

Disposable In-Line Filters

High Efficiency Miniature Filtration Products







numatics

Numatics, Inc. is a leading manufacturer of pneumatic products and motion control products. Our broad spectrum of standard, custom developed products and application components, have made a significant impact on pneumatic innovation as well as pneumatic and motion control technology. Our company has an extensive history of generating innovative concepts and technological breakthroughs. Many of today's standard features in pneumatic technology were industry firsts from Numatics. We continue our innovative approach to product development by developing electric motion control solutions and enhancing our embedded Fieldbus and I/O products to continually meet and solve our customer's application requirements.



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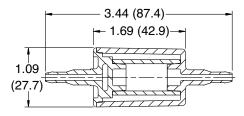




PL Series - Dual Barbed



PLS-B pictured

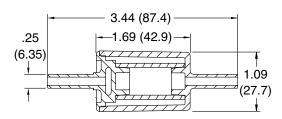


Dimensions in inches (mm)

PL Series - Straight



PLS-T pictured



Dimensions in inches (mm)

Features - Dual Barbed and Straight Type

- Max pressure at 125 PSI (8.6 BAR)
- Max temperature at 125°F (52° C)
- Rugged polyurethane housing with dual barb style
- Rugged nylon housing with straight style
- Compatible with many chemicals
- · Depth-loading coalescing media provides long life
- Dual barb for 1/4 and 1/8 ID soft tubing
- Straight tang for push-on fittings
- Oil indicating die turns red with oil present (See option "D")
- Epoxy element binder standard grades R, S, T, U
- Teflon element binder (See option "T")
- Flow outside to inside element (Cap to body)

Applications

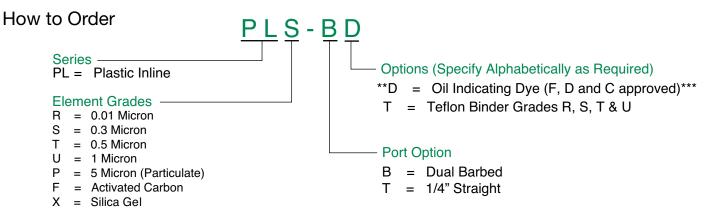
- Sensor Protection
- Pneumatic Logic
- Exhaust Muffler
- Medical/ Pharmaceutical
- Instrumentation
- Gas Sampling

Flow Rates for PLS-B									
Pressure	PSIG (Bar)	10 (0.7)	20 (1.4)	40 (2.8)	60 (4.1)	80 (5.5)	100 (6.9)	125 (8.6)	
*Flow	SCFM (lpm)	1.1 (31.1)		1.8 (51.0)			2.6 (73.6)	2.8 (79.3)	

^{*} Based on a 1.5 psid pressure drop

Flow Rates for PLS-T								
Pressure	PSIG (Bar)	10 (0.7)	20 (1.4)	40 (2.8)	60 (4.1)	80 (5.5)	100 (6.9)	125 (8.6)
*Flow					3.6 (102.0)			4.9 (138.8)

^{*} Based on a 1.5 psid pressure drop



^{**} Not available on grades P, F, and X

^{***} F, D and C = Food, Drug & Cosmetic

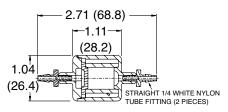




PT Series - Straight Fitting



PTS-B pictured

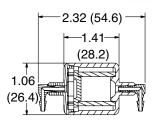


Dimensions in inches (mm)

PT Series - Elbow Fitting



PTS-BN pictured



Dimensions in inches (mm)

Features - Straight and Elbow Fitting Type

- Max pressure at 35 PSI (2.4 BAR)
- Max temp at 125° F (52° C)
- Rugged blue tinted nylon housing
- Straight barb option
- Right angle barb option
- · Depth-loading coalescing media provides long life
- Element binder is epoxy Standard for grades R, S, T, U
- Teflon binder optional for elements (See option "T")
- Flow outside to inside element (Cap to body)

Applications

- Protection of miniature pneumatic components
- Sampling devices
- Small design areas
- Exhaust muffler
- Instrumentation
- Gas sampling

Flow Rates for PTS-B								
Pressure	PSIG	5	10	20	35			
	(Bar)	(0.35)	(0.7)	(1.4)	(2.4)			
*Flow	SCFH	19	22	26	34			
	(lpm)	(9.0)	(10.4)	(12.3)	(16.1)			

^{*} Based on a 1.5 psid pressure drop

Flow Rates for PTS-BN								
Pressure	PSIG	5	10	20	35			
	(Bar)	(0.35)	(0.7)	(1.4)	(2.4)			
*Flow	SCFH	17	18	21	23			
	(lpm)	(8.0)	(8.5)	(9.9)	(10.9)			

^{*} Based on a 1.5 psid pressure drop



Element Grades

R = 0.01 Micron S = 0.3 Micron T = 0.5 Micron U = 1 Micron

P = 5 Micron (Particulate)

** F, D and C = Food, Drug and Cosmetic

Options (Specify Alphabetically as Required)

D = Oil Indicating Dye (F, D and C approved)**

 $\Gamma = \text{Teflon Binder Grades R, S, T & U}$

Port Option

B = Straight 1/8" tube fitting BN = 90 Degree 1/8" tube fitting

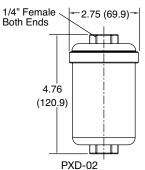
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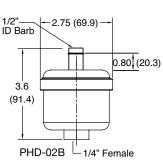


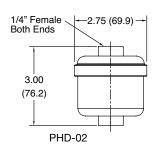


PH Series Filters









Dimensions in inches (mm)

Features

- Max pressure 100 PSIG (6.9 BAR)
- Max temp 200°F (93°C)
- 300°F at 60 PSIG 4.1 BAR / 149°C
- Rugged Polyester housing
- Brass inserts
- Inner support core which protects element from collapsing
- Spin welded seal no adhesives or chemicals
- Thermally bonded end caps on elements
- Extended version for longer filter life
- HEPA High Efficiency Particulate Air
- ULPA Ultra Low Particulate Air

Applications

- Medical concentrators
- Intake filter
- After filter for miniature desiccant beds
- High flow pneumatic tools
- Critical instrumentation protection

Flow Ra	ates for	PHD					
Pressure	PSIG	10	20	40	60	80	100
	(Bar)	(0.7)	(1.4)	(2.8)	(4.1)	(5.5)	(6.9)
*Flow	SCFM	14	17.5	22.4	26.8	30.8	34.3
	(lpm)	(396.4)	(495.5)	(634.3)	(758.9)	(872.2)	(971.3)

^{*} Based on a 1.5 psid pressure drop

Flow Rates for PXD								
Pressure	PSIG	10	20	40	60	80	100	
	(Bar)	(0.7)	(1.4)	(2.8)	(4.1)	(5.5)	(6.9)	
*Flow	SCFM	17.5	20.7	26.4	31	35.3	39.3	
	(lpm)	(495.5)	(586.2)	(747.6)	(877.8)	(1000.0)	(1113.0)	

^{*} Based on a 1.5 psid pressure drop

How to Order



D = 0.3 Micron Pleated HEPA - 99.97% Efficiency = 0.3 Micron Pleated ULPA - 99.999% Efficiency

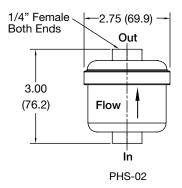




PH Series Desicant Dryers



PHS-02 Pictured



Dimensions in inches (mm)

Features

- In-Line Desicant Dryers 30°F dew point
- Max pressure 100 PSIG (6.9 BAR)
- Max temp 150°F (66°C)
- Rugged clear polycarbonate housing
- Integral 3µ filter paper inlet and outlet blue silica gel turns pink when saturated indicating replacement
- Brass inserts
- Spin welded seal no adhesives or chemicals

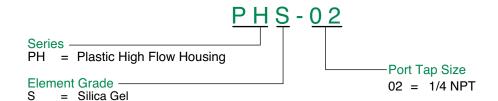
Applications

- Critical instrumentation protection
- Parts blow off
- Paint spray

Flow Rates for PHS									
Pressure	PSIG	10	20	40	60	80	100		
	(Bar)	(0.7)	(1.4)	(2.8)	(4.1)	(5.5)	(6.9)		
Flow	SCFM	5.5	7.0	10.0	12.5	14.5	15.5		
	(lpm)	(155.7)	(198.2)	(283.2)	(354.0)	(410.6)	(438.9)		

^{*} Based on a 1.5 psid pressure drop

How to Order



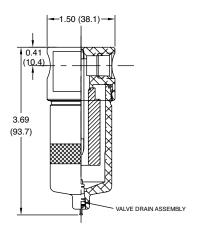




MF Series Miniature In-Line Filters



MF05D-02 pictured



Dimensions in inches (mm)

Features

- Max pressure 150 PSIG (10 BAR)
- Max temp 200°F (93°C)
- Aluminum construction
- Replaceable element
- Compact design
- Miniature coalescing capability

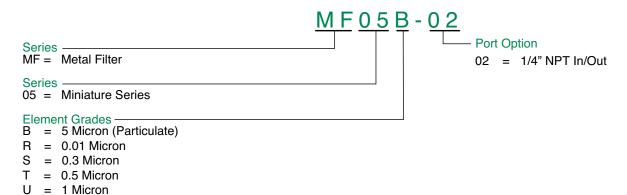
Applications

- Miniature air tools
- Control panels
- Outdoor applications

Flow Ra	ites for	MF05S	;					
Pressure	PSIG	10	20	40	60	80	100	150
	(Bar)	(0.7)	(1.4)	(2.8)	(4.1)	(5.5)	(6.9)	(10.3)
*Flow	SCFM	1.5	2.1	3.3	4.6	5.8	7	10
	(lpm)	(42.5)	(59.5)	(93.4)	(130.3)	(164.2)	(198.2)	(283.1)

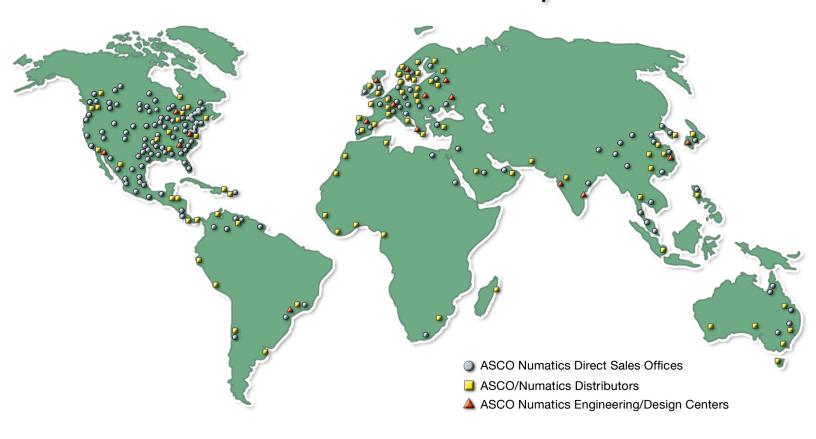
^{*} Based on a 1.5 psid pressure drop

How to Order



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