ARROW's PREMIUM LINE

SINTERED BRONZE

BREATHER VENTS

These breather vents have many applications, including vacuum relief or pressure equalization on gear boxes, oil tanks or reservoirs. Common uses can be found on single acting cylinders or valves to prevent dirt and foreign particles from entering ports open to the atmosphere.

Units have a nickel plated steel insert. All have standard pipe thread fittings for quick assembly and removal for cleaning. The filter element within the standard breather vent is rated for 40 micron filtration and can also be obtained for 20 or 90 micron filtration on special order.

See performance charts for flow characteristics.

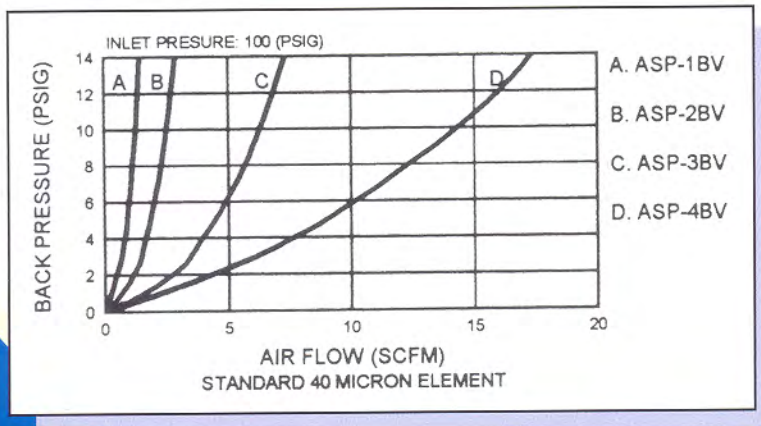
Maximum operating temperature: 150 PSI
Operating temperature: 35°F to 300°F

Part No. NPT	Part No. BSP	Thread Size	Overall Length	Dia.	Weight Lbs.
ASP-1BV	ASP-1BVBS	1/8"	7/16"	7/16"	.01
ASP-2BV	ASP-2BVBS	1/4"	5/8"	9/16"	.02
ASP-3BV	ASP-3BVBS	3/8"	3/4"	11/16"	.04
ASP-4BV	ASP-4BVBS	1/2"	7/8"	7/8"	.06
ASP-6BV		3/4"	1"	1-1/16"	.10
ASP-8BV		1"	1-5/16"	1-5/16"	.23
ASP-10BV		1-1/4"	1-13/32"	1-11/16"	.41
ASP-12BV		1-1/2"	1-1/2"	2"	.56

Flow Characteristics—Breather Vents

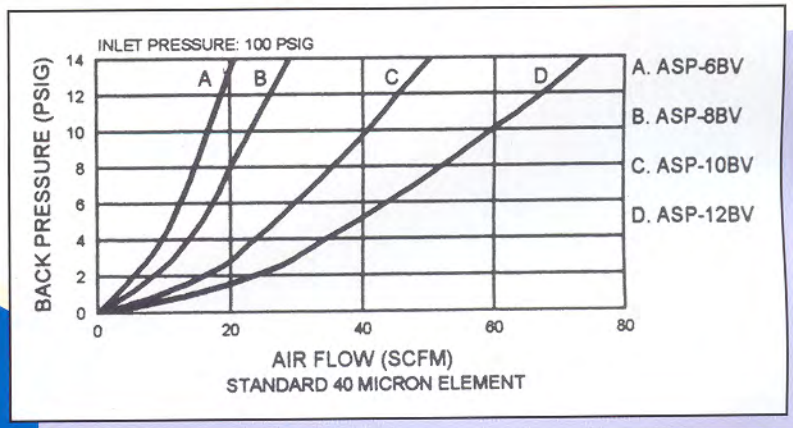
ASP-1BV, ASP-2BV, ASP-3BV, ASP-4BV

Back Pressure vs. Air Flow

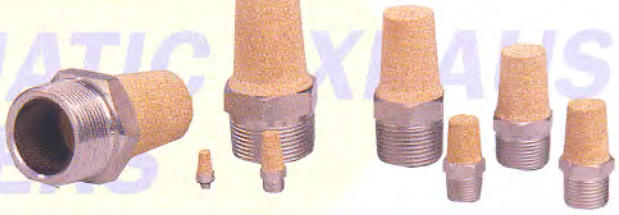


ASP-6BV, ASP-8BV, ASP-10BV, ASP-12BV

Back Pressure vs. Air Flow



PNEUMATIC EXHAUST MUFFLERS



Quiet Flow muffler/filters utilize porous sintered bronze directly bonded to nickel plated steel pipe thread fillings to diffuse air and muffle noise from the exhausted ports or valves, cylinders and air tools. These units offer a combination of small size with the greatest possible sound deadening qualities to reduce exhaust noise to acceptable levels within OHSA noise requirements.

In addition, these units are used as filters for gasoline, oil and air. Standard unit contains a 40 micron element, and 20 or 90 micron units are available on special order. Model ASP-420 is a female thread (1/2" - 20) muffler for use on exhaust ports of most solenoid valves. It can be used with "exhaust to atmosphere" valves, including Skinner, Peter Paul, Allied, KIP, Pre Dyne or any muffler using 1/2" - 20 threads on the sleeve.

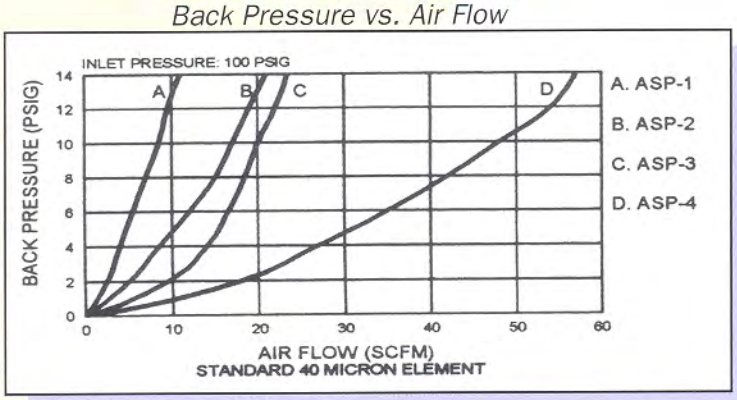
Maximum operating pressure: 300 PSI
Operating temperature: 35°F to 300°F

Part No. NPT	Part No. BSP	Thread Size	Overall Length	Dia.	Weight Lbs.
ASP-M*		10"-32	45/64"	5/16"	.01
ASP-1	ASP-1BS	1/8"	1-1/8"	7/16"	.02
ASP-2	ASP-2BS	1/4"	1-3/8"	9/16"	.04
ASP-3	ASP-3BS	3/8"	1-1/2"	11/16"	.06
ASP-4	ASP-4BS	1/2"	1-7/8"	7/8"	.10
ASP-6	consult factory	3/4"	2-1/4"	1-1/16"	.18
ASP-8	consult factory	1"	2-7/8"	1-5/16"	.34
ASP-10	consult factory	1-1/4"	3-1/4"	1-11/16"	.62
ASP-12	consult factory	1-1/2"	3-11/16"	2"	.88
ASP-420**		1/2"-20	1-3/16"	5/8"	.04

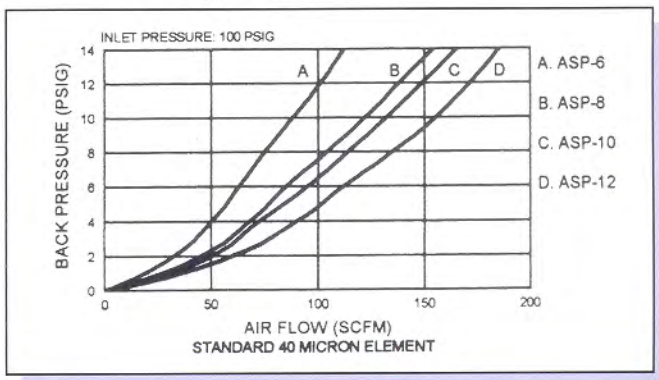
** Furnished with gasket.*
*** Female threads fits most solenoid valve exhaust ports.*

Flow Characteristics—Pneumatic Exhaust Mufflers

ASP-1 ASP-2 ASP-3, ASP-4
Back Pressure vs. Air Flow



ASP-6, ASP-8, ASP-10, ASP-12
Back Pressure vs. Air Flow



Sound Characteristics—Pneumatic Exhaust Mufflers

	ASP-1: 1/8"		ASP-2: 1/4"		ASP-3: 3/8"		ASP-4: 1/2"		ASP-6: 3/4"		ASP-8: 1"		ASP-10: 1-14/"		ASP-12: 1-1/2"	
Back Pressure PSIG	Flow SCFM	dB	Flow SCFM	dB	Flow SCFM	dB	Flow SCFM	dB	Flow SCFM	dB	Flow SCFM	dB	Flow SCFM	dB	Flow SCFM	dB
1													38	102	52	111
2	4	72	5	75	9.5	81	17	92	32	99	45	109				
3													54	103	82	112
4	5	72	8	75	14	83	28	94	50	101	68	107				
5													70	107	108	111
6	6	73	12	76	16.5	83	35	98	63	101	84	106				
7													85	106	126	110
8	7	73	15	82	18.5	83	42	99	75	102	104	106				
9													110	105	150	109
10	7	76	16	83	20	84	48	100	88	102	122	106				
11													131	105	162	109
12	9	78	19	84	22	84	53	101	101	102	138	106				
13													154	105		
14	11	80	21	84	23.5	85	57	101	112	103	154	106				

Inlet pressure 100 psi

SUPER QUIET FLOW ECONOMY PNEUMATIC SILENCER MUFFLERS

A new concept in muffler design incorporates a 50 mesh, self-cleaning, stainless steel screen in a strong, protective glass-filled nylon housing which is ultrasonically welded for maximum strength.

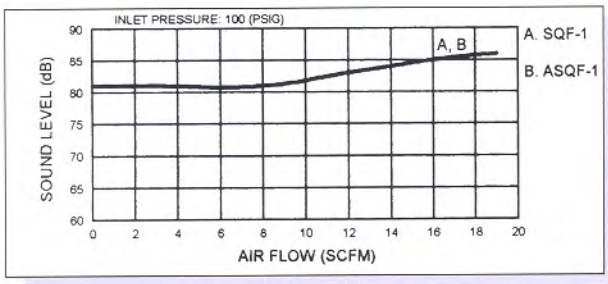
This unit offers greater flow with less pressure drop than the ASP Series, while reducing noise levels. See performance charts for flow information and sound characteristics.

Maximum operating pressure: 150 PSI
Operating temperatures: 35°F to 120°F

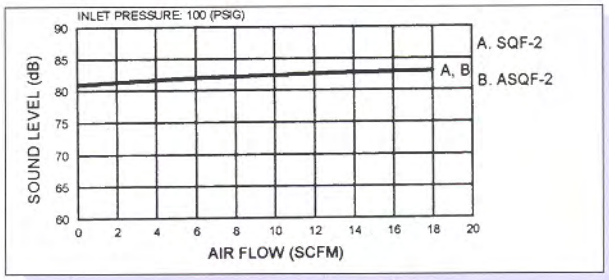
Part No.	NPT	Overall Length	Diameter	Weight lbs.
SQF-1	1/8"	2 7/64"	13/16"	.02
SQF-2	1/4"	2 15/64"	13/16"	.03
SQF-3	3/8"	3 27/64"	1 1/4"	.09
SQF-4	1/2"	3 35/64"	1 1/4"	.09

Sound Characteristics – Pneumatic Silencers / Mufflers

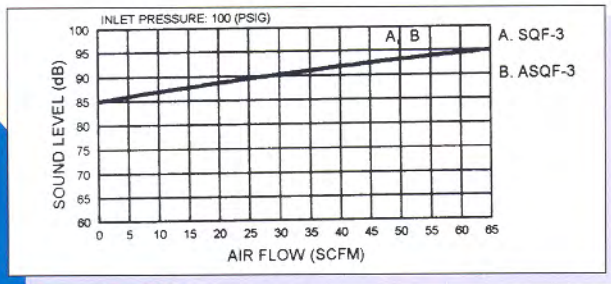
SQF-1 & ASQF-1
dB Rating vs. Air Flow



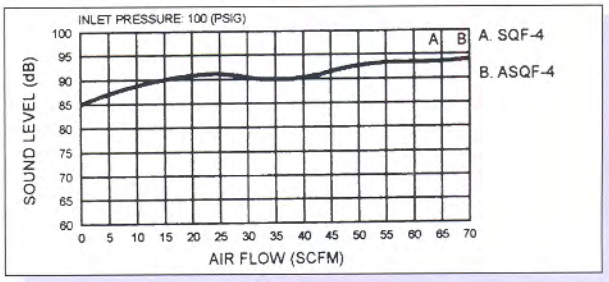
SQF-2 & ASQF-2
dB Rating vs. Air Flow



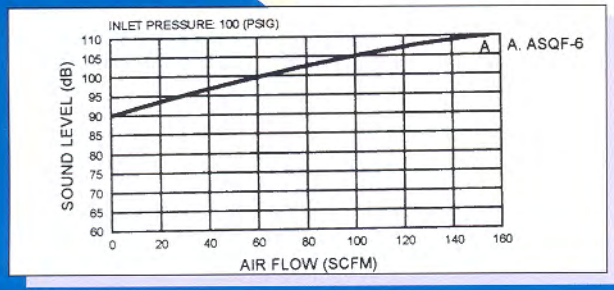
SQF-3 & ASQF-3
dB Rating vs. Air Flow



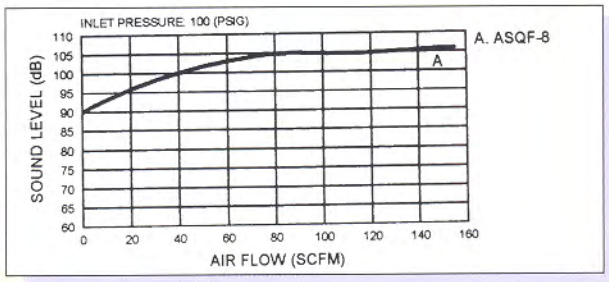
SQF-4 & ASQF-4
dB Rating vs. Air Flow



ASQF-6
dB Rating vs. Air Flow



ASQF-8
dB Rating vs. Air Flow



SUPER QUIET FLOW HEAVY-DUTY METAL PNEUMATIC SILENCER MUFFLERS

Units 1/8" through 1" feature a 50 mesh, self-cleaning, stainless steel screen, corrosion-resistant aluminum shell, high flow and minimal back pressure.

When installed on the exhaust ports of pneumatic valves, metal pneumatic silencers are a quick and inexpensive way to help reduce work area noise. At the same time, they protect the inside of pneumatic valves from contamination which can enter through the exhaust ports.

See performance charts for flow information and sound characteristics.

SHELL CONSTRUCTION: Aluminum.

Maximum supply pressure: 300 PSI
Operating temperatures: 35°F to 160°F

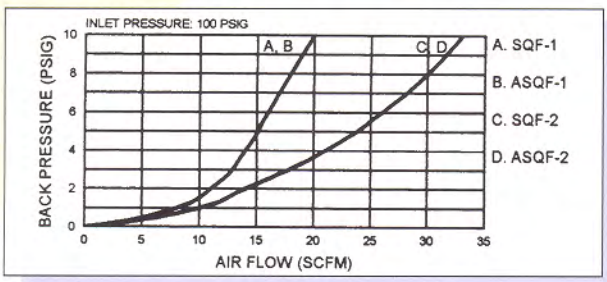
CAUTION: Operation at temperatures approaching 32°F could result in freeze up due to air line moisture.

Part No.	NPT Female	Overall Length	Flats	Weight Lbs.
ASQF-1F	1/8"	1 7/8"	5/8"	.05
ASQF-2F	1/4"	1 7/8"	5/8"	.06
ASQF-3F	3/8"	3 1/4"	1"	.23
ASQF-4F	1/2"	3 1/4"	1"	.38
ASQF-6F	3/4"	4 5/8"	1 5/8"	.56
ASQF-8F	1"	4 5/8"	1 5/8"	.58
ASQF-10F	1 1/4"	5 1/2"	2 1/2"	.75
ASQF-12F	1 1/2"	5 1/2"	2 1/2"	.81
ASQF-16F	2"	6 7/16"	3"	1.62

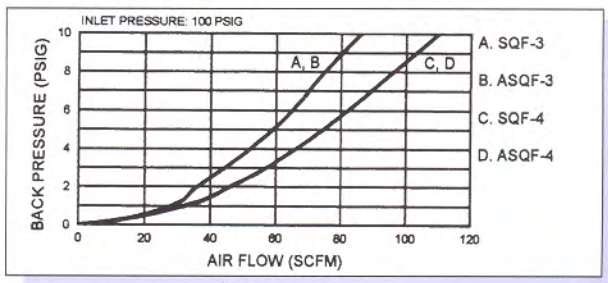
Part No.	NPT Male	Overall Length	Flats	Weight Lbs
ASQF-1M	1/8"	1 7/8"	5/8"	.06
ASQF-2M	1/4"	1 7/8"	5/8"	.06
ASQF-3M	3/8"	3 1/4"	1"	.21
ASQF-4M	1/2"	3 1/4"	1"	.23
ASQF-6M	3/4"	4 5/8"	1 5/8"	.56
ASQF-8M	1"	4 5/8"	1 5/8"	.58

Flow Characteristics – Pneumatic Silencers / Mufflers

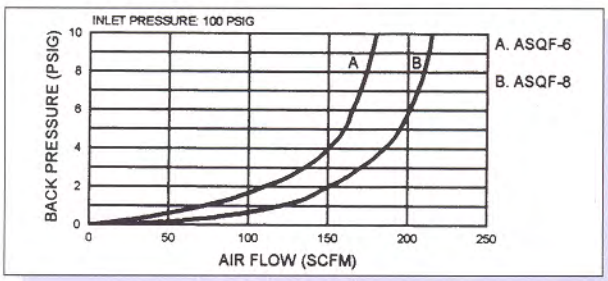
SQF-1, SQF-2, ASQF-1 & ASQF-2
Back Pressure vs. Air Flow



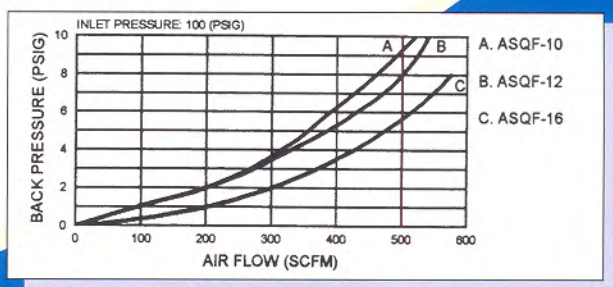
SQF-3, SQF-4, ASQF-3 & ASQF-4
Back Pressure vs. Air Flow



ASQF-6 & ASQF-8
Back Pressure vs. Air Flow



ASQF-10, ASQF-12 & ASQF-16
Back Pressure vs. Air Flow



SUPER QUIET FLOW RECLASSIFIERS/ MUFFLERS

The reclassifier / muffler is used to treat exhaust air in many in-plant and white room pneumatic operations. It can be installed as a completely new unit or its patented coalescing reclassifier element can be purchased separately for installation on existing ASQF mufflers.

Meets OSHA limits set to reduce sound levels and exhausted oil mist.

Per OSHA 1910.95, a worker must not be exposed to sound levels above 90 dBA for any eight-hour work shift of a 40-hour work week. Per OSHA 29CFR 1910.10, a worker's cumulative exposure to oil mist must not exceed 4.32 particles per million (PPM) in any eight-hour work shift of a 40-hour work week. Based on an intake of 50 PPM at 100 PSIG, the reclassifier / muffler reduces the exhausted oil mist to .015 PPM. The reservoir has a drain plug that is also designed for use with continuous 1/4" drain tubing.

PATENTED
Used Reclassifer Element Removes - Muffler Stays in Place

PATENTED WRAP DESIGN

Maximum operating conditions: 160 SCFM, 300 PSIG
Maximum operating temperature: 160°F

RECLASSIFIER / MUFFLER

Part No.*	NPT	Overall Length	Width	Reservoir Capacity	Weight Lbs.
RQM20-1M RQM20-1F	1/8"	3 1/8"	1 5/8"	.5 oz.	.075
RQM20-2M RQM20-2F	1/4"	3 1/8"	1 5/8"	.5 oz.	.075
RQM40-3M RQM40-3F	3/8"	4 3/4"	2 7/16"	1.4 oz.	.220
RQM40-4M RQM40-4F	1/2"	4 3/4"	2 7/16"	1.4 oz.	.220
RQM80-6M RQM80-6F	3/4"	6 1/4"	3 5/16"	3.5 oz.	.575
RQM80-8F RQM80-8F	1"	6 1/4"	3 5/16"	3.5 oz.	.575

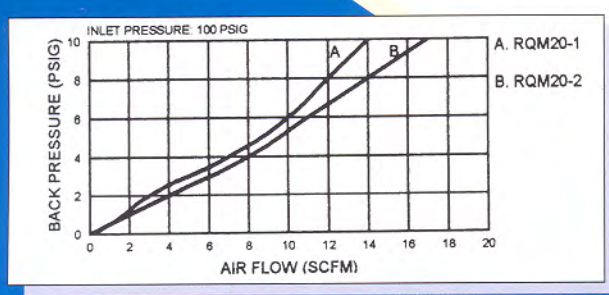
** Suffix designates F female thread, M male thread*

RECLASSIFIER REPLACEMENT ELEMENT

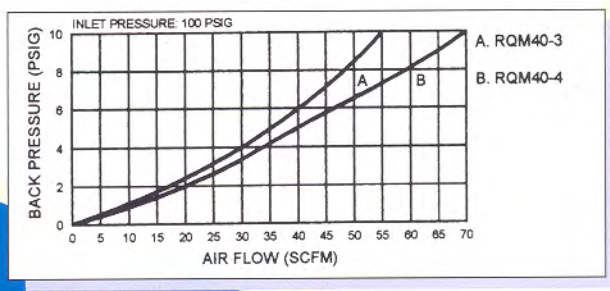
Part No.	Overall Length	Width	Weight Lbs.
RQMK20 RQMK20	2 3/4"	1 5/8"	.04
RQMK20 RQMK20	2 3/4"	1 5/8"	.04
RQMK40 RQMK40	4 5/16"	2 7/16"	.10
RQMK40 RQMK40	4 5/16"	2 7/16"	.10
RQMK80 RQMK80	5 1/2"	3 5/16"	.21
RQMK80 RQMK80	5 1/2"	3 5/16"	.21

Flow Characteristics – Reclassifiers / Mufflers

RQM20-1 & RQM20-2
Back Pressure vs. Air Flow

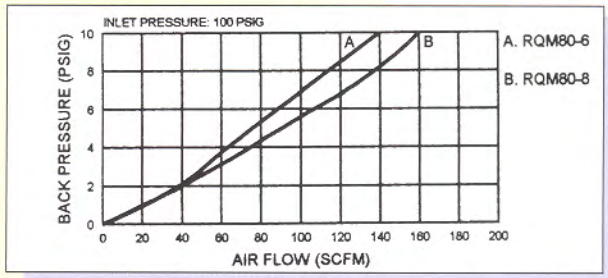


RQM40-3 & RQM40-4
Back Pressure vs. Air Flow



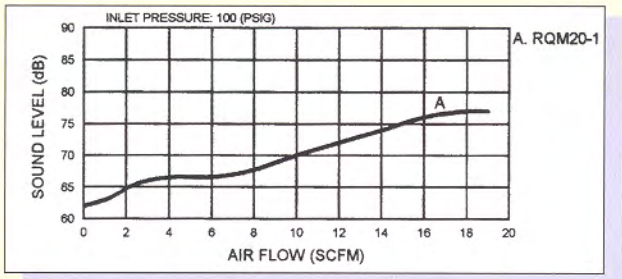
Flow Characteristics Reclassifiers / Mufflers (continued)

RQM80-6 & RQM80-8
Back Pressure vs. Air Flow

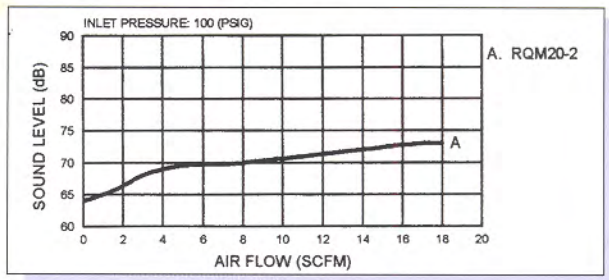


Sound Characteristics Reclassifiers / Mufflers

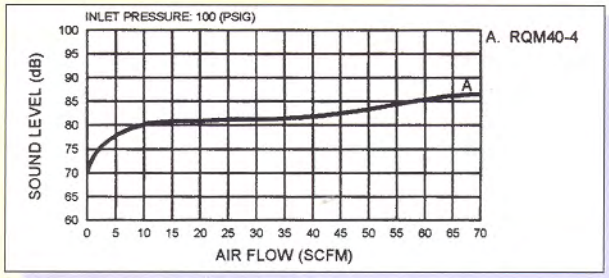
RQM20-1
dB Rating vs. Air Flow



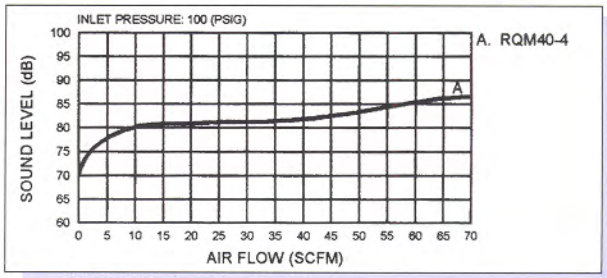
RQM20-2
dB Rating vs. Air Flow



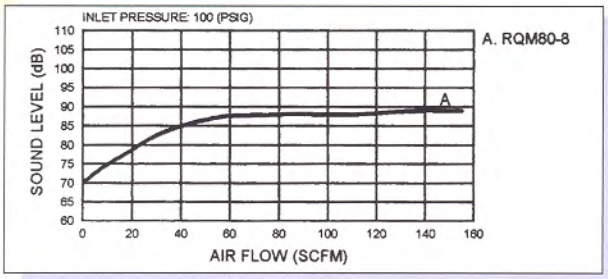
RQM40-3
dB Rating vs. Air Flow



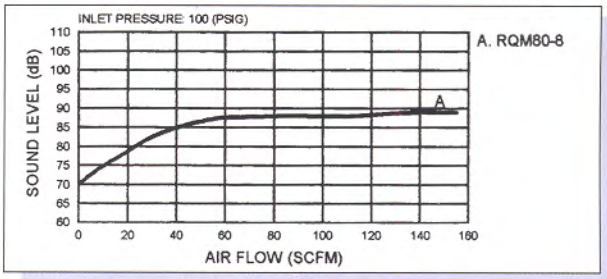
RQM40-4
dB Rating vs. Air Flow



RQM80-6
dB Rating vs. Air Flow



RQM80-8
dB Rating vs. Air Flow



SPEED CONTROL MUFFLERS

Quiet Flow speed control mufflers provide an infinite variation of metering air flow at an acceptable sound level on exhaust ports of air valves with complete safety.

With linear adjusting ability, the speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw. The final position is then locked in place by the lock nut. Objectionable exhaust air noise is eliminated by the surrounding sleeve of sintered bronze.

Complete safety in operation is featured in Quiet Flow speed control mufflers. The sintered bronze sleeve is held securely in position and protected by an integral shroud. Unit contains a 40 micron element.

High flow units offer more surface area for increased flow.

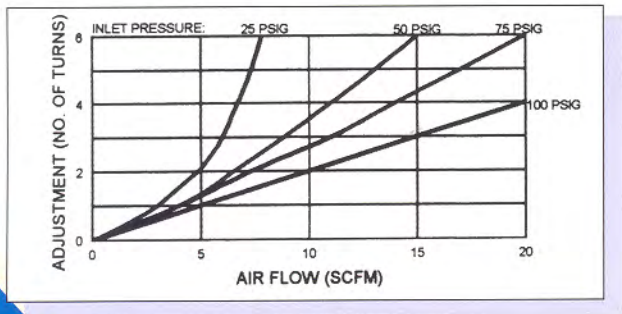
Maximum operating pressure: 300 PSI
Operating temperatures: 35°F to 300°F

Part No.*	NPT	Max Adj Flow SCFM	Approx Height Full Oper	Hex	Weight Lbs
ASP-1SC	1/8"	20	1 5/16"	1/2"	.07
ASP-2SC	1/4"	30	1 9/16"	9/16"	.09
ASP-3SC	3/8"	40	1 5/8"	11/16"	.14
ASP-4SC	1/2"	60	2"	7/8"	.25
ASP-6SC	3/4"	70	2 3/8"	1 1/16"	.42
ASP-8SC	1"	100	2 1/2"	1 5/16"	.56
ASP-1SCH	1/8"	30	1 9/16"	9/16"	.09
ASP-2SCH	1/4"	40	1 5/8"	11/16"	.14
ASP-3SCH	3/8"	60	2"	7/8"	.25
ASP-4SCH	1/2"	70	2 3/8"	1 1/16"	.42

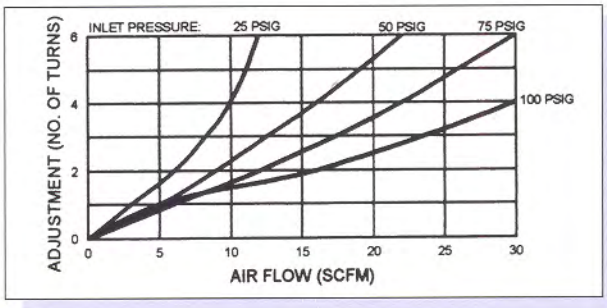
** Suffix H Indicates High Flow*

Flow Characteristics vs. Adjustment – Speed Control Mufflers

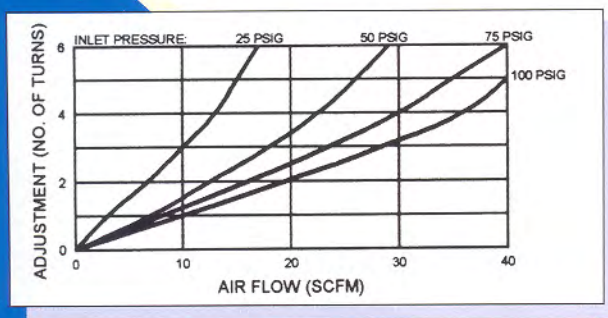
ASP-1SC
Adjustment vs. Air Flow



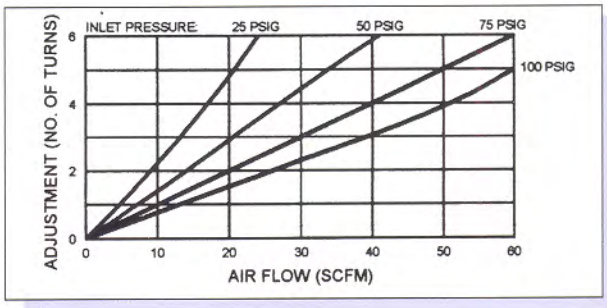
ASP-2SC & ASP-1SCH
Adjustment vs. Air Flow



ASP-3SC & ASP-2SCH
Adjustment vs. Air Flow

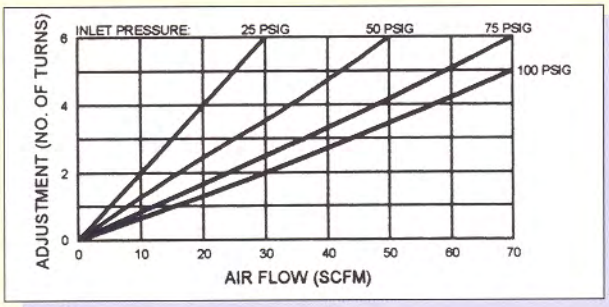


ASP-4SC & ASP-3SCH
Adjustment vs. Air Flow

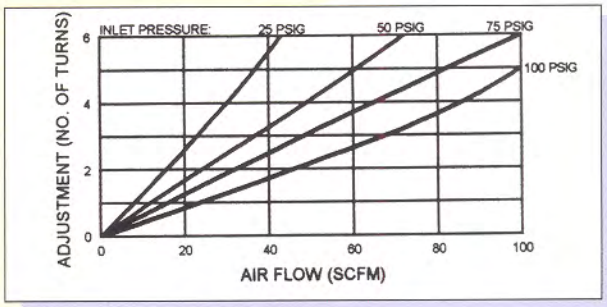


Flow Characteristics vs. Adjustment – Speed Control Mufflers (continued)

ASP-6SC & ASP-4SCH
Adjustment vs. Air Flow

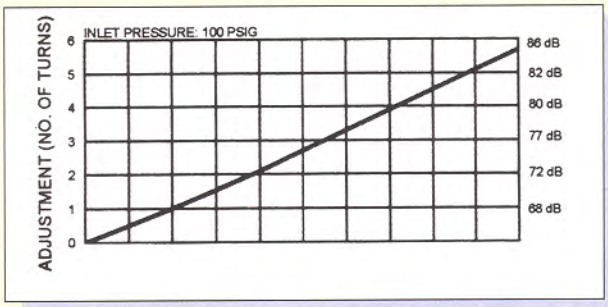


ASP-8SC
Adjustment vs. Air Flow

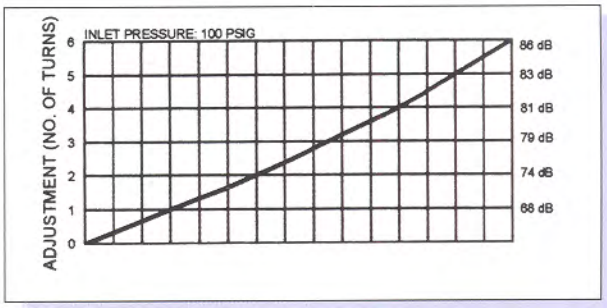


Sound Characteristics vs. Adjustment – Speed Control Mufflers

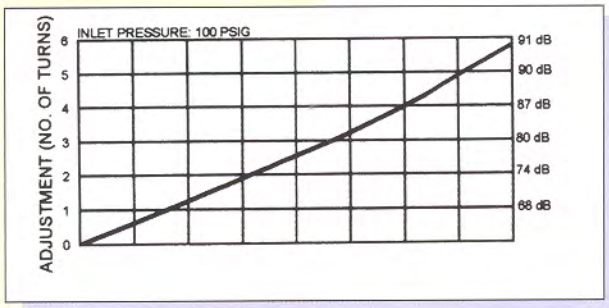
ASP-1SC
Adjustment vs. dB Rating



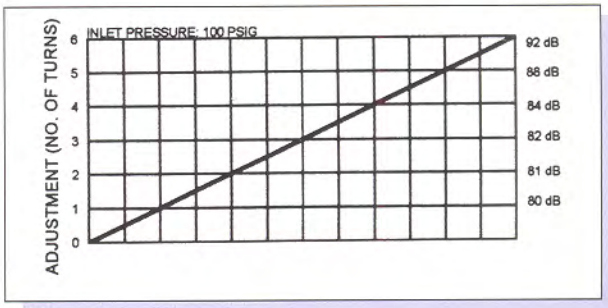
ASP-2SC & ASP-1SCH
Adjustment vs. dB Rating



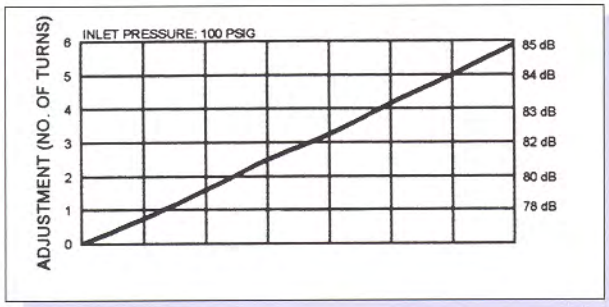
ASP-3SC & ASP-2SCH
Adjustment vs. dB Rating



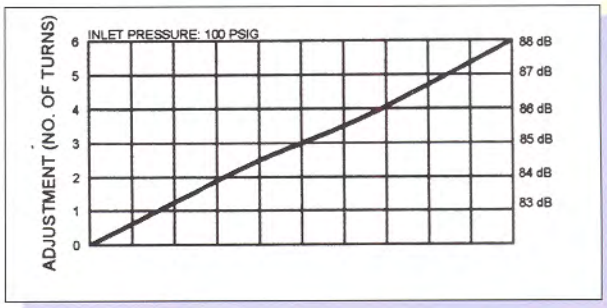
ASP-4SC & ASP-3SCH
Adjustment vs. dB Rating



ASP-6SC & ASP-4SCH
Adjustment vs. dB Rating



ASP-8SC
Adjustment vs. dB Rating



IN-LINE TOOL FILTER

This unique, compact in-line filter provides low pressure drop, high air flow and is designed for air tools. The inlet can be attached directly to pneumatic air tools, protecting the tool with a 40 micron sintered metal element. The bronze element has a large surface area allowing long service before cleaning. But best of all the filter weighs less than 1/2 ounce.

Maximum operating pressure: 500 PSIG
Operating temperatures: 35°F to 300°F

Part No.	NPT Male x Female	Overall Length	Hex	Weight Oz
9132	1/4"	1 9/16"	5/8"	.5

IN-LINE NIPPLE FILTERS

This inexpensive disposable in-line nipple filter is ideal for the filtration of water, oil and air. It is compact and lightweight and can be installed at the point of use. Unique unit construction features a brass fitting that contains a conically shaped, porous sintered bronze filter element. The shape of the filter element is conical, rather than disc, to provide a larger filtering flow and a true, uninterrupted axial flow.

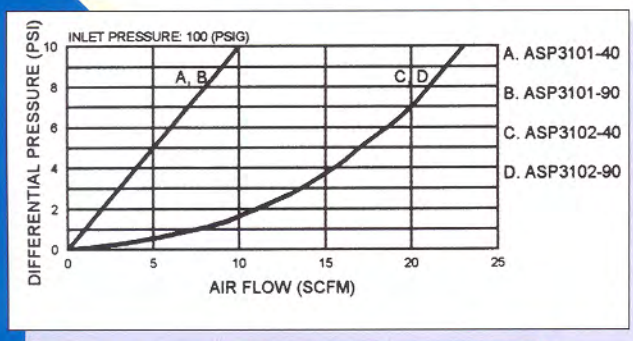
The porous sintered bronze element is available in the nominal filtration rating of 40 or 90 microns to insure minimum pressure drop.

Maximum operating pressure: 300 PSI
Operating temperatures: 35°F to 300°F

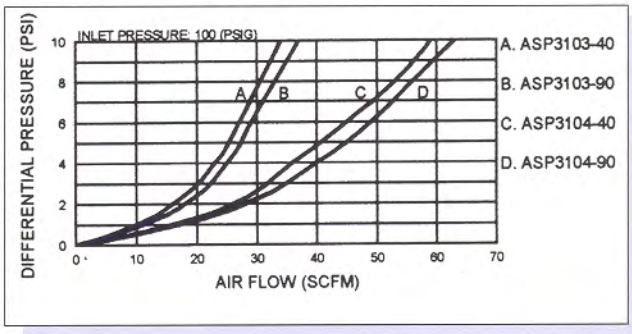
Part No.	NPT	Overall Length	Hex	Weight Lbs
ASP3101-40	1/8"	1 1/4"	7/16"	.04
ASP3101-90	1/8"	1 1/4"	7/16"	.04
ASP3102-40	1/4"	1 1/2"	9/16"	.08
ASP3102-90	1/4"	1 1/2"	9/16"	.08
ASP3103-40	3/8"	1 3/4"	11/16"	.14
ASP3103-90	3/8"	1 3/4"	11/16"	.14
ASP3104-40	1/2"	2"	7/8"	.86
ASP3104-90	1/2"	2"	7/8"	.86

Flow Characteristics – In-Line Nipple Filters

ASP3101 & ASP3102
Differential Pressure vs. Air Flow



ASP3103 & ASP3104
Differential Pressure vs. Air Flow



AIR/OIL IN-LINE TOOL FILTER

This in-line filter is designed specifically for the protection of small air tools, such as impact wrenches, nut runners, grinders and screwdrivers. It reduces downtime, prevents costly tool repairs and extends tool life.

The all-anodized, lightweight aluminum housing is compact and can be used directly before the air tool. Elements can be replaced quickly at nominal cost.

The standard element is 40 micron, which insures minimum pressure drop. Elements can be obtained in 20 or 90 micron filtration on special order.

The in-line filter can also be used in low pressure hydraulic applications. When using for hydraulic applications, a 20 micron element is recommended. Special viton O-rings are available for oil systems where chemical action may be a problem.

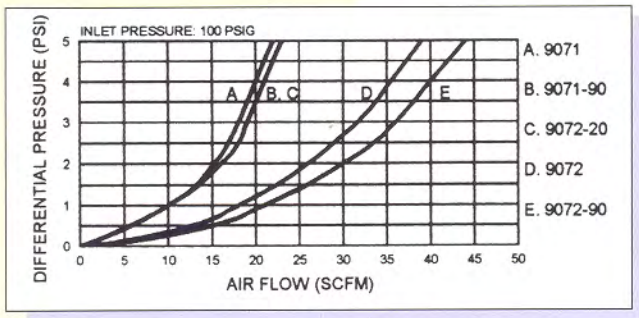
Maximum operating pressure: 500 PSI
Operating temperatures: 35°F to 200°F
For viton: 35°F to 400°F

Part No.*	NPT	Overall Length	Diameter	Weight Lbs	Element & Seal	Spring Kit
9071	1/8"	2 5/16"	3/4"	.08	EK9072	SK9072
9072	1/4"	2 5/16"	3/4"	.08	EK9072	SK9072
9073	3/8"	2 5/16"	3/4"	.08	EK9072	SK9072
9074	1/2"	3 1/4"	1 1/2"	.46	EK9074	SK9052
9074M	1/2"	3 13/16"	1 1/2"	.46	EK9074	SK9052
9076	3/4"	3 1/4"	1 1/2"	.46	EK9074	SK9052
9076M	3/4"	3 13/16"	1 1/2"	.46	EK9074	SK9052

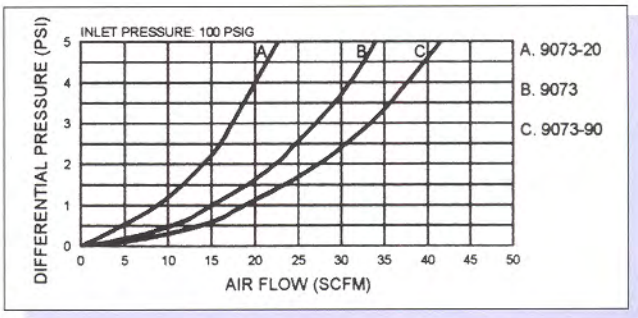
**Use Suffix V for viton seals. For 90 or 20 micron elements, use micron size as dash number and add to part no. (i.e. 9072-20; EK9072-20).*

Flow Characteristics – Air/Oil In-Line Filters

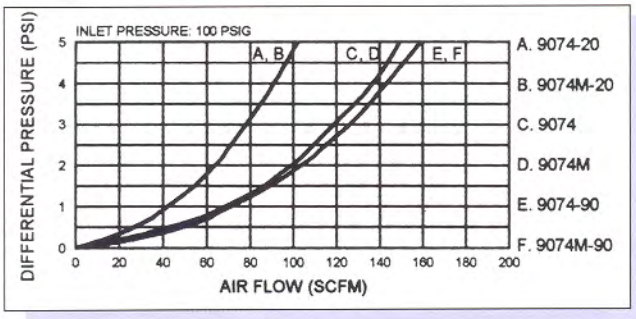
9071 & 9072
Differential Pressure vs. Air Flow



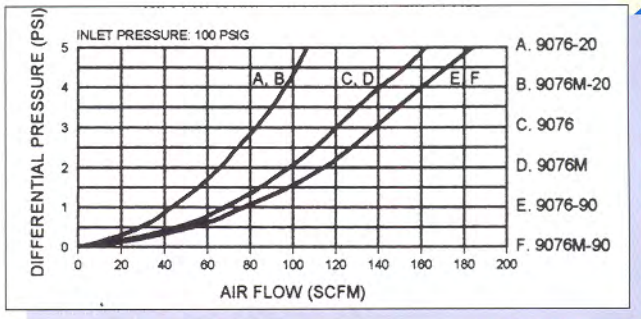
9073
Differential Pressure vs. Air Flow



9074 & 9074M
Differential Pressure vs. Air Flow



9076 & 9076M
Differential Pressure vs. Air Flow



HYDRAULIC IN-LINE FILTER

This hydraulic in-line filter provides protection for small, high pressure systems up to 3,000 PSI. By using this filter at the pressure side of a pump, foreign particles 25 microns and larger, such as those created by pump wear, are removed before damage can result to the valving in the system. A sintered bronze element ensures protection against crushing should dirt accumulate and increase pressure drop across the element.

The unique construction features an anodized aluminum housing for light weight, and a conically shaped sintered bronze element positioned by a retaining spring to allow true, uninterrupted axial flow. Special viton O-rings are available for oil systems where chemical action may be a problem. The standard 25 micron bronze filter element can be easily cleaned or replaced. Nominal filtration ratings of 90, 40, or 10 microns available.

Maximum operating pressure: 3000 PSI
Operating temperatures: 35°F to 200°F
For viton: 35°F to 400°F

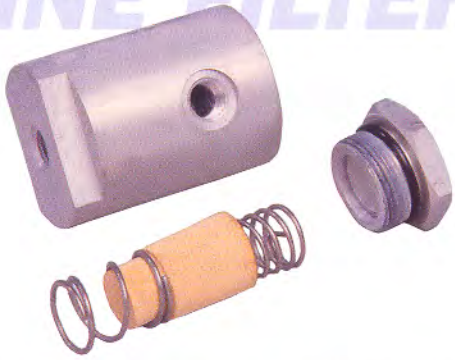
Part No.*	NPTF	Overall Length	Diameter	Weight Lbs	Element & Seal	Spring Kit
9052	1/4"	3 1/4"	1 1/2"	.46	EK9052	SK9052
9053	3/8"	3 1/4"	1 1/2"	.46	EK9052	SK9052
9054	1/2"	4 15/16"	1 1/2"	.83	EK9054	SK9054
9056	3/4"	4 15/16"	1 1/2"	.83	EK9054	SK9054
9152	9/16"-18 SAE	3 1/4"	1 1/2"	.46	EK9052	SK9052
9153	3/4"-16 SAE	3 1/4"	1 1/2"	.46	EK9052	SK9052

**Use Suffix V for viton seals. For 90, 40, or 10 micron elements, use micron size as dash number and add to part no. (i.e. 9052-10; EK9052-10).*

HYDRAULIC IN-LINE FILTER — TEE TYPE

This in-line filter provides protection for small, high pressure systems up to 5,000 PSI. The design is similar in performance to the model 9052 and 9053 filters, with the added convenience of a cleanable element that can be removed without breaking line connections. A filter access cap simply unscrews for easy element cleaning and replacement.

The anodized aluminum housing is lightweight. Porting is 1/4", 3/8" or 9/16"-18 SAE NPT pipe. Viton O-rings are offered for oil systems where chemical action may be a problem. The standard bronze filter element is 25 micron. Nominal filtration ratings of 90, 40, or 10 microns available.



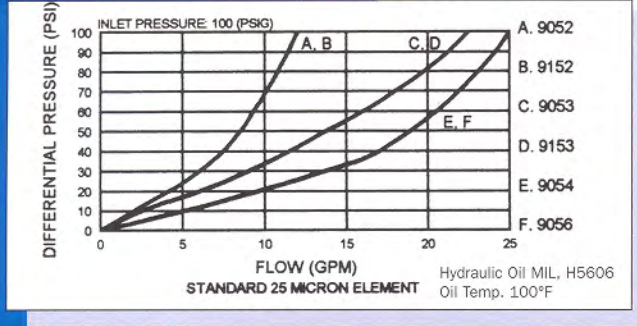
Maximum operating pressure: 5,000 PSI
Operating temperatures: 35°F to 200°F
For viton: 35°F to 400°F

Part No.*	NPT	Overall Length	Diameter	Weight Lbs	Element & Seal	Spring Kit
9052T	1/4"	3 3/16"	2 1/8"	.93	EK9052	SK9052T
9053T	3/8"	3 3/16"	2 1/8"	.93	EK9052	SK9052T
9152T	9/16"-18 SAE	3 3/16"	2 1/8"	.93	EK9052	SK9052T

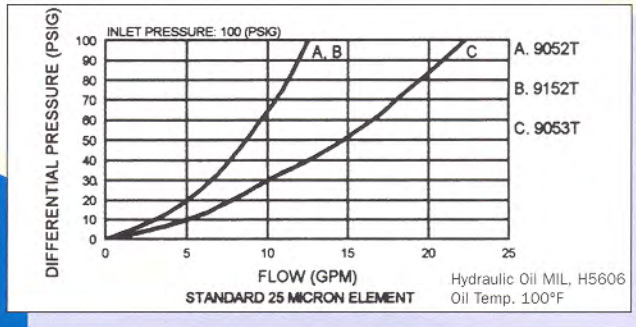
**Use Suffix V for viton seals. For 90, 40, or 10 micron elements, use micron size as dash number and add to part no. (i.e. 9052T-10; EK9052-10).*

Flow Characteristics – Hydraulic In-Line Filters

9052, 9053, 9054, 9056
9152 & 9153
Differential Pressure vs. Air Flow



9052T, 9053T, 9152T
Differential Pressure vs. Air Flow



ECONOMATIC DRAINS

ECONOMATIC drains are used to automatically drain filters, tanks, drain legs, aftercoolers and receivers. To trap large debris and sludge, a Y-strainer is included with the drain.

The drain can be set for manual operation or the drain interval and duration times can be preset. The drain interval can be adjusted between one to 60 minutes and the drain duration can be set from one to 30 seconds. The drain features: solid state adjustable controls, a corrosion-resistant, waterproof, molded solenoid coil, Buna N seals, a brass and stainless valve, a rust- and corrosion-proof NEMA 1 enclosure, an indicator light, and a heavy-duty, grounded, six-foot power cord.

Maximum operating pressure: 200 PSIG
Maximum fluid temperature: 165°F
Ambient temperatures: 35°F to 165°F
Voltage: 115/1/60 Amps: .25

Part No.	NPT	Length	Depth	Height	Weight Lbs.
5702S	1/4"	4 15/16"	4 7/16"	3 11/16"	1.6
5704S	1/2"	5 7/16"	4 7/16"	4 3/16"	2.4

AIR FLOW CHECK VALVES

These are designed to protect workers from accidents caused by air hose whip, a potentially dangerous situation that occurs when air hoses snap while under high pressure loads.

When an air hose ruptures, the flow check valve senses an increase in air flow and automatically reduces the flow to a safe level. As a reminder to shut off the air supply before replacing the ruptured hoses, the check valve has an exhaust bleed rate of 9 SCFM at 100 PSI.

These units are easy to install. The inlet pipe port of the check valve is threaded into the compressed air line upstream of the air hose. The air hose is threaded into the outlet port of the check valve.

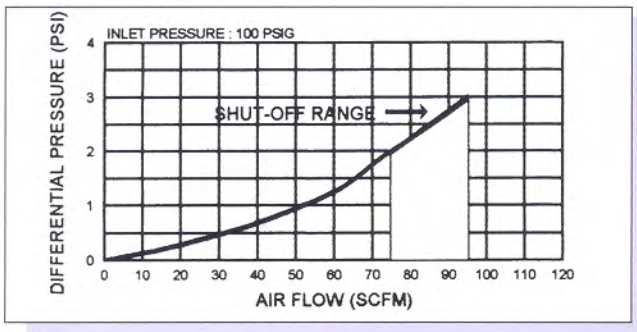
CONSTRUCTION: Protective, yet lightweight, anodized aluminum housing.

Maximum operating pressure: 300 PSI
Maximum temperature: 160°F

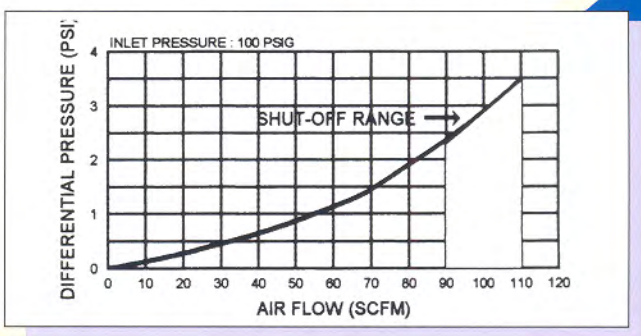
Part No.	NPT	Shut Off Range* SCFM	Overall Length	Flats	Weight Lbs.
5074	1/2"	85 +/- 10	3 7/8"	1 1/2"	.44
5076	3/4"	100 +/- 10	3 7/8"	1 1/2"	.40

Flow Characteristics – Air Flow Check Valves

5074
Differential Pressure vs. Air Flow



5076
Differential Pressure vs. Air Flow



PRESSURE SNUBBERS

These units protect pressure instruments from sudden shock and ensure accurate gauge readings without surges and fluctuations. They use a brass housing with a porous bronze element and are capable of handling pressures to 10,000 PSI maximum. Unit also serves as an excellent mini in-line filter. Dry seal pipe threads are standard. SAE threads available upon special request.

Each unit is packaged with five elements of different micron ratings to allow each user to adjust snubbing capacity for the specific application. Low cost and designed for quick and simple change of elements make cleaning unnecessary.

Maximum operating pressure: 10,000 PSI
Operating temperatures: 35°F to 300°F

RECOMMENDED ELEMENT POROSITY RATING

Micron Rating	Color Code	Recommended Application
40	none	viscose fluids (over 500 SSU)
30	black	med. type oils (225 to 500 SSU)
25	brown	water and light oils (30 to 225 SSU)
20	green	low viscosity fluids (under 30 SSU)
10	red	air and other gases

Part No.	NPT	Overall Length	Diameter	Weight Lbs.
602	1/4" M 1/4" F	1 3/8"	3/4"	.15
602-E	5 replacement elements for 602. Specify micron rating desired.*			.03

LOCKOUT SLIDE VALVE

Lockout slide valves protect workers performing service on equipment powered by pneumatic, hydraulic or electrical energy. With a customer-supplied padlock, they allow equipment to be locked out from the energy source. A standard industrial grade padlock with 1/4" diameter shackle is recommended.

Three-way slide valves meet OSHA Lockout Standard 29CRF 1910.147 when used with a customer-supplied padlock and identification tag. The three-way slide valve is for use in the main line, upstream of equipment. When closed, it shuts off the upstream air and exhausts the downstream air.

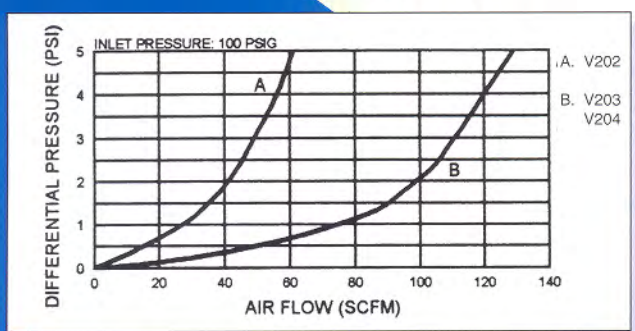
Body is black e-coat. Slide is 5% Teflon, high-impact, safety yellow plastic. Seals are pre-lubricated Buna O-rings. Screws are black coated steel.

Maximum operating pressure: 250 PSIG
Maximum operating flow: 140 SCFM
Operating temperatures: 35°F to 150°F
Exhaust bleed at 100 PSI: 7 SCFM

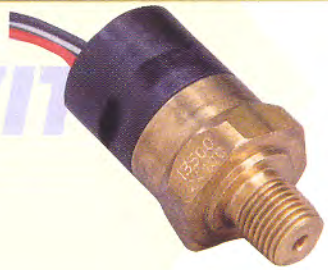
Part No.	NPTF	Avg. Cv	Overall Length	Width	Depth	Weight Lbs.
V202	1/4"	2.7	3 1/8"	1 11/16"	1 15/16"	.40
V203	3/8"	6.4	3 1/8"	1 11/16"	1 15/16"	.40
V204	1/2"	6.4	3 1/8"	1 11/16"	1 15/16"	.40

Flow Characteristics – Lockout Slide Valves

V202, V203 & V204
Differential Pressure vs. Air Flow



PRESSURE SWITCH



The PDA4 pressure switch can be installed anywhere in a pneumatic or hydraulic system. It is often used to protect air compressors and pneumatically operated equipment from damage caused by over-pressurization. The unit can be set in a normally open or closed position in an adjustable actuation range from 10 PSIG to 110 PSIG with a +/-2% repeatability. The pressure switch has standard 18" wire leads of 300 V, 22 SWG. For simple installation, thread the unit into the gauge port of a regulator or pipe tee.

CONSTRUCTION: Zinc die cast and plastic housing, and NEMA 13 electrical enclosure which is UL approved.

Maximum operating pressure: 300 PSI
Operating temperatures: 35°F to 180°F

Part No.	NPT	Overall Length	Dia.	Weight Lbs.	Voltage	Inductive	Resistive
PDA4	1/4"	1 5/8"	1 1/8"	.25	125/150 /VAC	5 AMP	7 AMP

Standard Electrical Current

WIRE COLOR	CIRCUIT
black	common
green	normally closed
red	normally open

Note: 20% differential for reset, and 1% repeatability when operated within recommended conditions.

MINI IN-LINE DESICCANT DRYER
(-40°F DEW POINT)

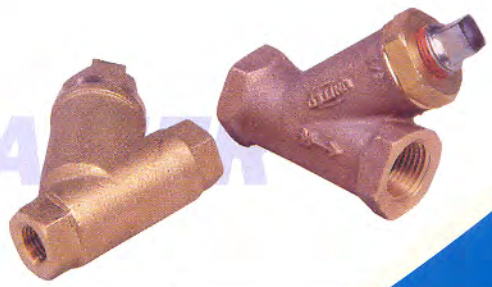
Used at the point-of-use, this patented, disposable, mini in-line desiccant dryer removes all traces of water vapor, oil vapor and dirt. It is often used directly upstream of blow guns or spray guns as final protection for critical parts blow off and paint spraying. Install in either direction; it functions in both directions. A 40 micron, porous bronze element removes fine dirt particles, an oil-removing media removes oil vapor and desiccant beads absorb water vapor. The see-through housing shows desiccant color change, which indicates that the dryer needs to be replaced. Full charge is a blue color, when the color changes to dark pink, filter needs to be replaced.

CONSTRUCTION: The housing is made of polycarbonate material which allows clear desiccant visibility. The large opening in the nylon guard shows color change when dryer needs replacing.

Maximum operating pressure: 125 PSI
Maximum flow capacity: 15 SCFM
Operating temperatures: 35°F to 130°F

Part No.	NPT/FPT	Length	Diameter	Weight Oz.
DFD-10	1/4"	3 3/4"	1 11/16"	2.8

IN-LINE Y-STRAINER

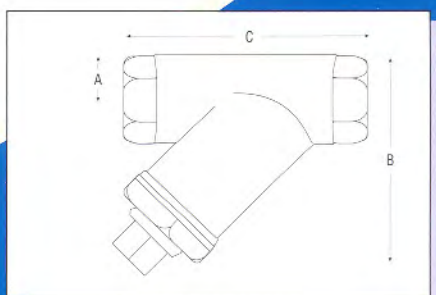


The Arrow in-line Y strainer, when installed before a valve or drain will trap large debris and sludge. This application prevents malfunctions and extends the life of valves or drains.

Maximum pressure: 300 PSI WOG; 150 Steam

CONSTRUCTION: Cast bronze housing and cap, stainless steel 50 mesh screen. 3/8" Brass plug standard for quick draining.

Special Feature: Maintenance can be done without removal of unit from line.



Part No.	NPT	A	B	C	Weight Oz.
S202	1/4"	15/32"	2 5/8"	2 11/16"	10.5
S204	1/2"	11/16"	2 7/8"	2 11/16"	12.6

ARROW PNEUMATICS, INC. WARRANTY

LIMITED WARRANTY

Arrow Pneumatics warrants each Fluid Power and Sintered Product against defects in material and workmanship for a period of one year from date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental or consequential damages, including without limitation damages or other cost resulting from labor charges, delays, vandalism, fouling caused by foreign material, damage from adverse air conditions, chemicals, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product.

THE COMPANY MAKES NO OTHER WARRANTY. ALL OTHER WARRANTIES, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A SPECIFIC PURPOSE ARE HEREBY EXCLUDED AND DISCLAIMED. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

The liability of the company for all loss or damage resulting from nonconforming goods or tender, including breach of any and all warranties, shall be limited to refund of the purchase of the particular goods with respect to which the loss or damage occurred.

Arrow Pneumatics, Inc. has a long reputation as a world-leading manufacturer of sintered bronze elements and products. This reputation is built on producing high quality products with ongoing commitment to meet customer expectations.

When it comes to features, performance and value, look for Arrow Pneumatics, Inc. logo marked sintered bronze elements and products.

All products are manufactured in the USA and marked with a logo to assure you are receiving genuine Arrow Pneumatic, Inc. sintered bronze components.

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