



international polymer solutions

949.458.3731
www.ipolymer.com | info@ipolymer.com



IPS is a Quality Supplier of High Purity Flow Control Products

for the Life Sciences, Semiconductor, Alternative Energy and Chemical Process Industries

International Polymer Solutions Incorporated is the proud manufacturer of **BECO** and **TEQCOM** products offering a full line of plastic pneumatic, solenoid, and manual valves. We always welcome opportunities to accommodate custom fluid control products to meet our customers' application specific needs.



Pneumatic Valves



PTFE Solenoid Valves



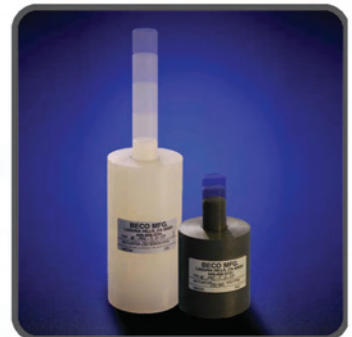
PTFE Manual Valves



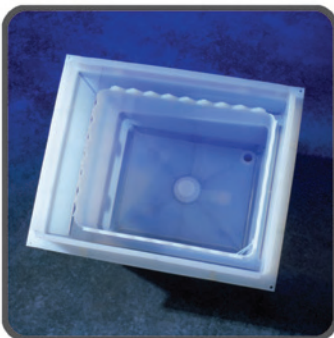
PTFE Hand Sprays



PTFE Fittings



Air Cylinders



High Purity Tanks



Teflon Pneumatic Valve



Corrosion Resistant Valve



Quick Dump Valve



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IPS Product Cross Reference Chart

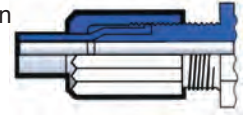
Product Name	Initial P/N Designation	
	TECOM	BECO
Miniature "M" Series PTFE Solenoid Valve	M-*	M-*
Sub Mini "S" Series PTFE Solenoid Valve	S-*	S-*
Miniature Pneumatic Valve	M-*	MTV-*
PTFE Suck Back Valve	SBV-*	SBV-*
PTFE Air Aspirator	ATA-A-*	A-*
PTFE Liquid Aspirator	TA-A-*	L-*
PTFE Dilution Drain Valve	DDV-*	DDV-*
Diverter Valve	DVTR-*	DTR-*
Air Cylinder	TAAC-*	AC-*
Pneumatic Drain Valve	TA-DV-*	DV-*
Chemical / Corrosion Resistant Valve	ACR-*	CR-*
H2O - Pneumatic & Foot Operated Valve	TA-*	WV-*
DI Water Valve	DI-*	MP-*
Teflon Pneumatic Valve	ATP-*	TP-*
PTFE Check Valve	TA-CV-*	BCV-*
PTFE Metering Valve	TAMV-*	MV-*
PTFE Pressure Regulator	TPR-*	PR-*
PTFE Stopcock	TA-SC-*	SC-*
Precision Plug Valve	TA-PPV-*	~
PTFE Ball Valve	BV-*	BV-*
PTFE Disc Filter	TDF-*	BDF-*
PTFE Eye Wash	TA-EW-*	EW-*
PTFE D.I. Spray Gun	TA-SG-*	SG-*
N2 Dispensing / Drying Gun	TA-N2-*	Nitro-*
Dispensing Liquid Gun	TA-DG-*	DG-*
Recirculation Spray Gun	RECIRC*	RC-*
PTFE Barrier / Body Gauge Isolator	TA-GI-*	~
PTFE Pressure Relief Valve	RVX-*	RV-*
Inline Diaphragm Valve	~	IDF-*
Quick Dump Valve	~	QD-*
Various High Purity Fittings & Connectors	See Literature	See Literature

Fitting Description & Uses

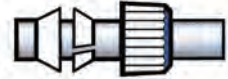
Pipe: National Pipe Thread (NPT) threads are tapered at a rate of 1/16"/inch. The threads should be treated with joint compound or Teflon Tape. These connections are common for day-to-day use of low pressure gas and liquids.



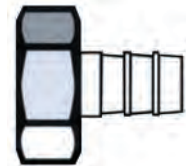
Flared: Flared connections offer long term reliability and high pressure sealing. Mission critical connections and considered an ultra clean connection. Requires field flaring of tube with special tool after mating nut is installed.



Compression: This fitting accepts straight tube with ferrule & nut (with/without gripper). Compression Tube fittings are the most common connection for plastic applications. They accommodate fast assembly. Nut can include an integral gripper or external gripper.



Barbed: Low pressure fitting to mate with hose and tube connections. The angled barbs grab the ID of the hose or tube. Fast connection and reusable. Not intended for corrosive fluids and gases.



Common Polymers & their Descriptive Use

PTFE polytetrafluoroethylene: Material of choice for low friction applications. Excellent heat and chemical resistance. Suited for most corrosive and high temperatures 240°C (460°F) applications. Chemical inertness makes it difficult to bond and weld. See TFM-1600 & PFA as high performance alternatives.

TFM Dyneon-1600 Enhanced PTFE: TFM is a modified PTFE blend. Designed for molding with good free flowing properties. Commonly used as liners for the Chemical Industry. Excellent material for sealing and seating in valve components. Good weld ability with service temperatures up to 260°C (500°F).

PFA perfluoroalkoxy: PFA has exceptional heat resistance, excellent chemical and weather resistance. Ideal for corrosive and high temperatures 260°C (500°F) applications. Suitable for molding and critical components in valves and pumps.

PVDF polyvinylidene fluoride: PVDF is ideal for a variety of applications such as pumps, valves, sheet products, pipes, tubes and fittings needing excellent chemical resistance and operating temperatures up to 150°C (300°F).

PEEK polyetheretherketone: PEEK is a strong, chemical and heat-resistant thermoplastic. Biocompatibility allows for use in medical applications. Frequently used as bearing material and as structural components in high performance plastic devices. Service temperatures up to 150°C (300°F).

POL polypropylene: POL is a common thermoplastic polymer. One of most versatile high purity polymers used in a wide variety of clean and corrosive applications. It is rugged and resistant to many chemical solvents, bases and acids. Service temperature up to 60°C (140°F).

Hard PVC polyvinylchloride: PVC is a rigid strong polymer. The work horse of daily-use plastics. PVC is common for enclosures, plumbing and flow devices. However, it will degrade with UV exposure and is susceptible to chemical corrosive attack. Service temperatures up to 70°C (160°F).