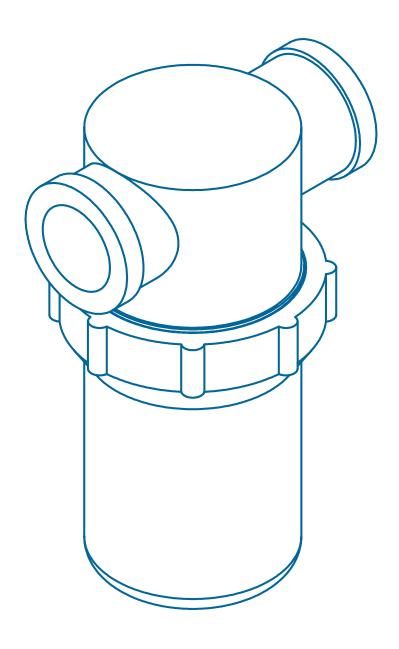
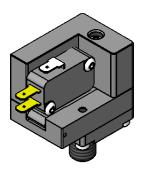
System Accessories Section 5









Mechanical Switches



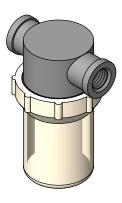
Electronic Sensors



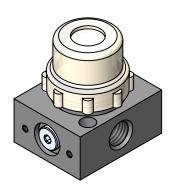
Digital Sensors



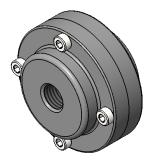
Vacuum Switch Protector



T-Style Filters



Aluminum Base Filters



Inline Filter



Pipe Plugs



Mechanical Switches 3 Electronic Sensors 5 Digital Sensors 6 Vacuum Switch Protector 9 T-Style Filters 9 Alumium Base Filters 10 12 Pipe Plugs 12 13

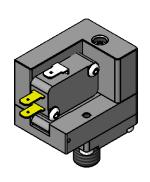


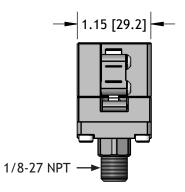
Mechanical Pressure Switches

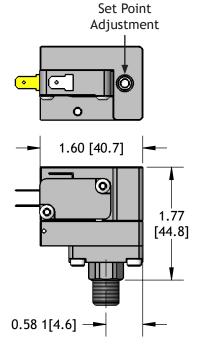
PSA18-E: Electrical Output

Electrical Pressure Sensors come with UL and CSA snap action, silver contact, SPDT (Single Pole Double Throw) switch with 0.187 in (4.75 mm) spade terminals. Triple terminal electrical connector and insulator kit for attaching wires is included.

Construction: aluminum housing, stainless steel spring and fasteners, nylon reinforced Nitrile diaphragm





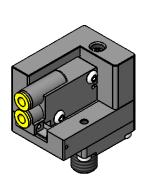


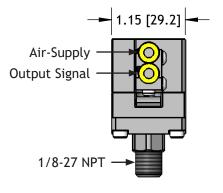
PSA18-NOP / PSA18-NCL: Pneumatic Output

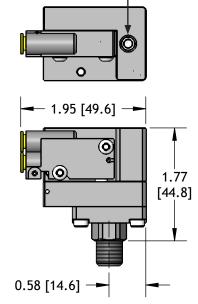
Pneumatic Pressure Sensors are available in normally-closed (NCL) and normally-open (NOP) versions. Normally-closed (NCL) sensors open to pass air when the desired set point is achieved. Normally-open (NOP) sensors close to block air when the desired set point is achieved. Both versions have integral 5/32 in (4 mm) tube connectors.

Construction: aluminum housing, stainless steel spring and fasteners, nylon reinforced Nitrile diaphragm

Port 1- Air Supply Port 2 - Output Signal







Set Point

Adjustment

Presure Adjustment Range:	10 to 140 psi [0.69 to 9.65 bar]
Temperature Range:	-20°F to 140°F [-29°C to 60°C]
Electrical:	5 Amp @ 125 V AC, 250 V AC Max
Air Valve:	20 to 115 psi [1.4 to 7.9 bar]; Cv = 0.06; 2.5 SCFM [71 NI/m]
Weight:	3.20 oz [90.7 g]

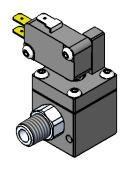


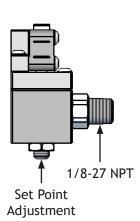
Mechanical Vacuum Switches

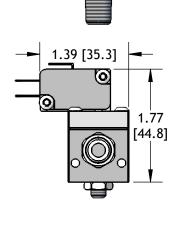
VSA18-E: Electrical Output

Electrical Vacuum Sensors come with UL and CSA snap action, silver contact, SPDT (Single Pole Double Throw) switch with 0.187 in (4.75 mm) spade terminals. Triple terminal electrical connector and insulator kit for attaching wires is included.

Construction: aluminum housing, stainless steel spring and fasteners, nylon reinforced Nitrile diaphragm





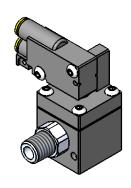


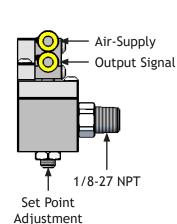
VSA18-NOP / VSA18-NCL: Pneumatic Output

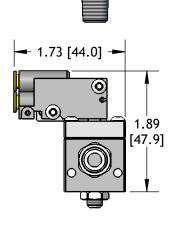
Pneumatic Vacuum Sensors are available in normally-closed (NCL) and normally-open (NOP) versions. NCL sensors are open to pass air when the desired set point is achieved. NCL sensors close to block air when the desired set point is achieved. Both versions have integral 5/32 in (4 mm) tube connectors.

Construction: aluminum housing, stainless steel spring and fasteners, nylon reinforced Nitrile diaphragm

Port 1- Air Supply Port 2 - Output Signal





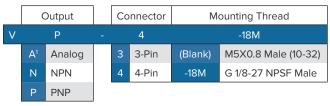


([30.5]

Vacuum Adjustment Range:	-8 to -28 inHG [-27.1 to 94.8 kPa]		
Temperature Range:	-20°F to 140°F [-29°C to 60°C]		
Electrical:	5 Amp @ 125 V AC, 250 V AC Max		
Air Valve:	20 to 100 psi [1.4 to 6.9 bar]; Cv = 0.06; 2.5 SCFM [71 NI/m]		
Weight:	2.10 oz [59.0 g]		



V-Style Electronic Sensors

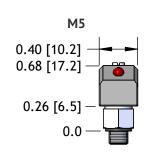


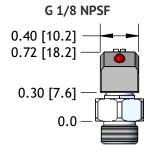
¹3-Pin Only

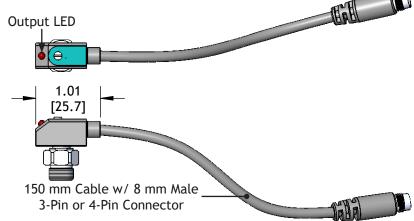
Media:

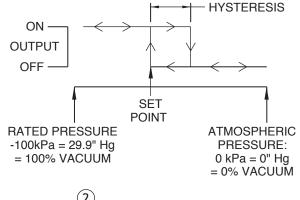
Maximum Pressure:

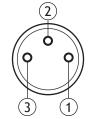
PNP Output Voltage:



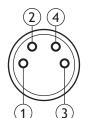








- 1. Brown (+)
- 2. Black (OUT)
- 3. Blue (-)



- 1. Brown (+)
- 2. White (not used)
- 3. Blue (-)
- 4. Black (OUT)

Rated Pressure Range:	0 to -29.5 inHG [0 to 100 kPa]		
Operating Pressure:	14°F to 122°F [-10°C to 60°C]		
Storage Temperature:	-4°F to 158°F [-20°C to 70°C]		
Humidity:	35% to 85% RH		
Electrical Connection:	-3 = 3-Pin Pico 8 mm Connector -4 = 4-Pin Pico 8 mm Connector		
Operating Voltage:	10.8 to 30 V DC (including ripple)		
Current Consumption:	20 mA Max		
Display:	Red LED		
Circuit:	Analog, NPN, PNP		
Setting Accuracy:	±3% F.S. Max		
Hysteresis:	Fixed, 2% F.S. Max		
Switching Capacity:	30 V DC, 80 mA Max		
Response Time:	Approximately 1 ms		
Vibration:	10 to 55 Hz 1.5 mm Max, XYZ for 2 hours		
Shock:	1,000 m/s², XYZ		
Insulation Resistance:	100 M Ω Min		
Dielectric Strength:	500 V AC for 1 Minute		
Analog Output Voltage:	0 inHG [0 kPa] = 1 ± 0.04 V DC -29.5 inHG [-100 kPa] = 5 ± 0.04 V DC		
NPN Output Voltage	0.8 V DC Max		

Non-Lubricated Air, Non-Corrosive Gas

29 psi [200 kPa]

1.8 V DC Max

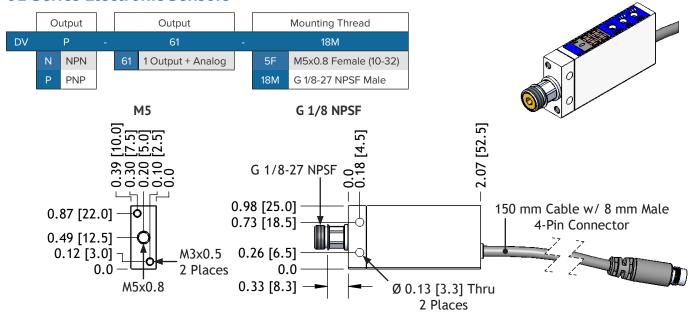
Order Cables Separately

Part Number	Description
3QD2	3-Pin Quick Disconnect, 2 M
3QD5	3-Pin Quick Disconnect, 5 M
4QD2	4-Pin Quick Disconnect, 2 M
4QD5	4-Pin Quick Disconnect, 5 M

Full data sheet with specs, wiring diagram, and operation procedures available at www.edcousa.net.



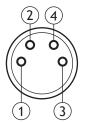
61 Series Electronic Sensors



Media:	non-lubricated air, non-corrosive gas		
Maximum Pressure:	29 psi [200 kPa]		
Rated Pressure Range:	0 to -29.5 inHG [0 to 100 kPa]		
Operating Pressure:	14°F to 140°F [-10°C to 60°C]		
Storage Temperature:	-4°F to 158°F [-20°C to 70°C]		
Humidity:	35% to 85% RH		
Electrical Connection:	4-Pin Pico 8 mm Male Connector		
Operating Voltage:	10.8 to 26.4 V DC (including ripple)		
Current Consumption:	35 mA Max		
Display:	2 Digit, 7 Segment Red LED		
Rated Display:	0 to 99		
Units:	Percent Vacuum [kPa]		
Output Display:	Set (1) - Red LED; Set 2 - Green LED		
Display Cycle:	4 Hz		
Resolution:	±1 Count		
Setting Accuracy:	±3% F.S. Max		
Hysteresis:	61 - Adjustable Approx 0% to 15% F.S. 62 - Fixed 2% F.S. Max		
Switching Capacity:	30 V DC, 80 mA Max		
Response Time:	Approximately 2 ms		
Vibration:	10 to 55 Hz 1.5 mm Max, XYZ for 2 hours		
Shock:	196 m/s², XYZ		
Insulation Resistance:	100 M Ω Min		
Dielectric Strength:	500 V AC for 1 Minute		
Analog Output Voltage:	0 inHG [0 kPa] = 1 ± 0.1 V DC -29.5 inHG [-100 kPa] = 5 ± 0.2 V DC		
Analog Output Current:	1 mA Max		
Analog Hysteresis / Linearity:	±0.5% F.S.		
NPN Output Voltage	0.8 V DC Max		
PNP Output Voltage:	1.2 V DC Max		
Thermal Error:	±0.1% F.S. / °C Max in range of 32°F to 122°F [0°C to 50°C]		



Red LED Output



- 1. Brown (+)
- 2. White (OUT ANALOG)
- 3. Blue (-)
- 4. Black (OUT1)

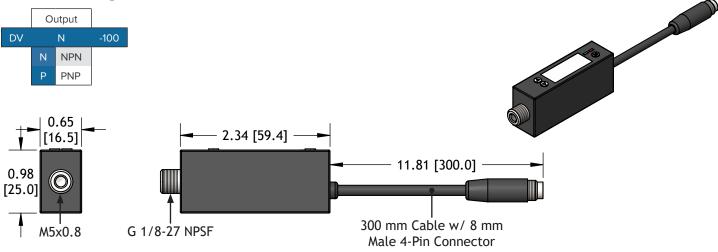
Order Cables Separately

Part Number	Description
4QD2	4-Pin Quick Disconnect, 2 M
4QD5	4-Pin Quick Disconnect, 5 M

Full data sheet with specs, wiring diagram, and operation procedures available at www.edcousa.net.



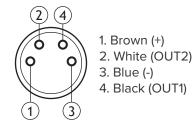
100 Series Digital Sensors



		DVN-100	DVP-100		
Rated Pressure Range:		-29.5 [~] 29.5 inHG			
Setting Pressur	ting Pressure Range: -29.5 ~ 29.5 inHG		29.5 inHG		
Withstand Pres	sure:	88.6 inHG			
Fluid:		filtered air, non-corrosiv	e / non-flammable gases		
	kPa	0.1			
	kgf/cm ²	0.	001		
	bar	0.	001		
Set Pressure Resolution:	psi	0	.01		
	inHg		D.1		
	mmHg		1		
	mmH ₂ O		D.1		
Power Supply \	/oltage:	12 to 24 V DC ± 10%,	ripple (P-P) 10% or less		
Current Consur	nption:	≤5	5mA		
Switch Output:		NPN: open collector 2 outputs max. load current: 100mA max. supply voltage: 30 V DC residual voltage: ≤ 1V PNP: open collector 2 outputs max. load current: 100mA max. supply voltage: 24 V DC residual voltage: ≤ 1V			
Repeatability (S	Switch Output):	± 0.2% F.S. ± 1 digit			
Hysteresis Mode:		adjustable			
Hysteresis:	Window Comparator Mode:	fixed (:	fixed (3 digits)		
Response Time		≤ 2.5 ms (chattering-proof function:	24 ms, 192 ms and 768ms selections)		
Output Short C	ircuit Protection:	у	es		
7 Segment LED	Display:	3 1/2 digit LED display (sa	mpling rate: 5 times / 1 sec)		
Indicator Accur	acy:	± 2% F.S. ± 1 digit (ambie	nt temperature 25 ± 3° C)		
Indicator:		OUT 1 = gree	n, OUT 2 = red		
	Enclosure:	IP	40		
	Ambient Temp. Range:	operation: 0 ^ 50° C, storage: -20 ^	60° C (no condensation or freezing)		
	Ambient Humidity Range:	operation / storage: 35 ~	85% RH (no condensation)		
Environment:	Withstand Voltage:	1,000 V AC in 1-min (bet	ween case and lead wire)		
		50 M Ω (at 500 v DC, between case and lead wire)			
	Shock:	980m/s^2 (100 G), 3 times each in direction of x, y, and z			
Temperature Characteristic:		\pm 2% F.S. of detected pressure (25°C) at temp. rang of 0 $^{\sim}$ 50°C			
Port Size:		G 1/8-27 NPS male, M5 female			
Lead Wire:		oil-restistant cable (0.15mm²)			
Weight:		approximately 35g (with M8, 4-pin male connector)			



Switch OUT1 (Green LED) Switch OUT2 (Red LED)



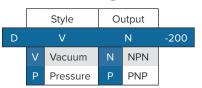
Order Cables Separately

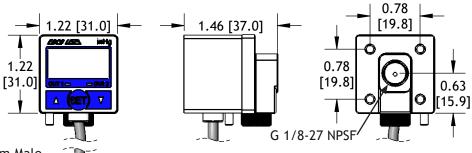
Part Number	Description	
4QD2	4-Pin Quick Disconnect, 2 M	
4QD5	4-Pin Quick Disconnect, 5 M	



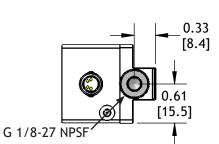
Vacuum System Accessories -

200 Series Digital Sensors

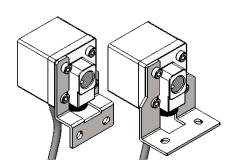




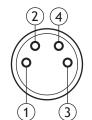
150 mm Cable w/ 8 mm Male 4-Pin Connector



		DV200	DP200	
Rated Pressure Range:		0 ~ 29.5 inHg	0 ~ 145.0 psi	
Setting Pressure Range:		3.0 ~ 29.9 inHg	-14.5 ~ 145.0 psi	
Withstand Press	sure:	29.0 psi	200.0 psi	
Fluid:		filtered air, non-corrosive	e / non-flammable gases	
kPa		0.1		
	mPa	-	0.001	
	kgf/cm²	0.001	0.01	
Set Pressure	bar	0.001	0.01	
Resolution:	psi	0.01	0.1	
	inHg	0.1	-	
	mmHg	1	-	
	mmH ₂ O	0.1	-	
Power Supply Voltage:		12 to 24 V DC ± 10%, r	ipple (P-P) 10% or less	
Current Consun	nption:	≤ 55	imA	
Switch Output:		NPN: open collector 2 outputs max. load current: 80mA max. supply voltage: 30 V DC residual voltage: ≤ 1V	PNP: open collector 2 outputs max. load current: 80mA max. supply voltage: 24 V DC residual voltage: ≤ 1V	
Repeatability (Switch Output):		± 0.2% F.S. ± 1 digit		
Hysteresis:	Hysteresis Mode:	adjustable		
riyateresis.	Window Comparator Mode:	fixed (3	digits)	
Response Time		≤ 2.5 ms (chattering-proof function: 24 ms, 192 ms and 768ms selections)		
Output Short Ci	rcuit Protection:	ye	es	
7 Segment LED	Display:	3 1/2 digit LED display (sampling rate: 5 times / 1 sec)		
Indicator Accura	асу:	± 2% F.S. ± 1 digit (ambiei	nt temperature 25 ± 3° C)	
Indicator:		OUT 1 = green, OUT 2 = red		
	Enclosure:	IP65		
	Ambient Temp. Range:	operation: 0 ~ 50°C, storage: -20 ~ 60°C (no condensation or freezing)		
	Ambient Humidity Range:	operation / storage: 35 $^{\sim}$ 85% RH (no condensation)		
Environment:	Withstand Voltage:	1,000 V AC in 1-min (betv	veen case and lead wire)	
	Insulation Resistance:	50 MΩ (at 500 V DC, bet	ween case and lead wire)	
	Vibration:	total amplitude 1.5mm, 10 Hz - 55 Hz - 10 Hz scan for 1 minute, 2 hours each direction of x, y, and z		
Shock:		980m/s^2 (100 G), 3 times each in direction of x, y, and z		
Temperature Characteristic:		\pm 2% F.S. of detected pressure (25°C) at temp. rang of 0 $^{\prime\prime}$ 50°C		
Port Size:		G 1/8-27 NPS female		
Lead Wire:		oil-restistant cable (0.15mm²)		
Weight: approximately 71 g (with M8, 4-pin male connector)		18, 4-pin male connector)		



BT200-A Optional Mounting Brackets



- 1. Brown (+)
- 2. White (OUT2)
- 3. Blue (-)
- 4. Black (OUT1)

Order Cables Separately

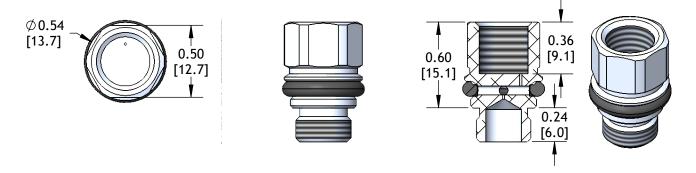
Part Number	Description	
4QD2	4-Pin Quick Disconnect, 2 M	
4QD5	4-Pin Quick Disconnect, 5 M	



VSP-18: Vacuum Switch Protector

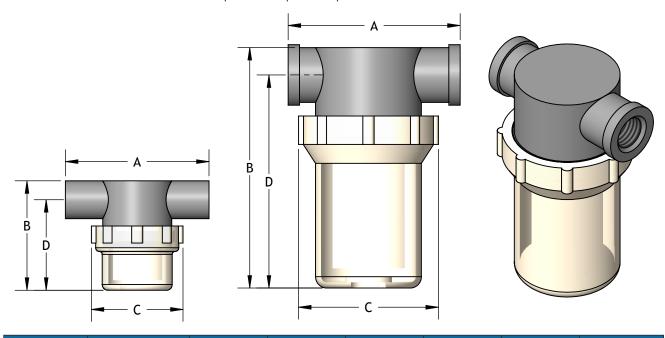
Bi-directional VSP-18 protects vacuum switches or gauges from positive pressure spikes by relieving pressure in excess of 10 psi [0.7 bar] to atmosphere.

Connects to 1/8-27 NPSF or G 1/8-28 threads.



T-Style Vacuum Filters

Our T-Style Vacuum Filters are made of rugged nylon body with a transparent nylon bowl for checking the condition of the filter at a glance. HDPE filter elements can be easily and quickly replaced without disturbing the system plumbing. T-Style Vacuum Filters are rated for full vacuum or pressure up to 150 psi.



Part Number	Ports	A in [mm]	B in [mm]	C in [mm]	D in [mm]	Weight lb [g]	Filter Element (3 Pack)
PPSF125X10	1/8 NPT Female	3.06 [77.7]	2.42 [61.5]	1.86 [47.2]	1.98 [50.3]	0.13 [59.0]	PPX10RE3
PPSF250X10	1/4 NPT Female	3.06 [77.7]	2.42 [61.5]	1.86 [47.2]	1.98 [50.3]	0.11 [49.9	PPX10RE3
PPSF250MX10	1/4 NPT Male	3.06 [77.7]	2.42 [61.5]	1.86 [47.2]	1.98 [50.3]	0.11 [49.9]	PPX10RE3
PPSF375X10	3/8 NPT Female	3.06 [77.7]	2.42 [61.5]	1.86 [47.2]	1.98 [50.3]	0.16 [72.6]	PPX10RE3
PPSF500X35	1/2 NPT Female	3.64 [92.5]	5.35 [136.0]	2.95 [74.9]	4.80 [122.0]	0.37 [168.0]	PPX35RE3
PPSF750X35 ¹	3/4 NPT Female	3.60 [91.4]	5.40 [137.2]	2.93 [74.4]	4.68 [118.7]	0.40 [181.0]	PPX35RE3
PPSF100X50 ¹	1 NPT Female	4.62 [117.0]	6.36 [162.0]	4.00 [102.0]	5.60 [146.0]	0.94 [426.0]	PPX50RE3
PPSF150X75	1-1/2 NPT Female	5.16 [131.0]	8.10 [206.0]	4.00 [102.0]	6.93 [176.0]	1.18 [535.0]	PPX75RE3

^{&#}x27;These sizes are available in polypropylene. Add suffix -PP for polypropylene body and bowl. Bowl will be opaque, NOT transparent.

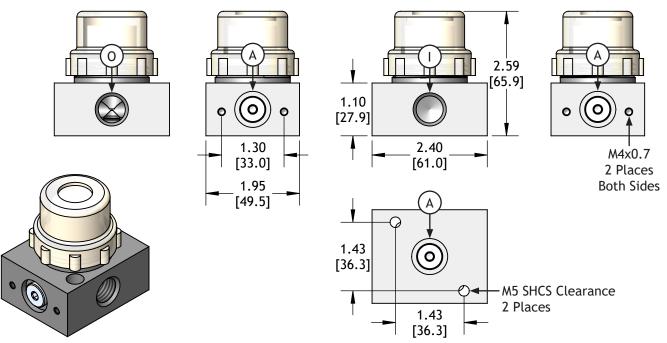


Aluminum Base Filters

EDCO aluminum base filters work in the same way as our t-style filters. An aluminum base allows for easy mounting of the filter. A clear, nylon bowl allows for quick inspection of the HDPE filter element. When it's time to change the element, the bowl can easily be removed to replace the filter very quickly. We stock standard replacement bowls, gaskets, and filter elements. Optional mounting plates are offered for applications where mounting via the bottom face is not desired.

ASF375X10: Aluminum Base Filter, 3/8 NPTF

Replacement Filter Elements: PPX10RE3

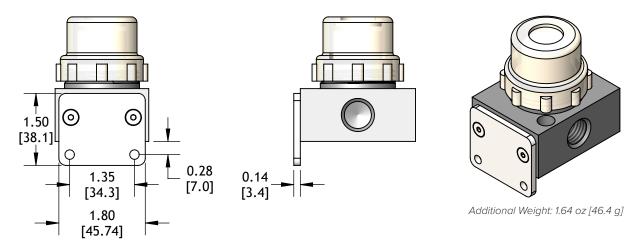


Weight: 8.22 oz [233.0 g]

Code	Function	Ports
	Flow In	3/8 NPTF
0	Flow Out	3/8 NPTF
А	Auxiliary / Monitor	G 1/8 NPSF

ASF-X10-K: Mounting Kit

Optional mounting kit includes a steel bracket and two flat head cap screws.



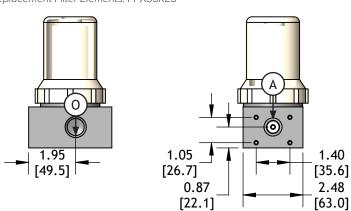


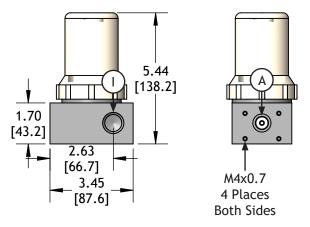
Aluminum Base Filters

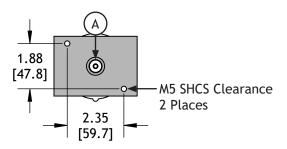
Aluminum Base Filter w/ 1/2" & 3/4" Ports

	Size			Threads	
ASF	500		X35		
	500	1/2" Ports		(Blank)	NPT Threads
	750	3/4" Ports		-G	G Threads

Replacement Filter Elements: PPX35RE3

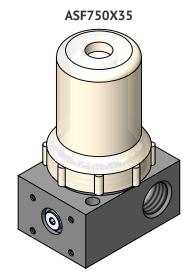






ASF500X35

Weight: 25.70 oz [728.6 g]



Weight: 24.38 oz [691.1 g]

Code	Function	ASF500X35	ASF500X35-G	ASF75X35	ASF75X35-G
- 1	Flow In	1/2 NPTF	G 1/2	3/4 NPTF	G 3/4
0	Flow Out	1/2 NPTF	G 1/2	3/4 NPTF	G 3/4
А	Auxiliary / Monitor	G 1/8 NPSF			

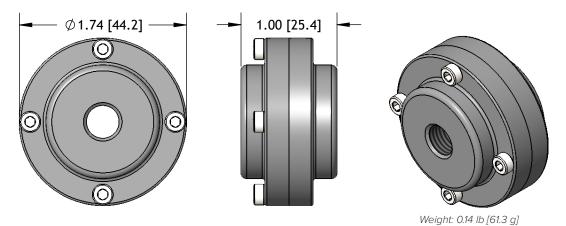


F10-18F: In-Line Filter

The rugged F10-18F in-line filter is designed to carry the full load of 50 mm and smaller vacuum cups. The in-line filter is ideal for use with Flow Sensor or Tri-Flow Valves in extremely dusty environments such as woodworking shops. The F10-18F provides more than 10 times the surface area of a standard FSV filter disk, providing a longer life. A quick-release (blow-off) may be used to momentarily back-flow the filters to help keep them clean.

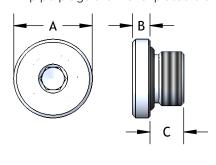
Construction: anodized aluminum body, polyethylene element, and stainless steel fasteners

Replacement Filter Disk: FD-116



Pipe Plugs

All pipe plugs are nickel plated aluminum with a Nitrile o-ring seal.

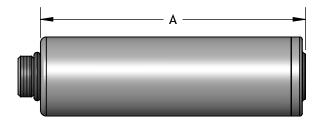


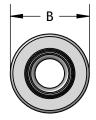
Part Number	Fits Threads	A in [mm]	B in [mm]	C in [mm]	Hex Wrench	Weight oz [g]
P10	M5x0.8 10-32 UNF	0.31 [7.9]	0.07 [1.8]	0.12 [3.0]	2 mm	0.01 [0.3]
P18	1/8-27 NPSF G 1/8-28	0.47 [12.0]	0.12 [3.0]	0.24 [6.0]	4 mm	0.07 [2.0]
P14	1/4-18 NPT G 1/4-19	0.56 [14.0]	0.08 [2.0]	0.26 [6.6]	6 mm	0.10 [2.9]
P38	3/8-18 NPSF G 3/8-19	0.71 [18.0]	0.12 [3.0]	0.27 [6.9]	5 mm	0.18 [5.2]
P12	1/2-14 NPSF G 1/2-14	0.95 [24.0]	0.12 [3.0]	0.43 [11.0]	10 mm	0.98 [28.0]



Silencers

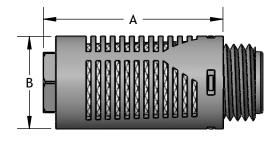
Straight Thru Silencers (ST)





Part Number	Threads	A in [mm]	B in [mm]	Weight oz [g]
STA18M	G 1/8 NPS	2.65 [67.3]	0.74 [18.8]	0.25 [7.1]
STA14M	G 1/4 NPT	2.65 [67.3]	0.74 [18.8]	0.25 [7.1]
STB38M	G 3/8 NPT	4.14 [105.2]	1.24 [31.5]	0.74 [2.10]
STB12M	G 1/2 NPS	4.14 [105.2]	1.24 [31.5]	0.78 [22.1]
STC12M	G 1/2 NPS	4.12 [104.6]	1.48 [37.6]	1.09 [30.9]
STC34M	G 3/4 NPT	4.12 [104.6]	1.48 [37.6]	1.16 [32.9]
STC10M	G 1 NPT	4.12 [104.6]	1.48 [37.6]	1.31 [37.1]
STC12M-6	G 1/2 NPS	6.00 [152.4]	1.48 [37.6]	1.59 [45.1]
STC34M-6	G 3/4 NPT	6.00 [152.4]	1.48 [37.6]	1.66 [47.1]
STC10M-6	G 1 NPT	6.00 [152.4]	1.48 [37.6]	1.76 [49.9]

Side Discharge Silencers (AA)



Part Number	Threads	A in [mm]	B in [mm]	Weight oz [g]
AA18M	1/8 NPT	1.18 [30.1]	0.60 [15.2]	0.11 [3.1]
AA14M	1/4 NPT	1.18 [30.1]	0.60 [15.2]	0.14 [4.0]
AA38M	3/8 NPT	1.87 [47.5]	0.96 [24.3]	0.21 [6.0]
AA12M	1/2 NPT	1.87 [47.5]	0.96 [24.3]	0.46 [13.0]