

# PC1H PRESSURE COMP

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



DMIC's **PC1H** continues to maintain flow regulated within  $\pm 5\%$  of the user setting upon inlet and outlet pressure fluctuation.

- DMIC's **ChromaFlow** color-coded design facilitates initial calibration, system documentation, and restoration of correct settings if required
- Designed for **3,000 PSI maximum operating pressure**, can operate at higher working pressure with loss of regulation precision (call DMIC)
- **Integral 5 PSI poppet check valve** provides free return flow
- Set Screw standard to prevent tampering
- For OEM production quantities, **optional "fine" needle profile** available
- **Quality construction**, premium ergonomics, and superb aesthetics show your system is built to a "quality standard"; not a "price" standard

PC1H	Nominal Size	Port Thread	Performance Data				Dimensions (inches)					
			Metered Direction Flow Range		Reverse Flow Characteristics		A	B	C	D	E	Lbs. kg
			Minimum Flow GPM (l/m)	Maximum Flow GPM (l/m)	Maximum Reverse Flow GPM (l/m)	$\Delta P$ at Maximum Reverse Flow						
PC1H-0250N	1/4"	1/4" NPT	0.3 GPM 1 l/m	3 GPM 11 l/m	5 GPM 19 l/m	40 PSI 3 Bar	2.73	1.38	2.97	3.63	0.81	1.0
PC1H-0250B		1/4" BSPP										
PC1H-0375N	3/8"	3/8" NPT	0.6 GPM 2 l/m	6 GPM 23 l/m	8 GPM 30 l/m	40 PSI 3 Bar	3.15	1.50	3.47	4.16	1.00	1.5
PC1H-0375B		3/8" BSPP										
PC1H-0375S		#6 SAE	0.3 GPM 1 l/m	3 GPM 11 l/m	5 GPM 19 l/m	40 PSI 3 Bar						
PC1H-0375IU		16mm ISO6149										
PC1H-0500N	1/2"	1/2" NPT	1.5 GPM 6 l/m	15 GPM 57 l/m	20 GPM 76 l/m	110 PSI 7.6 Bar	4.04	1.75	4.06	4.94	1.19	2.6
PC1H-0500B		1/2" BSPP										
PC1H-0500S		#8 SAE	0.6 GPM 2 l/m	6 GPM 23 l/m	8 GPM 30 l/m	40 PSI 3 Bar						
PC1H-0500IU		18mm ISO6149										
PC1H-0625S	5/8"	#10 SAE	1.5 GPM 6 l/m	15 GPM 57 l/m	20 GPM 76 l/m	110 PSI 7.6 Bar	4.04	1.75	4.06	4.94	1.19	2.6
PC1H-0625IU		22mm ISO6149										
PC1H-0750N	3/4"	3/4" NPT	2.5 GPM 10 l/m	25 GPM 95 l/m	35 GPM 133 l/m	120 PSI 8.3 Bar	5.06	2.25	4.79	5.88	1.38	5.0
PC1H-0750B		3/4" BSPP										
PC1H-0750S		#12 SAE										
PC1H-0750IU		27mm ISO6149										
PC1H-1000N	1"	1" NPT	5 GPM 19 l/m	50 GPM 190 l/m	60 GPM 228 l/m	140 PSI 9.7 Bar	6.90	2.75	5.63	6.94	1.88*	10.0
PC1H-1000B		1" BSPP										
PC1H-1000S		#16 SAE										
PC1H-1000IU		33mm ISO6149										

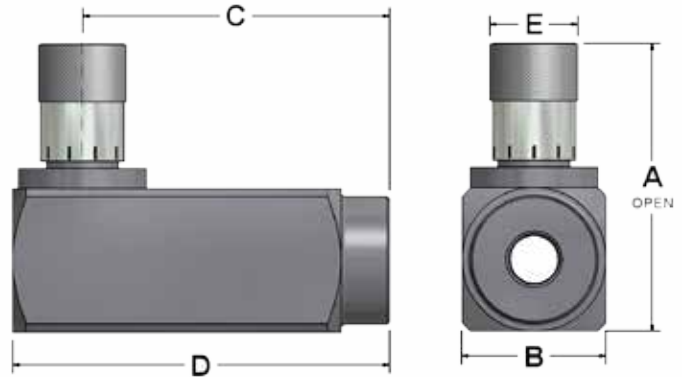
- NOTES: (1) Typical flows quoted in U.S. GPM, using 100 SUS Petroleum Based Fluid at 100°F  
 (2) This model incorporates a reverse flow check. For 2-way compensation select model **PC2H**, page 14 (\*) Means HEX  
 (3) Manifold mount version available for OEM production quantity orders, call DMIC  
 (4) For production qty. orders, non-adjustable versions factory preset to Buyer's flow setting are available  
 (5) **PC1H** and **PC2H** valves require a minimum pressure differential between the inlet and outlet ports for correct operation. For sizes below 1/2", 107.5 PSI (7 Bar) is required; larger sizes require 159.5 PSI (11 Bar)



# PC1H PRESSURE COMP

PC1H	Physical Parameters
VALVE BODY	Carbon Steel
POPPET	Stainless Steel
SEALING	Buna-N Standard
WORKING PSI (1/8"-3/4")	3000 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)

For complete ordering information and option availability please see page 28.

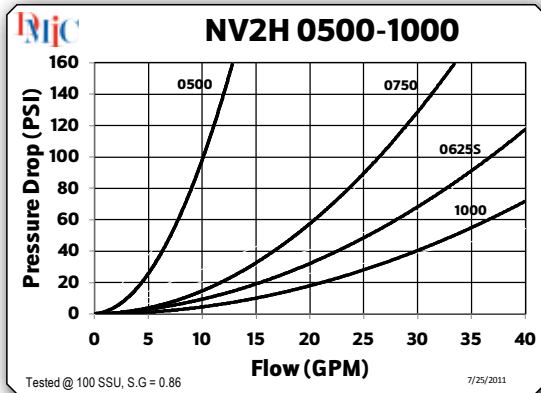
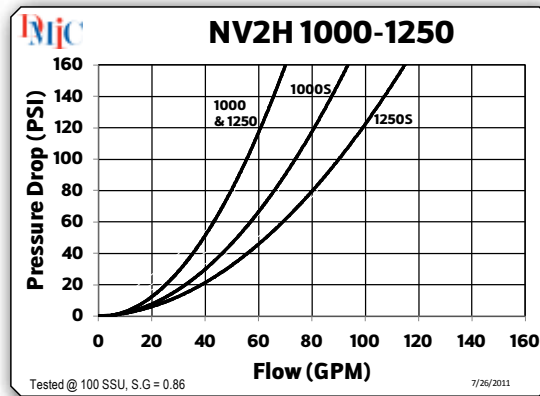
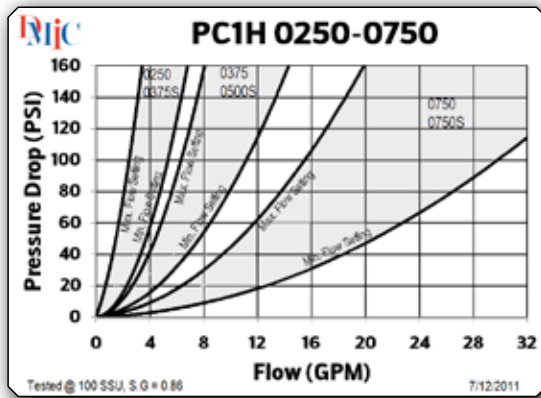


**PC 1H - 0500 N**

Model	
1H	Steel, 1-Way Pressure Comp
2H	Steel, 2-Way Pressure Comp

**Nominal Size**  
Expressed in 1/1000" units  
Example: 0375=3/8", 1 1/2=1500

Inlet Port Thread	
Standard US/Canada	
N	NPT
S	SAE ORB
Metric Standard	
B	BSPP
Optional Threads (Call DMIC)	
B	BSPP
T	BSPT
IU	ISO6149



**This valve series is factory sealed and disassembly will destroy the valve and void the warranty. Due to our policy of continual product improvement, the specifications in this catalog may change without notice. When designing by spec, please request a certified print.**

