

LIMITED WARRANTY

Adsens Technology warrants each product against defects in material and workmanship for a period of one year from the date of original invoice. In the event of such defects within the warranty period, Adsens Technology will, at its option, replace or recondition the product without charge, provided that the product is shipped prepaid to the factory (FedEx, UPS or Parcel Post only).

Adsens Technology shall not be responsible for any incidental or consequential damages, including without limitation damages or other costs resulting from labor charge, 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.

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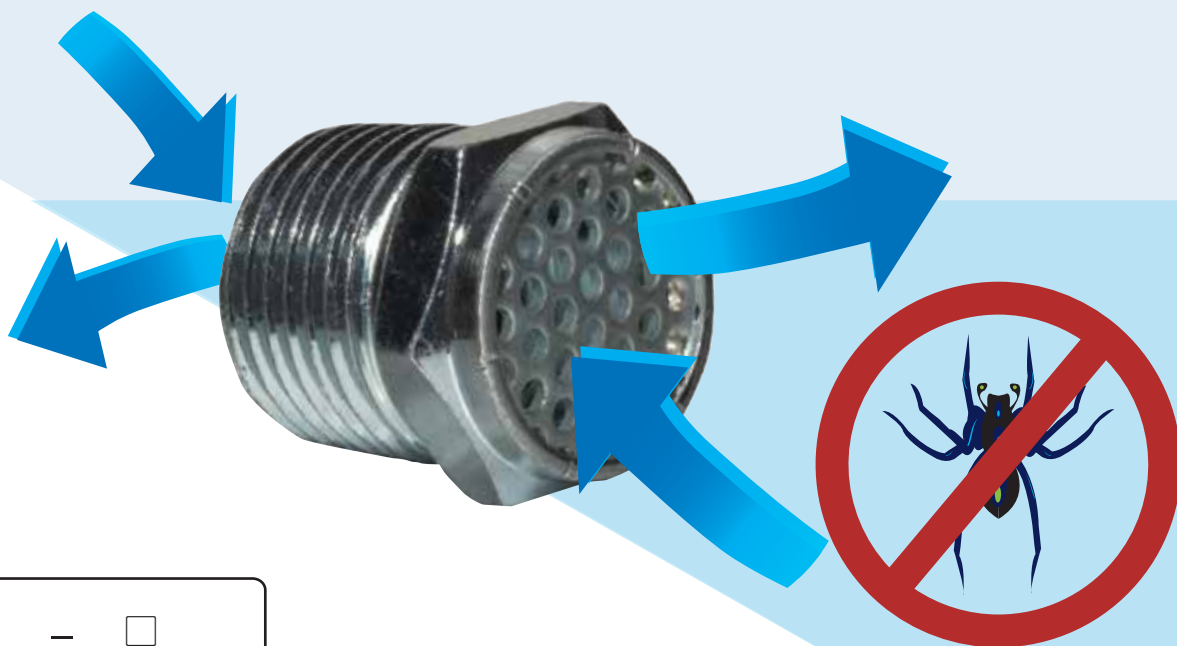
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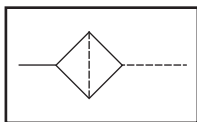
BHFA-Series Free Flow Strainer

BHFA-Series strainer allows unrestricted air flow service, and prevents unwanted objects from entering the port.

Supplied with standard male pipe thread, unit should be mounted in a protective position, free from excessive vibration. Use wrench on the hex head to tighten unit to the device.



SYMBOL



HOW TO ORDER

BHFA — —

Free Flow Strainer **Connection** **Port Option**
 18 = 1/8" None = NPT
 28 = 1/4" P = BSPT
 38 = 3/8"
 48 = 1/2"



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM	MODEL	BHFA-18	BHFA-28	BHFA-38	BHFA-48
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14
OVERALL LENGTH	IN. (mm)	0.50" (12.7)	0.70" (17.8)	0.85" (21.7)	0.98" (24.8)
HEX	IN. (mm)	7/16" (11.1)	9/16" (14.2)	11/16" (17.3)	7/8" (22.0)
MATERIAL	BODY	ZINC-PLATED IRON (ZN-Fe)			
	STRAINER	ZINC-PLATED IRON (ZN-Fe)			
MAX OPERATING PRESSURE		300 PSI (21.10 kg/cm ²)			
OPERATING TEMPERATURE		35°~300°F (16°~149°C)			
WEIGHT (APPROX.)	OZ.	0.18	0.37	0.64	1.07
UNIT PACK	EA.	10	10	10	5

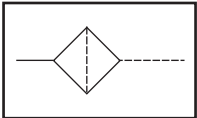
PGV-Series Countersink Plug Vent

PGV-Series countersink plug vent is designed to fit flush with the surface while offering free exchange of filtered air vent to atmosphere. These countersink plug vents can be installed easily into single action cylinders, gear boxes, storage tanks or other vessels and valves, whenever pressure equalization is required.

Supplied with standard male pipe thread with internal hex, unit can be easily installed with a hex key with little or no protrusion, Nickel-plated brass body and 40 micron is standard, optional 10, 90 and 150 micron filter element are available.



SYMBOL



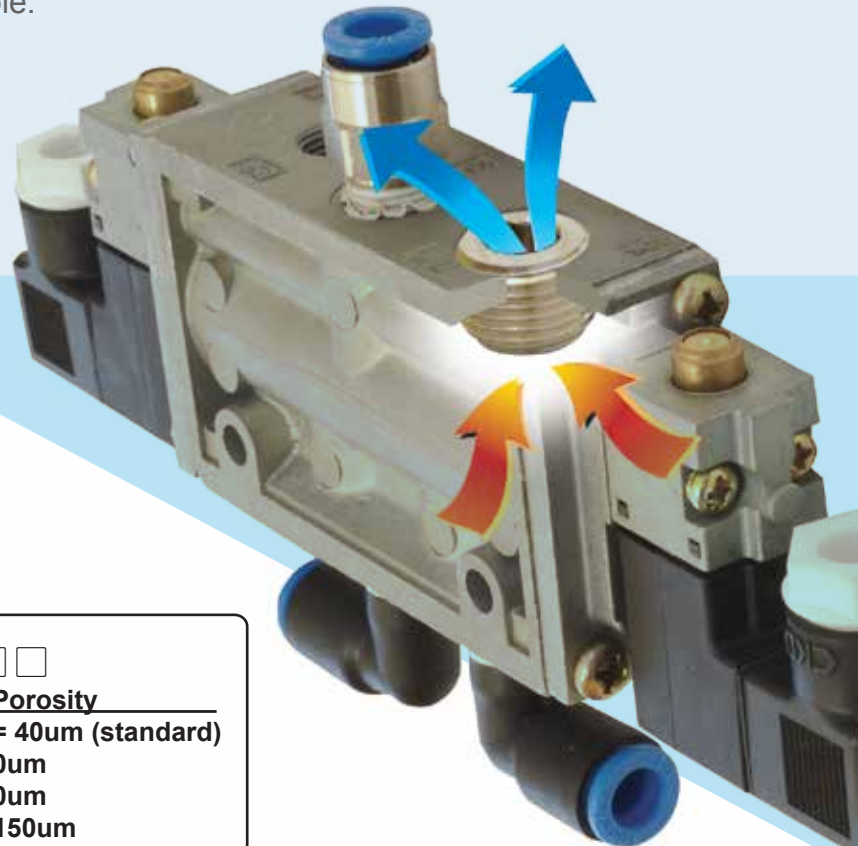
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HOW TO ORDER

PGV

Countersink Plug Vent	Connection	Port Option	Filter Porosity
18	1/8" NPT	None = NPT	None = 40um (standard)
28	1/4" NPT	P = PT	10 = 10um
38	3/8" NPT		90 = 90um
48	1/2" NPT		150 = 150um



SPECIFICATIONS

ITEM	MODEL	PGV-18	PGV-28	PGV-38	PGV-48
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14
OVERALL LENGTH	IN. (mm)	0.35" (9.0)	0.47" (12.0)	0.49" (12.5)	0.59" (15.0)
INTERNAL HEX	IN. (mm)	0.24" (6.05)	0.32" (8.05)	0.40" (10.10)	0.40" (10.10)
MATERIAL	BODY	NICKEL PLATED BRASS (Ni - Cu)			
	STRAINER	SINTERED BRONZE (40 micron)			
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)			
OPERATING TEMPERATURE		35°~300°F (16°~149°C)			
WEIGHT (APPROX.)	OZ.	0.09	0.22	0.39	0.84
UNIT PACK	EA.	10	10	10	5

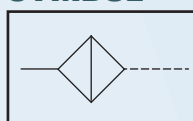
BVCH-Series Breather Vent with Splash Guard

BVCH-Series breather vent allow free exchange of filtered air for gear boxes, crank cases or storage tanks vented to atmosphere. The top of the breather is closed off but has multiple holes drilled at 60-degrees upward angle, just below the hex head to prevent unwanted fluid from entering during periodic wash cycle or splashes.

Solid brass construction, it is rugged and corrosion resistant. Supplied with standard male pipe or SAE thread, unit should be mounted vertically and avoid excessive vibration. Use wrench on hex head to tighten unit to the device. The standard filter element is 100 micron, optional 10 or 40 micron is available.



SYMBOL



HOW TO ORDER

BVCH

Breather Vent with Splash Guard

— —
Connection
 18 = 1/8" NPT SAE#4 = 7/16"-20
 28 = 1/4" NPT SAE#6 = 9/16"-18
 38 = 3/8" NPT SAE#8 = 3/4"-16
 48 = 1/2" NPT
 68 = 3/4" NPT
 88 = 1" NPT

Filter Porosity
 None = 100um (standard)
 10 = 10um
 40 = 40um

California Proposition 65 Warning
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SPECIFICATIONS

ITEM	MODEL	BVCH-18	BVCH-28	BVCH-38	BVCH-48	BVCH-68	BVCH-88
CONNECTION	NPT	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN. (mm)	0.65" (16.5)	0.91" (23.0)	1.22" (31.0)	1.35" (34.2)	1.58" (40.2)	1.81" (46.0)
HEX	IN. (mm)	1/2" (12.7)	3/4" (19.0)	7/8" (22.0)	1-1/8" (28.5)	1-1/4" (32.0)	1-1/2" (38.0)
MATERIAL	BODY	BRASS					
	ELEMENT	SINTERED BRONZE (100 micron)					
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)					
OPERATING TEMPERATURE		35°~300°F (16°~149°C)					
WEIGHT (APPROX.)	OZ.	0.38	1.08	1.92	3.30	5.33	7.92
UNIT PACK	EA.	5	5	5	5	5	1

SPECIFICATIONS

ITEM	MODEL	BVCH - SAE#4	BVCH - SAE#6	BVCH - SAE#8
CONNECTION	SAE	7/16"-20	9/16"-18	3/4"-16
OVERALL LENGTH	IN. (mm)	0.87" (22.0)	1.22" (31.0)	1.34" (34.0)
HEX	IN. (mm)	0.69" (17.5)	0.87" (22.0)	1.12" (28.5)
MATERIAL	BODY	BRASS		
	ELEMENT	SINTERED BRONZE (100 micron)		
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)		
OPERATING TEMPERATURE		35°~300°F (16°~149°C)		
WEIGHT (APPROX.)	OZ.	0.88	1.94	3.46
UNIT PACK	EA.	50	50	50

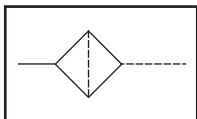
SBN-Series Screen Breather Vent



SBN-Series breather vent combine low profile and high air flow into a reality, suitable for many applications, particularly where space is limited. Special screen filter is formed by stainless steel wire, offers very high mechanical resistance, guaranteeing long life even under high pressure. Zinc plated steel fitting offers additional corrosion resistance.

Supplied with standard male pipe threads, they can be installed with little protrusion as a flat integral part of the equipment. Use wrench on hex head to tighten unit to the device. Stainless steel wire screen can be easily cleaned by reversing the flow of the filtered matter.

SYMBOL



HOW TO ORDER

SBN — □ □
Screen **Connection (NPTM)**
Breather **18 = 1/8", 28 = 1/4"**
Vent **38 = 3/8", 48 = 1/2"**
 68 = 3/4", 88 = 1"



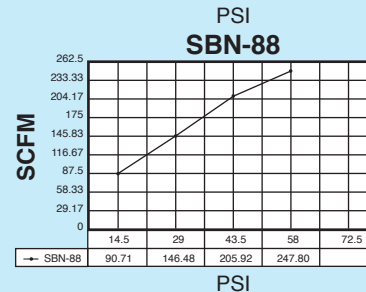
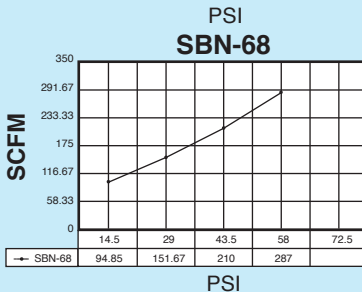
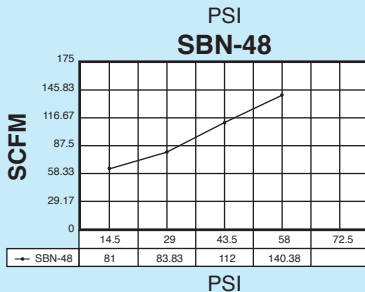
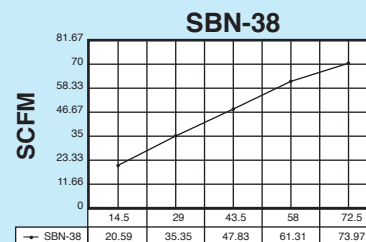
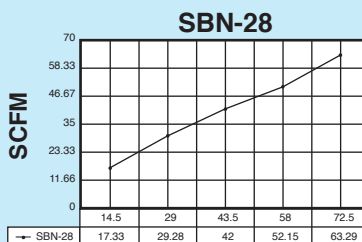
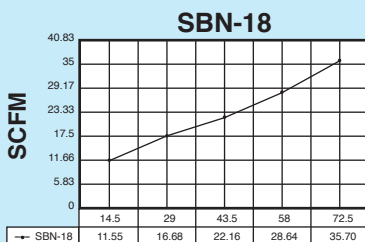
California Proposition 65 Warning

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SPECIFICATIONS

ITEM	MODEL	SBN-18	SBN-28	SBN-38	SBN-48	SBN-68	SBN-88
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	21/32"	53/64"	63/64"	1-3/16"	1-29/64"	1-21/32"
HEX	IN.	1/2"	5/8"	3/4"	1"	1-3/16"	1-1/2"
NOISE LEVEL @60 PSI	dB	70	69	85	85	86	88
NOISE LEVEL @115 PSI	dB	74	72	88	90	90	92
MATERIAL	BODY	ZINC-PLATED (Zn-Fe)					
	ELEMENT	STAINLESS STEEL WIRE SCREEN (10~150 micron)					
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)					
OPERATING TEMPERATURE		35°~300°F (16°~149°C)					
WEIGHT (APPROX.)	OZ.	0.30	0.56	0.90	1.45	2.70	4.43
UNIT PACK	EA.	10	10	10	10	5	1

FLOW CHARACTERISTICS



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*All tests are performed by Consolidated Laboratories, Inc.

HFTO-Series Fanto® Muffler

FANTO® mufflers utilize a 50 mesh, self-cleaning stainless steel screen in a strong, yet lightweight aluminum shell so they are completely corrosion-resistant. The large vent holes combined with precisely calculated layers of stainless steel screen is to allow high airflow, but effectively reduce the air exhaust noise level.

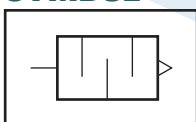
It's ULTRA-SLIM profile allows the FANTO® mufflers to be installed anywhere space is limited. Install directly to the exhaust ports of pneumatic valves is possible without interference with other ports, since the overall body diameter is barely larger than the corresponding thread diameter.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device.



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SYMBOL

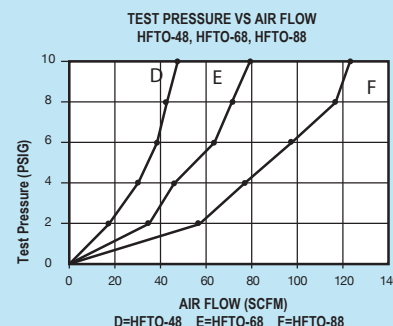
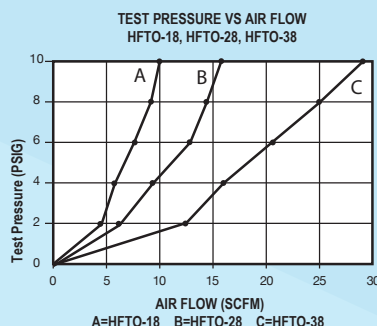


HOW TO ORDER

HFTO
Fanto
Muffler

—
Connection (NPTM)
18 = 1/8", 28 = 1/4"
38 = 3/8", 48 = 1/2"
68 = 3/4", 88 = 1"

FLOW CHARACTERISTICS - FANTO® MUFFLER



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SPECIFICATIONS

ITEM	MODEL	HFTO-18	HFTO-28	HFTO-38	HFTO-48	HFTO-68	HFTO-88
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	1-3/8"	1-3/4"	2-1/4"	2-23/32"	3-5/32"	3-7/8"
HEX	IN.	7/16"	9/16"	11/16"	7/8"	1-1/16"	1-5/16"
MATERIAL	BODY	ALUMINUM (ADC 12)					
	ELEMENT	50 MESH STAINLESS STEEL SCREEN					
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)					
OPERATING TEMPERATURE		35°~160°F (16°~70°C)					
WEIGHT (APPROX.)	OZ.	0.25	0.50	0.90	1.55	2.25	4.20
UNIT PACK	EA.	10	10	5	5	1	1

SOUND CHARACTERISTICS - FANTO® MUFFLER

BACK PRESSURE (PSIG)	HFTO-18		HFTO-28		HFTO-38		HFTO-48		HFTO-68		HFTO-88	
	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db
2	4.25	73.0	5.97	70.0	12.36	71.5	18.12	70.0	34.11	82.0	55.75	85.5
4	5.86	78.0	9.47	76.5	15.79	77.0	30.45	74.5	43.37	84.5	75.57	86.0
6	7.40	81.5	12.10	80.0	20.17	80.5	35.61	77.0	62.08	84.5	97.69	86.0
8	8.70	83.5	14.20	82.0	24.86	83.5	42.26	78.0	70.85	85.5	115.59	86.5
10	10.10	86.5	16.00	83.5	28.51	86.0	47.95	80.0	80.61	88.0	127.00	85.5

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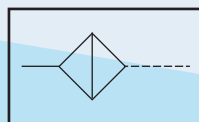
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PS-Series Pressure Snubber

PS-Series pressure snubber protects pressure instruments from sudden pressure surges and fluctuations, therefore insures accurate gauge reading. Housing is made out of solid brass with a porous bronze element to handle up to 9,000-PSI maximum pressure. Unit can also be used as a miniature inline filter.

Six different porosity elements are packaged with each unit, which allow user to tailor the snubbing capacity for different application. Replacement elements are inexpensive and easy to replace, makes cleaning of the element unnecessary.

SYMBOL



HOW TO ORDER

PS

Pressure Snubber

Connection (NPT)

28 = 1/4" Male to Female

38 = 3/8" Male to Female

E = 5 Replacement Elements

Element Porosity

None = 40um (Std.)

05 = 5um

10 = 10um

20 = 20um

25 = 25um

30 = 30um

40 = 40um

RECOMMENDED ELEMENT POROSITY RATING		
POROSITY	COLOR CODE	APPLICATION
40 um	NONE	VISCOUS FLUIDS (OVER 500 SSU)
30 um	BLACK	MED. TYPE OILS (225 TO 500 SSU)
25 um	BROWN	WATER & LT. OILS (30 TO 225 SSU)
20 um	GREEN	LOW VISCOSITY FLUIDS (UNDER 30 SSU)
10 um	RED	AIR & OTHER GASES
5 um	PURPLE	



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SPECIFICATIONS

ITEM	MODEL	PS-28	PS-38
FLUID		AIR, OIL AND WATER	
CONNECTION	IN.	1/4"-18 M-F	3/8"-18 M-F
OVERALL LENGTH	IN.	1-3/8"	1-3/8"
HEX	IN.	3/4"	1"
MATERIAL	BODY	BRASS	
	ELEMENT	SINTERED BRONZE	
MAX OPERATING PRESSURE		9,000 PSI (633 kg/cm ²)	
OPERATING TEMPERATURE		35° ~ 300°F (1.6° ~ 149°C)	
WEIGHT (APPROX.)	OZ.	2.4	3.2
UNIT PACK	EA.	5	5

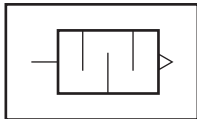
RM-Series Resin (Polyethylene) Muffler

RM-Series muffler uses rugged polyethylene housing with polyvinyl foam element. It is compact, light weight and highly effective for noise reduction without excessive back pressure. They are completely non-corrosive and highly resistant to water and oil. Elements can be easily cleaned with kerosene or similar cleaning solvent.

All models are furnished with standard male pipe threads ranging from 1/8" to 1/2" NPT; unit should be mounted in a protective position free from excessive vibration. **Hand tighten to the device only.**




SYMBOL



HOW TO ORDER

RM	—	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>
Resin Muffler		Connection			Port Option
		18 = 1/8"			None = NPT
		28 = 1/4"			P = BSPT
		28L = 1/4" (high flow)			
		38 = 3/8"			
		48 = 1/2"			

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SPECIFICATIONS

ITEM	MODEL	RM-18	RM-28	RM-28L	RM-38	RM-48
FLUID		AIR				
CONNECTION	NPTM	1/8"-27	1/4"-18		3/8"-18	1/2"-14
OVERALL LENGTH	IN.	1-3/8" (35mm)	1-1/2" (38mm)	2-7/16" (62mm)	2-5/8"(67mm)	2-3/4" (70mm)
DIAMETER	IN.	5/8" (16mm)	5/8" (16mm)	13/16" (20mm)	1" (26mm)	1-7/64" (28mm)
HEX	IN.	9/16" (14mm)	9/16" (14mm)	11/16" (16.8mm)	1" (24mm)	1" (24mm)
NOISE ELIMINATION EFFECT	dB	18	18	18	27	34
MATERIAL	BODY	POLYETHYLENE (PE)				
	ELEMENT	POLYVINYL FOAM (5 micron)				
MAX OPERATING PRESSURE		130 PSI (9 kg/cm ²)				
OPERATING TEMPERATURE		41° ~ 140°F (5°~60°C)				
WEIGHT (APPROX.)	OZ.	0.16	0.18	0.42	0.77	0.86
UNIT PACK	EA.	10	10	5	5	5

WARNING: Clean mufflers with neutral cleaning agent or cleaning oil, **DO NOT** use paint thinner, benzene or other organic solvents.

PEM-Series Polyethylene Muffler

PEM-Series muffler uses high-density porous polyethylene body ultrasonically welded to the solid polyethylene base. It is light weight, durable and highly effective for noise reduction without excessive back pressure. The uniquely structured porous polyethylene element channels the escaping air through a tortuous path, to reduce the noise level within OSHA requirements.



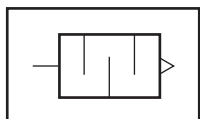
The durable porous polyethylene body can withstand high working pressures up to 150 PSI. In an unlikely event of a blowout, resilient porous plastic body will not shatter, therefore no danger of flying fragments.

The polyethylene plastic is completely non-corrosive and highly resistant to water and oil usually present in compressed air lines and can be easily cleaned with methylene chloride or similar cleansing fluid.

- Available in three (3) air flows:
 Standard flow (70 um - **black** base)
 Fine flow (20 um - **blue** base)
 Medium flow (35 um - **red** base)

Unit should be mounted in a protective position free from excessive vibration.
Hand tighten to the device only.

SYMBOL



HOW TO ORDER

PEM — □ □ — □ □
Polyethylene Muffler **Connection (NPTM)** **Element Porosity**
 18 = 1/8", 28 = 1/4" None = Std. flow (70um)
 38 = 3/8", 48 = 1/2" 20 = Fine flow (20um)
 68 = 3/4", 88 = 1" 35 = Medium flow (35um)

NOISE ELIMINATION EFFECT

Model Number	Sound Pressure dB(A)		
	Fine Flow 20 um (Blue Base)	Medium Flow 35 um (Red Base)	Standard Flow 70 um (Black Base)
PEM-18 (1/8")	80	85	90
PEM-28 (1/4")	77	80	88
PEM-38 (3/8")	80	81	86
PEM-48 (1/2")	77	82	85
PEM-68 (3/4")	81	81	85
PEM-88 (1")	78.5	82	84

Inlet Pressure: 125 PSI



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SPECIFICATIONS

ITEM	MODEL	PEM-18	PEM-28	PEM-38	PEM-48	PEM-68	PEM-88
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN. (mm)	1-15/32" (37mm)	1-3/4" (44mm)	2-1/4" (37mm)	3-5/32" (80mm)	5-1/4" (133mm)	5-3/32" (129mm)
DIAMETER	IN. (mm)	5/8" (15.6mm)	51/64" (20mm)	1" (26mm)	1" (26mm)	1-1/2" (38mm)	2" (50mm)
MATERIAL	BODY	POLYETHYLENE (PE)					
	ELEMENT	POLYETHYLENE (PE)					
MAX OPERATING PRESSURE		150 PSI (10.5 kg/cm ²)					
OPERATING TEMPERATURE		41°~140°F (5°~60°C)					
WEIGHT (APPROX.)	OZ.	0.10	0.15	0.36	0.41	1.34	2.22
UNIT PACK	EA.	10	10	5	5	5	5

HFSM-Series High Flow Steel Muffler

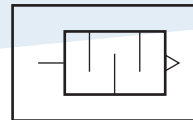
HFSM-Series steel muffler utilize a 50 mesh, self-cleaning STAINLESS STEEL SCREEN in a tough steel shell to withstand shock and continuous heavy duty use in all applications. All stainless steel models are also available.

Designed with evenly distributed small holes around the steel shell, exhaust air quietly disperses over a 360 degree pattern without restricting air flow. Their SLIM profile allows them to be installed anywhere space is limited. Install directly to the exhaust ports of pneumatic valves, or closely spaced manifold ports is possible without interference with other ports.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the exhaust ports of air-operated equipment.



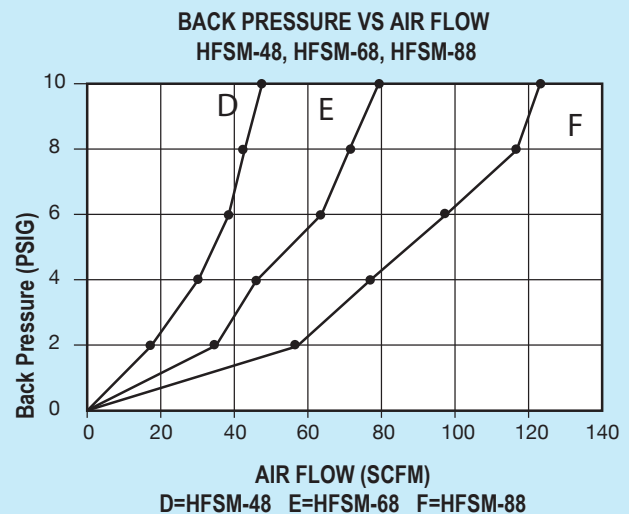
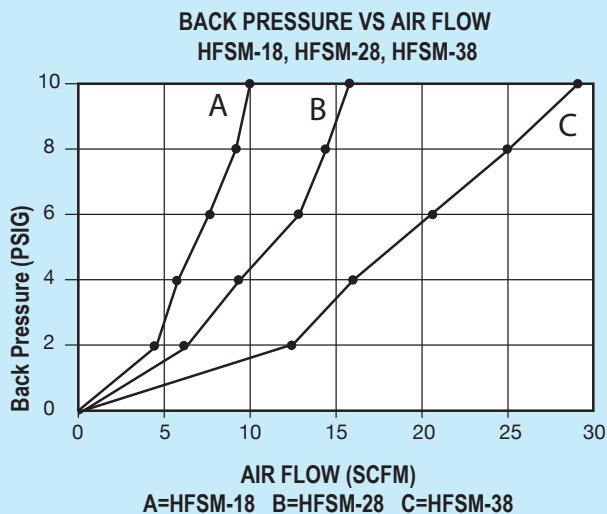
SYMBOL



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

FLOW CHARACTERISTICS - HIGH FLOW STEEL MUFFLER



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* All tests are performed by Consolidated Laboratories, Inc.

SOUND CHARACTERISTICS - STEEL MUFFLER

BACK PRESSURE (PSIG)	HFSM-18		HFSM-28		HFSM-38		HFSM-48		HFSM-68		HFSM-88	
	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db
2	4.25	73.0	5.97	70.0	12.36	71.5	18.12	70.0	34.11	82.0	55.75	85.5
4	5.86	78.0	9.47	76.5	15.79	77.0	30.45	74.5	43.37	84.5	75.57	86.0
6	7.40	81.5	12.10	80.0	20.17	80.5	35.61	77.0	62.08	84.5	97.69	86.0
8	8.70	83.5	14.20	82.0	24.86	83.5	42.26	78.0	70.85	85.5	115.59	86.5
10	10.10	86.5	16.00	83.5	28.51	86.0	47.95	80.0	80.61	88.0	127.00	85.5

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*All tests are performed by Consolidated Laboratories, Inc.

HFSSM-Series, High Flow Steel Muffler



HOW TO ORDER

HFSSM — —
High Flow Steel Muffler Connection (NPTM) Port Option
 18 = 1/8", 28 = 1/4", 38 = 3/8"
 48 = 1/2", 68 = 3/4", 88 = 1"
 128 = 1-1/4", 148 = 1-1/2", 200 = 2"
 None = NPT
 P = BSPT

SPECIFICATIONS

ITEM	MODEL	HFSSM-18	HFSSM-28	HFSSM-38	HFSSM-48	HFSSM-68	HFSSM-88	HFSSM-128	HFSSM-148	HFSSM-200
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
OVERALL LENGTH	IN.	1-5/16"	1-11/16"	2-7/64"	2-41/64"	3-15/64"	3-25/32"	4-27/64"	4-15/16"	5-19/32"
HEX	IN.	7/16"	9/16"	11/16"	7/8"	1-1/16"	1-5/16"	1-3/4"	2"	2-3/8"
MATERIAL	BODY	ZINC-PLATED STEEL (Zn-Fe)								
	ELEMENT	50 MESH STAINLESS STEEL SCREEN								
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)								
OPERATING TEMPERATURE		35°~160°F (1.6°~70°C)								
WEIGHT (APPROX.)	OZ.	0.38	0.69	1.22	2.14	3.67	6.61	11.71	14.84	23.48
UNIT PACK	EA.	10	10	5	5	1	1	1	1	1



HOW TO ORDER

FHFSM —
Female High Flow Steel Muffler Connection (NPTF)
 18 = 1/8", 28 = 1/4"
 38 = 3/8", 48 = 1/2"

SPECIFICATIONS

ITEM	MODEL	FHFSM-18	FHFSM-28	FHFSM-38	FHFSM-48
CONNECTION	NPTF	1/8"-27	1/4"-18	3/8"-18	1/2"-14
OVERALL LENGTH	IN.	1-45/64"	2-13/64"	2-23/32"	3-7/32"
HEX	IN.	9/16"	11/16"	7/8"	1-1/16"
MATERIAL	BODY	ZINC-PLATED STEEL (Zn-Fe)			
	ELEMENT	50 MESH STAINLESS STEEL SCREEN			
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)			
OPERATING TEMPERATURE		35°~160°F (1.6°~70°C)			
WEIGHT (APPROX.)	OZ.	0.80	1.55	2.65	4.60
UNIT PACK	EA.	10	10	5	5



All Stainless Steel

HOW TO ORDER

HFSS —
High Flow Stainless Steel Muffler Connection (NPTM)
 18 = 1/8", 28 = 1/4"
 38 = 3/8", 48 = 1/2"
 68 = 3/4", 88 = 1"

SPECIFICATIONS

ITEM	MODEL	HFSS-18	HFSS-28	HFSS-38	HFSS-48	HFSS-68	HFSS-88
CONNECTION	NPTM	1/8"-17	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	1-3/8"	1-11/16"	2-7/64"	2-41/64"	3-15/64"	3-25/32"
HEX	IN.	7/16"	9/16"	3/4"	7/8"	1-1/16"	1-3/8"
MATERIAL	BODY	SUS304 STAINLESS STEEL					
	ELEMENT	50 MESH STAINLESS STEEL SCREEN					
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)					
OPERATING TEMPERATURE		35°~160°F (1.6°~70°C)					
WEIGHT (APPROX.)	OZ.	0.32	0.72	1.20	2.40	4.10	7.00
UNIT PACK	EA.	5	5	5	5	1	1

HFMA-Series High Flow Aluminum Muffler

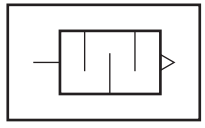
HFMA-Series high flow muffler features a 50 mesh, self-cleaning stainless steel screen, and combined with corrosion-resistant aluminum shell to create a highly efficient, ultra-quiet muffler designed with minimal back pressure.

When installed on the exhaust ports of pneumatic valves or manifolds, the aluminum body muffler provides a quick and inexpensive way to reduce work area noise while preventing contamination from entering into the pneumatic valves.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on flats to tighten unit to the device.



SYMBOL



HOW TO ORDER

HFMA

High Flow **Connection** **Port Option**
Muffler 18 = 1/8", 28 = 1/4" None = NPT
Aluminum Body 38 = 3/8", 48 = 1/2" P = BSPT
 68 = 3/4", 88 = 1"
 128 = 1-1/4", 148 = 1-1/2"
 200 = 2"

California Proposition 65 Warning

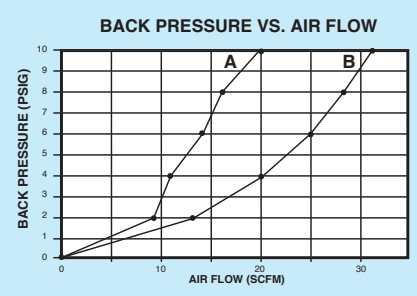
WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

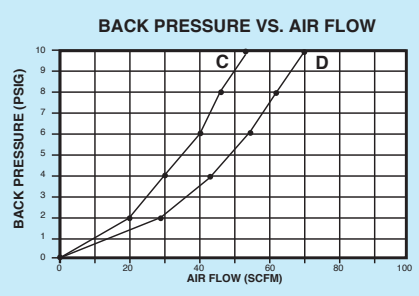
ITEM	MODEL	HFMA-18	HFMA-28	HFMA-38	HFMA-48	HFMA-68	HFMA-88	HFMA-128*	HFMA-148*	HFMA-200*
CONNECTION	NPTM	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
OVERALL LENGTH	IN.	1-27/32"	1-27/32"	3-19/64"	3-19/64"	4-9/16"	4-9/16"	6-11/64"	6-11/64"	7-21/32"
DIAMETER	IN.	13/16"	13/16"	1-1/4"	1-1/4"	2"	2"	2-1/2"	2-1/2"	3"
FLATS	IN.	41/64"	41/64"	1"	1"	1-5/8"	1-5/8"	2-3/4"	2-3/4"	3"
MATERIAL	BODY	6061 ALUMINUM								
	ELEMENT	50 MESH STAINLESS STEEL SCREEN								
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)								
OPERATING TEMPERATURE		35°~160°F (1.6°~70°C)								
WEIGHT (APPROX.)	OZ.	0.52	0.52	1.81	1.83	5.2	5.52	13.60	13.28	27.76
UNIT PACK	EA.	5	5	5	5	1	1	1	1	1

* Also available in female thread

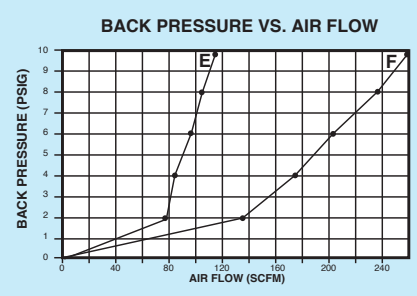
FLOW CHARACTERISTICS



A = HFMA-18 / HFMP-18
B = HFMA-28 / HFMP-28



C = HFMA-38 / HFMP-38
D = HFMA-48 / HFMP-48



E = HFMA-68
F = HFMA-88

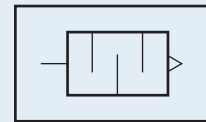
HFMP-Series High Flow Plastic Muffler



Based on the same concepts as our popular HFMA-Series, but weights less and more affordable, the HFMP-Series muffler utilize glass-filled nylon housing which is ultrasonically welded for maximum strength.

Both HFMA and HFMP Series offers greater air flow with less pressure drop than the BM-Series while lowering the noise levels. Please refer to the sound and flow characteristics charts listed below for more information. Unit should be mounted in a protective position free from excessive vibration. **Hand tighten to the device only.**

SYMBOL



HOW TO ORDER

HFMP — □ □ — □
High Flow Muffler **Connection** **Port Option**
Plastic Body **18 = 1/8", 28 = 1/4"** **None = NPT**
 38 = 3/8", 48 = 1/2" **P = BSPT**



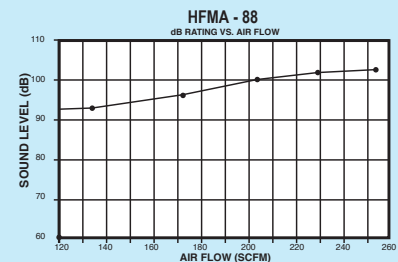
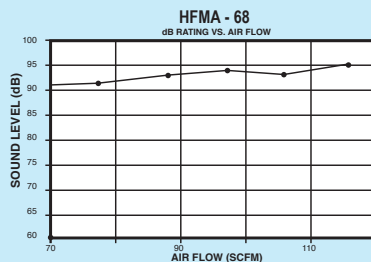
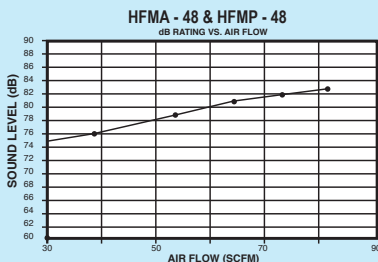
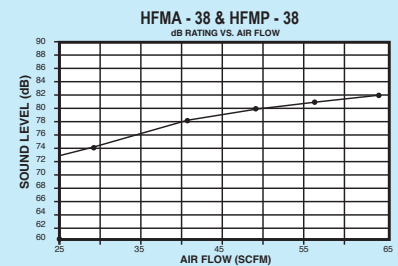
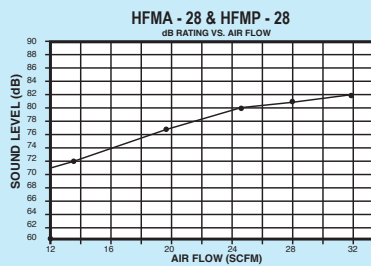
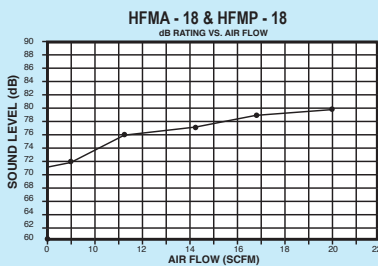
California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM		MODEL	HFMP-18	HFMP-28	HFMP-38	HFMP-48
CONNECTION		NPTF	1/8"	1/4"	3/8"	1/2"
OVERALL LENGTH		IN.	2-1/8"	2-7/32"	3-7/16"	3-7/16"
DIAMETER		IN.	53/64"	53/64"	1-1/4"	1-1/4"
HEX		IN.	11/16"	11/16"	1-5/32"	1-5/32"
MATERIAL	BODY	NYLON				
	ELEMENT	50 MESH STAINLESS STEEL SCREEN				
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)				
OPERATING TEMPERATURE		35°~120°F (1.6°~50°C)				
WEIGHT (APPROX.)		OZ.	0.40	0.48	1.60	1.60
UNIT PACK		EA.	5	5	5	5

SOUND CHARACTERISTICS



BM-Series Sintered Bronze Exhaust Muffler

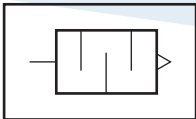
BM-Series muffler utilize porous sintered bronze filter element secured to standard pipe fittings. These compact and inexpensive mufflers are easy to install and maintain, particularly suitable where space is limited. They are used to diffuse air and muffler noise from the exhaust ports of air valves, air cylinders and air tools to an acceptable level within OSHA noise requirements.

BM-Series mufflers can also be used as filters for gasoline, oil and air exhaust and intake filtering; coalescing of oil mist or water vapor; cryogenic phase separation; pressure of vacuum equalization and many others.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device. Standard unit contains a 40 micron element, and 10 or 90 micron units are available on special order.



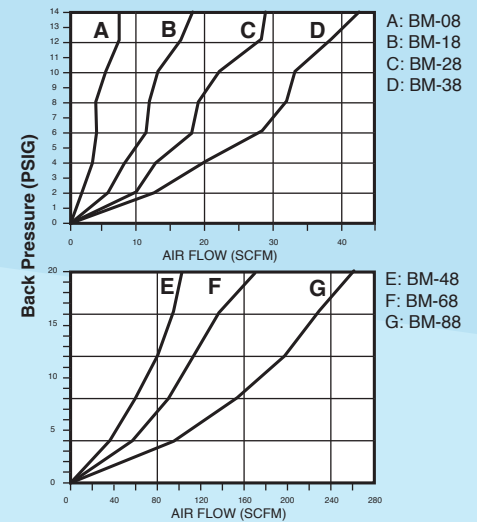
SYMBOL



California Proposition 65 Warning

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FLOW CHARACTERISTICS PNEUMATIC EXHAUST MUFFLER



HOW TO ORDER

BM	□ □	□ □	□ □
Bronze Muffler	Connection	Port Option	Element Porosity
(Brass Fitting)	08 = 10-32, 16 = 1/16"	None = NPT	None = 40um
	18 = 1/8", 28 = 1/4"	P = BSPT	10 = 10um
	38 = 3/8", 48 = 1/2"	G = BSPP	90 = 90um
	68 = 3/4", 88 = 1"		

SPECIFICATIONS

ITEM	MODEL	BM-08	BM-16	BM-18	BM-28	BM-38	BM-48	BM-68	BM-88
CONNECTION	NPTM	10-32UNF	1/16"-27	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5"
OVERALL LENGTH	IN.	3/4"	53/64"	29/32"	1-5/16"	1-17/32"	1-57/64"	2-9/32"	2-57/64"
HEX	IN.	5/16"	3/8"	7/16"	9/16"	11/16"	7/8"	1-9/64"	1-11/32"
MATERIAL	BODY	BRASS							
	ELEMENT	SINTERED BRONZE (40 micron standard, also available in 10 or 90 micron)							
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)							
OPERATING TEMPERATURE		35°~ 300°F (1.6°~149°C)							
WEIGHT (APPROX.)	OZ.	0.12	0.15	0.26	0.56	0.93	1.47	2.96	4.16
UNIT PACK	EA.	10	10	10	10	10	5	1	1

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SOUND CHARACTERISTICS - PNEUMATIC EXHAUST MUFFLER

BACK PRESSURE (PSIG)	BM-08			BM-18			BM-28			BM-38			BM-48			BM-68			BM-88		
	FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db	
2	1.1	72		7	72		10	73		12	74		26.6	75		39.4	76		67	93	
4	2.3	72		9	73		12	74		20	74		39.5	76		62.0	80		104	95	
6	3.6	72		11	73		17	74		26	74		49.9	77		80.7	88		134	97	
8	5.0	73		12	73		19	74		31	75		60.9	80		97.0	93		154	100	
10	5.2	73		13	74		23	75		35	76		71.3	86		110.2	97		210	102	
12	7.4	74		15	74		23	75		39	76		79.5	87		121.3	97		210	102	
14	8.0	74		17	75		29	76		43	77		86.6	90		136.9	98		231	105	
16	----	----		----	----		----	----		----	----		93.9	92		144.5	99		231	105	
18	----	----		----	----		----	----		----	----		102.8	95		160.9	100		246	105	
20	----	----		----	----		----	----		----	----		107.5	95		169.1	100		261	105	

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*All tests are performed by Consolidated Laboratories, Inc.

BM-Series Sintered Bronze Exhaust Muffler



Lower cost zinc - plated steel fitting

HOW TO ORDER

BMS

Bronze Muffler Connection **Port Option**
(Steel Fitting) 18 = 1/8", 28 = 1/4" None = NPT
 38 = 3/8", 48 = 1/2" P = BSPT
 68 = 3/4", 88 = 1"
 128 = 1-1/4", 148 = 1-1/2"
 200 = 2"

SPECIFICATIONS

ITEM	MODEL	BMS-18	BMS-28	BMS-38	BMS-48	BMS-68	BMS-88	BMS-128	BMS-148	BMS-200
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5	2"-11.5
OVERALL LENGTH	IN.	29/32"	1-5/16"	1-17/32"	1-57/64"	2-9/32"	2-57/64"	3-15/32"	4"	4-9/16"
HEX	IN.	7/16"	9/16"	11/16"	7/8"	1-9/64"	1-11/32"	1-3/4"	1-31/32"	2-3/8"
MATERIAL	BODY	ZINC-PLATED STEEL (Zn-Fe)								
	ELEMENT	SINTERED BRONZE (40 micro standard only)								
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)								
OPERATING TEMPERATURE		35° ~ 300°F (1.6° ~ 149°C)								
WEIGHT (APPROX.)	OZ.	0.26	0.51	0.89	1.50	2.98	4.70	9.31	12.91	17.60
UNIT PACK	EA.	10	10	10	5	1	1	1	1	1



HOW TO ORDER

BM

Bronze Muffler **SAE#**
(Brass Fitting) **Connection (SAE)**
 4 = 7/16"-20, 6 = 9/16"-18
 8 = 3/4"-16, 12 = 1-1/16"-12

SPECIFICATIONS

ITEM	MODEL	BM-SAE#4	BM-SAE#6	BM-SAE#8	BM-SAE#12
CONNECTION	SAE	7/16"-20	9/16"-18	3/4"-16	1-1/16"-12
OVERALL LENGTH	IN.	1-11/32"	1-17/32"	1-55/64"	2-29/32"
HEX	IN.	9/16"	11/16"	7/8"	1-11/32"
MATERIAL	BODY	BRASS			
	ELEMENT	SINTERED BRONZE (40 micron)			
MAX OPERATING PRESSURE		300 PSI (21.0 kg/cm ²)			
OPERATING TEMPERATURE		35° ~ 300°F (1.6° ~ 149°C)			
WEIGHT (APPROX.)	OZ.	0.60	0.95	1.55	5.05
UNIT PACK	EA.	50	50	50	50

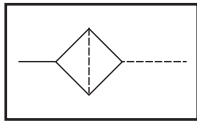
BV-Series Breather Vent

BV-Series low profile breather vent have many applications. They are most often used on single acting cylinders or valves to prevent dirt and foreign particles from entering ports open to the atmosphere. Common uses can also be found on vacuum relief or pressure equalization for gear boxes, crank cases, storage tanks or other vessels whenever pressure equalization is required.



Supplied with standard male pipe threads, they can be installed, with little protrusion, as a flat integral part of the equipment. Use wrench on hex head to tighten unit to the device. The filter element used in the standard breather vent is rated for 40 micron filtration, optional 10 or 90 micron is available upon request.

SYMBOL



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

HOW TO ORDER

BV	—	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>	<input type="checkbox"/>
Breather Vent (Brass Fitting)	Connection	Port Option		Element Porosity					
	08 = 10-32, 16 = 1/16"	None = NPT		None = 40um					
	18 = 1/8", 28 = 1/4"	P = BSPT		10 = 10um					
	38 = 3/8", 48 = 1/2"	G = BSPP		90 = 90um					
	68 = 3/4", 88 = 1"								

SPECIFICATIONS

ITEM	MODEL	BV-08*	BV-16	BV-18	BV-28	BV-38	BV-48	BV-68	BV-88
CONNECTION	NPTM	10-32UNF	1/16"-27	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	11/32"	13/32"	1/2"	11/16"	27/32"	31/32"	1-7/64"	1-11/32"
HEX	IN.	5/16"	3/8"	7/16"	9/16"	11/16"	7/8"	1-9/64"	1-11/32"
MATERIAL	BODY	BRASS							
	ELEMENT	SINTERED BRONZE (40 micron standard, 10 or 90 micron available)							
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)							
OPERATING TEMPERATURE		35° ~ 300°F (1.6° ~ 149°C)							
WEIGHT (APPROX.)	OZ.	0.07	0.12	0.19	0.39	0.70	1.17	1.84	3.31
UNIT PACK	EA.	10	10	10	10	10	10	5	1

* SUPPLY WITH GASKET.

BV-Series Breather Vent

Lower cost zinc - plated steel fitting



HOW TO ORDER

BVS — —
Breather Vent Connection Port Option
(Steel Fitting) 18 = 1/8", 28 = 1/4", None = NPT
 38 = 3/8", 48 = 1/2", P = BSPT
 68 = 3/4", 88 = 1"
 128 = 1-1/4", 148 = 1-1/2"

SPECIFICATIONS

ITEM	MODEL	BVS-18	BVS-28	BVS-38	BVS-48	BVS-68	BVS-88	BVS-128	BVS-148
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5	1-1/4"-11.5	1-1/2"-11.5
OVERALL LENGTH	IN.	1/2"	45/64"	27/32"	63/64"	1-3/16"	1-11/32"	1-31/64"	1-9/16"
HEX	IN.	7/16"	9/16"	11/16"	7/8"	1-1/8"	1-63/64"	1-3/4"	1-31/32"
MATERIAL	BODY	ZINC-PLATED STEEL (Zn-Fe)							
	ELEMENT	SINTERED BRONZE (40 micron standard only)							
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)							
OPERATING TEMPERATURE		35°~300°F (1.6°~149°C)							
WEIGHT (APPROX.)	OZ.	0.19	0.39	0.68	1.15	2.33	3.52	6.74	7.88
UNIT PACK	EA.	10	10	10	10	5	1	1	1



HOW TO ORDER

BV —
Breather Vent SAE# Connection (SAE)
(Brass Fitting) 4 = 7/16"-20, 6 = 9/16"-18
 8 = 3/4"-16, 10 = 7/8"-14
 12 = 1-1/16"-12

SPECIFICATIONS

ITEM	MODEL	BV-SAE#4	BV-SAE#6	BV-SAE#8	BV-SAE#10	BV-SAE#12
CONNECTION	SAE	7/16"-20	9/16"-18	3/4"-16	7/8"-14	1-1/16"-12
OVERALL LENGTH	IN.	47/64"	53/64"	15/16"	1-11/64"	1-11/32"
HEX	IN.	9/16"	11/16"	7/8"	1-11/64"	1-11/32"
MATERIAL	BODY	BRASS				
	ELEMENT	SINTERED BRONZE (70 micron)				
MAX OPERATING PRESSURE		150 PSI (10.55 kg/cm ²)				
OPERATING TEMPERATURE		35°~300°F (1.6°~149°C)				
WEIGHT (APPROX.)	OZ.	0.42	0.71	1.18	2.30	3.90
UNIT PACK	EA.	50	50	50	50	50

SCM-Series Speed Control Muffler

SCM-Series speed control muffler provides infinite variation of air flow control at an acceptable sound level on the exhaust ports of air valves.

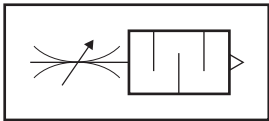
An external adjustment screw accurately varies orifice opening from closed to full flow as required. The final position is then locked in place by the jam nut. Objectionable exhaust air noise is eliminated by the surrounding sleeve of sintered bronze.



SCM-Series speed control mufflers feature complete safety in operation. The sintered bronze sleeve is held securely in position and protected by an integral shroud. Standard pipe thread connections provide easy attachment to equipment. Unit should be mounted in a protective position, free from excessive vibration.

Use wrench on hex head to tighten unit to the device. Unit contains a 40 micron element.

SYMBOL



HOW TO ORDER

SCM	—	<input type="checkbox"/> <input type="checkbox"/>	—	<input type="checkbox"/>
Speed Control Muffler		Connection		Port Option
		08 = 10-32UNF, 18 = 1/8",		None = NPT
		28 = 1/4", 38 = 3/8",		P = BSPT
		48 = 1/2", 68 = 3/4",		
		88 = 1"		



California Proposition 65 Warning

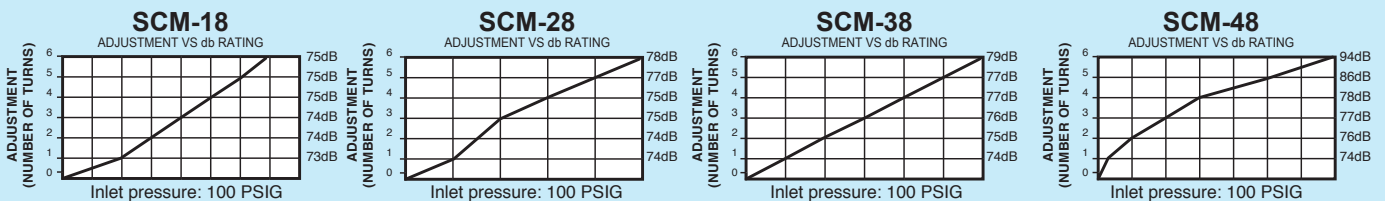
WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

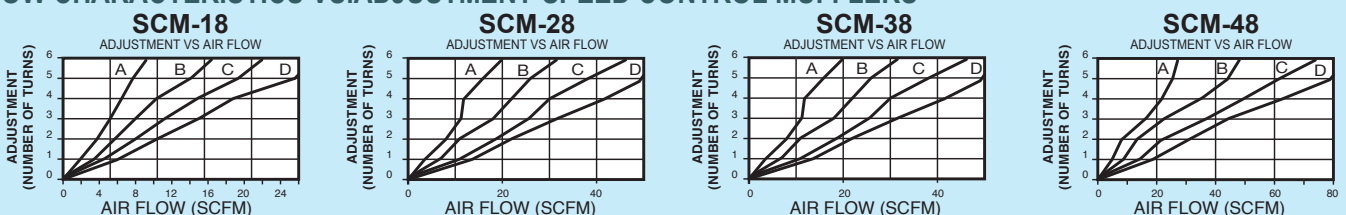
ITEM	MODEL	SCM-08	SCM-18	SCM-28	SCM-38	SCM-48	SCM-68	SCM-88
CONNECTION	NPTM	10-32UNF	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
MAX. ADJUSTMENT FLOW	SCFM	10	30	50	70	100	130	160
APPROX. HEIGHT (FULL OPEN)	IN.	23/32"	1-1/2"	1-11/16"	1-11/16"	2"	2-3/4"	3"
HEX	IN.	5/16"	1/2"	9/16"	11/16"	7/8"	1-7/64"	1-11/32"
MATERIAL	BODY	BRASS						
	ELEMENT	SINTERED BRONZE (40 micron)						
MAX OPERATING PRESSURE		150 PSI	300 PSI (21.1 kg/cm ²)					
OPERATING TEMPERATURE		35°~300°F (1.6°~149°C)						
WEIGHT (APPROX.)	OZ.	0.18	0.65	1.12	1.73	2.95	4.72	7.57
UNIT PACK	EA.	10	10	10	10	5	1	1

SOUND CHARACTERISTICS VS. ADJUSTMENT - SPEED CONTROL MUFFLER

INLET PRESSURE = 100 PSIG



FLOW CHARACTERISTICS VS. ADJUSTMENT - SPEED CONTROL MUFFLERS



A=25 PSIG B=50 PSIG C=75 PSIG D=100 PSIG

*All tests are performed by Consolidated Laboratories, Inc.

SPBMS-Series Bronze Muffler with Flow Adjustment

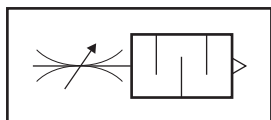
SPBMS-Series muffler utilize our very popular low cost BMS-Series mufflers modified to fit with an external flow adjustment screw.

The external flow adjustment screw accurately varies orifice opening from closed to full flow as required. The final position is then locked in place by the jam nut.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device. All units contain 40-micron filter element.



SYMBOL



HOW TO ORDER

SPBMS	—	<input type="checkbox"/>	<input type="checkbox"/>
Speed Control		Connection (NPTM)	
BMS		18 = 1/8"	
		28 = 1/4"	
		38 = 3/8"	
		48 = 1/2"	



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM	MODEL	SPBMS-18	SPBMS-28	SPBMS-38	SPBMS-48
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14
OVERALL LENGTH	IN.	1-41/64"	2-17/64"	2-41/64"	2-63/64"
HEX	IN.	7/16"	9/16"	11/16"	7/8"
MATERIAL	BODY	ZINC-PLATED STEEL (Zn-Fe)			
	ELEMENT	SINTERED BRONZE (40 micron)			
	ADJUSTMENT SCREW	ZINC-PLATED STEEL (Zn-Fe)			
	LOCK NUT	ZINC-PLATED STEEL (Zn-Fe)			
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)			
OPERATING TEMPERATURE		35°~ 300°F (1.6°~ 149°C)			
WEIGHT (APPROX.)	OZ.	0.40	0.80	1.52	2.48
UNIT PACK	EA.	5	5	5	5

SSBM-Series Stainless Steel Exhaust Muffler

SSBM-Series muffler is constructed with 300-Series stainless steel materials, they are resistant to atmospheric corrosion, foodstuffs, sterilizing solutions, many organic chemicals, dyestuffs and a wide variety of inorganic chemicals.

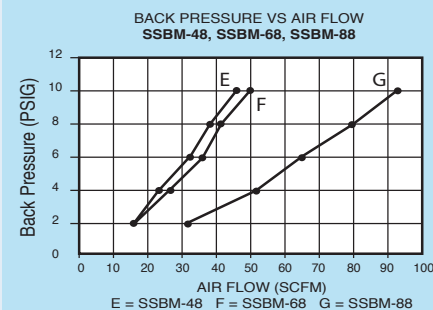
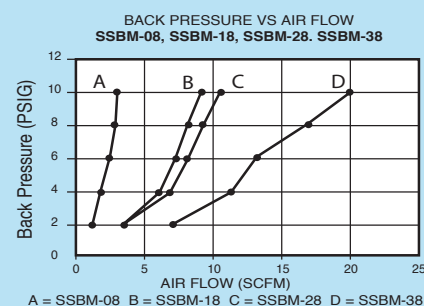
These compact mufflers are furnished with standard male pipe thread connection, they are easy to install and maintain, particularly suitable for confined area. They are used to diffuse air and muffle noise from the exhaust ports of air valves, air cylinders and air tools to an acceptable level within OSHA noise requirement.

SSBM-Series mufflers can also be used as filters for gasoline, various chemical solutions, oil and air exhaust and intake filtering, coalescing of oil mist or water vapor, etc.; Cryogenic phase separation; pressure of vacuum equalization and many others.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device. All units contain 70-micron filter element.



FLOW CHARACTERISTICS S.S. EXHAUST MUFFLER



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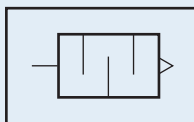
HOW TO ORDER

SSBM — □ □

**Stainless
Steel
Exhaust
Muffler**

Connection (NPTM)
08 = 10-32UNF
18 = 1/8", 28 = 1/4"
38 = 3/8", 48 = 1/2"
68 = 3/4", 88 = 1"

SYMBOL



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM	MODEL	SSBM-08	SSBM-18	SSBM-28	SSBM-38	SSBM-48	SSBM-68	SSBM-88
CONNECTION	NPTM	10-32UNF	1/8"-27	1/4-18	3/8"-18	1/2"-14	3/4-14	1"-11.5
OVERALL LENGTH	IN.	51/64"	1-3/32"	1-3/8"	1-7/8"	2-1/4"	2-51/64"	3-11/64"
HEX	IN.	5/16"	1/2"	5/8"	3/4"	15/16"	1-1/8"	1-1/2"
MATERIAL	BODY	SUS303 STAINLESS STEEL						
	ELEMENT	SUS316 STAINLESS STEEL (70 micron)						
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)						
OPERATING TEMPERATURE		35° ~ 392°F (1.6° ~ 200°C)						
WEIGHT (APPROX.)	OZ.	0.13	0.53	0.88	1.34	2.13	3.72	6.32
UNIT PACK	EA.	5	5	5	2	2	1	1

SOUND CHARACTERISTICS - STAINLESS STEEL EXHAUST MUFFLER

BACK PRESSURE (PSIG)	SSBM-08			SSBM-18		SSBM-28		SSBM-38		SSBM-48		SSBM-68		SSBM-88	
	FLOW (SCFM)	db		FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db	FLOW (SCFM)	db
2	0.9	60.0		3.4	60.0	3.4	60.5	7.0	60.0	15.0	60.0	15.0	64.0	31.0	68.0
4	1.2	60.0		5.2	60.5	5.4	61.5	11.0	60.5	24.0	62.0	25.0	65.0	51.0	75.0
6	1.7	60.0		6.8	61.0	7.1	62.0	13.0	61.0	31.0	63.5	32.0	66.0	65.0	79.0
8	1.9	60.0		8.1	61.5	8.7	62.5	17.0	62.0	38.5	65.5	40.0	67.0	79.5	81.0
10	2.2	60.0		9.5	62.0	10.4	63.0	20.0	62.5	45.0	67.0	50.0	67.5	93.0	82.5

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*All tests are performed by Consolidated Laboratories, Inc.

SSBV-Series Stainless Steel Breather Vent

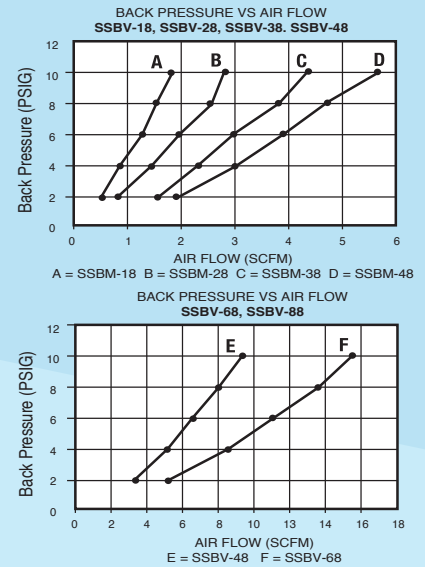
SSBV-Series low profile breather vent is constructed with 300-Series stainless steel materials, they are resistant to atmospheric corrosion, foodstuffs, sterilizing solutions, many organic chemicals, dyestuffs and wide variety of inorganic chemicals.



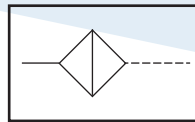
SSBV-Series compact breather vents are furnished with standard male pipe thread connections, they are often used on single acting stainless steel cylinders or valves to prevent dirt and foreign particles from entering port open to the atmosphere. Other common uses can also be found on vacuum relief or pressure equalization for gearboxes, crank cases, storage tanks or other vessels whenever pressure equalization is required.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device. All units contain 70-micron filter element.

FLOW CHARACTERISTICS S.S. BREATHER VENT



SYMBOL



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

HOW TO ORDER

SSBV —
Stainless Steel Breather Vent **Connection (NPTM)**
18 = 1/8", 28 = 1/4"
38 = 3/8", 48 = 1/2"
68 = 3/4", 88 = 1"

SPECIFICATIONS

ITEM	MODEL	SSBV-18	SSBV-28	SSBV-38	SSBV-48	SSBV-68	SSBV-88
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	37/64"	3/4"	57/64"	1"	1-5/32"	1-1/4"
HEX	IN.	1/2"	5/8"	3/4"	15/16"	1-1/8"	1-1/2"
MATERIAL	BODY	SUS303 STAINLESS STEEL					
	ELEMENT	SUS316 STAINLESS STEEL (70 micron)					
MAX OPERATING PRESSURE		150 PSI (10.5 kg/cm ²)					
OPERATING TEMPERATURE		35°~392°F (1.6°~200°C)					
WEIGHT (APPROX.)	OZ.	0.27	0.54	0.81	1.36	2.11	3.31
UNIT PACK	EA.	5	5	2	2	1	1

SOUND CHARACTERISTICS - STAINLESS STEEL EXHAUST MUFFLER

BACK PRESSURE (PSIG)	SSBV-18			SSBV-28			SSBV-38			SSBV-48			SSBV-68			SSBV-88		
	FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db		FLOW (SCFM)	db	
2	0.6	60.0		0.9	60.0		1.5	60.0		1.9	62.0		3.3	60.0		5.0	60.0	
4	1.0	60.0		1.5	60.0		2.4	60.5		3.0	62.5		5.0	61.5		8.5	61.0	
6	1.2	60.0		2.0	60.0		3.0	61.0		3.9	64.0		6.6	62.0		11.0	61.5	
8	1.5	60.0		2.4	60.5		3.7	61.5		4.8	64.5		7.9	63.5		13.5	62.0	
10	1.8	60.0		2.7	60.5		4.4	62.5		5.7	65.0		9.3	65.0		15.5	62.0	

SSSCM-Series Stainless Steel Speed Control Muffler

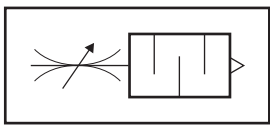
SSSCM-Series stainless steel speed control muffler provides infinite variation of air flow control at an acceptable sound level on the exhaust ports of air valves or single acting cylinder with complete safety. They are constructed with 300-Series stainless steel materials and therefore resistant to atmospheric corrosion, foodstuffs, sterilizing solutions, many organic chemicals, dyestuffs and a wide variety of inorganic chemicals.

An external adjustment screw accurately varies orifice opening from closed to full flow as required. The final position can then be locked in place by the jam nut. The surrounding sleeve of stainless steel element reduces exhaust air noise. And it is protected by the integral stainless steel shroud/cage.

Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device. All units contain 70 micron filter element.



SYMBOL



HOW TO ORDER

SSSCM	—	<input type="checkbox"/>	<input type="checkbox"/>
Stainless Steel	Connection (NPTM)		
Speed Control	18 = 1/8", 28 = 1/4"		
Muffler	38 = 3/8", 48 = 1/2"		
	68 = 3/4", 88 = 1"		

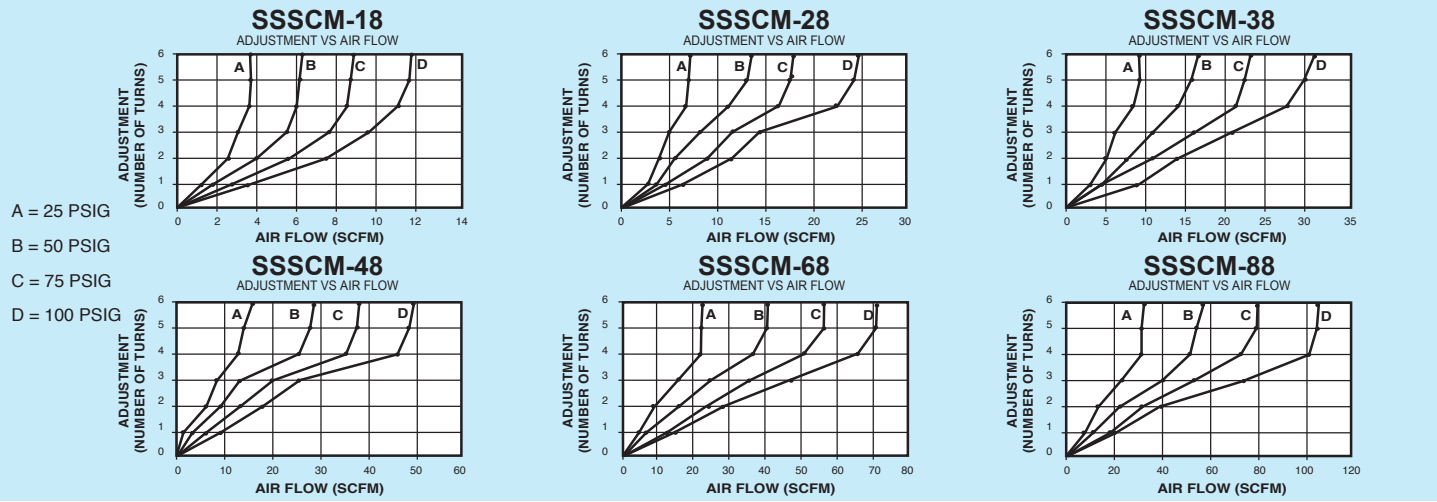
California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM	MODEL	SSSCM-18	SSSCM-28	SSSCM-38	SSSCM-48	SSSCM-68	SSSCM-88
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	1-17/32"	1-59/64"	2-1/16"	2-25/64"	2-27/32"	3-1/16"
HEX	IN.	1/2"	9/16"	43/64"	7/8"	1-1/16"	1-3/8"
MATERIAL	BODY	SUS303 STAINLESS STEEL					
	ELEMENT	SUS316 STAINLESS STEEL (70 micron)					
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)					
OPERATING TEMPERATURE		35°~392°F (1.6°~200°C)					
WEIGHT (APPROX.)	OZ.	0.63	1.03	1.63	2.91	4.85	7.81
UNIT PACK	EA.	5	5	2	2	1	1

FLOW CHARACTERISTICS VS ADJUSTMENT - STAINLESS STEEL SPEED CONTROL MUFFLER



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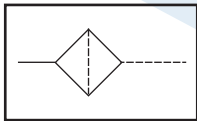
SSSBN-Series Stainless Steel Screen Breather Vent

SSSBN-Series breather vent combines low profile and high air flow into a reality, suitable for many applications, particularly where space is limited. Special screen filter is formed by stainless steel wire, offers very high mechanical resistance, guaranteeing long life even under high pressure. 316 grade stainless steel fitting offers complete corrosion resistance.




Supplied with standard male pipe threads, they can be installed with little protrusion as a flat integral part of the equipment. Unit should be mounted in a protective position free from excessive vibration. Use wrench on hex head to tighten unit to the device. Stainless steel wire screen can be easily cleaned by reversing the flow of the filtered matter.

SYMBOL



HOW TO ORDER

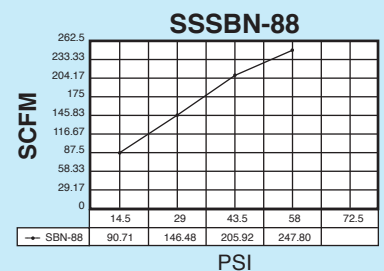
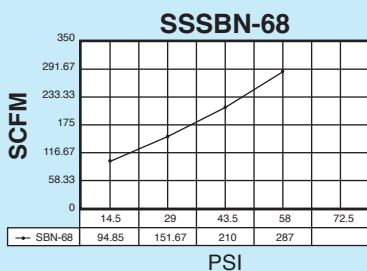
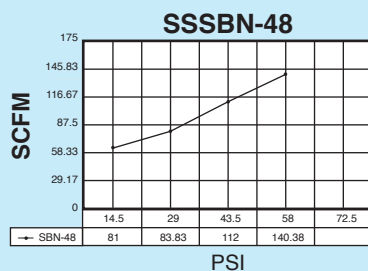
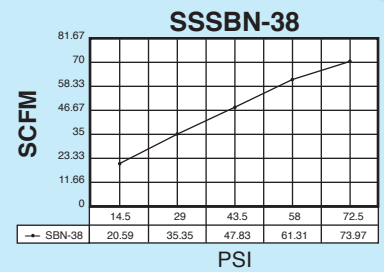
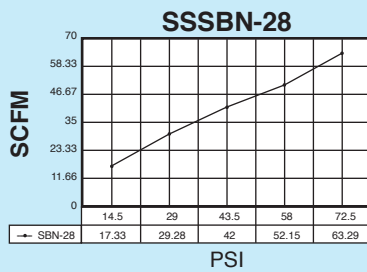
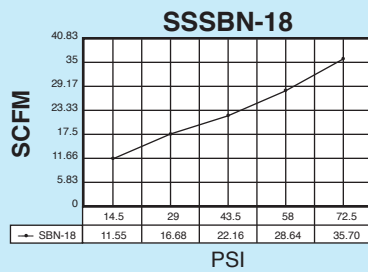
SSSBN – □ □ – **316**
Stainless Steel **Connection (NPTM)**
Screen Breather Vent **18 = 1/8", 28 = 1/4"**
 38 = 3/8", 48 = 1/2"
 68 = 3/4", 88 = 1"

California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM	MODEL	SSSBN-18-316	SSSBN-28-316	SSSBN-38-316	SSSBN-48-316	SSSBN-68-316	SSSBN-88-316
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5
OVERALL LENGTH	IN.	43/64"	53/64"	1"	1-11/64"	1-31/64"	1-11/16"
HEX	IN.	1/2"	5/8"	3/4"	61/64"	1-3/16"	1-1/2"
NOISE LEVEL @60 PSI	dB	70	69	85	85	86	88
NOISE LEVEL @115 PSI	dB	74	72	88	90	90	92
MATERIAL	BODY	SUS316 STAINLESS STEEL					
	ELEMENT	STAINLESS STEEL WIRE SCREEN (10~150 micron)					
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)					
OPERATING TEMPERATURE		35°~392°F (1.6°~200°C)					
WEIGHT (APPROX.)	OZ.	0.30	0.56	0.90	1.45	2.70	4.43
UNIT PACK	EA.	5	5	2	2	1	1

FLOW CHARACTERISTICS



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RIF-Series Repairable Air/Oil Inline Filter

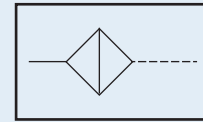
RIF-series in-line filter is designed to protect small air tools, such as grinders, impact wrenches, nut runners and screwdrivers. It will extend tool life and reduces downtime by preventing foreign particles from entering the air tool, therefore eliminating expensive tool repair.

Its compact and lightweight anodized aluminum body can be easily installed directly before the air tool.

RIF-Series inline filter can also be used in low-pressure hydraulic applications. They can remove debris or contaminants, hence decrease tool wear and increase system efficiency. The 40-micron filter element insures minimum pressure drop and be easily replaced or cleaned, and is available in 20 and 90 microns.



SYMBOL

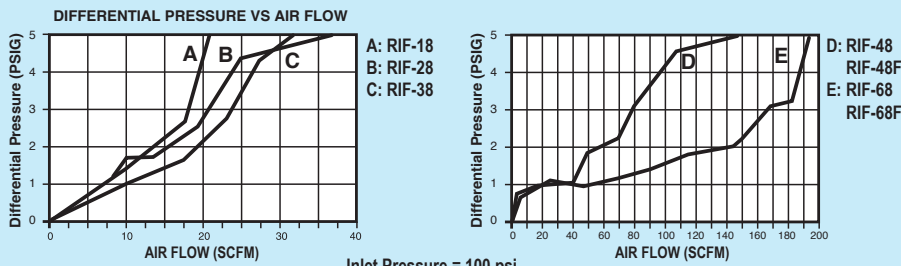


HOW TO ORDER

RIF	—	□ □	—	□ □	—	□
Repairable Inline Filter	Connection (NPT)	Element Porosity	O-Ring Type			
	18 = 1/8", 28 = 1/4"	None = 40um (Std.)	None = Buna "N"			
	38 = 3/8", 48 = 1/2"	20 = 20um	V = Viton			
	68 = 3/4", 48F = 1/2" F-F	90 = 90um				
	68F = 3/4" F-F					

California Proposition 65 Warning
WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

FLOW CHARACTERISTICS



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RK	—	□	—	□ □
Repair Kit*	1 = For	RIF-18	Filter Porosity	
		RIF-28	20 = 20um	
		RIF-38	40 = 40um	
	2 = For	RIF-48	90 = 90um	
		RIF-48F		
		RIF-68		
		RIF-68F		
*Each kit consist of 1 x Spring				
1 x Filter Element				
1 x O-Ring				

SPECIFICATIONS

ITEM	MODEL	RIF-18	RIF-28	RIF-38	RIF-48	RIF-48F	RIF-68	RIF-68F
FLUID		AIR, OIL AND WATER						
CONNECTION	NPT	1/8" F-M	1/4" F-M	3/8" F-M	1/2" F-M	1/2" F-F	3/4" F-M	3/4" F-F
OVERALL LENGTH	IN.	2-11/64"	2-21/64"	2-3/8"	3-13/16"	3-21/64"	3-7/8"	3-21/64"
HEX	IN.	3/4"	3/4"	7/8"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
MATERIAL	BODY	ANODIZED ALUMINUM						
	ELEMENT	SINTERED BRONZE (40 micron standard, 20 or 90 micron available)						
MAX OPERATING PRESSURE		500 PSI (35.0 kg/cm ²)						
OPERATING TEMPERATURE		STANDARD BUNA "N": 35°~ 200°F (1.6°~ 93.3°C), OPTIONAL VITON: 35°~ 400°F (1.6°~ 204°C)						
WEIGHT (APPROX.)	OZ.	1.28	1.28	1.28	7.36	7.36	7.36	7.36
UNIT PACK	EA.	5	5	5	1	1	1	1

NIF-Series Nipple Inline Filter

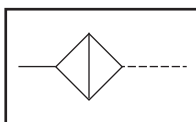
NIF-Series nipple inline filter is compact, lightweight and inexpensive to install at the point of use. Common usages are filtration for air, oil and water.

Unit construction features a unique conical shaped porous sintered bronze filter element in a brass nipple fitting. Conical filter provides larger filtering surface and uninterrupted axial flow than typical disc filter.

The porous sintered bronze element is available in 40 or 90 microns; element can not be replaced and must be disposed upon end of its service life.



SYMBOL



HOW TO ORDER

NIF	—	□ □	—	□ □
Nipple Inline Filter		Connection (NPTM)		Filter Porosity
		18 = 1/8"		40 = 40um
		28 = 1/4"		90 = 90um
		38 = 3/8"		
		48 = 1/2"		



California Proposition 65 Warning

WARNING: This product can expose you to chemicals, including lead, which is known to the state of California to cause Cancer, Birth Defects or other reproductive harm. For more information go to www.p65warnings.ca.gov

SPECIFICATIONS

ITEM	MODEL	NIF-18	NIF-28	NIF-38	NIF-48
FLUID		AIR, OIL AND WATER			
CONNECTION	NPTM	1/8"-27	1/4"-18	3/8"-18	1/2"-14
OVERALL LENGTH	IN. (mm)	1-3/16" (30.2)	1-15/32" (37.2)	1-11/16" (42.8)	1-29/32" (48.4)
HEX	IN.	7/16"	9/16"	11/16"	7/8"
MATERIAL	BODY	BRASS			
	STRAINER	SINTERED BRONZE (40 OR 90 micron)			
MAX OPERATING PRESSURE		300 PSI (21.1 kg/cm ²)			
OPERATING TEMPERATURE		35°~300°F (1.6°~149°C)			
WEIGHT (APPROX.)	OZ.	0.58	0.56	2.10	3.53
UNIT PACK	EA.	5	5	5	5

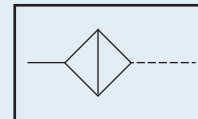
HIF-Series Hydraulic Inline Filter



The HIF-Series Hydraulic inline filter is used to protect high-pressure hydraulic systems up to 3,000 PSI. When installed at the pressure side of a pump, the sintered bronze filter element can trap all debris larger than the 25um to prevent damage to the valves in the system. The conical shaped sintered bronze element is positioned by a retaining spring to allow true, uninterrupted axial flow while protecting against system crashing by increasing pressure drop across the filter.


The strong, yet lightweight anodized aluminum housing can be ordered with special Viton O-rings for oil systems where chemical action or heat may be a problem for the standard Buna "N" O-rings. The standard 25um sintered bronze filter element can be easily cleaned or replaced. Filter elements are also available in pore sizes of 10, 40 or 90 microns.

SYMBOL



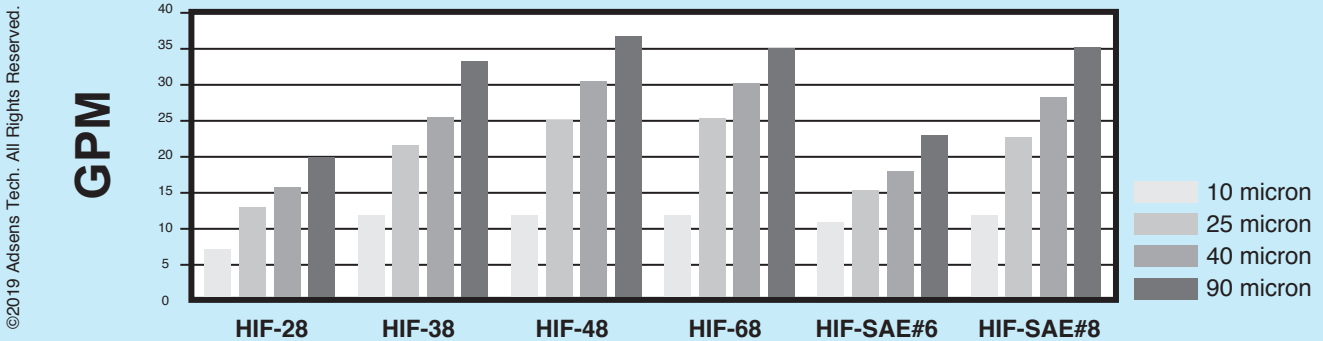
HOW TO ORDER

HIF	□ □	□ □	□
Hydraulic In-line Filter	Connection 28 = 1/4", 38 = 3/8" 48 = 1/2", 68 = 3/4" SAE#6 = 9/16"-18 SAE#8 = 3/4"-16	Element Porosity None = 25um 10 = 10um 40 = 40um 90 = 90um	O-Ring Type None = Buna "N" V = Viton

California Proposition 65 Warning

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FLOW CHARACTERISTICS

25 PSIG Pressure Drop @100 PSIG



SPECIFICATIONS

ITEM	MODEL	HIF-28	HIF-38	HIF-48	HIF-68	HIF-SAE#6	HIF-SAE#8
CONNECTION	NPT	1/4"-18	3/8"-18	1/2"-14	3/4"-14	9/16"-18	3/4"-16
OVERALL LENGTH	IN.	3-3/16"	3-3/16"	4-15/16"	4-15/16"	3-1/4"	3-1/4"
HEX	IN.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
MATERIAL	BODY	ANODIZED ALUMINUM					
	ELEMENT	SINTERED BRONZE (25 um standard, 10, 40 and 90 um available)					
MAX OPERATING PRESSURE		3,000 PSI (210 kg/cm ²)					
OPERATING TEMPERATURE		Standard Buna "N": 35° ~ 200°F (1.7° ~ 93°C), Optional Viton: 35° ~ 400°F (1.7° ~ 204°C)					
UNIT PACK	EA.	2	2	2	2	2	2

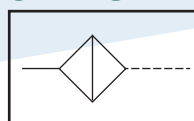
HIL-Series Hydraulic Inline Filter

The HIL-Series inline filter is used to protect high-pressure hydraulic systems up to 5,000 PSI. When installed at the pressure side of a pump, the sintered bronze filter element can trap all debris larger than 25um to prevent damage to the valves in the system. The design and performance is similar to the HIF-Series filters, but allow the filter element to be removed without breaking the line connections. Filter cleaning or replacement is as easy as unscrewing the filter access cap.

The strong, yet lightweight anodized aluminum housing can be ordered with special Viton O-rings for oil systems where chemical action or heat may be a problem for the standard Buna "N" O-rings. The standard 25um sintered bronze filter element can be easily cleaned or replaced. Filter elements also available in pore size of 10, 40 or 90 microns.



SYMBOL



California Proposition 65 Warning

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REPLACEMENT FILTER ELEMENT KIT

FILTER TYPE	ELEMENT & SEAL KIT	UNIT PACK
HIF-28, HIF-38 HIF-SAE#6, HIF-SAE#8 All HIL-Series	REK2 (25 micron) REK2-10 (10 micron) REK2-40 (40 micron) REK2-90 (90 micron)	5
Above with Viton Seal	REK2V (25 micron) REK2V-10 (10 micron) REK2V-40 (40 micron) REK2V-90 (90 micron)	5
HIF-48 & HIF-68	REK4 (25 micron) REK4-10 (10 micron) REK4-40 (40 micron) REK4-90 (90 micron)	5
Above with Viton Seal	REK4V (25 micron) REK4V-10 (10 micron) REK4V-40 (40 micron) REK4V-90 (90 micron)	5

HOW TO ORDER

HIL	Connection	Element Porosity	O-Ring Type
Hydraulic Inline Filter L-Type	28 = 1/4" 38 = 3/8" SAE#6 = 9/16"-18	None = 25um 10 = 10um 40 = 40um 90 = 90um	None = Buna N (NBR) V = Viton

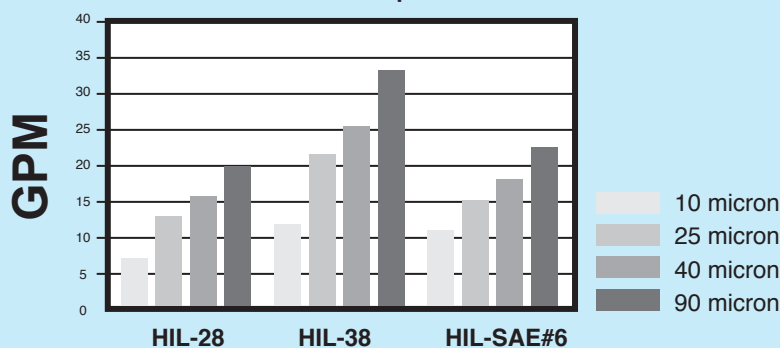
REPLACEMENT SPRING KIT

FILTER TYPE	SPRIG KIT	UNIT PACK
HIF-28, HIF-38, HIF-SAE#6, HIF-SAE#8	RSK2	5
All HIL-Series	RSK2T	5
HIF-48 & HIF-68	RSK4	5

FLOW CHARACTERISTICS

25 PSIG Pressure Drop @100 PSIG

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SPECIFICATIONS

ITEM	MODEL	HIL-28	HIL-38	HIL-SAE#6
CONNECTION	NPTM	1/4"-18	3/8"-18	9/16"-18
OVERALL LENGTH	IN.	3-3/16"	3-3/16"	3-3/16"
HEX	IN.	2-1/2"	2-1/2"	2-1/2"
MATERIAL	BODY	ANODIZED ALUMINUM		
	ELEMENT	SINTERED BRONZE (25 um standard, 10, 40 and 90 um available)		
MAX OPERATING PRESSURE		5,000 PSI (350 kg/cm ²)		
OPERATING TEMPERATURE		Standard Buna "N": 35°~ 200°F (1.7°~ 93°C), Optional Viton: 35° ~ 400°F (1.7°~ 204°C)		
UNIT PACK	EA.	2	2	2

SHV-Series Sliding Hand Valve

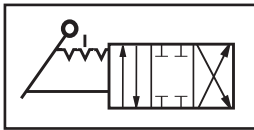
SHV-Series sliding hand valve is a 4-way, 3-position, manual-operated air valve. Recommended for stationary air cylinders, arbor presses, and/or as a throttling valve for positioning air cylinder.

The 90° lever movement provides reliable switching function by the rotary disc. The rotary disc is under consistent spring pressure to provide a leak-proof seal. In center position, inlet is closed to pressure, and the outlet is closed to exhaust. Each position is positively detented and the removable handle prevents unauthorized movement.

Unit should be mounted in a protective position, free from excessive vibration. Use of filtered and lubricated air is highly recommended for maximum valve life and minimum maintenance.



SYMBOL



HOW TO ORDER

SHV —
Sliding Hand Valve **Connection**
 28 = 1/4"
 38 = 3/8"
 48 = 1/2"



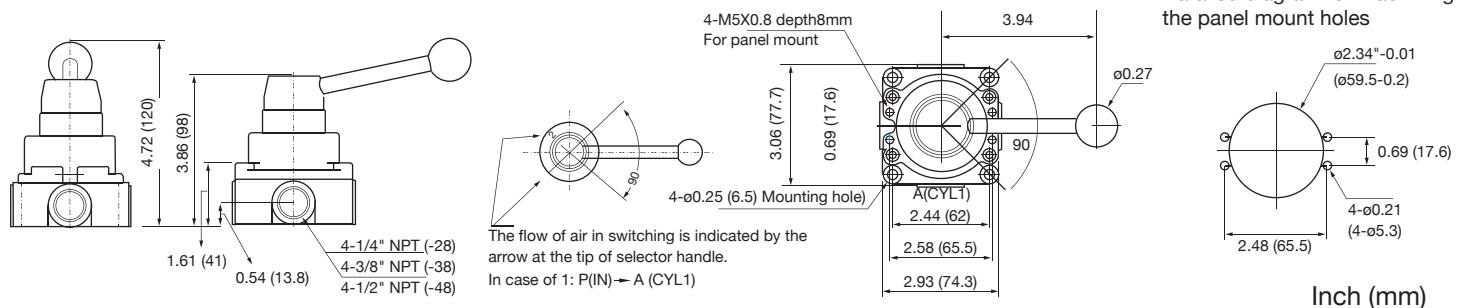
California Proposition 65 Warning

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SPECIFICATIONS

ITEM	MODEL	SHV-28	SHV-38	SHV-48
CONNECTION	NPTF	1/4"-18	3/8"-18	1/2"-14
FLUID		AIR		
VALVE FUNCTION		4-WAY, 3 POSITION		
OPERATION METHOD		ROTARY DISK, DIRECT-ACTING TYPE		
LEVER OPERATING ANGLE		90°(45° EACH DIRECTION)		
CV FACTOR	JIS	2.17	2.17	3.25
PRESSURE RANGE		0 ~ 140 PSI (0 ~ 10.0 kg/cm ²)		
PROOF PRESSURE		213 PSI (15.0 kg/cm ²)		
OPERATING TEMPERATURE		41° ~ 140°F (5° ~ 60°C)		
MATERIAL	BODY	ZINC	ALUMINUM	
	COVER	ZINC		
	ROTARY DISK	TEFLON		
WEIGHT	OZ	21.50	21.50	20.50

DIMENSIONS



SLV-Series Sleeve Valve

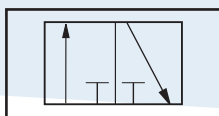
SLV-Series sleeve valves combines high flow capability with short stroke in a small package. Unlike ball valves, sleeve valves do not require space for a handle.

SLV-Series sleeve valves features smooth opening/closing operation. Outlet is exhausted to atmosphere when the valves is closed.

Unit is constructed of brass body and anodized aluminum sleeve for corrosion resistance.



SYMBOL



HOW TO ORDER

SLV

Sleeve Valve

—



—



Connection (NPT)

18 = 1/8", 28 = 1/4"

38 = 3/8", 48 = 1/2"

Port Option

None = Female Inlet

M = Male Inlet



California Proposition 65 Warning

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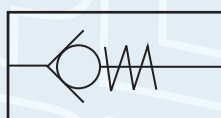
SPECIFICATIONS

ITEM	MODEL	SLV-18	SLV-28	SLV-38	SLV-48
CONNECTION	NPT	1/8"-27 M-F	1/4"-18 M-F	3/8"-18 M-F	1/2"-14 M-F
FLUID	AIR ONLY				
VALVE FUNCTION	2-POSITION, 3-WAY, VENT TO EXHAUST				
LENGTH	IN. (mm)	2-11/16" (68.0)	2-27/32" (72.0)	3" (76.0)	3-5/8" (92.0)
HEX	IN. (mm)	5/8" (16.0)	43/64" (17.0)	3/4" (19.0)	61/64" (24.0)
SLEEVE DIAMETER	IN. (mm)	1-13/16" (30.0)	1-13/16" (30.0)	1-13/16" (30.0)	1-7/8" (47.5)
MATERIAL	BODY	BRASS			
	SLEEVE	ANODIZED ALUMINUM			
OPERATING PRESSURE	0 ~ 140 PSI (0 ~ 10 kg/cm ²)				
OPERATING TEMPERATURE	41° ~ 140° F (5° ~ 60°C)				
WEIGHT	OZ.	3.30	3.38	3.69	9.06

CHV-Series Check Valve

CHV-Series check valves are used in fluid systems to permit free flow of air in one direction (forward flow) and prevent flow in the opposite direction (reverse flow) only, as indicated by an arrow stamped on the valve body.

SYMBOL



HOW TO ORDER

CHV – –

Check Valve **Connection (NPT)** **Port Option**
 18 = 1/8" None = Female Inlet
 28 = 1/4" MF = Male Inlet
 38 = 3/8"
 48 = 1/2"



California Proposition 65 Warning

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SPECIFICATIONS

ITEM	MODEL	CHV-18	CHV-28	CHV-38	CHV-48
CONNECTION	NPT	1/8"-27	1/4"-18	3/8"-18	1/2"-14
FLUID		AIR ONLY			
LENGTH	IN. (mm)	1-37/44" (40.0)	1-31/32" (50.0)	2-9/32" (58.0)	2-39/64" (66.0)
HEX	IN. (mm)	9/16" (14.0)	43/64" (17.0)	3/4" (19.0)	63/64" (25.0)
EFFECTIVE AREA	Cv (mm ²)	1.22 (22.51)	2.00 (36.90)	2.50 (46.13)	3.80 (70.11)
MATERIAL	BODY	NICKEL-PLATED BRASS (Ni-Cu)			
	VALVE	NICKEL-PLATED BRASS (Ni-Cu)			
	SPRING	STAINLESS STEEL			
	O-RING	BUNA "N" (NBR)			
CRACKING PRESSURE		5 PSI			
OPERATING PRESSURE		5 ~ 213 PSIG (0.3 ~ 15.0 kg/cm ²)			
OPERATING TEMPERATURE		41° ~ 140° F (5° ~ 60°C)			
WEIGHT	OZ.	1.38	2.33	2.79	5.96

CONVERSION FACTORS

LENGTH

inch-mm	inch x 25.4 = mm	mm x 0.03937 = inch
inch-cm	inch x 2.54 = cm	cm x 0.3937 = inch
feet-m	feet x 0.3048 = m	m x 3.2808 = feet
yard-m	yard x 0.9144 = m	m x 1.0936 = yard

WEIGHT

g-ounce	g X 0.0352 = oz	ounce x 28.349 = g
kg-pound	kg x 2.2046 = lb.	lb. x 0.4535 = kg

PRESSURE (Vacuum)

Pa-kgf/cm ²	Pa x 0.00001 = kgh/cm ²	kgf/cm ² x 98070 = Pa
kPa-kgf/cm ²	kPa x 0.01002 = kgf/cm ²	kgf/cm ² x 980.71 = kPa
MPa-kgf/cm ²	MPa x 1.02 = kgf/cm ²	kgf/cm ² x 0.098 = MPa
Pa-Psi	Pa x 0.000145 = psi	psi x 6895 = Pa
KPa-psi	kPa x 0.145 = psi	psi x 6.895 = kPa
MPa-psi	MPa x 145 = psi	psi x 0.006895 = MPa
mmHg-in. Hg	mmHg x 0.03937 = in. Hg	in.Hg x 25.4 = mmHg
mmHg-Torr	mmHg + 760 = Torr	Torr - 760 = mmHg

AIR FLOW

SCFM-Nl/min	SCFM x 28.57 = Nl/min	Nl/min x 0.035 = SCFM
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EFFECTIVE CROSS-SECTIONAL AREA-Cv FACTOR

mm ² -Cv	mm ² x 0.0542 = Cv	Cv x 18.45 = mm ²
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TEMPERATURE

C° - F°	°C x 9/5 + 32 = °F	(°F-32) x 5/9 = °C
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FORCE

N-kgf	N x 0.10197 = kgf	kgf x 9.8067 = N
N-lbf	N x 0.22481 = lbf	lbf x 4.4482 = N
kgf-lbf	kgf x 2.20462 = lbf	lbf x 0.45359 = kgf

TORQUE

N.m-kgf.m	N.m x 0.10197 = kgf.m	kgf.m x 9.8067 = N.m
N.m-lbf.ft	N.m x 0.73756 = lbf.ft	lbf.ft x 1.3558 = N.m
kgf.m-lbf.ft	kgf.m x 7.233 = lbf.ft	lbf.ft x 0.13826 = kgf.m