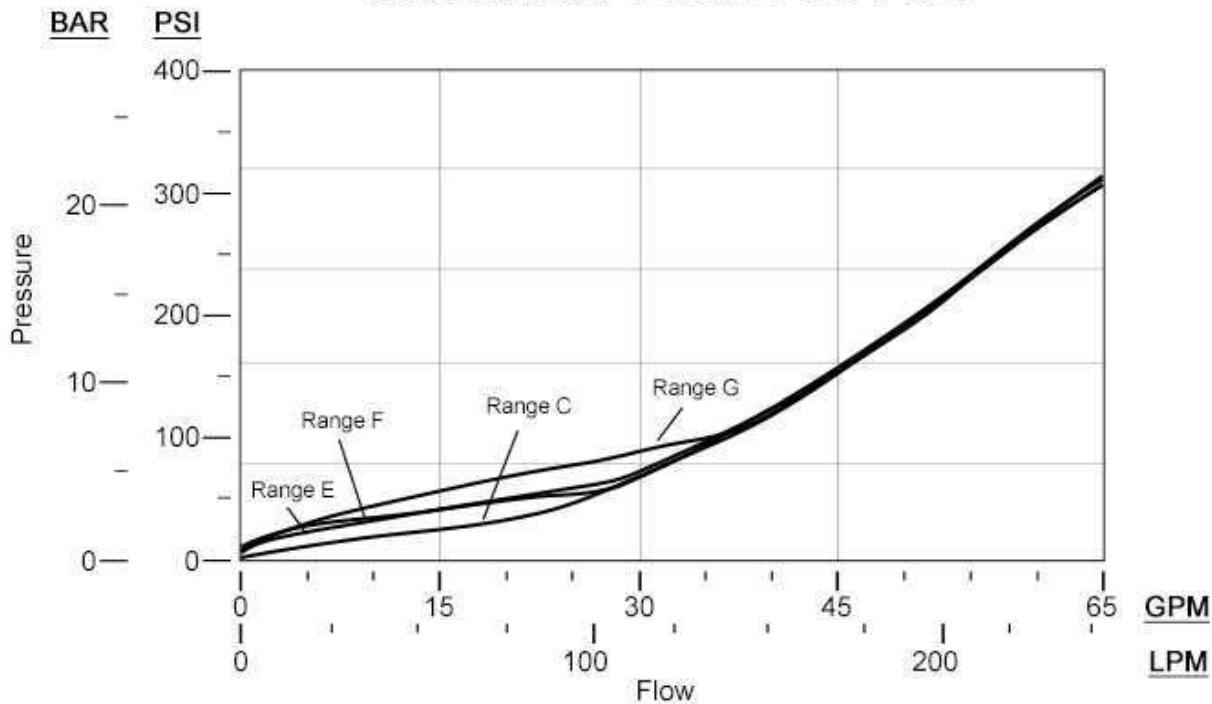
| <b>CONTROL</b>                          | <b>(L) ADJUSTMENT RANGE</b>   | <b>(C) SEAL MATERIAL</b> | <b>(N) MATERIAL/COATING</b>     |
|---|---|--------------------------|---------------------------------|
| <b>L</b> Standard Screw Adjustment      | <b>C</b> 18 - 50 psi (1,2 - 3,5 bar), 50 psi (3,5 bar) Standard Setting   | <b>N</b> Buna-N          | Standard Material/Coating       |
| <b>C</b> Tamper Resistant - Factory Set | <b>E</b> 20 - 75 psi (1,4 - 5 bar), 75 psi (5 bar) Standard Setting       | <b>E</b> EPDM            | /AP Stainless Steel, Passivated |
| <b>K</b> Handknob                       | <b>F</b> 35 - 80 psi (2,4 - 5,5 bar), 80 psi (5,5 bar) Standard Setting   | <b>V</b> Viton           |                                 |
| <b>O</b> Handknob with Panel Mount      | <b>G</b> 30 - 150 psi (2 - 10,5 bar), 150 psi (10,5 bar) Standard Setting |                          |                                 |

## TECHNICAL FEATURES

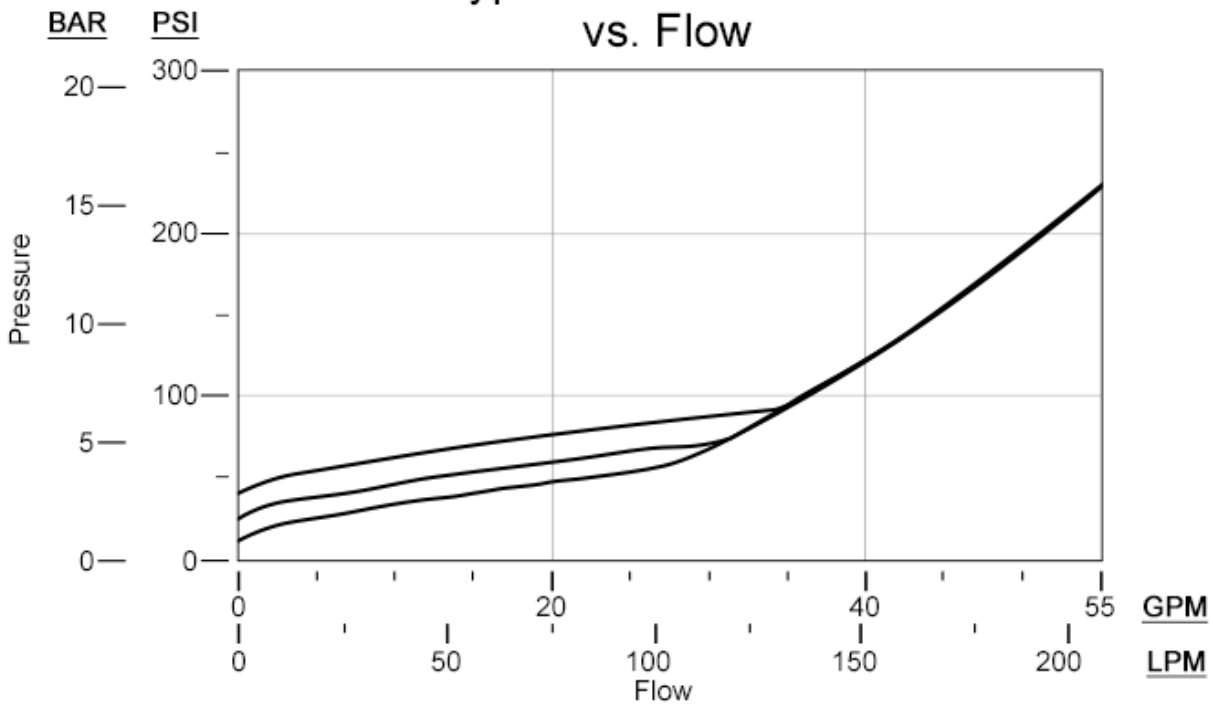
- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.
- Not suitable for use in load holding applications due to spool leakage.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

## PERFORMANCE CURVES

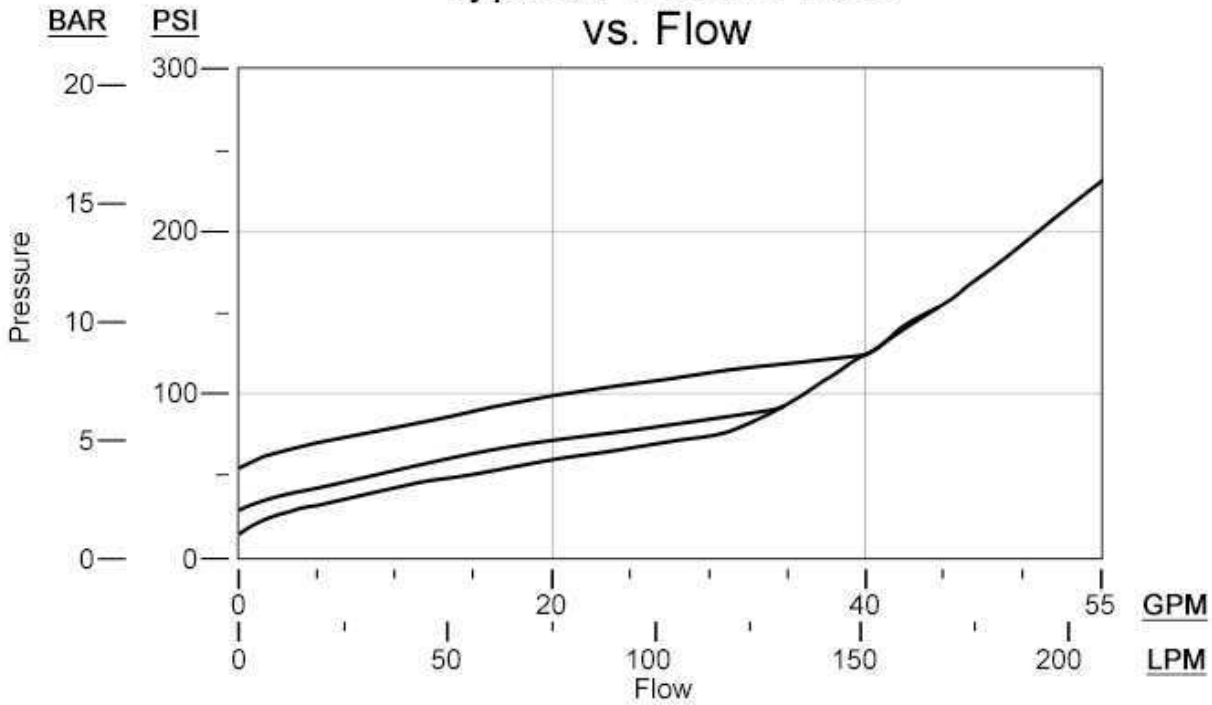
RGFA L\*N  
Differential Pressure vs. Flow



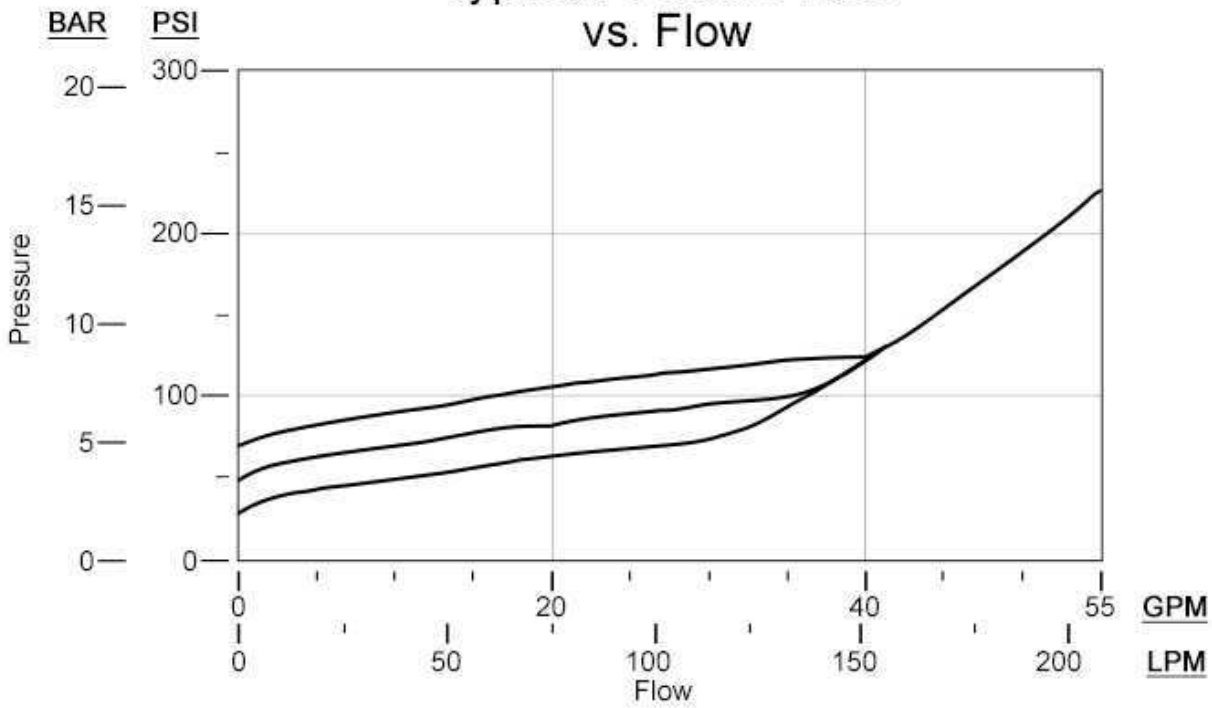
### RGFA LCN Typical Pressure Rise vs. Flow



### RGFA LEN Typical Pressure Rise vs. Flow



### RGFA LFN Typical Pressure Rise vs. Flow



### RGFA LGN Typical Pressure Rise vs. Flow

