

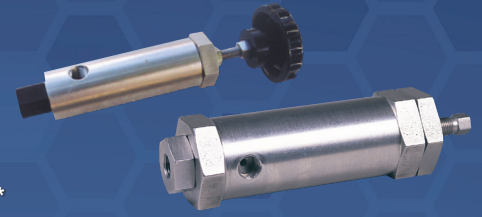


# HIGH PRESSURE COMPONENTS

## PRESSURE RELIEF VALVES

### High Pressure, Low Flow

These valves are direct operated, differential poppet, dry spring chamber design. All ports can accept full working pressure permitting their use also as a sequence valve or back pressure controller regulator (BPR). Wetted alloys are stainless steel. Dynamic seals are UHMWPE. Static seals are Buna. Optional: Viton add-V, EPR add-E. Wrench flats are standard on adjusting screws.\*



Model No.	Service		Seat	Adjustable Range (PSI)	Orifice Dia (in.)	Port	Remarks	Symbols
	Relief	BPR						
*RVL-60	Liquid	Liquid or Gas	Stainless	100 thru 6,000	.070	1/4 NPT	Not bubble tight	
*RVG-60	Gas	Gas	Nylon				Bubble tight	
*RVL-100	Liquid	Liquid or Gas	Stainless	1,000 thru 10,000		1/4 NPT	Not bubble tight	
*RVG-100	Gas	Gas	Nylon				Bubble tight	
*RVLS-60	Liquid	Liquid or Gas	Stainless	200 thru 6,000		1/4 Super Pressure	Not bubble tight	
*RVGS-60	Gas	Gas	Nylon				Bubble tight	
*RVLS-100	Liquid	Liquid or Gas	Stainless	1,000 thru 10,000		1/4 Super Pressure	Not bubble tight	
*RVGS-100	Gas	Gas	Nylon				Bubble tight	
*RV-300	Liquid or Gas		Stainless	3,000 thru 30,000	1/4 Super Pressure	Not bubble tight		
*RV-600				10,000 thru 60,000				
*RV-30K Double Seal	Liquid or Gas		Stainless	3,000 thru 30,000	1/4 Super Pressure	Not bubble tight		

\*Plastic knob optional at extra cost on RVL or RVG models only. Specify with suffix "H" (e.g. RVL-100H).

## PILOT CUTOFF VALVES

### Sense Liquid or Gas Pressures. Provide Air Signal.

These valves perform a function similar to a pressure switch. The sensing piston or plunger movement is spring or air adjusted. When the sensed pressure is reached, a small, integral air valve shifts position cutting off, or providing, a pilot air signal. Useful for start/stop control of various pneumatically piloted devices such as HII pumps, valves and boosters. Maximum air valve pressure is 120 PSI. Sensing section alloys are stainless steel. Buna static seal standard, optional: Viton add-V, EPR add-E. (e.g. PCV-E002E).



Model No.	Adjusted By	Sensing			Air Valve		Symbols
		Nominal-Range(PSI)	Port	Max. PSI	Configuration	Ports	
PCV-002	INTERNAL SPRING LOADED BOLT	50-200	1/4 NPT	600	2 WAY, Three ports convertible to NC or NO with plug provided	1/8 NPT	
PCV-020		200-2000		11,000			
PCV-100		1500-10,000		11,000			
PCV-E002	EXTERNAL SPANNER NUT (UNDERNEATH THE NAME PLATE)	50-200	1/4 NPT	600	3 WAY Three ports useable for either NC or NO applications	1/8 NPT	
PCV-E020		200-2000		11,000			
PCV-E100		1500-10,000		11,000			
PCV-E250	5,000-25,000	1/4" Super Pressure	26,000				
PCV-R025	REMOTE AIR PRESSURE REGULATOR 20-100 PSI	500-2500	1/4 NPT	11,000			
PCV-R100		2000-10,000		11,000			
PCV-R250		5000-25,000		1/4" Super Pressure	26,000		

## INLINE CHECK VALVES, 316 STAINLESS STEEL BODIES

**High Pressure.** These valves are 316 S.S. ball type and soft seat (PTFE ring) in the 1/4 NPT, 1/2 NPT, 3/4 NPT, and 1 NPT sizes; Brass poppet on S.S. seat in the 2 NPT size. Control springs hold approximately 3 PSI. Optional higher pressure springs are available in the 2" NPT unit only.



Model No.	Port	Maximum Pressure-PSI	Flow Orifice Min. Dia. (Inches)	Static Seal
CVH-025N2	1/4 NPT	15,000 Liquid / 11,250 Gas	.156	BUNA <sup>(1)</sup>
CVH-025S2	1/4 Super Pressure			
CVH-050N2	1/2 NPT	20,000 Liquid / 15,000 Gas	.344	PTFE
CVM-200N2	2 NPT	5,000 Liquid / 3,750 Gas	1.750	NONE



Notes: (1) Optional static seal: For Viton, add "V", for EPR, add "E" to model no.

## UNLOADING VALVES

### Normally Open, Normally Closed, Air Pilot Actuated.

These valves open or close high pressure oil or plain water back to tank or to another line or high pressure gas to another line. High pressure section alloys are stainless steel with stainless steel ball or poppet design.



Model No.	Basic Configuration	Nominal Area Ratios	Port/Max. Pressure PSI		Reverse Flow	Flow Orifice Dia. (in.)	Symbols
			Inlet	Outlet			
UV-9	Normally Close Air Pilot to Open Single Stage	9:1	1/4 NPTF 1000	4000	Free Flow	.344	
UV-50	Normally Open Air Pilot to Close, Single Stage	50:1	1/4 NPT 5000	1/4 NPT 4000	Blocked	.213	
UV-80		80:1	1/4 NPT 8000			.172	
UV-120		120:1	1/4 NPT 12000			.135	
UV-200		200:1	1/4 Super Pressure 20000			.100	
UV-250		250:1	1/4 Super Pressure 25000			.086	
UV-150-2	Normally Closed Air Pilot to Open, Two Stage	2nd Stage 9:1 1st Stage 250:1	1/2 NPT 15000	1/2 NPT 10000	Free Flow	.334 Nom. 2 Stage	

NOTES: (1) Based on 100 PSI air pilot. Maximum inlet pressure will be increased proportionally with increase in air pilot pressure up to 150 PSI maximum.

(2) To open against 15,000 PSI, 60 PSI minimum air pilot required.

(3) Maximum outlet port pressure for gas service is 1500 PSI.

(4) May also be used as a relief valve. Adjust with air pressure regulator on air pilot line.

## AIR OPERATED ON / OFF VALVES

This air operated valve opens and closes high pressure liquid or gas connection. Balanced poppet, piston actuated, normally open, bubble tight design assures high reliability. Minimum actuation is a 30-PSI and Maximum is a 150-PSI. Constructed of 316-SS with a Cv = 0.75

Model No.	Basic Configuration	Nominal Area Ratio	Maximum Pressure - PSI	Ports		Symbols
				Inlet/Outlet	Pilot	
AOV-100	Normally Open	100	10,000	1/4" NPT	1/8" NPT	
ACV-100	Normally Closed	100	10,000			



## GAS RECEIVERS

**High Pressure.** These units are normally used at the outlet of an HII Gas Booster or system to store a volume of gas for smooth, intermittent release through a pressure reducing valve.



Model No.	Max. Working	Volume Displacement (Cu. In.)	Outside Diameter (Inch)	Length (Inch)
PR-020	10,000 PSI	20	4	9 1/2"
PR-040		40	4	14"
PR-080		80	5	14 1/2"
PR-134		134	5	20 1/2"
PR-200		200	5	27 3/4"
PR-450		450	5	55 1/8"
PR2-040	20,000 PSI	40	5 1/2	14 1/2"
PR2-235		235	9	27 3/4"
PR2-300		300	8	31 1/2"
PR2-450		450	8	44 1/8"
PR2-900		900	8	81 1/4"



All receivers are stainless steel and tested to 2X maximum rating and designed for a maximum burst of 4X maximum rating.