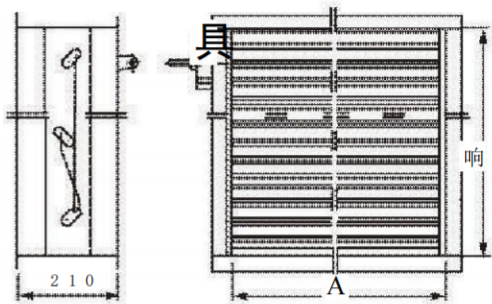


Air Volume Control Valve

T308-1 密闭式对开多叶风量调节阀

Application: split multi-leaf air volume control valve, generally used in air conditioning and ventilation system pipes to adjust the air volume of branch pipes, and can also be used for mixed adjustment of fresh air and return air. The valve is divided into two types: manual and electric. The electricity can automatically control and adjust the air volume and is matched with the automatic control system.

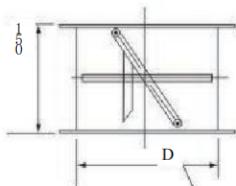


T308-1 调节阀规格尺寸

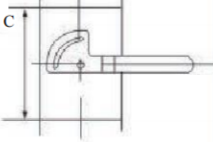
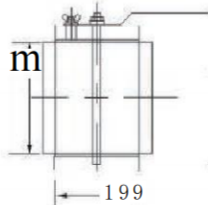
风道序号	水平尺寸×垂直尺寸 A×B	法兰尺寸	风道序号	水平尺寸×垂直尺寸 A×B	法兰尺寸
	320×150		2 3	1000×500	
	320×200		2 4	1250×500	4 0
	320×250		2 5	1600×500	
1	160×320		2 6	250×630	
3	200×320		2 7	630×630	3 0
4	250×320		2 8	800×630	
5	320×320		2 9	1000×630	
6	400×320		3 0	1250×630	4 0
7	500×320		3 1	1600×630	
8	630×320	3 0	3 2	800×800	3 0
9	800×320		3 3	1000×800	
1 0	200×400		3 4	1250×800	4 0
1 1	250×400		3 5	1600×800	
1 2	400×400		3 6	2000×800	5 0
1 3	500×400		3 7	1000×1000	
1 4	630×400		3 8	1250×1000	4 0
1 5	800×400		3 9	1600×1000	
1 6	1000×320		4 0	1600×1250	
1 7	1000×400	3 0	4 1	2000×1000	5 0
1 8	1250×400		4 2	2000×1500	
1 9	200×500				
2 0	250×500				
2 1	500×500	3 0			
2 2	630×500				
	800×500				

T302-1~9 钢制蝶阀

Applicable: T302-1~9 garden-shaped, square, rectangular steel butterfly valves generally adjust air volume in the branch line of air-conditioning pipelines. There are two ways of use: handle type and zipper type.



T302-1

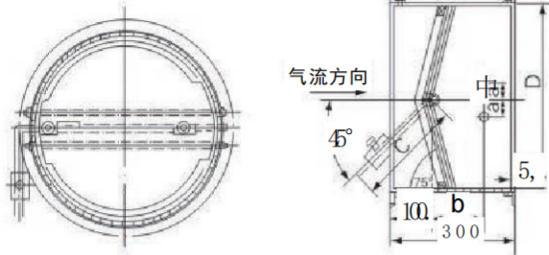


T302-9



Duct check valve /
Residual pressure valve

T303-1 圆形风管止回阀



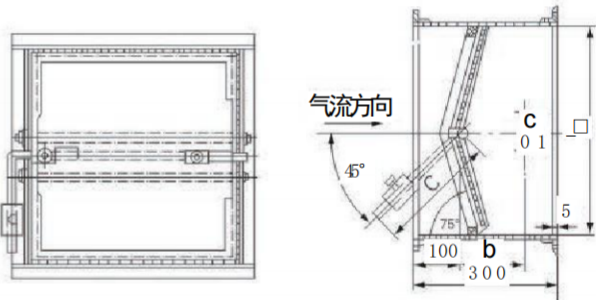
- 1. The purpose of this valve device is to prevent gas backflow when the fan stops.
- 2. This valve device's scope requires the air duct's wind speed be at least 8 m/s.
- 3. The installation method in this picture is horizontal, and the vertical installation does not need a heavy hammer. When ordering.

应注明安装方式。

T303-1 圆形风管止回阀规格尺寸

尺 寸 表													
型 号	1	2	3	4	5	6	7	8	9	10	11	12	13
D	220	250	280	320	360	400	450	500	560	630	700	800	900
a	10	10	10	10	10	15	15	15	15	15	15	15	15
b	60	80	100	100	110	130	150	150	150	150	150	150	150
c	110	130	150	160	180	200	230	250	285	315	350	400	455
l	50	50	50	50	50	50	50	50	60	60	60	60	60

T303-2 方形风管止回阀



T303-2 方形风管止回阀规格尺寸

尺 寸 表							
型 号	1	2	3	4	5	6	7
D	200	250	320	400	500	630	800
a	10	10	10	15	15	15	15
b	60	80	120	120	150	150	150
C	100	130	170	200	250	320	400

注

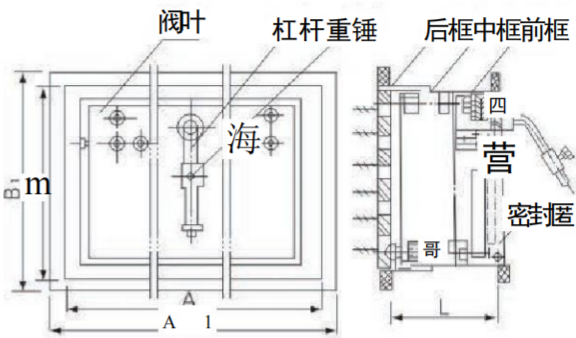
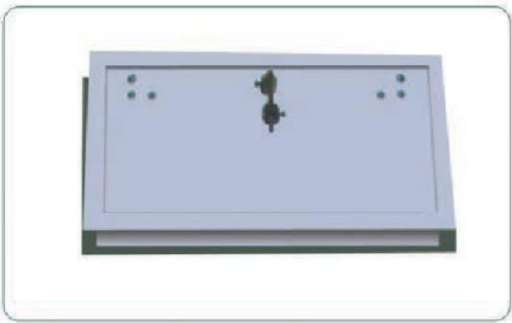
- 1. The purpose of this valve device is to prevent gas backflow when the fan stops.
- 2. This valve device's scope requires the air duct's wind speed to be at least 8 m/s.
- 3. The installation method in this picture is horizontal, and the vertical installation does not need a heavy hammer. When ordering.

应注明安装方式。

YA型余压阀

To meet the urgent needs of ventilation and air conditioning projects in our country and realize the energy-free automatic control of positive pressure in air-conditioned rooms, the residual pressure valve designed by the Eleventh Design and Research Institute of the Ministry of Electronics Industry according to similar foreign products, developed and produced by our factory is filled. The blank of the project of automatic control of positive pressure in the room was filled. The product has the advantages of tight closing, sensitive response, convenient adjustment, beautiful appearance, and no energy consumption.

Residual Pressure Valve /
Muffler Series



Specifications and dimensions of YA-type residual pressure valve:

型号	规格	A	A1	B	B1	C	可调范围
YA-1	400×150	450	465	252	260	50~130	
YA-2	600×150	650	665	252	260	50~130	
YA-3	800×170	850	865	272	280	50~130	

The exhaust air volume of the residual pressure valve (m3/h):

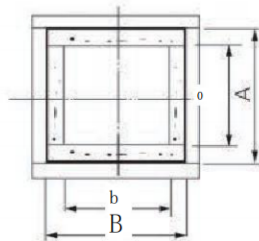
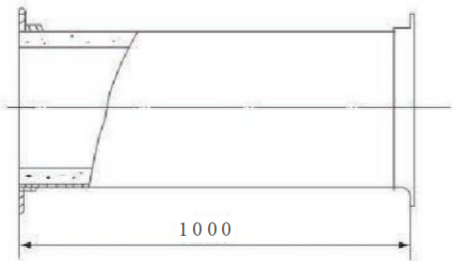
型号	规格	0.5 mmH ₂ O	1 mmH ₂ O	1.5 mmH ₂ O	2 mmH ₂ O	2.5 mmH ₂ O	3 mmH ₂ O
YA-1	400×150	115	270	410	480	560	600
YA-2	600×150	125	350	520	680	830	900
YA-3	800×170	140	650	950	1100	1280	1360

The principle, form, characteristics and application of the muffler:

原 理	主要形式	消声频带	主要用途
阻 性	管式、片式、蜂窝式、折板式、小零式、声流式、弯头式	中高频	空调通风系统及以中高频噪声为主的各类空气动力设备噪声
抗 性	Resonant type; Swelling type, expansion type; Microporous type.	低 频 低中频 宽频带	The noise of various aerodynamic equipment, such as air compressors and diesel engines with low and intermediate frequency noise
复合式	阻抗复合式	宽频带	空调与通风系统噪声
变 频	small hole injection	宽频带	exhaust venting noise

Resistive muffler:

The resistive muffler uses porous sound-absorbing materials laid in the airflow channel to absorb sound energy and reduce noise to play a role in noise reduction.



Muffler Series

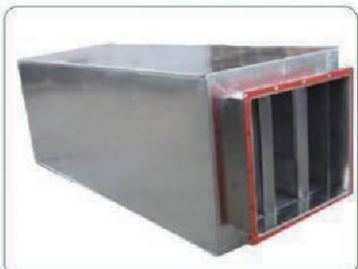
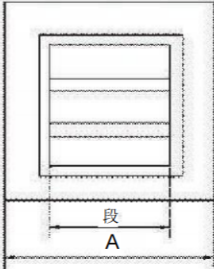
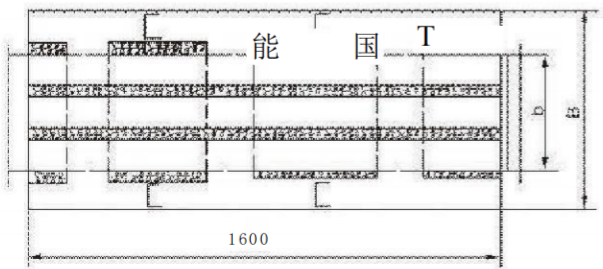
Specifications, dimensions and noise reduction of three kinds of resistive tube mufflers:

型号名称	规格	重量 (KG)	尺寸 (mm)				低频阻声器 (dB)						
			A	B	a	b	100	200	400	800	1600	3150	6300
T701-2矿棉管 式消声器系列	1	33	320	320	200	200	8	15	21	23	26	27	18
	2	39	320	420	200	300	6	13	17	19	22	15	7
	3	45	320	520	200	400	6	11	16	18	20	13	7
	4	39	370	370	250	350	6	12	17	18	21	14	7
	5	47	370	495	250	450	5	10	14	16	18	12	6
	6	54	370	620	250	550	5	9	13	14	16	11	5
	7	45	420	420	300	400	5	10	14	16	18	12	9
	8	54	420	520	300	500	4	8	12	13	15	10	5
	9	63	420	720	300	600	4	8	10	12	13	9	4
T701-3聚氨酯 泡沫塑料管式 消声器系列	1	17	300	300	200	200	8	11	26	9	24	28	18
	2	20	300	400	200	300	8	10	22	16	20	14	7
	3	23	300	500	200	400	8	8	19	14	18	12	6
	4	20	350	350	250	250	7	9	21	15	19	13	9
	5	23	350	475	250	375	7	7	17	12	16	11	5
	6	27	350	600	250	500	7	7	16	11	15	10	5
	7	23	400	400	300	300	7	7	17	12	16	11	5
	8	27	400	550	300	450	6	6	14	10	13	9	4
	8	31	400	700	300	600	6	5	13	9	12	8	4
T701-4卡普隆 纤维管式 消声器系列	1	28	360	360	200	200	8	18	30	30	27	19	12
	2	33	360	460	200	300	6	13	25	25	22	13	7
	3	28	360	560	200	400	6	13	23	23	20	13	7
	4	33	410	410	250	250	6	14	24	24	21	14	7
	5	39	410	535	250	375	5	12	20	20	18	12	6
	6	45	410	660	250	500	5	11	18	18	16	11	5
	7	38	460	460	300	300	5	12	20	20	18	12	6
	8	45	460	610	300	450	4	10	17	17	15	10	5
	9	32	460	760	300	600	4	9	15	15	14	9	4

Impedance compound muffler T701-6:

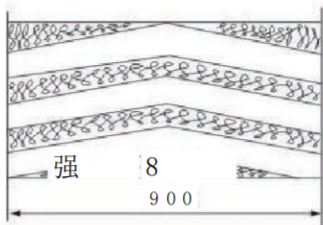
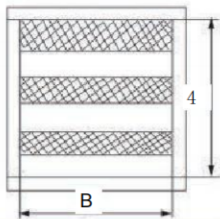
It is a wide-frequency muffler that is widely used. It is used in the air conditioning system to reduce the noise of medium and low-pressure fans. Utilizing the sudden change in the cross-section of the pipe in the muffler and the expansion chamber of the inner and outer sections, it can effectively eliminate noise for low frequencies and some intermediate frequencies. At the same time, the resistive sound-absorbing sheet has a good noise-reduction effect for medium and high frequencies. To enhance the noise reduction effect, it can also be connected in series with multiple noise reduction sections. The wind speed is generally 6-8 m/s.

Impedance compound muffler selection table												
消声器 型号	长度 (mm)	外形尺寸 (mm)	外表断 面(m2)	法兰断 面(mm)	有效面 积(mm2)	膨胀比 (M)	有效截 频(MZ)	适用风量 (m3/h)				
								风量6m/s	风量8m/s	风量10m/s	风量12m/s	
1	1600	800×500	0.40	520×230	0.099	4.26	596	2000	2660	3330	4000	
2	1600	800×600	0.48	510×270	0.139	3.91	507	3000	4000	5000	6000	
3	1600	1000×600	0.60	700×370	0.186	3.17	480	4000	5330	6670	8000	
4	1600	1000×800	0.80	770×400	0.231	3.46	420	5000	6660	8320	10000	
5	900	1200×800	0.96	700×550	0.278	3.43	380	6000	8000	10000	12000	
6	900	1200×1000	1.20	780×630	0.372	3.20	339	8000	10660	13340	16000	
7	900	1500×1000	1.50	1000×630	0.463	3.29	430	10000	13320	16640	20000	
8	900	1500×1400	2.10	1000×970	0.693	3.07	513	15000	20000	25000	30000	
9	900	1800×1400	2.52	1330×970	0.928	2.73	470	20000	26700	33400	40000	
10	900	2000×1800	3.60	1500×1310	1.390	2.59	393	30000	40000	50000	60000	



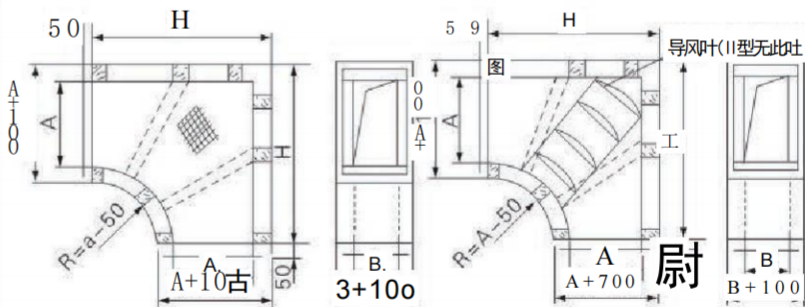
Muffler Series

Folded plate resistive muffler



	消声器内气 流速度m/s	流经消声器的 阻力损失(Pa)	下列频率(HZ)下的消声器(dB)					
			125	250	500	1000	2000	4000
900(一节)	7-8	37.2	7.0	14.0	18.0	19.5	24.0	25.5
	5-6	9.8	7.0	14.3	20.0	20.7	25.5	26.3
	3-4	3.9	7.5	14.5	22.0	21.7	27.0	28.0
1800(二节)	7-8	51.6	11.0	22.3	31.0	32.2	39.7	40.9
	5-6	25.5	12.6	25.5	35.4	36.8	45.3	46.8
	3-4	13.7	13.4	27.0	37.6	39.1	48.2	49.7
2700(二节)	7-8	68.7	13.2	26.8	37.2	38.6	47.6	49.1
	5-6	31.4	15.9	32.2	44.7	46.5	57.2	59.1
	3-4	18.6	17.2	34.9	48.4	50.4	62.1	64.0

Noise-absorbing elbow (ultra-fine slope glass wool): This noise-absorbing elbow adopts an outer corner inner circle structure, which is beneficial to improve the noise-absorbing effect, reduce resistance loss, and reduce regenerative noise. The material is glass cloth wrapped with ultra-fine glass wool, and the wooden frame (or steel frame) is used as the keel to ensure the stability of the sound-absorbing material under high-speed airflow.



320×200	400×200	500×200					
320×250	400×250	500×250	630×250				
320×320	400×320	500×320	630×320	800×320			
	400×400	500×400	630×400	800×400	1000×400		
		500×500	630×500	800×500	1000×500	1250×500	1600×500
			630×630	800×630	1000×630	1250×630	1600×630
				800×800	1000×800	1250×800	1600×800
					1000×1000	1250×1000	1600×1000
						1250×1250	1600×1250
							2000×1000
							2000×1250
I型			III型			III型	

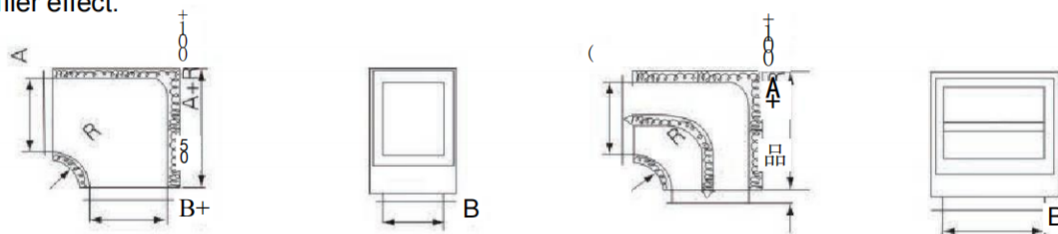
Muffler Series

Performance parameter table of muffler elbow:

阻力 损失	I 型 III 型	II 型	风管、 宽度	消声器 倍频程中心频率H Z							
				6 3	1 2 5	2 5 0	5 0 0	1 0 0 0	2 0 0 0	4 0 0 0	8 0 0 0
				2 5 0	4 . 0	6 . 0	7 . 0	1 2 . 5	1 5 . 0	1 0 . 0	1 1 . 0
风速											
6.5	1.76	1.45	3 2 0	4.5	6.0	7.0	12.5	14.5	13.0	12.0	13.0
7.0	2.04	1.68	4 0 0	5.0	6.5	7.0	12.5	14.5	15.5	13.0	12.0
7.5	2.33	1.93	5 0 0	5.0	6.5	7.0	12.5	14.5	15.5	13.0	12.0
8.0	2.66	2.19	6 3 0	5.0	8.0	9.0	12.5	13.0	14.0	13.0	13.0
8.5	3	2.48	8 0 0	5.5	10.0	12.5	13.0	12.0	13.0	14.0	14.0
9.0	3.36	2.78	1 0 0 0	6.0	7.0	12.0	14.0	16.0	18.0	18.0	18.0
9.5	3.75	3.1	1 1 0 0	7.0	7.0	12.0	14.0	16.0	18.0	18.0	18.0

G 短壁消声弯头

The short-wall muffler elbow (R=100mm~150mm) has the advantages of small size, small resistance and good muffler effect.



Characteristics of right-angle elbows classified by shape:

特 性	形 状	直角弯头	直角内圆弯头	
消声效果		有0	有0	少×
压力损失		大×	小0	少0
消声效果		有/×	小0	少/0

注: 0×分别为好坏的判断标志。

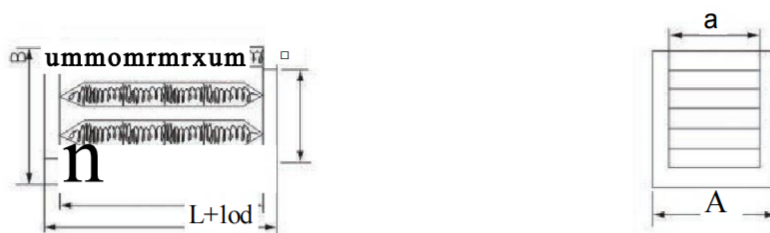
Sound attenuation performance of different sound-absorbing linings in a single elbow:

结 构	风速(m/s)	阻力 (mmH ₂ O)	倍频程消声量(dB)								总消声量	
			6 3	1 2 5	2 5 0	5 0 0	1 0 0 0	2 0 0 0	4 0 0 0	8 0 0 0	dB(A)	dB(L)
无吸声衬里	0 (白噪声)	—	7	7	10	9	7	7	7	8	5	5
	3.6	0.26	8	8	15	9	7	8	8	9	7	7
	3.0	0.98	2	6	12	7	5	7	8	7	8	2
50厚棉布饰面	0 (白噪声)	—	9	11	18	22	23	23	23	21	20	15
	3.3	0.37	8	8	16	19	24	25	24	20	17	10
	6.0	1.14	7	11	14	15	23	26	24	21	15	9
同上加导风叶	0 (百噪声)	—	8	10	18	10	19	21	22	23	19	8
	3.3	0.39	8	10	18	10	17	18	20	25	17	10
	6.0	1.00	10	11	10	11	19	19	21	26	18	13
50厚细棉布 穿孔板饰面	0 (百噪声)	—	6	10	6	10	19	20	17	17	22	9
	3.3	0.36	9	10	6	10	19	18	20	18	20	10
	6.0	1.13	7	8	9	8	14	17	17	17	19	7
二个棉布饰面 连续弯头 =4530	0 (白噪声)	—	13	19	13	19	32	38	41	42	36	25
	3.3	0.32	13	10	13	10	25	32	37	40	35	14
	6.0	0.96	9	11	9	11	19	24	31	37	36	10

Z P片式消声器

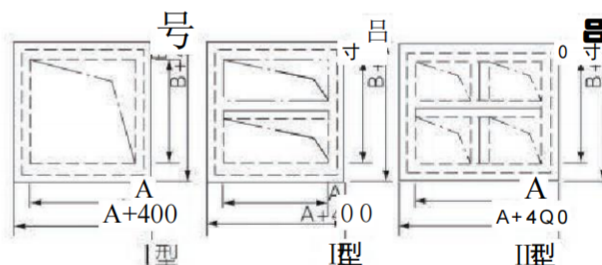
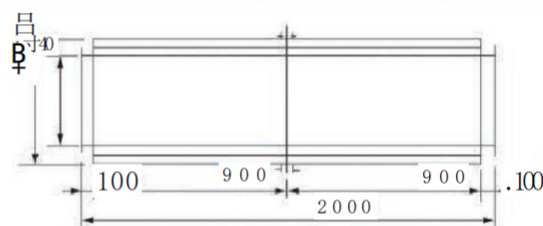
Multiple narrow rectangular tubular mufflers are connected in parallel to form a chip muffler, which can be used in conditions of large air volume, simple structure, small resistance and wide application. When the sound-absorbing material is constant, the smaller the sheet distance of the sheet muffler, the greater the sound attenuation, but the corresponding resistance is also more excellent.

Muffler Series



型号规格	外径尺寸(mm)	注兰口径(mm)	适用风量(m ³ /h)	消声量dB(A)	阻力(Pa)	重量(kg)
ZP-100	900×400×480	205×250	1800-3300	20	1.8-5.5	7.2
ZP-100	900×400×560	210×300	2300-4000	20	1.8-5.5	7.4
ZP-100	1400×560×780	330×460	5400-9700	25	3.2-9	21.0
ZP-100	1400×560×780	330×530	6300-11400	25	3.2-9	22.3
ZP-100	1500×720×1000	440×620	9700-17500	25	4-10	29.4
ZP-100	1500×720×1155	440×710	11400-20500	25	4-10	32.8
ZP-100	1900×880×1230	560×770	15400-27700	30	4.9-14	50.0
ZP-100	1900×880×1400	560×890	18000-32400	30	4.9-14	54.4
ZP-100	1900×1040×1450	670×940	22300-40300	30	4.8-13	62.5
ZP-100	1900×1040×1660	670×1080	25900-46700	30	4.8-13	69.5

WX Microporous Plate Muffler:



The microporous plate muffler is a double-cavity type consisting of double-layer microporous plates with different perforation rates. When the external noise frequency and the flexible system When the natural frequency is the same, the air at the small aperture will resonate strongly, causing severe friction and consuming sound energy. The air column at the neck of the small hole on the scale and the air in the cavity form a splint sound-absorbing structure. The micro-orifice muffler is especially suitable for the attenuation of low-frequency noise.

The microporous plate muffler adopts a metal structure, simple structure, and small size, and fireproof, and will not produce dust, fiber and other substances to pollute the air under the action of airflow. Especially suitable for high-speed pipelines, purification projects and dust-proof workshops and other projects.

Specifications and dimensions of WX microporous plate muffler:

320×250	400×250	500×250	630×250					
320×320	400×320	500×320	630×320	800×320	1000×320			
	400×400	500×400	630×400	800×400	1000×400	1250×400		
		500×500	630×500	800×500	1000×500	1250×500	1600×500	
			630×630	800×630	1000×630	1250×630	1600×630	
				800×800	1000×800	1250×800	1600×800	2000×800
					1000×1000	1250×1000	1600×1000	2000×1000
						1250×1250	1600×1250	2000×1250
I型						II型		III型

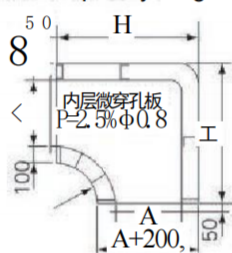
Muffler Series

WX type microporous plate muffler performance parameter table:

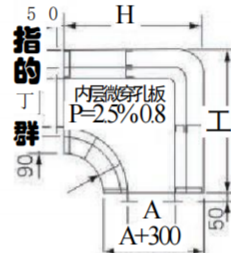
消声器内 气流速度 (m/s)	流经消声器 的阻力损失Pa	下列频率 (HZ) 下的消声量dB (A)					
		125	250	500	1000	2000	4000
0	0	28	29	33	30	42	51
7.0	5	25	29	33	23	32	41
10.0	48	23	26	29	22	30	35
14.0	78	19	20	24	20	26	34
22.0	314	10	12	19	19	27	33
25.0	422	3	4	14	16	25	32

Microporous plate muffler elbow:

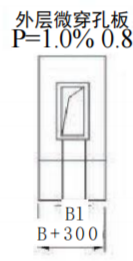
This muffler elbow adopts a microporous plate as sound-absorbing material, which has the characteristics of slight frictional resistance loss, no dust when working, not afraid of oil mist, water vapor, high-temperature airflow, etc., and is suitable for Wide frequency range.



单层弯头



双层弯头



Microporous plate noise-absorbing elbow specification series:

型号	单层弯头			型号	单层弯头			型号	双层弯头			型号	双层弯头		
	A x B	R			A x B	R			A x B	R			A x B	R	
1	320 x 200	220		12	630 x 250	530		1	320 x 200	170		12	630 x 250	480	
2	320 x 250	220		13	630 x 320	530		2	320 x 250	170		13	630 x 320	480	
3	320 x 320	220		14	630 x 400	530		3	320 x 320	170		14	630 x 400	480	
4	400 x 200	300		15	630 x 500	530		4	400 x 200	250		15	630 x 500	480	
5	400 x 250	300		16	630 x 630	530		5	400 x 250	250		16	630 x 630	480	
6	400 x 320	300		17	800 x 320	700		6	400 x 320	250		17	800 x 320	650	
7	400 x 400	300		18	800 x 400	700		7	400 x 400	250		18	800 x 400	650	
8	500 x 250	400		19	800 x 500	700		8	500 x 250	350		19	800 x 500	650	
9	500 x 320	400		20	800 x 630	700		9	500 x 320	350		20	800 x 630	650	
10	500 x 400	400		21	800 x 800	700		10	500 x 400	350		21	800 x 800	650	
11	500 x 500	400						11	500 x 500	350					

Performance parameters of microporous plate noise-absorbing elbow:

型号	风速m/s	阻力损失	下列频率 (HZ) 下的消声量dB (A)							
			125	250	500	1000	2000	4000	8000	A
单层微穿孔板 消声弯头	5	2.4	3	9	13	15	12	7	4	10
	10	3.6	4	9	14	17	12	9	6	12
	15	7.2	4	10	13	14	13	9	7	13
	20	13.5	5	12	12	13	14	12	10	14
双层微穿孔板 消声弯头	5	2.5	8	12	12	14	10	8	5	10
	10	4	7	13	15	15	12	9	6	11
	15	8.2	7	10	15	16	13	10	6	11
	20	17.8	6	14	16	16	13	12	7	13

Galvanized Sheet Regulating Valve

Main features of ZF series galvanized sheet air volume control valve, fire prevention and smoke exhaust valve series products:

1. It adopts automatic assembly line production, accurate size and good interchangeability.
2. The frame and blades of the air valve are made of high-quality hot-dip galvanized steel plate, with beautiful patterns and corrosion resistance; the connecting rod and shaft are galvanized with 45# steel, which has high strength and corrosion resistance.
3. The sintered bronze oil-impregnated bushing is selected, the leaf switch is flexible, the friction torque is small, and no maintenance is required.
4. The frame is integrally formed by the whole sheet, and the edges are riveted, with no welding deformation and less leakage.
5. There are wide varieties and complete specifications. According to users' requirements, suitable varieties can be selected to achieve the best performance-price ratio and reduce construction costs.

The main performance of the ZF series galvanized sheet air volume control valve:

1. The maximum torque allowed by the blade shaft is 35NM.
2. Leakage rate: standard air volume control valve <1%.
3. Drive mode: manual, electric, pneumatic.
4. It can be equipped with various smoke prevention and exhaust mechanisms.

