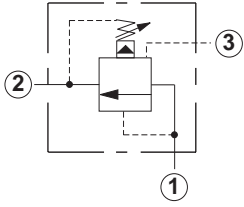


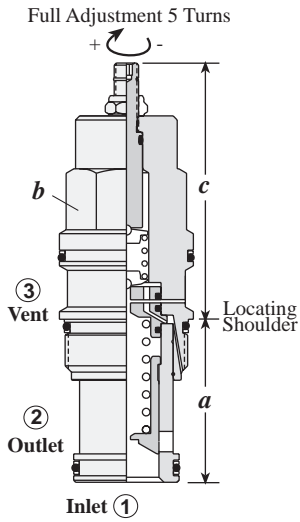
Relief Valves

PILOT OPERATED WITH VENT



Capacity	Typical Cartridge Model Code	Cavity	Cartridge Dimensions					Installation Torque (Nm)
			a	b	c			
					L	C	K	
30 L/min.	RVBA – LAN	T - 163A	31	19,1	65	67	71	35/40
60 L/min.	RVCA – LAN	T - 11A	34,9	22,2	64	66	70	40/50
120 L/min.	RVEA – LAN	T - 2A	34,9	28,6	72	74	78	60/70
240 L/min.	RVGA – LAN	T - 17A	46	31,8	84	86	90	200/215
480 L/min.	RVIA – LAN	T - 19A	63,5	41,3	100	104	107	465/500

OPTION ORDERING INFORMATION



RV * A - * * *

Nominal Capacity	Control**	Adjustment Range	Seal
B 30 L/min.*	L Standard Screw	A 7 - 210 bar	N Buna-N
C 60 L/min.	C Tamper Resistant	W 10 - 315 bar	V Viton
E 120 L/min.	K Handknob	B 3,5 - 105 bar	
G 240 L/min.		C 10 - 420 bar	
I 480 L/min.		N 4 - 55 bar	
		Q 4 - 25 bar	

Adjustment Range Options:
 A, B, C, and W are standard set at 70 bar.
 N Option is standard set at 25 bar.
 Q Option is standard set at 14 bar.
 * Minimum setting 5 bar on all ranges.
Customer may specify pressure setting.

** See page 244 for information on Control Options

TECHNICAL TIPS / PERFORMANCE CURVES

Relief Valves, Pilot Operated with Vent

Applications

Ventable, pilot operated relief valves incorporate an additional port for remote control.

- To provide remote adjustment of the main cartridge through the use of the **RBAC-***** pilot cartridge or other suitable device.
- To unload the main relief valve by opening the vent port with a 2-way solenoid valve (**DAAA-*****). Normal relief operation is activated by blocking the bypass pilot flow.

Design Concepts and Features

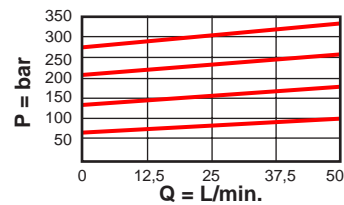
- Incorporates 150 micron stainless steel screen to protect the main stage control orifice.
- Low leakage, 50 to 115 cc/min./100 bar, dependent on frame size.
- Control pilot flow 0,15 to 0,35 L/min., dependent on frame size.
- Low hysteresis, less than $\pm 1\%$
- Low pressure drop when unloaded.

Note: Any pressure at port 2 is additive to the pressure setting of the valve. If absolute system pressure must be regulated at port 1 and variable pressure is present at port 2, consider using the 4 port **RV*D-***** series where an independent drain port is provided.

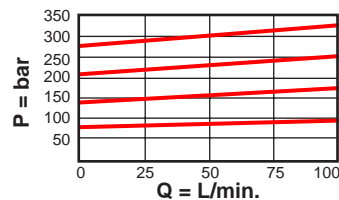
Performance Curves

Typical Pressure Rise

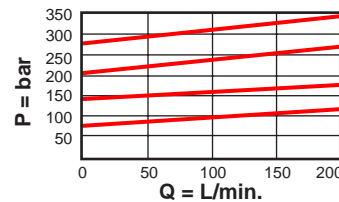
RVBA-L*N



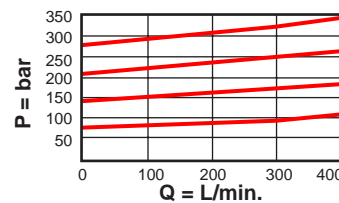
RVCA-L*N



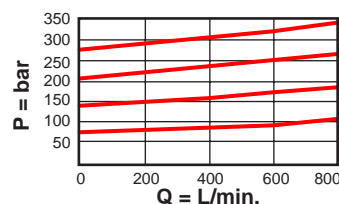
RVEA-L*N



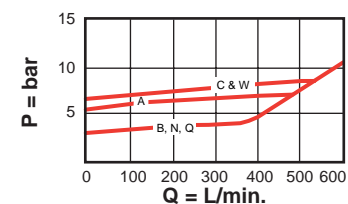
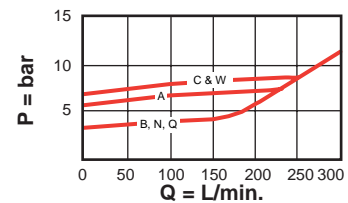
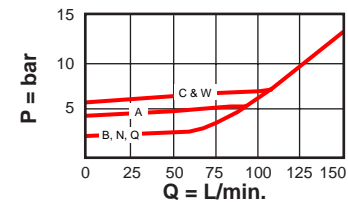
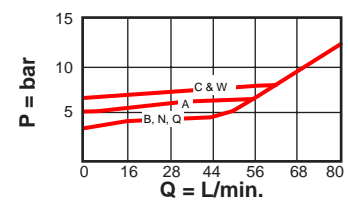
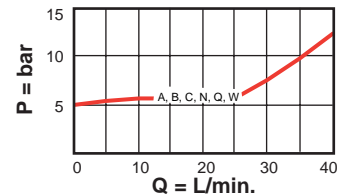
RVGA-L*N



RVIA-L*N



Vented Pressure



General Application Requirements

- Operating Temperature Range: Buna-N seals -45°C to 90°C , Viton seals -15°C to 120°C .
- Viscosity Range: 10-600 centistokes.
- Fluid Contamination Level: ISO 4406 18/15 or better; Recommend $\beta_{10} \geq 75$ to achieve ISO 18/15 or better in most systems.
- Factory Pressure Setting for cartridge is established at a 15 L/min. flow rate.