PC1H Pressure Comp

Bidirectional Metered Flow with Check Valve ~ 1/4" to 1" Carbon Steel body for working pressures to 3,000 PSI



Flow-regulating needle valves with a built-in 5 psi check valve. Provides metered flow in one direction and free flow in the opposite direction. Flow rate is maintained within 5% in the event of upstream or downstream pressure fluctuations.

- 3,000 psi pressure rating.
- Carbon steel body, stainless steel trim, Buna-N O-ring.
- Port sizes from ¼" to 1".
- Choice of threaded connection types.
- Dual taper needle for coarse adjustments at high flow and fine adjustments at low flow (optional fine needle profile available).
- Chromaflow feature provides color bands for visual setup validation.
- Set screw to secure knob for tamper prevention.
- Suitable for use with air or oil.

PC1H	Physical Parameters					
VALVE BODY	Carbon Steel					
POPPET	Stainless Steel					
SEALING	Buna-N Standard					
WORKING PSI (1/8"-3/4")	3,000 PSI (207 Bar)					
SAFETY FACTOR	Minimum 3:1					
RETURN FLOW CHECK	Present					
CHECK VALVE SETTING	5 PSI (0,35 Bar)					
TEMP RANGE	-40°F/250°F (-40°C/121°C)					

Ordering Codes PC1H 0500 Port Thread **Size Codes** Ν **NPT** Code **Port Size** S **SAE ORB** 0250 В **BSPP** 0375 3/8" 0500 1/2" 0625 5/8" 3/4" 0750 1000 1"

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PC1H	Nominal Size	Performance Data											
		Metered Direction Flow Range		Reverse Flow Characteristics		Dimensions (inches)							
		Minimum Flow GPM	Maximum Flow GPM	Maximum Reverse Flow GPM	ΔP at Maximum Reverse Flow	A	В	С	D	E	F	Lbs.	
PC1H-0250N	1/4"	0.3 GPM	3 GPM	5 GPM	40 PSI	2.73	1.38	2.97	3.63	0.81	1.38	1.8	
PC1H-0250B		U.3 GPIVI											
PC1H-0375N	3/8"		0.6 GPM	6 CDM	8 GPM	40 PSI	3.15	4.50	3.47	4.16	1.00	1.50	2.2
PC1H-0375B		U.6 GPIVI	6 GPM	8 GPIVI	40 PSI	3.15	1.50	3.47	4.10	1.00	1.50	2.2	
PC1H-0375S		0.3 GPM	3 GPM	5 GPM	40 PSI	2.73	1.25	2.97	3.63	0.81	1.38	1.8	
PC1H-0500N	1/2"	1.5 GPM	15 GPM	20 GPM	116 PSI	4.04	1.75	4.06	4.94	1.19	1.75	3.7	
PC1H-0500B													
PC1H-0500S		0.6 GPM	6 GPM	8 GPM	40 PSI	3.15	1.50	3.47	4.16	1.00	1.50	2.2	
PC1H-0625S	5/8"	1.5 GPM	15 GPM	20 GPM	40 PSI	4.04	1.75	4.06	4.94	1.19	1.75	3.7	
PC1H-0750N	3/4"	2.5 GPM	25 GPM	35 GPM	116 PSI	5.06	2.25	4.79	5.88	1.38	2.25	8.0	
PC1H-0750B		2.5 GPIVI	25 GPIVI	35 GPIVI	116 PSI	5.06	2.25	4./9	5.88	1.38	2.25	8.0	
PC1H-0750S		2.5 GPM	25 GPM	35 GPM	40 PSI	5.06	2.25	4.79	5.88	1.38	2.25	8.0	
PC1H-1000N	1" 5.		5.0 GPM 50 GPM	60 GPM	140 PSI	6.90	2.75	5.63	6.94	1.88*	2.75	14.6	
PC1H-1000B		5.0 GPM				0.30	2.13	3.03	0.54	1.00	2.13	14.0	
PC1H-1000S						6.90	2.75	5.63	6.94	1.88*	2.75	14.6	

(*) Depicts HEX size Note: [1] Typical flow rates in US GPM for 100 SSU petroleum based fluid

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