

**Features**

- *Inline porting*
- *Four sizes of NPT porting*
- *Panel mountable*



Used in applications requiring control of fluids in *both directions*. Aluminum body with brass insert, stem and knob; seals are nitrile rubber 70.

**Specifications**

Product	Pressure Rating (psi)	Temp. Range	Media
<b>Inline Needle Valve</b>	15 to 145	0° to +160°F	Filtered Air

Part Number	OAL	Hex	Connector Thd.	Mounting Holes	
				Ø thru/centers	Ø panel
<b>PCNV- 2</b>	1.378	15mm	1/8 NPTF	.177/ .972	.472
<b>4</b>	1.811	15mm	1/4 NPTF	.256/ 1.378	.472
<b>6</b>	1.968	22mm	3/8 NPTF	.256/ 1.378	.709
<b>8</b>	2.362	22mm	1/2 NPTF	.256/ 1.732	.709

*Measurements in inches unless otherwise specified*

**Ordering Information**

**Needle Valves**

Part No.	Connection	Pkg
<b>PCNV-2</b>	1/8 NPTF	1
<b>PCNV-4</b>	1/4 NPTF	1
<b>PCNV-6</b>	3/8 NPTF	1
<b>PCNV-8</b>	1/2 NPTF	1

- To order standard product use part number listing.
- All needle valves are sold individually.

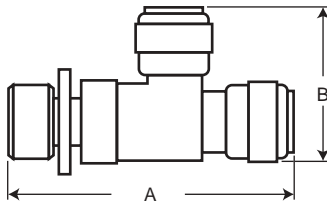
See **Flow Characteristics** chart on previous page (20) for flow vs. turns data.

## Features

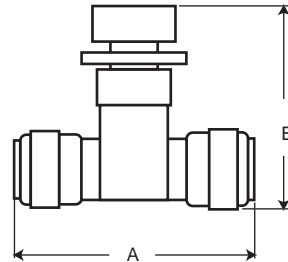
- Highly durable and resistant to pressure
- Allows control of flow in both directions
- Variety of configurations and porting options



Used in applications requiring control of fluids in *both directions*. Acetal Copolymer body, brass adjustment knob and stem with NBR packing.



**Right Angle**



**Inline**

## Specifications

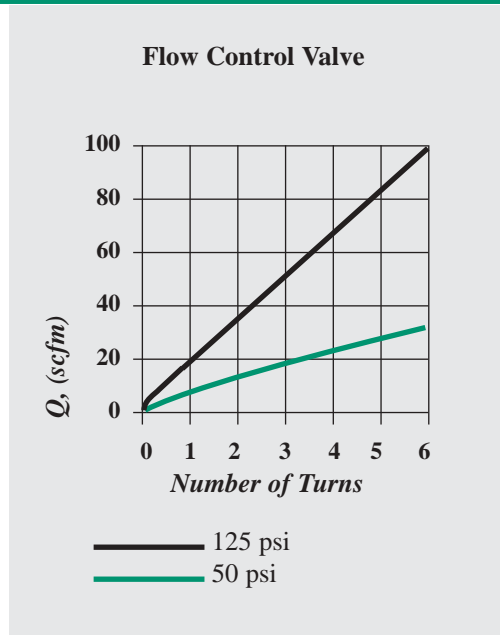
Product	Water Pressure (psi)		Temp. Range	Media
	1/4"	3/8"		
<b>Flow Control</b>	230	170	-20° to +185°F	Air and liquids compatible with materials of construction

Part Number	OAL A	Banjo B	1	2
<b>Right Angle</b>				
<b>PCPNV-4PR</b>	1.87	1.13	1/4 PUSH-IN	1/4 PUSH-IN
<b>PCPNV-6PR</b>	2.32	1.39	3/8 PUSH-IN	3/8 PUSH-IN
<b>PCPNVF-44R</b>	1.69	1.21	1/4 NPT(F)	1/4 PUSH-IN
<b>PCPNVF-66R</b>	2.07	1.42	3/8 NPT(F)	3/8 PUSH-IN
<b>Inline</b>				
<b>PCPNV-4P</b>	1.69	1.30	1/4 PUSH-IN	1/4 PUSH-IN
<b>PCPNV-6P</b>	1.99	1.53	3/8 PUSH-IN	3/8 PUSH-IN
<b>PCPNVM-44</b>	1.84	1.38	1/4 NPT(M)	1/4 PUSH-IN
<b>PCPNVM-66</b>	2.17	1.79	3/8 NPT(M)	3/8 PUSH-IN

All measurements in inches  
Refer to page 54 for **Installation Torque** information.

## Flow Characteristics

Time and temperature may cause data variations.



## Needle Valves: Plastic

Part No.	Input	Output	Pkg
<b>PCPNV-4P</b>	1/4 PI	1/4 PI	1
<b>PCPNV-4PR</b>	1/4 PI	1/4 PI	1
<b>PCPNV-6P</b>	3/8 PI	3/8 PI	1
<b>PCPNV-6PR</b>	3/8 PI	3/8 PI	1
<b>PCPNVF-44R</b>	1/4 NPT(F)	1/4 PI	1
<b>PCPNVF-66R</b>	3/8 NPT(F)	3/8 PI	1
<b>PCPNVM-44</b>	1/4 NPT(M)	1/4 PI	1
<b>PCPNVM-66</b>	3/8 NPT(M)	3/8 PI	1

## Ordering Information

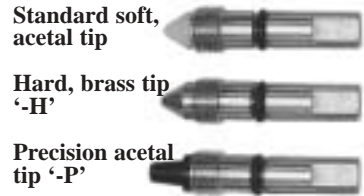
- To order standard product use part number listing.
- All flow control valves are sold individually.
- Contact factory for optional seal materials.

## Features

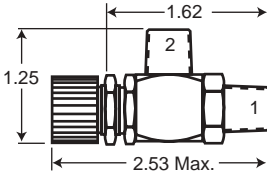
- Machined from brass bar
- Right angle or inline porting
- Panel mountable (nut supplied)
- D-slot acetal knob
- Porting options: pipe threads or push-in fittings
- Standard soft tipped needle ensures a positive shut-off (Hard tip or precision tip available upon request)



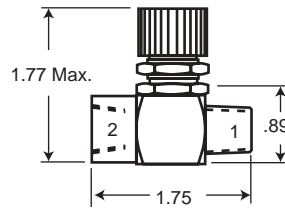
### Needle Options



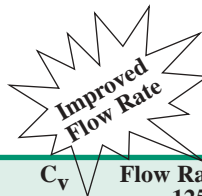
The Polyconn 500 Series needle valve offers high flow rates in a compact design. Manufactured from brass, additional materials include: acetal, stainless steel and Buna-N.



**Right Angle**



**Inline**



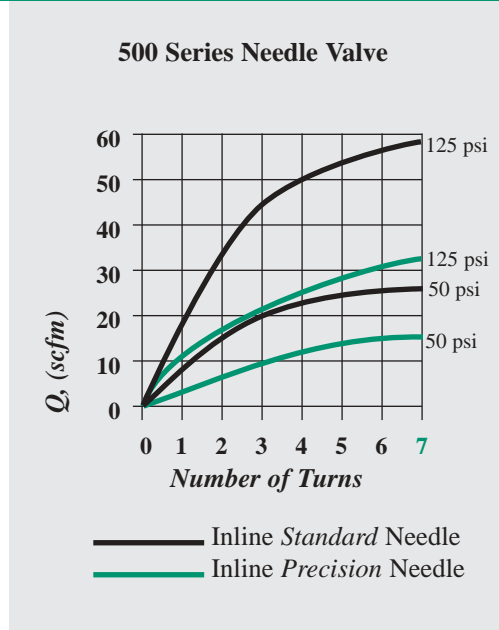
## Specifications

Product	Operating Pressure (psi)	Temp. Range	C <sub>v</sub>	Flow Rate (scfm) 125 psi	Media
<b>Standard</b>	0	-32°	.70	57	Air and liquids compatible with materials of construction
	to	to			
<b>Precision</b>	150	+150°F	.40	33	

- Contact factory for optional seal materials.

## Flow Characteristics

Improved performance for our standard product and new, improved control with our new, Precision Needle (- P) option.



## Ordering Information

### 500 Series Needle Valves

#### Right Angle

Part Number	Input	Output	Pkg
<b>PC511</b>	1/4 NPT (M)	1/4 NPT (M)	1
<b>PC514</b>	1/4 NPT (M)	1/4 NPT (F)	1
<b>PC516</b>	1/4 NPT (M)	1/4 PI	1
<b>PC518</b>	1/4 NPT (M)	3/8 PI*	1
<b>PC541</b>	1/4 NPT (F)	1/4 NPT (M)	1
<b>PC544</b>	1/4 NPT (F)	1/4 NPT (F)	1
<b>PC546</b>	1/4 NPT (F)	1/4 PI	1
<b>PC548</b>	1/4 NPT (F)	3/8 PI*	1
<b>PC561</b>	1/4 PI	1/4 NPT (M)	1
<b>PC564</b>	1/4 PI	1/4 NPT (F)	1
<b>PC566</b>	1/4 PI	1/4 PI	1
<b>PC568</b>	1/4 PI	3/8 PI*	1

\* Under development

Threaded ports are standard NPT

#### Inline

Part Number	Input	Output	Pkg
<b>PC501</b>	1/4 NPT (M)	1/4 NPT (F)	1
<b>PC502</b>	1/4 NPT (M)	1/4 NPT (M)	1
<b>PC503</b>	1/4 NPT (F)	1/4 PI	1
<b>PC504</b>	1/4 NPT (M)	1/4 PI	1
<b>PC505</b>	1/4 NPT (F)	1/4 NPT (F)	1
<b>PC506</b>	1/4 NPT (F)	3/8 PI	1
<b>PC507</b>	1/4 NPT (M)	3/8 PI	1

- Use part number listing to order valve needle with standard *Soft* acetal tip.
- With *Hard* brass tip add a '-H' suffix to the standard part number.
- With *Precision* tip add a '-P' suffix to the standard part number.
- All needle valves are sold individually.
- Contact factory for optional seal materials.