



Kick-down relief cartridges act similar to a circuit breaker in an electrical system. The valves will kick completely open and remain open once the pressure at the inlet (port 1) exceeds the valve setting, creating an unrestricted flow path from port 1 to tank (port 2). The valve remains open as long as the pressure at port 1 exceeds the pressure at port 2. To reset the valve, flow from port 1 to port 2 must cease and pressure at port 2 must be equal to or greater than the pressure at port 1.

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

| | |
|--|----------------------------------|
| Maximum Operating Pressure | 5000 psi |
| Factory Pressure Settings Established at | Kick down point |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 2 in ³ /min.@1000 psi |
| Response Time - Typical | 25 ms |
| Adjustment - No. of CW Turns from Min. to Max. setting | 5 |
| Locknut Hex Size | 9/16 in. |
| Locknut Torque | 80 - 90 lbf in. |
| Seal kit - Cartridge | Buna: 990-162-007 |
| Seal kit - Cartridge | Polyurethane: 990-162-002 |
| Seal kit - Cartridge | Viton: 990-162-006 |

NOTES: • Do not use in load holding applications.

CONFIGURATION OPTIONS

Model Code Example: RQCBLAN

| CONTROL | (L) ADJUSTMENT RANGE | (A) SEAL MATERIAL (N) |
|---|--|-----------------------|
| L Standard Screw Adjustment | A 75 - 3000 psi (5 - 210 bar), 1000 psi (70 bar) Standard Setting | N Buna-N |
| C Tamper Resistant - Factory Set | B 75 - 1500 psi (5 - 105 bar), 1000 psi (70 bar) Standard Setting | V Viton |
| K Handknob | C 75 - 6000 psi (5 - 420 bar), 1000 psi (70 bar) Standard Setting | |
| | N 75 - 800 psi (5 - 55 bar), 400 psi (28 bar) Standard Setting | |
| | Q 75 - 400 psi (5 - 28 bar), 200 psi (14 bar) Standard Setting | |
| | W 75 - 4500 psi (5 - 315 bar), 1000 psi (70 bar) Standard Setting | |