



NOISE CONTROL DIRECTORY

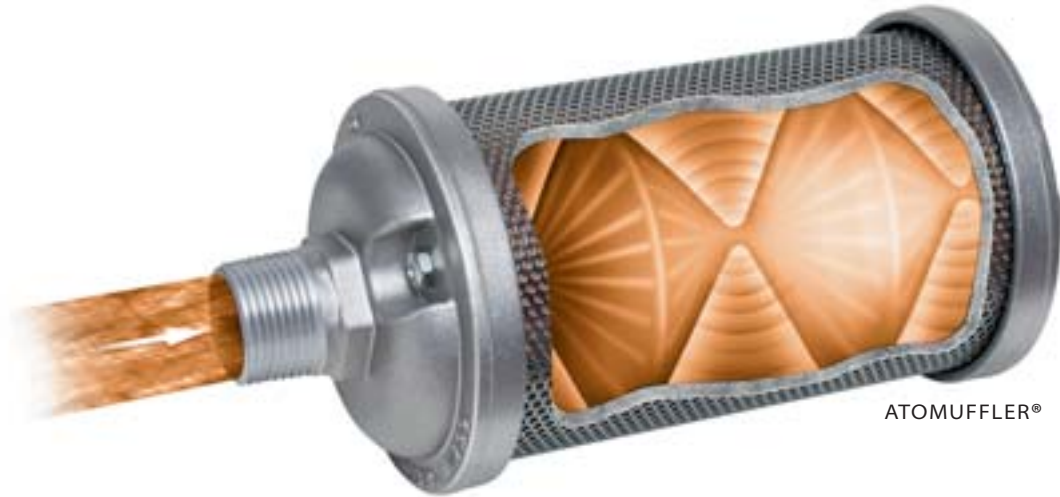
PROMOTES CLEAN QUIET PNEUMATICS

allied witan company

About Us

Based in the Cleveland, Ohio, area for more than 60 years, the Allied Witan Company manufactures industrial noise control devices that promote clean, quiet, pneumatic technologies. Our complete line of air exhaust mufflers, all-metal mufflers and filters, porous metal filter silencers and breather-vent-filters help promote health and safety in the industrial workplace.





ATOMUFFLER® AND BANTAM™ DESIGNS FOR NOISE CONTROL BY THE ALLIED WITAN COMPANY

Stop Noise Before it Starts

The deafening roar of air exhaust isn't just distracting – it also can be dangerous. Eliminate the noise and help keep employees safe with the Atomuffler® and Bantam™ designs for noise control, offered exclusively by the Allied Witan Company.

How They Work

The Atomuffler and Bantam muffler and filter product lines eliminate excessive noise by dividing the air stream and turning it back on itself. As air exhaust enters the muffler at high velocity, the Atomuffler and Bantam mufflers redirect it into smaller air streams that rebound off opposing walls of the chamber. With the air streams colliding head-on with each other, the velocity is reduced and the air is dispersed throughout the disseminator surface area. This technique eliminates noise without sacrificing machine performance.

How They Help

For more than 60 years the Atomuffler has been used in thousands of plants and countless applications, and the Bantam muffler has proven itself time and again for more than 40 years. They both have an outstanding ability to eliminate excessive noise for a more pleasant working environment while reducing potential physical injuries caused by extreme air blasts.

Advantages

The Atomuffler's radical, full-flow design uses interposing sound waves, multiple-stage velocity deceleration, an obstruction-free expansion chamber and a porous disseminator (filter element) to completely dissipate harmful air exhaust blasts. A large peripheral exhaust surface area diffuses the air blast, further lowering velocity and reducing air noise. The Atomuffler is ideal for reducing Exponentially Perceived Noise (EPNdB).



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Distribution

Allied Witan Company products are sold through a wide network of original equipment manufacturers and distributors. Please contact your local representative for product details and purchasing, or contact us for a representative near you.

If you and/or our distributor are unable to find a solution for your pneumatic equipment requirements in this catalog, please contact us directly. We will work with you to meet your specific needs.

All units engineered and manufactured by Allied Witan Company are constructed of corrosion-resistant materials for long life and maintenance-free performance.

The Atomuffler product line has available replacement filter elements (also referred to as disseminators), as noted in the appropriate information charts. Other replacement parts are also available as needed.

All connection sizes and dimensions are given in inches.

All item weights (without packaging weight) are given in pounds.

All flow rates are given in Standard Cubic Feet per Minute (SCFM) and measured at 90 PSI at approximately 70°F.

Items are available from the following thread types:

Male NPT	National Pipe Thread Tapered
Male BSPT	British Standard Pipe Thread Tapered (ISO 7-2:2000)
Female NPS	National Pipe Thread Straight

Mounting Instructions

All units are provided with a hex head, making them easy to attach to exhaust ports. Units should be mounted in a protective position, free from excess vibration.

Air Exhaust Muffler



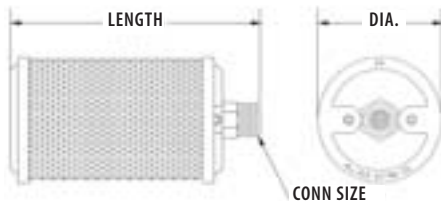
"The Original"... provides up to 85% noise reduction and 94% flow factor

Thoroughly proven on thousands of installations, the world-class Atomuffler® Air Exhaust Muffler expertly reduces Exponentially Perceived Noise (EPNdB) without impeding equipment performance. Its design takes explosive air exhaust noise discharged from valve exhaust ports and muffles it with optimized Constant Velocity (CV) flow factor. Exhaust air flows softly to atmosphere free of noise, oil fog, and contaminants – providing a clean, comfortable and productive work environment.

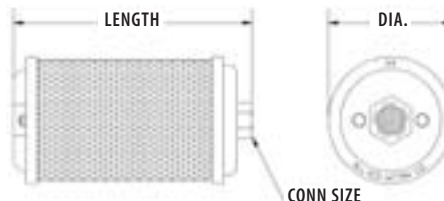
The Air Exhaust Muffler features a unique obstruction-free expansion chamber. Standard Air Exhaust Muffler construction includes aluminum end covers, zinc-plated steel components and a cellulose fiber element.

This design is recommended for general purpose air exhaust applications for pressures up to 125 psi.

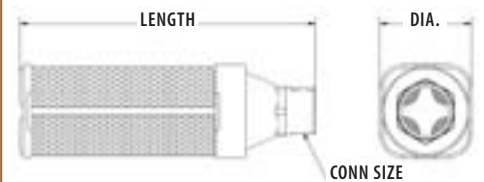
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Conn Size	Connection Thread Types						Dimensions					
	Male NPT		Female NPS		Male BSPT		Diameter	Length		Item weight	Flow SCFM	Replace-ment Element
	Model Type	Item Number	Model Type	Item Number	Model Type	Item Number		Male	Female			
1/8	M01	0111001	N01	0211001	B01	0121001	1.84	3.12	2.81	.19	44	0911001
1/4	M02	0111002	N02	0211002	B02	0121002	1.84	4.37	4.00	.24	84	0911002
3/8	M00	0111000	N00	0211000	B00	0121000	2.59	5.12	4.56	.49	192	0911000
1/2	M05	0111005	N05	0211005	B05	0121005	3.15	6.00	5.50	.79	256	0911005
3/4	M07	0111007	N07	0211007	B07	0121007	3.40	7.18	6.68	1.04	544	0911007
1	M10	0111010	N10	0211010	B10	0121010	3.90	8.75	7.92	1.42	800	0911010
1-1/4	M12	0111012	N12	0211012	B12	0121012	3.90	8.75	8.00	1.45	1360	0911012
1-1/2	M15	0111015	N15	0211015	B15	0121015	5.25	13.56	12.50	3.27	2080	0911015
2	M20	0111020	N20	0211020	B20	0121020	5.25	18.87	17.75	4.22	3200	0911020
3	M30	0111030	-	-	B30	0121030	7.00	22.93	-	13.43	7200	0911030
4	M40	0111040	-	-	B40	0121040	8.00	23.56	-	14.69	14000	0911040
6	M60	0111060	-	-	B60	0121060	11.00	30.93	-	29.83	36000	0911060

Relief Valve Muffler



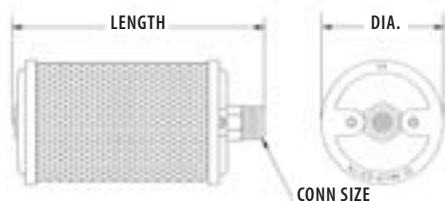
Pressure equalization optimizes performance

The Atomuffler® Relief Valve Muffler includes all the outstanding features of the industry-standard Atomuffler plus an added relief valve. Superior design and construction provides a low-cost, effective method of eliminating annoying, distracting noise emitted from air-operated devices.

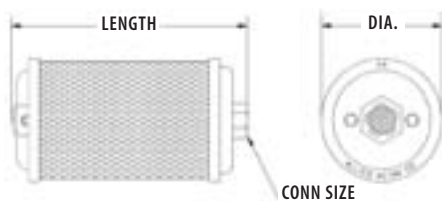
The unique relief valve equalizes pressure by detecting any outflow deviation, responding to the pressure differential and opening up to compensate for outflow demands.

Relief Valve Mufflers are ideal for applications where uninterrupted continuous outflow is imperative.

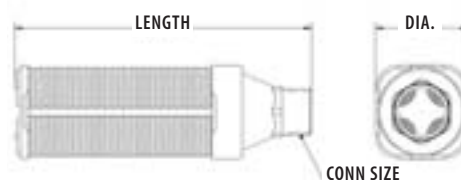
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Connection Thread Types							Dimensions					
Conn Size	Male NPT		Female NPS		Male BSPT		Diameter	Length		Item weight	Flow SCFM	Replace- ment Element
	Model Type	Item Number	Model Type	Item Number	Model Type	Item Number		Male	Female			
1/8	X01	0312001	R01	0412001	X01	0322001	1.84	3.12	2.81	.20	44	0911001
1/4	X02	0312002	R02	0412002	X02	0322002	1.84	4.37	4.00	.25	84	0911002
3/8	X00	0312000	R00	0412000	X00	0322000	2.59	5.12	4.56	.53	192	0911000
1/2	X05	0312005	R05	0412005	X05	0322005	3.15	6.00	5.50	.89	256	0911005
3/4	X07	0312007	R07	0412007	X07	0322007	3.40	7.18	6.68	1.15	544	0911007
1	X10	0312010	R10	0412010	X10	0322010	3.90	8.75	7.92	1.68	800	0911010
1-1/4	X12	0312012	R12	0412012	X12	0322012	3.90	8.75	8.00	1.77	1360	0911012
1-1/2	X15	0312015	R15	0412015	X15	0322015	5.25	13.56	12.50	3.63	2080	0911015
2	X20	0312020	R20	0412020	X20	0322020	5.25	18.87	17.75	4.60	3200	0911020
3	X30	0312030	-	-	X30	0322030	7.00	22.93	-	14.86	7200	0911030
4	X40	0312040	-	-	X40	0322040	8.00	23.56	-	18.51	14000	0911040
6	X60	0312060	-	-	X60	0322060	11.00	30.93	-	37.24	36000	0911060

Air Dryer Muffler



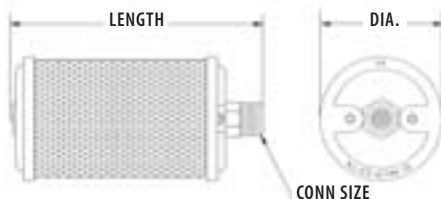
Dual-stage filter element traps particulates for longer element life and less noise

The Atomuffler® Air Dryer Muffler is designed specifically to manage the demanding service problems associated with desiccant regenerative-type air dryers. These air dryers often expel air laden with moisture which can be heavily contaminated with desiccant dust.

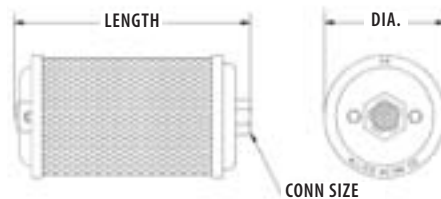
The primary stage of the Air Dryer Muffler's dual-stage filter element traps particulates, allowing cleaner air to permeate freely through the secondary stage, which manages the reduction of noise. This design also features a relief valve that is triggered to open if the air outflow becomes obstructed by a build-up of particulate, which will divert the outflow directly to atmosphere.

It is highly recommended that the air dryer system be initially purged of free desiccant fragments before installing a new Air Dryer Muffler or whenever an air dryer has been recharged with new desiccant material.

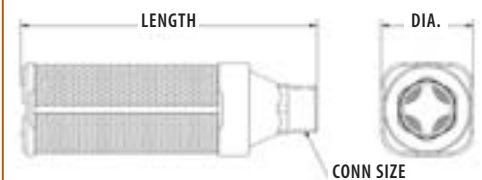
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Conn Size	Connection Thread Types						Dimensions					
	Male NPT		Female NPS		Male BSPT		Diameter	Length		Item weight	Flow SCFM	Replacement Element
	Model Type	Item Number	Model Type	Item Number	Model Type	Item Number		Male	Female			
1/8	X01	0375001	R01	0475001	X01	0325001	1.84	3.12	2.81	.25	42	0941001
1/4	X02	0375002	R02	0475002	X02	0325002	1.84	4.37	4.00	.32	80	0941002
3/8	X00	0375000	R00	0475000	X00	0325000	2.59	5.12	4.56	.68	182	0941000
1/2	X05	0375005	R05	0475005	X05	0325005	3.15	6.00	5.50	1.12	243	0941005
3/4	X07	0375007	R07	0475007	X07	0325007	3.40	7.18	6.68	1.58	517	0941007
1	X10	0375010	R10	0475010	X10	0325010	3.90	8.75	7.92	2.29	760	0941010
1-1/4	X12	0375012	R12	0475012	X12	0325012	3.90	8.75	8.00	3.54	1292	0941012
1-1/2	X15	0375015	R15	0475015	X15	0325015	5.25	13.56	12.50	4.96	1664	0941015
2	X20	0375020	R20	0475020	X20	0325020	5.25	18.87	17.75	6.61	3040	0941020
3	X30	0375030	-	-	X30	0325030	7.00	22.93	-	15.50	6840	0941030
4	X40	0375040	-	-	X40	0325040	8.00	23.56	-	19.29	13300	0941040
6	X60	0375060	-	-	X60	0325060	11.00	30.93	-	38.47	34200	0941060

For High Pressure Air Dryer Mufflers go to High Pressure Mufflers, page 9

Vacuum Pump Exhaust Muffler



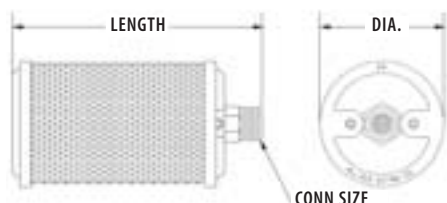
For quiet and efficient pump performance

Designed to muffle the distracting noise of vacuum pump exhausts, the Atomuffler® Vacuum Pump Exhaust Muffler is an efficient and inexpensive addition to any pump.

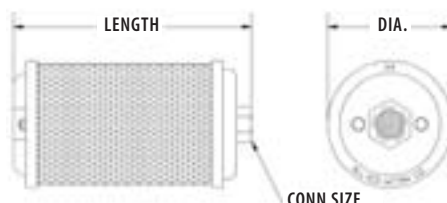
Noise reduction is achieved by an obstruction-free expansion chamber that reduces exhaust air velocity and softly disperses it throughout the muffler's large disseminator surface area without causing mechanical impedance.

The Vacuum Pump Exhaust Muffler is recommended for applications where quiet and efficient pump performance is critical, such as in suction apparatuses, vacuum frames, checks, simulation chambers, and transfer and control devices.

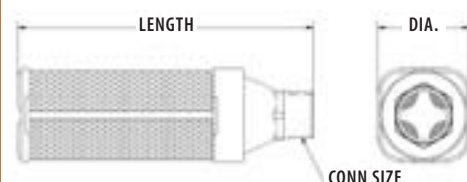
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Connection Thread Types					Dimensions					
Conn Size	Model Type	Male NPT	Female NPS	Male BSPT	Diameter	Length		Item weight	Flow SCFM	Replacement Element
		Item Number	Item Number	Item Number		Male	Female			
1/8	V01	0112001	0212001	0122001	1.84	3.12	2.81	.19	42	0911001
1/4	V02	0112002	0212002	0122002	1.84	4.37	4.00	.23	80	0911002
3/8	V00	0112000	0212000	0122000	2.59	5.12	4.56	.48	183	0911000
1/2	V05	0112005	0212005	0122005	3.15	6.00	5.50	.80	244	0911005
3/4	V07	0112007	0212007	0122007	3.40	7.18	6.68	1.06	517	0911007
1	V10	0112010	0212010	0122010	3.90	8.75	7.92	1.44	760	0911010
1-1/4	V12	0112012	0212012	0122012	3.90	8.75	8.00	1.49	1292	0911012
1-1/2	V15	0112015	0212015	0122015	5.25	13.56	12.50	3.32	1976	0911015
2	V20	0112020	0212020	0122020	5.25	18.87	17.75	4.29	3040	0911020
3	V30	0112030	-	0122030	7.00	22.93	-	13.43	6840	0911030
4	V40	0112040	-	0122040	8.00	23.56	-	14.69	13300	0911040
6	V60	0112060	-	0122060	11.00	30.93	-	29.83	34200	0911060

Filter Silencer



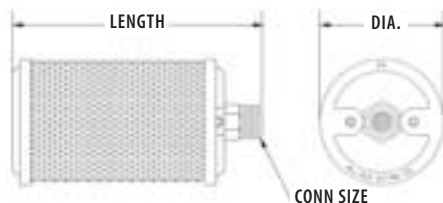
Filters out dirt particles as small as 5 micron

The Atomuffler® Filter Silencer is a highly efficient filter and an effective muffler that performs equally well at high and low velocities. Its simple design is easy to service and its durable construction lengthens service life.

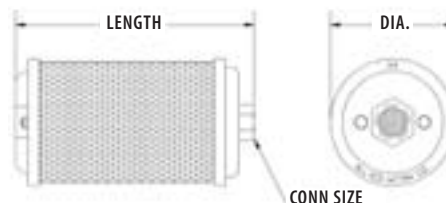
Designed for heavy-duty applications and sized for high flow rates and continuous operation, the Filter Silencer is ideal for compressor intakes, pumps, reservoir vents, gear housing breathers, and wherever it is essential for air to be free of contaminants and excess noise.

As on all Atomufflers, replacement filter elements are available.

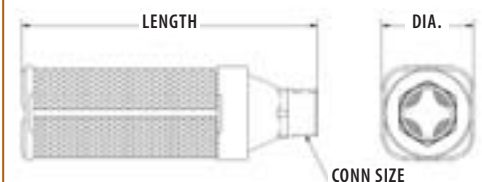
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Connection Thread Types					Dimensions				
Conn Size	Model Type	Male NPT	Female NPS	Male BSPT	Diameter	Length		Item weight	Replacement Element
		Item Number	Item Number	Item Number		Male	Female		
1/8	F01	0113001	0213001	0123001	1.84	3.12	2.81	.22	0931001
1/4	F02	0113002	0213002	0123002	1.84	4.37	4.00	.23	0931002
3/8	F00	0113000	0213000	0123000	2.59	5.12	4.56	.48	0931000
1/2	F05	0113005	0213005	0123005	3.15	6.00	5.50	.89	0931005
3/4	F07	0113007	0213007	0123007	3.40	7.18	6.68	1.19	0931007
1	F10	0113010	0213010	0123010	3.90	8.75	7.92	1.63	0931010
1-1/4	F12	0113012	0213012	0123012	3.90	8.75	8.00	1.66	0931012
1-1/2	F15	0113015	0213015	0123015	5.25	13.56	12.50	3.87	0931015
2	F20	0113020	0213020	0123020	5.25	18.87	17.75	5.19	0931020
3	F30	0113030	-	0123030	7.00	22.93	-	15.15	0931030
4	F40	0113040	-	0123040	8.00	23.56	-	16.79	0931040
6	F60	0113060	-	0123060	11.00	30.93	-	33.43	0931060

Thru-Flow Muffler



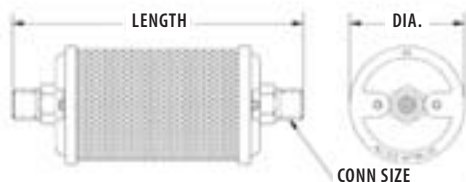
Unobstructed flow path for contaminated air

Constructed with the unique Atomuffler® expansion chamber, the Thru-Flow Muffler reduces the exhaust noise and allows contaminants to freely pass through and out the other end, to be either captured or released as desired.

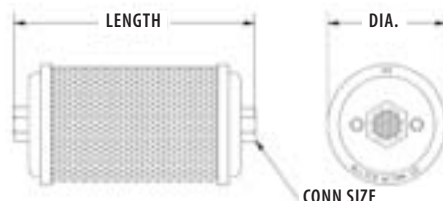
The Thru-Flow Muffler is recommended for applications where compressed air is heavily contaminated with particulates. This design can be used individually, in tandem or in a series to achieve the desired results.

Note: Sizes 3", 4" and 6" are non-returnable.

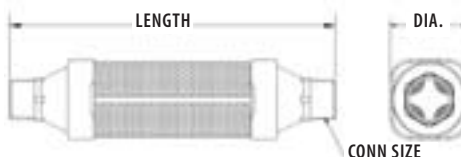
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Conn Size	Model Type	Connection Thread Types			Dimensions					
		Male NPT	Female NPS	Male BSPT	Diameter	Length		Item weight	Flow SCFM	Replacement Element
		Item Number	Item Number	Item Number		Male	Female			
1/8	T01	0319001	0419001	0329001	1.84	3.87	2.90	.20	44	0911001
1/4	T02	0319002	0419002	0329002	1.84	5.31	4.15	.26	84	0911002
3/8	T00	0319000	0419000	0329000	2.59	6.00	4.78	.52	192	0911000
1/2	T05	0319005	0419005	0329005	3.15	7.00	5.78	.85	256	0911005
3/4	T07	0319007	0419007	0329007	3.40	8.25	6.96	1.12	544	0911007
1	T10	0319010	0419010	0329010	3.90	10.31	8.34	1.52	800	0911010
1-1/4	T12	0319012	0419012	0329012	3.90	10.37	8.46	1.62	1360	0911012
1-1/2	T15	0319015	0419015	0329015	5.25	15.37	13.03	3.50	2080	0911015
2	T20	0319020	0419020	0329020	5.25	20.75	18.23	4.48	3200	0911020
3	T30	0319030	-	0329030	7.00	29.31	-	16.47	7200	0911030
4	T40	0319040	-	0329040	8.00	30.06	-	18.87	14000	0911040
6	T60	0319060	-	0329060	11.00	39.81	-	38.70	36000	0911060

High Pressure Muffler



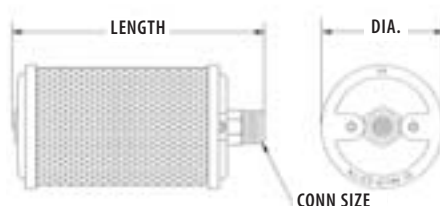
Silencing high pressure exhaust noise

The Atomuffler® High Pressure Muffler is engineered for eliminating high pressure exhaust noise. This design expands upon the features of the standard Relief Valve Muffler (see page 4) and is intended for applications in which the air exhaust exceeds 150psi (10 Bar). For special situations, features of the High Pressure Muffler can be combined with other mufflers, including the Air Dryer Mufflers and Thru-flow Mufflers.

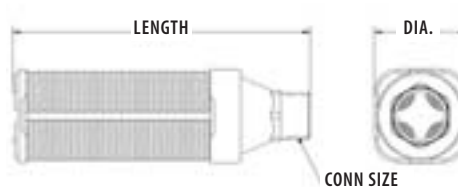
When ordering, please specify the pipe size connection and the operating air pressure.

Note: Because High Pressure Mufflers are made-to-order to meet specific customer requirements, they are non-returnable.

Single Chamber-Male



Multi-Chamber-Male



Standard High Pressure Muffler						Hi-Pressure Muffler for Air Dryers				Dimensions	
Conn Size	Model Type	Male NPT	Male BSPT	Item weight	Replace-ment Element	Male NPT	Male BSPT	Item weight	Replace-ment Element	Diameter	Length
		Item Number	Item Number			Item Number	Item Number				
1/8	P01	0316001	0326001	.22	0911001	0346001	0347001	.29	0941001	1.84	3.12
1/4	P02	0316002	0326002	.28	0911002	0346002	0347002	.39	0941002	1.84	4.37
3/8	P00	0316000	0326000	.58	0911000	0346000	0347000	.82	0941000	2.59	5.12
1/2	P05	0316005	0326005	1.00	0911005	0346005	0347005	1.36	0941005	3.15	6.00
3/4	P07	0316007	0326007	1.30	0911007	0346007	0347007	1.90	0941007	3.40	7.18
1	P10	0316010	0326010	1.93	0911010	0346010	0347010	2.74	0941010	3.90	8.75
1-1/4	P12	0316012	0326012	1.99	0911012	0346012	0347012	3.99	0941012	3.90	8.75
1-1/2	P15	0316015	0326015	4.27	0911015	0346015	0347015	6.27	0941015	5.25	13.56
2	P20	0316020	0326020	5.51	0911020	0346020	0347020	8.62	0941020	5.25	18.87
3	P30	0316030	0326030	14.86	0911030	0346030	0347030	16.56	0941030	7.00	22.93
4	P40	0316040	0326040	18.51	0911040	0346040	0347040	20.47	0941040	8.00	23.56
6	P60	0316060	0326060	37.24	0911060	0346060	0347060	41.09	0941060	11.00	30.93

Defogger Muffler

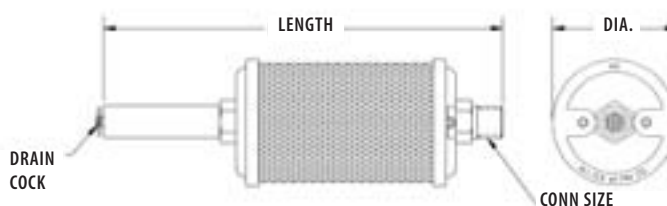


Unique sump drains out oil mist

The Atomuffler® Defogger Muffler is specifically designed to reduce pneumatic noise emanating from air-operated devices and to effectively remove oil mist. This muffler utilizes a comprehensive approach to intercept, extract and condense oil to liquid droplets, which gravitate into a sump to be drained off periodically.

The muffler's design requires that it be mounted with the drain cock pointing downwards, which can then be opened periodically to empty out the sump.

Single Chamber-Male



Single Chamber-Male							
Conn Size	Model Type	Male NPT	Dimensions		Item weight	Flow SCFM	Replacement Element
		Item Number	Diameter	Length			
1/8	L01	0313001	1.84	6.40	.26	44	0911001
1/4	L02	0313002	1.84	7.60	.30	84	0911002
3/8	L00	0313000	2.59	8.75	.60	192	0911000
1/2	L05	0313005	3.15	10.60	1.00	256	0911005
3/4	L07	0313007	3.40	14.25	1.50	544	0911007
1	L10	0313010	3.90	15.50	2.00	800	0911010
1-1/4	L12	0313012	3.90	15.50	2.00	1360	0911012
1-1/2	L15	0313015	5.25	20.40	5.10	2080	0911015
2	L20	0313020	5.25	25.30	6.50	3200	0911020

Steam Exhaust Muffler



Boiler start-ups and food processing

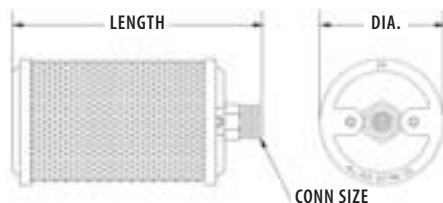
The Atomuffler® Steam Exhaust Muffler provides a lower cost alternative and effectively silences objectionable noise created by steam exhaust outlets during boiler start-ups and testing stages only.

Using readily available replacement disseminator elements, Steam Exhaust Mufflers can be completely rebuilt and ready for the next start-up or tuning job.

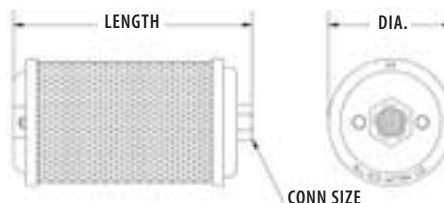
Constructed of corrosion-resistant materials, the end caps are also treated with a special epoxy coating for additional resistance to conditions where alkalis are a problem. This also makes the Steam Exhaust Muffler well-suited for low-pressure food processing and similar applications.

Note: The Steam Exhaust Muffler is not designed for permanent installation on boilers.

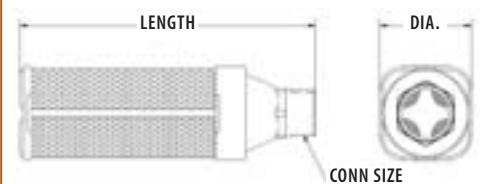
Single Chamber-Male



Single Chamber-Female



Multi-Chamber-Male



Conn Size	Connection Thread Types						Dimensions					
	Male NPT		Female NPS		Male BSPT		Diameter	Length		Item weight	Flow SCFM	Replacement Element
	Model Type	Item Number	Model Type	Item Number	Model Type	Item Number		Male	Female			
1/8	S01	0114001	Z01	0214001	S01	0124001	1.84	3.12	2.81	.22	36	0951001
1/4	S02	0114002	Z02	0214002	S02	0124002	1.84	4.37	4.00	.28	84	0951002
3/8	S00	0114000	Z00	0214000	S00	0124000	2.59	5.12	4.56	.61	152	0951000
1/2	S05	0114005	Z05	0214005	S05	0124005	3.15	6.00	5.50	.92	216	0951005
3/4	S07	0114007	Z07	0214007	S07	0124007	3.40	7.18	6.68	1.33	424	0951007
1	S10	0114010	Z10	0214010	S10	0124010	3.90	8.75	7.92	1.78	800	0951010
1-1/4	S12	0114012	Z12	0214012	S12	0124012	3.90	8.75	8.00	2.99	1200	0951012
1-1/2	S15	0114015	Z15	0214015	S15	0124015	5.25	13.56	12.50	3.96	1920	0951015
2	S20	0114020	Z20	0214020	S20	0124020	5.25	18.87	17.75	5.32	2960	0951020
3	S30	0114030	-	-	S30	0124030	7.00	22.93	-	14.07	6640	0951030
4	S40	0114040	-	-	S40	0124040	8.00	23.56	-	15.48	14400	0951040
6	S60	0114060	-	-	S60	0124060	11.00	30.93	-	31.06	34400	0951060

Damper Muffler



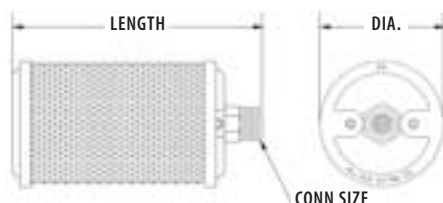
Easily handles dirt and moisture-laden air

Featuring the same outstanding design as the industry-standard Atomuffler®, the Damper Muffler includes an added variable reactive damper that provides an unobstructed free-flow air passage to reduce noise caused by emanating raw exhaust air.

This unique design utilizes a proven reactive principle of noise suppression. The explosive force of exhaust air impacting against the damper thrusts it into an oscillating motion, converting dynamic acoustic energy into kinetic energy. The damper's responsive pulsating motion drains off kinetic energy hence dissipating acoustical energy.

Some applications include foundry equipment and railway and transit brake systems.

Single Chamber-Male



Connection Thread Types				Dimensions				
Conn Size	Model Type	Male NPT	Male BSPT	Diameter	Length	Item weight	Flow SCFM	Replacement Element
		Item Number	Item Number					
1/8	D01	0374001	0324001	1.84	3.12	.19	44	0911001
1/4	D02	0374002	0324002	1.84	4.37	.23	84	0911002
3/8	D00	0374000	0324000	2.59	5.12	.48	192	0911000
1/2	D05	0374005	0324005	3.15	6.00	.80	256	0911005
3/4	D07	0374007	0324007	3.40	7.18	1.06	544	0911007
1	D10	0374010	0324010	3.90	8.75	1.44	800	0911010
1-1/4	D12	0374012	0324012	3.90	8.75	1.49	1360	0911012
1-1/2	D15	0374015	0324015	5.25	13.56	3.30	2080	0911015
2	D20	0374020	0324020	5.25	18.87	4.05	3200	0911020



For Special Applications

ATOMUFFLER / NPT / ANTI-ICING
Anti-Icing - Rapid Cycling Service
Male Model M01-M60
Sizes 1/8" - 6" NPT Conn.
Item No's: 0393001 - 0393060

ATOMUFFLER / NPT / SOFT FLOW
Ultra Quiet Muffling Service
Male Model K01-K20
Sizes 1/8" - 2" NPT Conn.
Item No's: 0330001 - 0330020
Also Available: Female NPS ...
Item No's: 0430001-0430020

ATOMUFFLER / NPT / SPEED CONTROL
Muffled Flow-Control Service
Male Model C01-C02
Sizes 1/8" - 1/4" NPT Conn.
Male NPT Item No's: 0315001 - 0315002
Also Available: Male BSPT ...
Item No's: 0321001 - 0321002

ATOMUFFLER / BSPT / HI-TEMP
Metalic Element Hi-Temp Service
Male Model B05-B60
Sizes 1/2" - 6" BSPT Conn.
Item No's: 0369005 - 0369060
Also Available: Male NPT ...
Item No's: 0370005-0370060

ATOMUFFLER / NPT / HEAVY DUTY
Continuous Heavy Service
Male Model M01-M60
Sizes 1/8" - 6" NPT Conn.
Item No's: 0309001 - 0309060
Also Available: Male BSPT ...
Item No's: 0320001-0320060

ATOMUFFLER / BSPT /
CORROSIVE SERVICE - LIGHT
Stainless Steel & Cellulose Fiber Element
Male Model B01-B60
Sizes 1/8" - 6" BSPT Conn.
Item No's: 0368001 - 0368060
Also Available: Male NPT ...
Item No's: 0381001-0381060

ATOMUFFLER / NPT /
CORROSIVE SERVICE - MEDIUM
Stainless Steel Components plus
SS & CF Element
Male Model M01-M60
Sizes 1/8" - 6" NPT Conn.
Item No's: 0385001 - 0385060
Also Available: Male BSPT ...
Item No's: 0395001-0395060

ATOMUFFLER / NPT /
CORROSIVE SERVICE - HEAVY
Epoxy-coat Ends plus SSC plus
SS & CF Element
Male Model M01-M60
Sizes 1/8" - 6" NPT Conn.
Item No's: 0383001 - 0383060

ATOMUFFLER / NPT /
CORROSIVE SERVICE - HEAVIER
All Stainless Steel plus SS & CF Element
Male Model M01-M20
Sizes 1/8" - 2" NPT Conn.
Item No's: 0310001 - 0310020

ATOMUFFLER / NPT /
CORROSIVE SERVICE - VERY HEAVY
Completely Stainless Steel
Male Model M05-M20
Sizes 1/2" - 2" NPT Conn.
Item No's: 0311005 - 0311020

Bantam™ Muffler

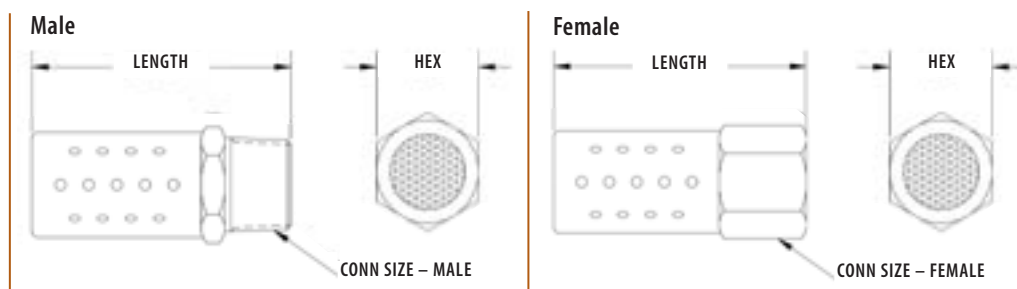


Ideal for use where space is limited

Tough and compact, the Bantam™ Muffler is durably constructed of corrosion-resistant metals to withstand shock and continuous heavy duty use under all types of conditions.

The Bantam Muffler is designed with a precise distribution of peripheral openings in a zinc-plated steel and brass acoustical element, which softly disperses exhaust air uniformly over a 360° pattern. All stainless steel construction is also available for very corrosive or sensitive situations.

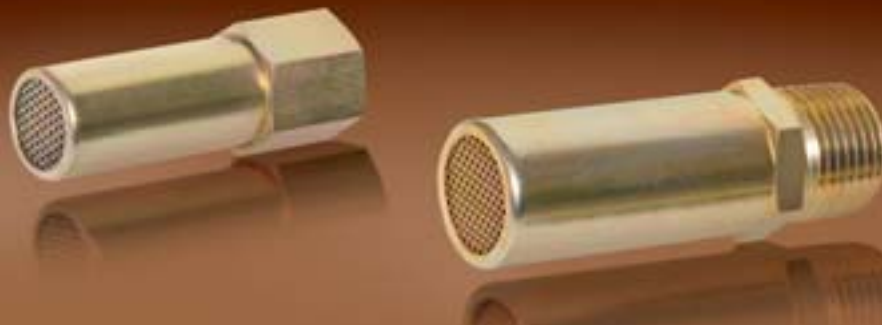
Supplied with a standard pipe thread fitting, the Bantam Muffler can be attached directly to the exhaust ports of air-operated equipment.



Standard Construction				All Stainless Steel				
Conn Size	Model Type	Male NPT	Male BSPT	Male NPT	Dimensions		Item weight	Flow SCFM
		Item Number	Item Number	Item Number	Hex	Length		
1/8	B18	0154018	0554018	0503018	.43	1.37	.02	44
1/4	B28	0154028	0554028	0503028	.56	1.75	.05	96
3/8	B38	0154038	0554038	0503038	.69	2.20	.08	200
1/2	B48	0154048	0554048	0503048	.87	2.75	.15	304
3/4	B68	0154068	0554068	0503068	1.06	3.15	.27	560
1	B88	0154088	0554088	0503088	1.31	3.87	.46	800
1-1/4	B108	0154108	0554108	-	1.68	4.50	.82	1120
1-1/2	B128	0154128	0554128	-	2.00	5.00	1.04	1440
2	B168	0154168	0554168	-	2.37	5.50	1.72	2240

Female - Standard Construction						
Conn Size	Model Type	Female NPS	Dimensions		Item weight	Flow SCFM
		Item Number	Hex	Length		
1/8	B18	0254018	.56	1.75	.06	44
1/4	B28	0254028	.69	2.20	.10	96
3/8	B38	0254038	.87	2.75	.18	200
1/2	B48	0254048	1.06	3.15	.30	304

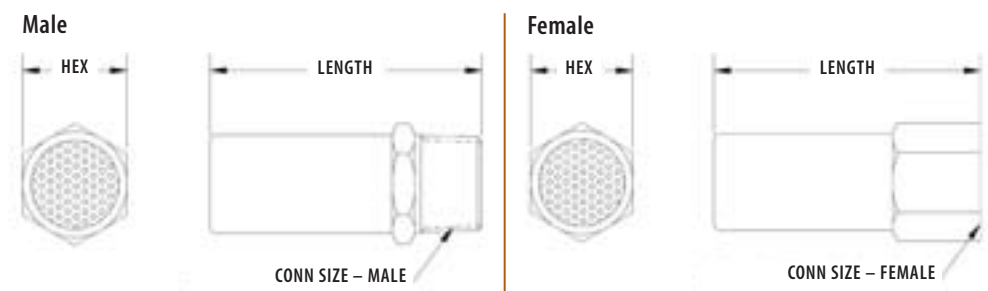
End Flow Muffler



Directional flow in a compact design

The End Flow Muffler is specifically designed for use in situations where it is desirable to direct the flow of exhaust air in a single direction. Discharged axially, the exhaust air flows freely through a unique honey-combed end cap that disperses the air blast and dampens exhaust noise.

Constructed of zinc-plated steel, this model is lightweight and small for use in any location.



Standard Construction				All Stainless Steel				
Conn Size	Model Type	Male NPT	Male BSPT	Male NPT	Dimensions		Item weight	Flow SCFM
		Item Number	Item Number	Item Number	Hex	Length		
1/8	D18	0153018	0551018	0507018	.43	1.37	.02	44
1/4	D28	0153028	0551028	0507028	.56	1.75	.04	72
3/8	D38	0153038	0551038	0507038	.69	2.20	.06	136
1/2	D48	0153048	0551048	0507048	.87	2.75	.11	216
3/4	D68	0153068	0551068	0507068	1.06	3.15	.21	400
1	D88	0153088	0551088	0507088	1.31	3.87	.36	560
1-1/4	D108	0153108	-	-	1.68	4.50	.62	800
1-1/2	D128	0153128	-	-	2.00	5.00	.78	880
2	D168	0153168	-	-	2.37	5.50	1.29	1760

Female - Standard Construction						
Conn Size	Model Type	Female NPS	Dimensions		Item weight	Flow SCFM
		Item Number	Hex	Length		
1/8	D18	0253018	.43	1.37	.02	44
1/4	D28	0253028	.56	1.75	.04	72
3/8	D38	0253038	.69	2.20	.06	136
1/2	D48	0253048	.87	2.75	.14	216

Air Ejector Muffler

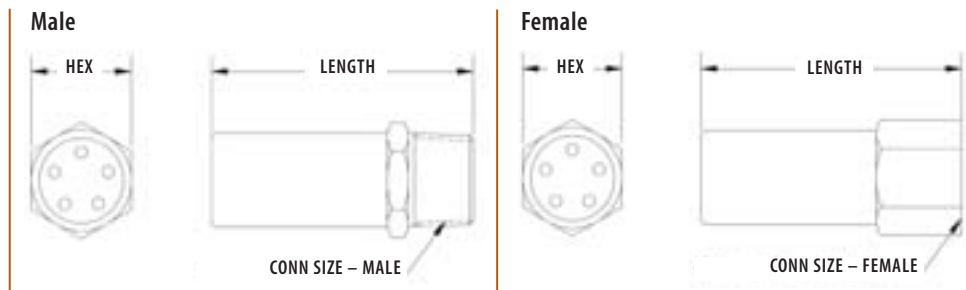


Featuring collimator inserts for concentrated air flow

Quickly and easily connected to any compressed air source, the Air Ejector Muffler concentrates the air stream in a narrow beam over a longer distance, delivering maximum force at the exact required point.

The Air Ejector Muffler is supplied as a complete unit with a cylindrical housing and can be directly attached to compressed air lines properly positioned for parts ejection or packaging requirements, among other uses. Ordinarily furnished with a standard plastic collimator insert, this model also can be supplied, when specified, with a special heat-resistant metal collimator insert for use in locations where extremely high ambient temperatures may be present.

Separate collimator inserts also are available as a low cost solution for applications where it is necessary to bore holes directly into a die and insert the collimator to provide exact air thrust.



Male-Standard Construction							
Conn Size	Model Type	Male NPT	Male BSPT	Dimensions		Item weight	Flow SCFM
		Item Number	Item Number	Hex	Length		
1/8	A18	0152018	0552018	.43	1.37	.02	22
1/4	A28	0152028	0552028	.56	1.75	.04	34
3/8	A38	0152038	0552038	.69	2.20	.06	45
1/2	A48	0152048	0552048	.87	2.75	.11	68
3/4	A68	0152068	0552068	1.06	3.15	.21	75
1	A88	0152088	0552088	1.31	3.87	.36	101

Female-Standard Construction						
Conn Size	Model Type	Female NPS	Dimensions		Item weight	Flow SCFM
		Item Number	Hex	Length		
1/8	A18	0252018	.43	1.37	.02	22
1/4	A28	0252028	.56	1.75	.04	34
3/8	A38	0252038	.69	2.20	.06	45
1/2	A48	0252048	.87	2.75	.14	68

Porous Adjust-A-Flow Muffler



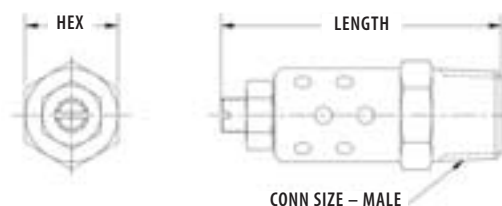
Adjustable valve controls airflow and vacuum relief

Allied Witan Company's Adjust-A-Flow Muffler is used to effectively eliminate noise and control the flow of pressurized air.

This design includes an adjustable tapered metering valve that provides needle-point control of air flow on pressure applications as well as for vacuum relief on vacuum systems. Using an external adjustment screw, air flow is precisely metered between fully closed and fully open. A locknut allows the desired setting to be locked in to prevent accidental changes.

Constructed with a sintered bronze sleeve housed in a plated steel jacket, the Adjust-A-Flow Muffler offers superior noise reduction and maximum durability.

Male



Male 40 Micron Porous Bronze Element with Steel Casing							
Conn Size	Model Type	NPT	BSPT	Dimensions		Item weight	Flow SCFM
		Item Number	Item Number	Hex	Length		
10-32	C08	0156008*	-	.37	1.08	.01	8
1/8	C18	0156018	0559018	.43	1.34	.04	30
1/4	C28	0156028	0559028	.56	1.65	.07	51
3/8	C38	0156038	0559038	.69	2.08	.14	70
1/2	C48	0156048	0559048	.87	2.51	.25	100
3/4	C68	0156068	0559068	1.06	2.81	.42	130
1	C88	0156088	0559088	1.31	3.41	.66	160

* This item does not have a steel casing.

Porous Metal Filter-Muffler

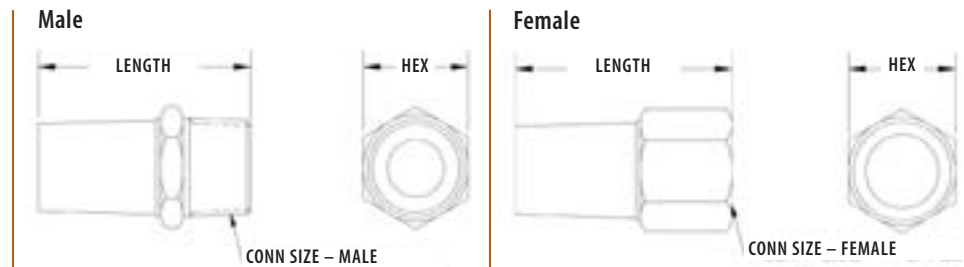


Economical choice for many filtering and muffling scenarios

The Porous Metal Filter-Muffler reduces exhaust noise and is designed for selective permeability with optimum filtering and diffusion for air and other gases and liquids.

A tough cellular porous metal filter is secured to a steel ferrule, providing a desirable combination of strength and performance.

This model is effective for many purposes, including: muffling air valve noise; exhaust and intake filtering; cryogenic phase separation; coalescing of oil mist and water vapor; and pressure or vacuum equalization. It's also compact, inexpensive and easy to install and maintain. The Porous Metal Filter-Muffler is particularly suitable for use where space is limited.



For Special Applications

Male Model P08 - P168
Sizes 10-32, 1/8" - 2" NPT Conn.

• **FILT-MUFF / NPT / 10 µm**
10 Micron Porous Bronze Element
Item No's: 0525008 - 0525168

• **FILT-MUFF / NPT / 20 µm**
20 Micron Porous Bronze Element
Item No's: 0526008 - 0526168

• **FILT-MUFF / NPT / 90 µm**
90 Micron Porous Bronze Element
Item No's: 0570018 - 0570168

FILT-MUFF / NPT / BRASS FITTING
40 Micron Porous Bronze Element
Male Model P08 - P48
Sizes 10-32, 1/8" - 1/2" NPT Conn.
Item No's: 0555008 - 0555048

FILT-MUFF / NPT / ALL STAINLESS STEEL
50 Micron Porous SS Element
Male Model P18 - P88
Sizes 1/8" - 1" NPT Conn.
Item No's: 0579018 - 0579088

Male 40 Micron - Porous Bronze Element

Conn Size	Model Type	NPT	BSPT	Dimensions		Item weight	Flow SCFM
		Item Number	Item Number	Hex	Length		
10-32	P08	0155008*	-	.37	.79	.01	12
1/16	P16	0155016	-	.37	.79	.01	24
1/8	P18	0155018	0556018	.43	.89	.02	48
1/4	P28	0155028	0556028	.56	1.28	.04	64
3/8	P38	0155038	0556038	.69	1.52	.06	160
1/2	P48	0155048	0556048	.87	1.98	.11	240
3/4	P68	0155068	0556068	1.06	2.28	.16	400
1	P88	0155088	0556088	1.31	2.96	.31	560
1-1/4	P108	0155108+	0556108+	1.68	3.36	.55	640
1-1/2	P128	0155128+	0556128+	2.00	4.00	.81	1200
2	P168	0155168+	0556168+	2.37	4.70	1.33	2000

Also Available: 10, 20, and 90 Micron in BSPT thread *This size with Brass Fitting + These sizes are 90 Micron

Female 40 Micron - Porous Bronze Element

Conn Size	Model Type	NPS	Dimensions		Item weight	Flow SCFM
		Item Number	Hex	Length		
1/8	P18	0255018	.56	1.25	.04	48
1/4	P28	0255028	.69	1.45	.07	64
3/8	P38	0255038	.87	1.89	.13	160
1/2	P48	0255048	1.06	2.12	.20	240

Also Available: 10, 20, and 90 Micron in NPS thread

Porous Metal Breather-Vent-Filters

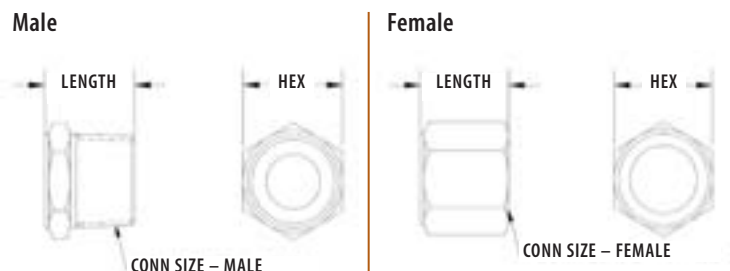


Tough, inexpensive and low-profile

Using the standard male pipe thread version, Allied Witan Company's Breather-Vent-Filter can be inserted with little protrusion as a flat, integral part of equipment. This model is a suitable alternative to spaces that are too small to accommodate the standard Porous Metal Filter-Muffler (see page 18).

With its very low profile, the Metal Breather-Vent-Filter is a compact unit most often used as a breather vent filter for cylinders, gear boxes, crank cases, storage cases, storage tanks, and other vessels – wherever pressure equalization is required.

In addition to the standard model, an innovative modification is available using a highly porous screen media to allow for unrestricted flow while limiting infiltration of unwanted objects.



Male 90 Micron - Porous Bronze Disc							
Conn Size	Model Type	NPT	BSPT	Dimensions		Item weight	Flow SCFM
		Item Number	Item Number	Hex	Length		
10-32	F08	0157008*	-	.37	.37	.01	6
1/16	F16	0157016+	-	.37	.37	.01	12
1/8	F18	0157018	0558018	.43	.40	.01	24
1/4	F28	0157028	0558028	.56	.68	.02	32
3/8	F38	0157038	0558038	.69	.79	.04	80
1/2	F48	0157048	0558048	.87	.97	.07	120
3/4	F68	0157068	0558068	1.06	1.06	.10	200
1	F88	0157088	0558088	1.31	1.34	.19	280
1-1/4	F108	0157108	0558108	1.68	1.40	.33	320
1-1/2	F128	0157128	0558128	2.00	1.47	.45	600
2	F168	0157168	0558168	2.37	1.60	.72	1000

Also Available: 10 and 20 Micron in BSPT thread * This item is 40 Micron with Brass Fitting + This item is 40 Micron

Female 90 Micron - Porous Bronze Disc						
Conn Size	Model Type	NPS	Dimensions		Item weight	Flow SCFM
		Item Number	Hex	Length		
1/8	F18	0257018	.56	.64	.03	24
1/4	F28	0257028	.69	.76	.05	32
3/8	F38	0257038	.87	.94	.09	80
1/2	F48	0257048	1.06	.99	.14	120

Also Available: 10 and 20 Micron in NPS thread

For Special Applications

Male Model F18 - F168
Sizes 1/8" - 2" NPT Conn.

• **B-V-F / NPT / 10 µm**
10 Micron Porous Bronze Disc
Item No's: 0527018 - 0527168

• **B-V-F / NPT / 20 µm**
20 Micron Porous Bronze Disc
Item No's: 0528018 - 0528168

B-V-F / NPT / BRASS FITTING
90 Micron Porous Bronze Disc
Male Model F08 - F48
Sizes 10-32, 1/8" - 1/2" NPT Conn.
Item No's: 0557008 - 0557048

B-V-F / NPT / ALL STAINLESS STEEL
100 Micron Porous SS Disc
Male Model F18 - F88
Sizes 1/8" - 1" NPT Conn.
Item No's: 0504018 - 0504088

FILTER / NPT / SINGLE SCREEN
Strainer Very Hi-Flow Service
Male Model F18 - F88
Sizes 1/8" - 1" NPT Conn
Item No's: 0506018 - 0506088

FILTER / NPT / MULTI SCREEN
Strainer Hi-Flow Service
Male Model F18 - F168
Sizes 1/8" - 2" NPT Conn.
Item No's: 0509018 - 0509168

Micro Miniature Muffler/ M64 Mini-Muff



MICRO MINIATURE MUFFLER



M64 MINI-MUFF

Micro Miniature Muffler

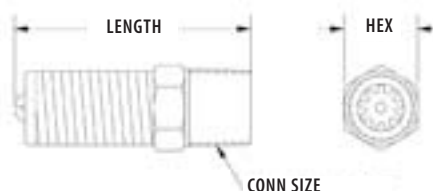
Adjustable control for logic applications

Allied Witan Company's Micro Miniature Muffler is designed specifically for low air volume use on pneumatic logic applications such as control, pilot, limit, zone, and relay valves. The muffler's compact size allows installation in extremely tight quarters.

Attached directly to exhaust ports, noise reduction is accomplished by dispersing the exhaust air radially, minimizing sound intensity with negligible flow impedance. The Micro Miniature Muffler also can be used as a speed control to meter exhaust air flow.

Male Zinc-plated Steel Construction						
Conn Size	Model Type	NPT	Dimensions		Item weight	Flow SCFM
		Item Number	Hex	Length		
1/8	M18	0151018	.43	1.06	.03	32
1/4	M28	0151028	.56	1.59	.07	48

Male



M64 Mini-Muff

High flow in a compact package

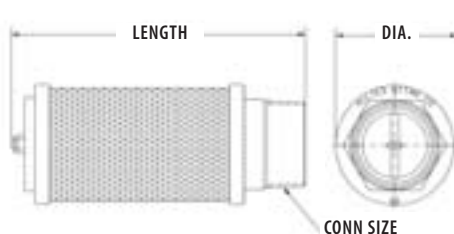
The M64 Mini-Muff combines the serviceability of our Atomuffler® products with the compact size and durability of our all-metal Bantam™ mufflers.

Constructed entirely of corrosion-resistant metals, the standard M64 Mini-Muff allows for higher temperature operating conditions. Back pressure is kept at a minimum thanks to a large unobstructed inlet and exhaust surface area. All stainless steel construction is also available for very corrosive or sensitive situations.

This model has a 2" pipe thread and is easily attached directly to the exhaust ports of air-operated equipment.

M64 Mini-Muff						
Conn Size	Model Type	Item Number	Dimensions		Item weight	Flow SCFM
			Diameter	Length		
2" BSPT	M64	0300021	3.31	7.71	1.85	4000
2" NPT	M64	0300073	3.31	7.71	1.85	4000

Male





Noise Information

For more than 60 years, Allied Witan Company's Atomuffler® has been setting industry standards in sound control applications all over the world. The Atomuffler is specified in a wide range of industrial applications where efficiency, dependability and performance are critical. In addition to having superior sound silencing properties, the Atomuffler is valuable for being an air diffuser that is unsurpassed in the muffler field. Air diffusion positively prevents troublesome air flow and dangerous after-blasts.

The Atomuffler's unique system is a proven approach to sound control and easy to install and use. It is widely recommended by leading noise consultants and safety engineers throughout the world.

When you specify the Atomuffler, you can be confident you're getting the ultimate in noise reduction, advanced muffler design, exceptional service and value.

How much noise is too much?

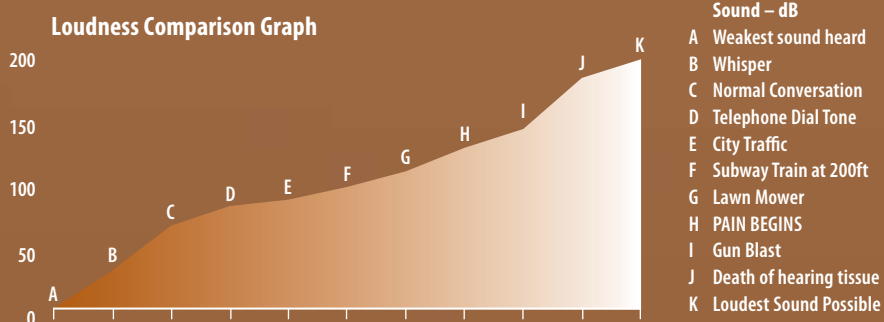
- Noise levels in the upper 70 decibel (dB) range are annoying to some people.
- Exposure to levels above 80 dB for 8 hours can possibly cause damage, while damage is likely when exposed to levels above 90 dB for the same amount of time.
- When levels are above 100 dB for 8 hours, serious damage is possible.
- 120 dB is considered the human threshold for pain, and eardrum rupture can occur at 150 db.

Damage caused by noise goes beyond just hearing loss. Recent studies have shown that increased exposure to high levels of noise can cause stress, hypertension, and even cardiovascular problems.

Tests performed on air exhausts not equipped and equipped with the Atomuffler showed that noise levels can drop from 97-121 dB without a muffler down to 81-84 dB with the Atomuffler. That's a decrease of up to 37 dB. On average, noise levels were reduced 17-25 dB. However, every application is different and there is no way of predicting exact results.

To put everything in perspective:

- 3 dB reduction cuts sound energy in half
- 10 dB reduction decreases sound energy by a factor of 10
- 20 dB reduction decreases sound energy by a factor of 100





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