



Hydraulically controlled, pilot-operated, balanced piston relief cartridges use an external pilot signal instead of an adjustable spring to control the pressure setting. The hydraulic signal is supplied through a port in the hex-end of the cartridge and is amplified at a ratio of 12:1. They are normally closed pressure regulating valves. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to regulate the pressure.

These valves are meant to amplify the signal from pilot controls such as joysticks. These valves are accurate, have low pressure rise vs. flow, they are smooth, quiet, and are moderately fast.

TECHNICAL DATA

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

Pilot Ratio	12:1
Factory Pressure Settings Established at	15 L/min.
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	65 cc/min.@70 bar
Maximum Pilot Pressure	40 bar
Response Time - Typical	10 ms
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006

CONFIGURATION OPTIONS

Model Code Example: RSHHBWN

CONTROL	(B) OPERATING RANGE	(W) SEAL MATERIAL	(N)
B External 4-SAE Port	W 150 - 4500 psi (10,5 - 315 bar)	N Buna-N	V Viton