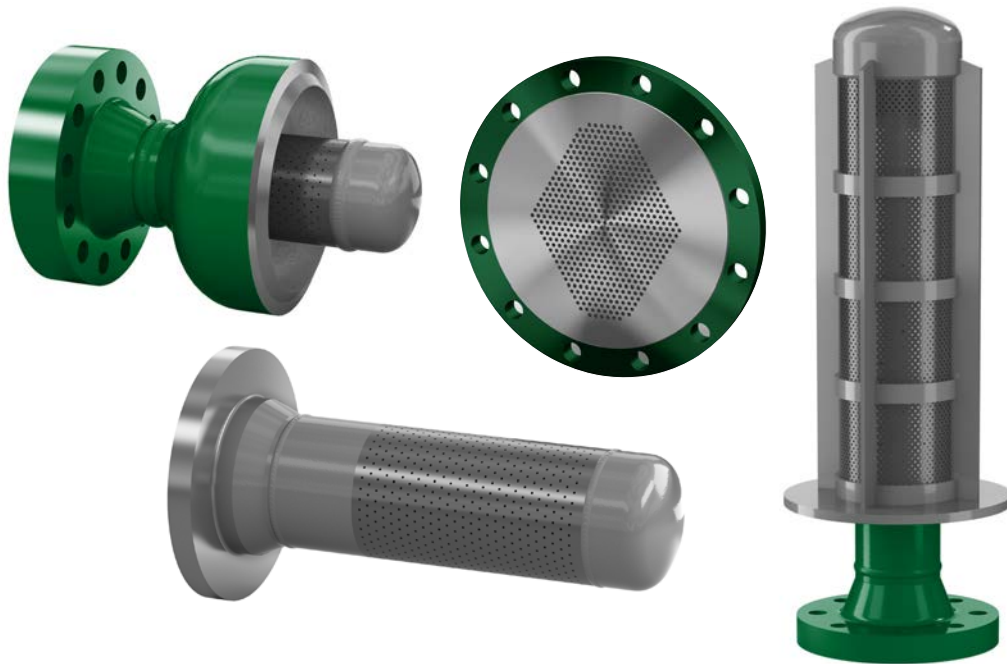


Fisher™ 6010, 6011, 6012, 6013 and Whisper Disk Diffusers



Fisher 6010, 6011, 6012, 6013 and Whisper Disk Diffusers

Because valves can be substantial noise contributors when controlling industrial processes, a complete line of Fisher diffusers is offered to provide optimum noise attenuation. A diffuser is a pressure-reducing device that is installed downstream of the control valve. When installed, the total pressure drop of the system is divided across the valve and diffuser. This enables the valve to operate at a lower pressure drop ratio, thereby lowering the noise level generated from the process flowing through the control valve.

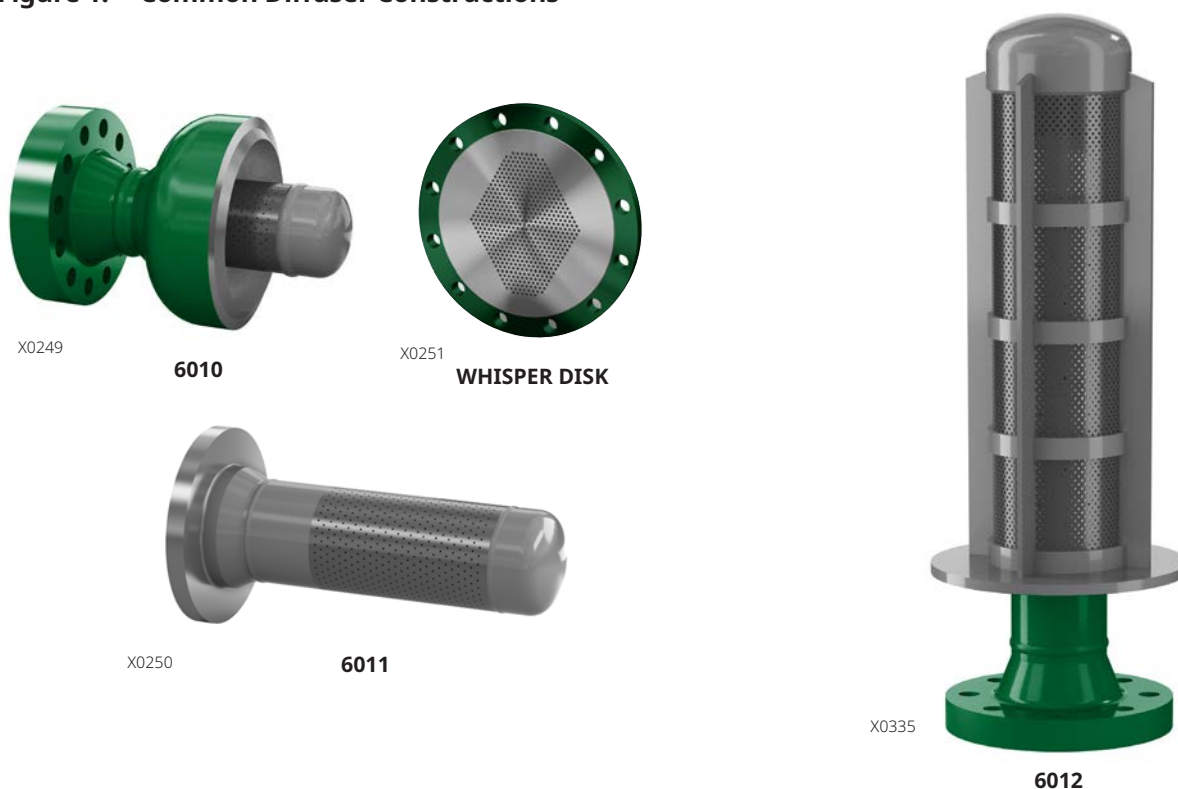
Inline Diffusers

Fisher 6010, 6011 and Whisper Disk inline diffusers are installed downstream of any control valve. These diffusers do not need to be placed adjacent to a control valve. Multiple diffuser types are available, providing an increased level of flexibility to meet a range of applications. Inline diffusers are used in steam, gas and vapor flow applications to achieve minimum noise generation.

Vent Diffusers

Fisher 6012 and 6013 (Figure 2) vent diffusers reduce the noise generated by the venting of compressible fluids to atmosphere.

Figure 1. Common Diffuser Constructions



Note:

Diffusers are not hydrostatically tested.

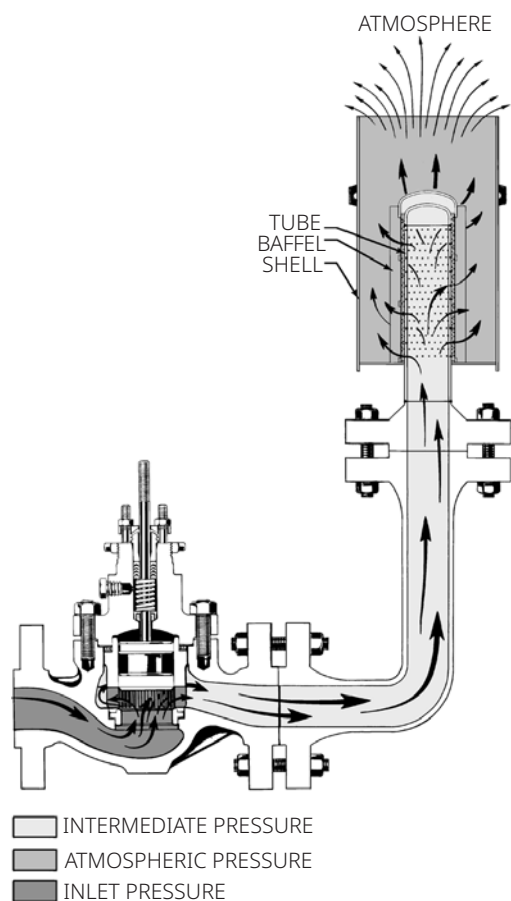
Specifications

Available Configurations	Materials
6010: Inline diffuser (with integral outlet head) 6011: Inline diffuser (pipe-style) Whisper Disk: Inline diffuser (flat plate) 6012: Drilled-hole vent diffuser 6013: Drilled-hole vent diffuser (with outer shell)	See Table 1
Sizes	Weights and Dimensions ⁽²⁾
6010: NPS 1 x 3 to NPS 26 x 48 (inlet x outlet) 6011: NPS 2 to NPS 30 Whisper Disk: NPS 2 to NPS 24 6012: NPS 2 to NPS 26 6013: NPS 2 to NPS 26 (outer shell NPS 4 to 36)	6010: See Figure 3 and Table 2 6011: See Figure 4 and Table 6 6012: See Figure 6 and Table 11 6013: See Figure 7 and Table 12 Whisper Disk: See Figure 5
End Connections	Design Standards
6010: Any combination of flanged (raised-face, ring-type joint and flat-face) or welded end (buttweld or socket weld) 6011: Wafer flanged ⁽¹⁾ Whisper Disk: Raised-face or ring-type joint flanged 6012 and 6013: Raised-face flanged, ring-type joint flanged or buttweld end	Diffuser wall thicknesses are designed in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1 and materials used are listed in Section II, Part D. End connection flanges are in compliance with ASME B16.5 or B16.47 and buttweld ends are in compliance with ASME B16.25⁽³⁾. Contact your Emerson sales office for availability of PED 97/23/EC compliant materials of construction. Note: Inline and vent diffusers are not hydrostatically tested.
1. Downstream flange requires concentric expander. Refer to Figure 4. 2. Your Emerson sales office can determine actual weights and lengths after the diffuser has been sized for pressure and noise conditions. 3. Flanged 6010, 6012 and 6013 diffusers will mate with standard B16.5 or B16.47 flanges but are designed based on customer provided design conditions. The final P/T rating of these diffusers will not conform to the P/T rating of the flange unless the provided designed conditions are made to match the ASME flange P/T rating.	

Table 1. Construction Materials

MATERIAL	DIFFUSER FLANGE OR WHISPER DISK	DIFFUSER TUBE	DIFFUSER HEAD CAP	TEMPERATURE CAPABILITIES	
				°C	°F
Carbon Steel ⁽¹⁾	SA-105	SA-106 Gr B	WPB	-29 to 427	-20 to 800
2 1/4Cr-1Mo	F22	P22	WP22	-29 to 593	-20 to 1100
9Cr-1Mo-V ⁽³⁾	F91	P91	WP91	-29 to 593	-20 to 1100
S31600 (316 SST)	F316	TP316	WP316	-198 to 649	-325 to 1200
S30400 (304 SST)	F304	TP304	WP304	-198 to 649	-325 to 1200
N04400 (Alloy 400)	N04400	N04400	N04400	-198 to 482	-325 to 900
1. NACE MR0175-2002, NACE MR0175-2003 and NACE MR0175/ISO 15156 approved material also available. 2. Wrought equivalent to WC9. 3. Wrought equivalent to C12A.					

Figure 2. Control Valve and Diffuser Divide the Overall Pressure Drop



TYPICAL FISHER 6013 DIFFUSER INSTALLATION

Features

- **Versatility** — The diffuser concept is used in several unique versions, providing optimum solutions for various applications. The diffuser need not be installed adjacent to the control valve.
- **Noise Attenuation** — A properly selected diffuser-valve combination can result in up to 40 dBA noise reduction.
- **Total Control** — A diffuser-valve combination retains the pressure/flow control associated with a standard control valve. Just as important, it controls the generation of potentially damaging noise and vibration.
- **Lower Life-Cycle Cost** — All Fisher diffusers, both inline and vent, are ruggedly built static devices requiring no maintenance after installation. These features combine to offer increased noise control at a minimum investment.

Ordering Information

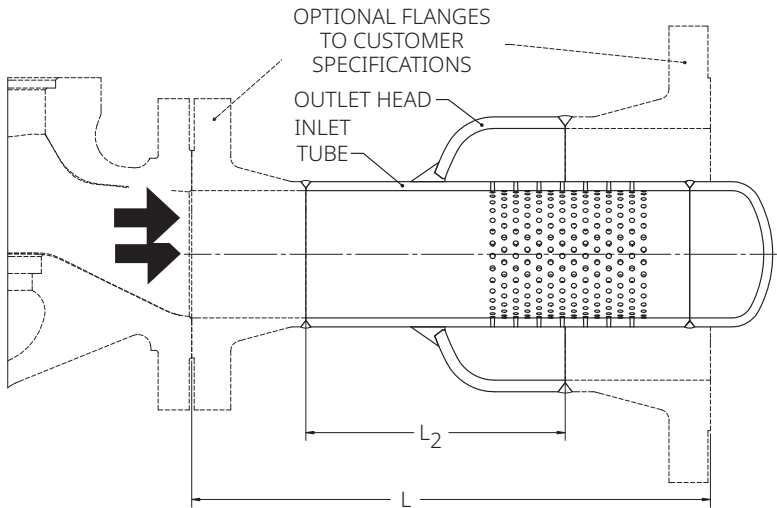
Contact your [Emerson sales office](#) to order diffusers. Sales representatives should complete standard order entry in addition to the Diffuser Engineering Form that is available on FishWeb. Sales representatives should also send the Diffuser Engineering Form and Customer Data Sheet to MasterSchedSPG.EPMMTN@Emerson.com.

Fisher 6010 Inline Diffuser

Calculating 6010 Diffuser Lengths

- Without flanges (L₂) refer to Table 3.
- With flanges (L) use the following equation:
L = Inlet Flange Length + L₂ + Outlet Flange Length
– Flange lengths are listed in Tables 4 and 5.

Figure 3. Fisher 6010 Diffuser Dimensions



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Note:

Overall diffuser tube length may exceed face-to-face length.

Table 2. Fisher 6010 Diffuser Approximate Weights and Minimum Head Sizes⁽¹⁾

INLET TUBE SIZE, NPS	MINIMUM OUTLET HEAD SIZE, NPS	APPROXIMATE WEIGHT ⁽²⁾		MAXIMUM HEAD SCHEDULE ⁽³⁾	MAXIMUM HEAD WALL THICKNESS	
		kg	lb		mm	in.
1	2	1.4	3	80 (XS)	5.5	0.218
1-1/2	3	2.1	5	80 (XS)	7.6	0.300
2	4	2.7	6	XXS	17.1	0.674
2-1/2	5	5.4	12	XXS	19.1	0.750
3	5	6.8	15	80 (XS)	9.5	0.375
4	6	11	25	80 (XS)	11.0	0.432
6	10	23	50	160	28.6	1.125
8	12	34	75	160	33.3	1.312
10	14	68	150	XS	12.7	0.500
12	18	79	175	80	23.8	0.938
14	20	91	200	80	26.2	1.031
16	22	125	275	80	28.6	1.125
18	24	159	350	20 (STD)	9.5	0.375
20	26	227	500	20 (XS)	12.7	0.500
24	30	340	750	30	15.9	0.625

1. This chart may be used to determine physical size limitations. It is not intended to be used as a guide or substitute for outlet velocity calculations or outlet sizing.
2. Weights are approximations at a standard schedule size and do not include the additional weight of optional flanges.
3. This schedule limitation only applies at the listed minimum outlet head size.

Table 3. Typical Fisher 6010 Diffuser L₂ Dimensions (Size 1 through 8)⁽¹⁾

DIFFUSER SIZE ⁽²⁾	L ₂ DIMENSION	
	mm	in.
1 X 2	111	4.38
1 X 3	140	5.50
1 X 4	152	6.00
1 X 5	165	6.50
1 X 6	178	7.00
1-1/2 X 3	124	4.88
1-1/2 X 4	149	5.88
1-1/2 X 5	165	6.50
1-1/2 X 6	178	7.00
1-1/2 X 8	203	8.00
2 X 4	149	5.88
2 X 5	162	6.38
2 X 6	175	6.88
2 X 8	203	8.00
2 X 10	229	9.00
2 X 12	254	10.00
2-1/2 X 5	159	6.25
2-1/2 X 6	175	6.88
2-1/2 X 8	200	7.88
2-1/2 X 10	226	8.88
2-1/2 X 12	254	10.00
2-1/2 X 14	267	10.50
3 X 5	146	5.75
3 X 6	171	6.75
3 X 8	200	7.88
3 X 10	226	8.88
3 X 12	251	9.88
3 X 14	264	10.38
3 X 16	276	10.88
3 X 18	305	12.00
4 X 6	165	6.50
4 X 8	194	7.62
4 X 10	222	8.75
4 X 12	248	9.75
4 X 14	264	10.38
4 X 16	276	10.88
4 X 18	302	11.88
4 X 20	327	12.88
6 X 10	213	8.38
6 X 12	241	9.50
6 X 14	254	10.00
6 X 16	270	10.62
6 X 18	295	11.62
6 X 20	324	12.75
6 X 22	324	12.75
6 X 24	375	14.75
8 X 12	232	9.12
8 X 14	244	9.62
8 X 16	260	10.25
8 X 18	289	11.38
8 X 20	318	12.50
8 X 22	318	12.50
8 X 24	371	14.62
8 X 26	333	13.12

- continued -

Table 3. Typical Fisher 6010 Diffuser L₂ Dimensions (Size 1 through 8)⁽¹⁾ (continued)

DIFFUSER SIZE ⁽²⁾	L ₂ DIMENSION	
	mm	in.
10 X 14	260	10.25
10 X 16	302	11.88
10 X 18	330	13.00
10 X 20	359	14.12
10 X 22	362	14.25
10 X 24	416	16.38
10 X 26	378	14.88
10 X 28	381	15.00
12 X 18	321	12.62
12 X 20	349	13.75
12 X 22	356	14.00
12 X 24	406	16.00
12 X 26	371	14.62
12 X 28	375	14.75
12 X 30	375	14.75
14 X 20	343	13.50
14 X 22	349	13.75
14 X 24	403	15.88
14 X 26	365	14.38
14 X 28	368	14.50
14 X 30	371	14.62
14 X 32	371	14.62
16 X 20	308	12.12
16 X 22	337	13.25
16 X 24	391	15.38
16 X 26	359	14.12
16 X 28	359	14.12
16 X 30	362	14.25
16 X 32	362	14.25
16 X 34	368	14.50
18 X 24	381	15.00
18 X 26	346	13.62
18 X 28	349	13.75
18 X 30	353	13.88
18 X 32	356	14.00
18 X 34	359	14.12
18 X 36	362	14.25
20 X 26	337	13.25
20 X 28	340	13.38
20 X 30	343	13.50
20 X 32	346	13.62
20 X 34	349	13.75
20 X 36	353	13.88
24 X 30	321	12.62
24 X 32	324	12.75
24 X 34	330	13.00
24 X 36	333	13.12

1. Dimensions may vary to meet specific sound attenuation or piping requirements.

2. Inlet x outlet nominal pipe sizes.

Table 4. Fisher 6010 Diffuser Flange Lengths, CL150 through CL600

CLASS RATING		150				300				600			
FLANGE TYPE		RTJ		RF		RTJ		RF		RTJ		RF	
SIZE, NPS		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
NPS 24 and Smaller ⁽¹⁾													
1		60	2.37	55	2.18	67	2.63	62	2.44	68	2.69	68	2.69
2		68	2.69	64	2.50	76	3.00	70	2.75	81	3.19	80	3.13
3		75	2.94	70	2.75	86	3.37	79	3.12	90	3.56	89	3.50
4		81	3.19	76	3.00	92	3.63	86	3.38	110	4.31	108	4.25
5		94	3.69	89	3.50	105	4.13	99	3.88	122	4.81	121	4.75
6		94	3.69	89	3.50	105	4.13	99	3.88	125	4.93	124	4.87
8		106	4.19	102	4.00	118	4.63	111	4.38	141	5.56	140	5.50
10		106	4.19	102	4.00	124	4.87	117	4.62	160	6.31	159	6.25
12		119	4.69	114	4.50	136	5.37	130	5.12	163	6.43	162	6.37
14		132	5.19	127	5.00	149	5.87	143	5.62	173	6.81	171	6.75
16		132	5.19	127	5.00	152	6.00	146	5.75	186	7.31	184	7.25
18		145	5.69	140	5.50	165	6.50	159	6.25	192	7.56	191	7.50
20		149	5.87	144	5.68	170	6.70	162	6.38	200	7.88	197	7.75
22		154	6.07	149	5.88	175	6.88	165	6.50	208	8.19	203	8.00
24		157	6.19	152	6.00	178	7.00	168	6.62	214	8.44	210	8.25
SIZE, NPS		NPS 26 and Larger ⁽²⁾											
26	Series A	---	---	121	4.75	195	7.69	184	7.25	235	9.25	229	9.00
	Series B	---	---	89	3.50	156	6.13	145	5.69	194	7.62	187	7.37
28	Series A	---	---	125	4.94	208	8.19	197	7.75	248	9.75	241	9.50
	Series B	---	---	95	3.75	160	6.31	149	5.87	203	8.00	197	7.75
30	Series A	---	---	137	5.38	221	8.69	210	8.25	260	10.25	254	10.00
	Series B	---	---	100	3.94	169	6.66	158	6.22	217	8.56	211	8.31
32	Series A	---	---	145	5.69	235	9.25	222	8.75	275	10.81	267	10.50
	Series B	---	---	108	4.25	181	7.12	168	6.62	230	9.06	222	8.75
34	Series A	---	---	149	5.88	245	9.63	232	9.13	284	11.18	276	10.87
	Series B	---	---	110	4.34	186	7.31	173	6.81	248	9.75	240	9.44
36	Series A	---	---	157	6.19	254	10.00	241	9.50	297	11.68	289	11.37
	Series B	---	---	118	4.63	194	7.62	181	7.12	257	10.12	249	9.81

1. Per ASME B16.5; Includes the flange facing height.

2. Per ASME B16.47; Includes the flange facing height.

Table 5. Fisher 6010 Diffuser Flange Lengths, CL900 through CL2500

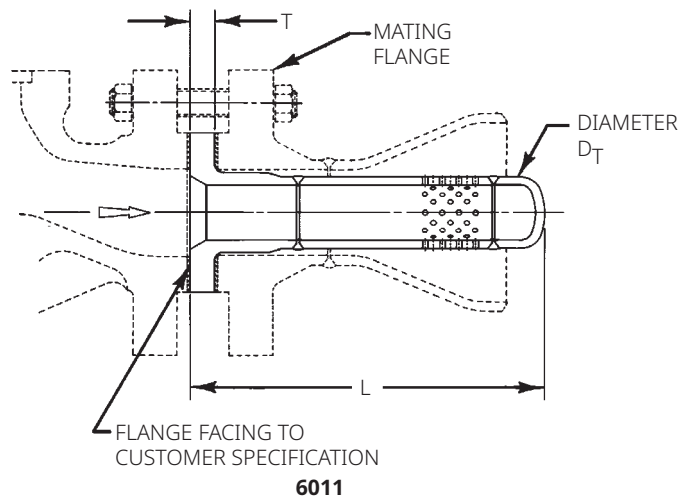
CLASS RATING		900				1500				2500			
FLANGE TYPE		RTJ		RF		RTJ		RF		RTJ		RF	
SIZE, NPS		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
NPS 24 and Smaller ⁽¹⁾													
1		80	3.13	80	3.13	80	3.13	80	3.13	95	3.75	95	3.75
2		110	4.31	108	4.25	110	4.31	108	4.25	135	5.31	133	5.25
3		110	4.31	108	4.25	125	4.93	124	4.87	178	7.00	174	6.87
4		122	4.81	121	4.75	132	5.19	130	5.13	202	7.94	197	7.75
5		135	5.31	133	5.25	163	6.43	162	6.37	241	9.50	235	9.25
6		148	5.81	146	5.75	181	7.13	178	7.00	286	11.25	279	11.00
8		170	6.69	168	6.63	224	8.82	219	8.63	332	13.06	324	12.75
10		192	7.56	191	7.50	265	10.44	260	10.25	437	17.19	425	16.75
12		208	8.19	207	8.13	297	11.68	289	11.37	481	18.94	470	18.50
14		224	8.82	219	8.63	314	12.38	305	12.00	---	---	---	---
16		227	8.94	222	8.75	329	12.94	318	12.50	---	---	---	---
18		241	9.50	235	9.25	345	13.57	334	13.13	---	---	---	---
20		260	10.25	254	10.00	373	14.69	362	14.25	---	---	---	---
22		---	---	---	---	---	---	---	---	---	---	---	---
24		308	12.13	298	11.75	427	16.81	413	16.25	---	---	---	---
SIZE, NPS		NPS 26 and Larger ⁽²⁾											
26	Series A	303	11.94	292	11.50	---	---	---	---	---	---	---	---
	Series B	273	10.75	265	10.44	---	---	---	---	---	---	---	---
28	Series A	316	12.44	305	12.00	---	---	---	---	---	---	---	---
	Series B	294	11.57	283	11.13	---	---	---	---	---	---	---	---
30	Series A	329	12.94	318	12.50	---	---	---	---	---	---	---	---
	Series B	307	12.07	295	11.63	---	---	---	---	---	---	---	---
32	Series A	348	13.69	337	13.25	---	---	---	---	---	---	---	---
	Series B	321	12.63	310	12.19	---	---	---	---	---	---	---	---
34	Series A	370	14.56	356	14.00	---	---	---	---	---	---	---	---
	Series B	340	13.37	325	12.81	---	---	---	---	---	---	---	---
36	Series A	383	15.06	368	14.50	---	---	---	---	---	---	---	---
	Series B	346	13.62	332	13.06	---	---	---	---	---	---	---	---

1. Per ASME B16.5; Includes the flange facing height.

2. Per ASME B16.47; Includes the flange facing height.

Fisher 6011 Inline Diffuser

Figure 4. Fisher 6011 Diffuser Dimensions



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Note:

The standard 6011 design assumes a concentric expansion downstream of the mating flanges.

Table 6. Typical Fisher 6011 Diffuser Dimensions⁽¹⁾

DIFFUSER SIZE ⁽²⁾ , NPS (MATING FLANGE)	MAXIMUM L		T		MAXIMUM TUBE SIZE D _T ^(3,4)		APPROXIMATE WEIGHT	
	mm	in.	mm	in.	mm	in.	kg	lb
2	483	19	16	0.63	32	1.25	2.7	6
3	635	25	19	0.75	64	2.50	9	20
4	711	28	22	0.88	76	3	14	30
6	1295	51	28	1.12	127	5	41	90
8	1473	58	32	1.25	152	6	68	150
10	1778	70	38	1.50	203	8	113	250
12	2134	84	44	1.75	254	10	159	350
14	2184	86	44	1.75	254	10	181	400
16	2286	90	51	2.00	305	12	268	590
18	2286	90	51	2.00	356	14	340	750
20	2286	90	51	2.00	406	16	397	875
24	2286	90	51	2.00	508	20	544	1200
26	2286	90	70	2.75	508	20	544	1200
30	2286	90	70	2.75	610	24	635	1400

1. Dimensions may vary to meet specific sound attenuation or piping requirements.
2. Specify mating flange size for diffuser size.
3. Heavy schedule mating flange may require smaller tube size.
4. Smaller tube sizes available for increased annular area.

Table 7. Maximum Tube Size for Fisher 6011 Diffusers⁽¹⁾

MATING LINE				MAXIMUM 6011 TUBE SIZE, NPS
Mating Flange Line Size, NPS	Maximum Schedule Allowed	Maximum Allowable Wall Thickness		
		mm	in.	
2	STD only	3.9	0.154	1-1/2
2	XS	5.5	0.218	1-1/4
3	STD only	5.4	0.216	2-1/2
3	160	11.1	0.438	2
4	80	8.6	0.337	3
6	80	11.0	0.432	5
6	160	18.3	0.719	4
8	120	18.3	0.719	6
10	100	18.3	0.719	8
12	160	33.3	1.312	8
12	60	14.3	0.562	10
14	80	19.1	0.750	10
16	80	21.4	0.844	12
18	80	23.8	0.938	14
20	60	20.6	0.812	16
24	XS	12.7	0.500	20
26	XS	12.7	0.500	20
30	XS	12.7	0.500	24

1. This chart may be used to determine physical size limitations. It is not intended to be used as a guide or substitute for outlet velocity calculations or outlet sizing.

Whisper Disk Inline Diffuser

Table 8. Available Size/Pressure Class for Whisper Disk Diffusers

SIZE, NPS	PRESSURE RATING ⁽¹⁾						
	CL150	CL300	CL400	CL600	CL900	CL1500	CL2500
2	X	X	X	X	X	X	X
2-1/2	X	X	X	X	X	X	N/A
3	X	X	X	X	X	X	N/A
4	X	X	X	X	X	N/A	N/A
6	X	X	X	X	N/A	N/A	N/A
8	X	X	X	N/A	N/A	N/A	N/A
10	X	X	N/A	N/A	N/A	N/A	N/A
12	X	X	N/A	N/A	N/A	N/A	N/A
14 to 24	X	N/A	N/A	N/A	N/A	N/A	N/A

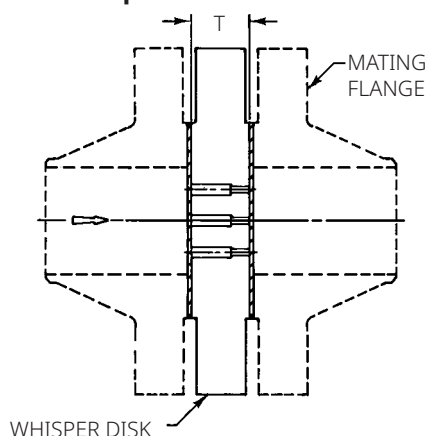
1. Ratings are for raised face flanges. Flange ratings higher than those listed may be available. Consult your [Emerson sales office](#) for higher flange ratings, other sizes and RTJ (ring-type joint) facing.

Table 9. Whisper Disk Maximum Allowable C_v Per Disk Size and Pressure Drop Ratio (Pressure Drop Ratio of Disk, Not System)^(1,2)

Size, NPS	$\Delta P/P_1$, psia Maximum of 0.60	$\Delta P/P_1$, psia Maximum of 0.75	$\Delta P/P_1$, psia Maximum of 0.85	$\Delta P/P_1$, psia Maximum of 0.99
2	14	6	3	1
2-1/2	22	10	5	2
3	37	33	14	12
4	95	35	32	21
6	189	119	74	36
8	321	196	101	82
10	500	321	167	125
12	718	482	246	196
14	889	500	304	234
16	893	650	407	324
18	893	839	529	343
20	893	893	771	432
24	893	893	893	643

1. Above C_v values based on standard weight pipe upstream and downstream of disk diffuser. For heavier schedule or heavier flange maximum C_v values, consult your [Emerson sales office](#).
2. All maximum C_v values assume an X_t of 0.496.

Figure 5. Thickness Dimension T for Whisper Disk Diffusers



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Table 10. Thickness Dimension T for Whisper Disk Diffusers

SIZE, NPS ⁽¹⁾	T, mm						T, in.					
	Pressure Rating						Pressure Rating					
	CL150	CL300	CL400	CL600	CL900	CL1500	CL150	CL300	CL400	CL600	CL900	CL1500
2	19	22	32	32	44	44	0.75	0.88	1.25	1.25	1.75	1.75
2-1/2	22	25	35	35	48	48	0.88	1.00	1.38	1.38	1.88	1.88
3	24	28	38	38	44	54	0.94	1.12	1.50	1.50	1.75	2.12
4	24	32	41	44	51	54	0.94	1.25	1.62	1.75	2.00	2.12
6	25	37	48	54	---	---	1.00	1.44	1.88	2.12	---	---
8	28	41	54	---	---	---	1.12	1.62	2.12	---	---	---
10	30	48	---	---	---	---	1.19	1.88	---	---	---	---
12	32	51	---	---	---	---	1.25	2.00	---	---	---	---
14	35	---	---	---	---	---	1.38	---	---	---	---	---
16	37	---	---	---	---	---	1.44	---	---	---	---	---
18	40	---	---	---	---	---	1.56	---	---	---	---	---
20	43	---	---	---	---	---	1.69	---	---	---	---	---
24	48	---	---	---	---	---	1.88	---	---	---	---	---

1. For sizes and ratings not shown, consult your [Emerson sales office](#).

Fisher 6012 Vent Diffuser

Figure 6. Fisher 6012 Vent Diffuser Dimensions

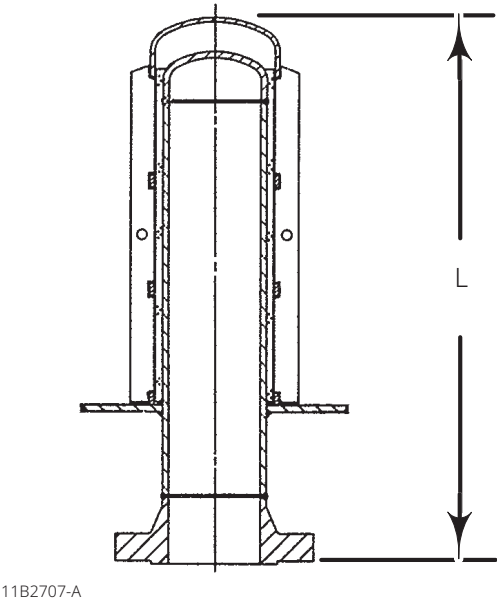


Table 11. Typical Fisher 6012 Diffuser Dimensions⁽¹⁾

INLET SIZE, NPS	L		WEIGHT ⁽²⁾	
	mm	in.	kg	lb
2	533	21.00	14	30
3	610	24.00	21	47
4	914	36.00	32	70
6	1143	45.00	61	135
8	1626	64.00	136	300
10	2032	80.00	206	455
12	2642	104.00	354	780
14	2743	108.00	372	820
16	2794	110.00	499	1100
18	3353	132.00	782	1725
20	3962	156.00	816	1800

1. Dimensions may vary to meet specific sound attenuation or piping requirements.
2. Weights do not include flanges.

Fisher 6013 Vent Diffuser

Figure 7. Fisher 6013 Vent Diffuser Dimensions

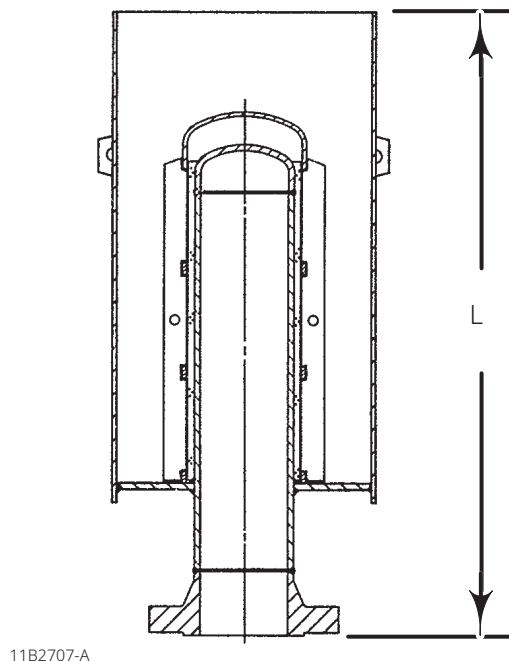


Table 12. Typical Fisher 6013 Diffuser Dimensions⁽¹⁾

INLET SIZE, NPS	L		WEIGHT ⁽²⁾	
	mm	in.	kg	lb
2	1118	44.00	64	140
3	1219	48.00	88	195
4	1524	60.00	113	250
6	1829	72.00	191	420
8	2134	84.00	329	725
10	2743	108.00	465	1025
12	3353	132.00	748	1650
14	3353	132.00	767	1690
16	3505	138.00	984	2170
18	3962	156.00	1383	3050
20	4572	180.00	1569	3460

1. Dimensions may vary to meet specific sound attenuation or piping requirements.
2. Weights do not include flanges.

Table 13. Minimum Shell Size for Fisher 6013 Diffuser⁽¹⁾

DIFFUSER INLET SIZE	mm	51	76	102	152	203	254	305	356	406	457	508
	NPS	2	3	4	6	8	10	12	14	16	18	20
NOMINAL SHELL SIZE	mm	203	254	305	356	406	508	610	610	711	762	813
	in.	8	10	12	14	16	20	24	24	28	30	32

1. Shell dimensions may vary to meet specific sound attenuation requirements.

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