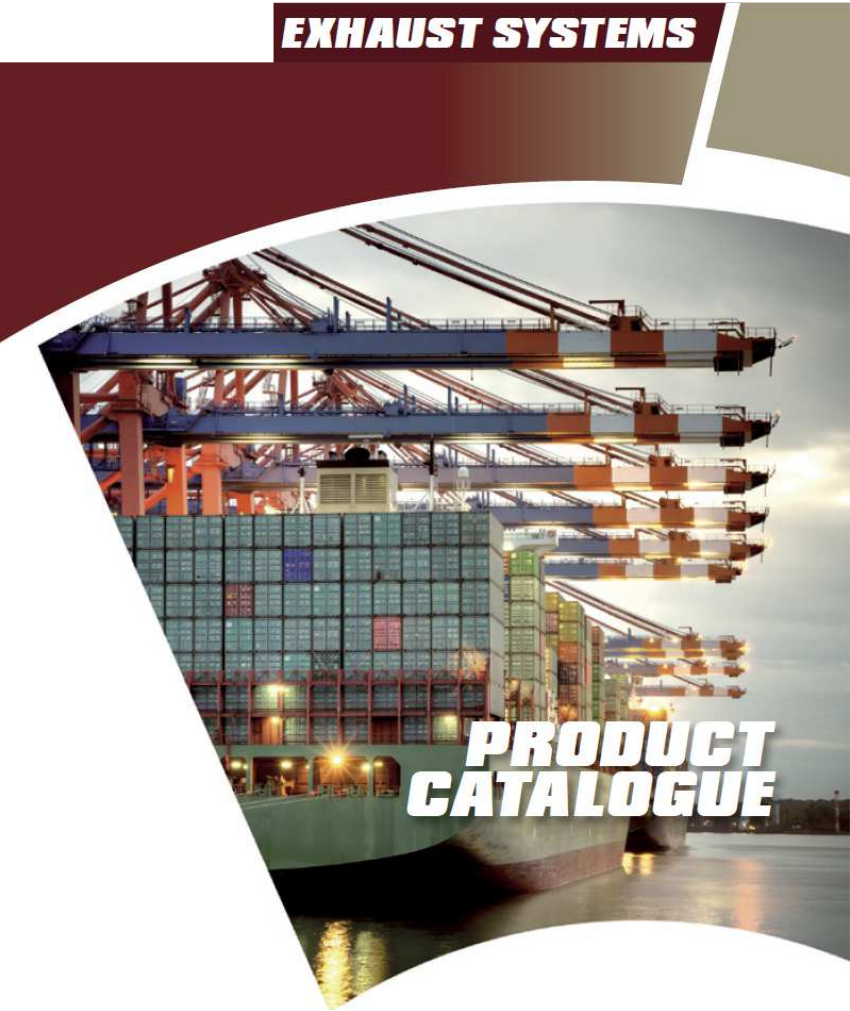


EXHAUST SYSTEMS



**PRODUCT
CATALOGUE**

Isolation
Technologie Services

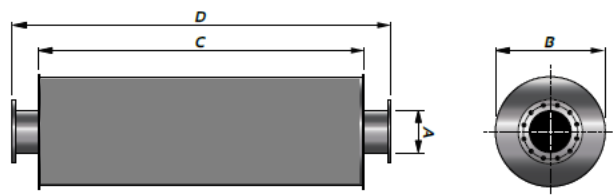
ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

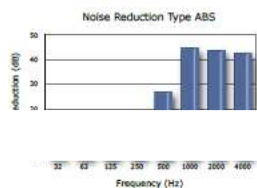
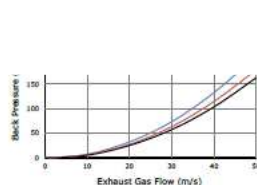
EXHAUST SILENCERS

Type ABS

Damping level 20-25 dB(A) without integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
130100000015	1.5"	40	48.3	114	620	750	6 kg
130100000020	2"	50	60.3	143	670	800	8 kg
130100000025	2.5"	60	76.1	172	750	880	10 kg
130100000030	3"	80	88.9	187	820	950	15 kg
130100000040	4"	100	114.3	243	1000	1140	25 kg
130100000050	5"	125	139.7	313	1220	1250	30 kg
130100000060	6"	150	168.3	376	1250	1450	50 kg
130100000080	8"	200	219.1	388	1500	1700	95 kg
130100000100	10"	250	273.0	584	2000	2250	175 kg
130100000120	12"	300	323.9	611	2000	2250	225 kg
130100000140	14"	350	355.6	671	2250	2500	270 kg
130100000160	16"	400	406.4	751	2750	3000	350 kg
130100000180	18"	450	457.2	851	3250	3500	420 kg
130100000180	20"	500	508.0	951	3750	4000	500 kg



e Level +/- 20-25 dB(A)

Damping Basics of the silencers type ABS are according the absorption principal

Spark Arrestor The silencers type ABS are excluding an integrated Spark Arrestor

Mounting The silencers type ABS can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type ABS are produced out of Steel 37-2 (S235JRG2)

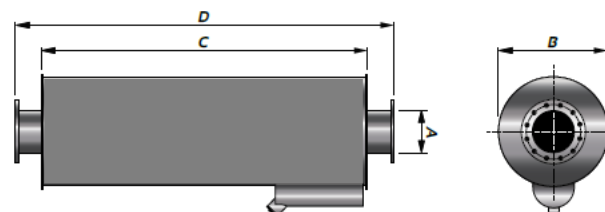
Temperature Maximum allowable temperature is 600°C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

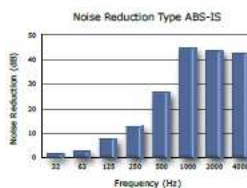
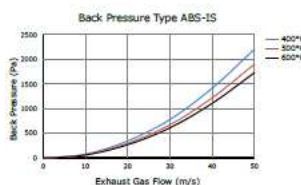
EXHAUST SILENCERS

Type ABS-IS

Damping level 20-25 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
131100000015	1.5"	40	48.3	114	710	840	10 kg
131100000020	2"	50	60.3	143	870	1000	15 kg
131100000025	2.5"	60	76.1	172	1020	1150	20 kg
131100000030	3"	80	88.9	187	1120	1250	25 kg
131100000040	4"	100	114.3	243	1250	1420	45 kg
131100000050	5"	125	139.7	313	1300	1440	60 kg
131100000060	6"	150	168.3	376	1560	1710	90 kg
131100000080	8"	200	219.1	388	1850	2030	110 kg
131100000100	10"	250	273.0	584	2000	2250	250 kg
131100000120	12"	300	323.9	611	2250	2500	295 kg
131100000140	14"	350	355.6	671	2500	2750	350 kg
131100000160	16"	400	406.4	751	2750	3000	450 kg
131100000180	18"	450	457.2	851	3250	3500	500 kg
131100000200	20"	500	508.0	951	3750	4000	625 kg



Damping Of The Noise Level +/- 20-25 dB(A)

Damping Basics of the silencers type ABS-IS are according the absorption principal

Spark Arrestor The silencers type ABS-IS are including an integrated Spark Arrestor

Mounting The silencers type ABS-IS can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type ABS-IS are produced out of Steel 37-2 (S235JRG2)

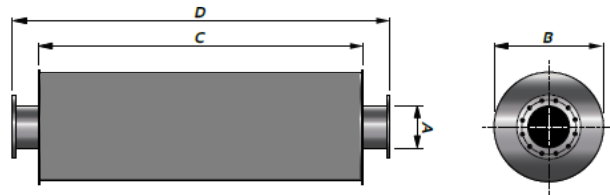
Temperature Maximum allowable temperature is 600°C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

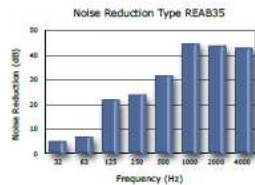
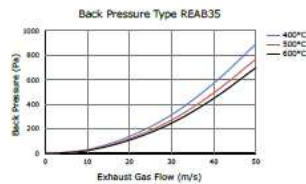
EXHAUST SILENCERS

Type REAB35

Damping level 35 dB(A) without integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
140200000015	1.5"	40	48.3	200	750	900	10 kg
140200000020	2"	50	60.3	200	750	900	15 kg
140200000025	2.5"	60	76.1	260	850	1000	22 kg
140200000030	3"	80	88.9	310	850	1000	30 kg
140200000040	4"	100	114.3	360	1270	1500	50 kg
140200000050	5"	125	139.7	400	1270	1500	65 kg
140200000060	6"	150	168.3	475	1500	1750	125 kg
140200000080	8"	200	219.1	560	1750	2000	170 kg
140200000100	10"	250	273.0	635	2250	2500	250 kg
140200000120	12"	300	323.9	760	2500	2750	320 kg
140200000140	14"	350	355.6	800	2750	3000	410 kg
140200000160	16"	400	406.4	860	3000	3250	500 kg
140200000180	18"	450	457.2	910	3250	3500	565 kg
140200000200	20"	500	508.0	960	3500	3750	640 kg



Damping Of The Noise Level +/- 35 dB(A)

Damping Basics of the silencers type REAB35 are according the reflection-absorption principal

Spark Arrestor The silencers type REAB35 are excluding an integrated Spark Arrestor

Mounting The silencers type REAB35 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REAB35 are produced out of Steel 37-2 (S235JRG2)

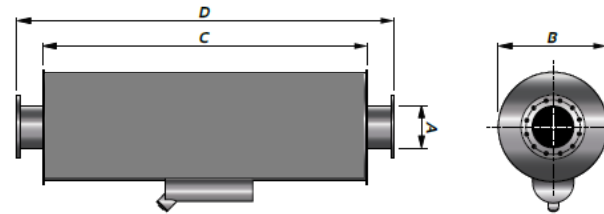
Temperature Maximum allowable temperature is 600°C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

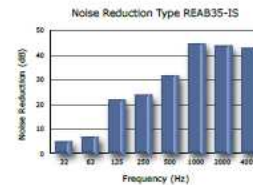
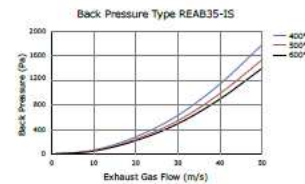
EXHAUST SILENCERS

Type REAB35-IS

Damping level 35 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
141200000015	1.5"	40	48.3	200	750	900	10 kg
141200000020	2"	50	60.3	200	750	900	15 kg
141200000025	2.5"	60	76.1	260	850	1000	22 kg
141200000030	3"	80	88.9	310	850	1000	30 kg
141200000040	4"	100	114.3	360	1270	1500	50 kg
141200000050	5"	125	139.7	400	1270	1500	65 kg
141200000060	6"	150	168.3	475	1500	1750	125 kg
141200000080	8"	200	219.1	560	1750	2000	170 kg
141200000100	10"	250	273.0	635	2250	2500	250 kg
141200000120	12"	300	323.9	760	2500	2750	320 kg
141200000140	14"	350	355.6	800	2750	3000	410 kg
141200000160	16"	400	406.4	860	3000	3250	500 kg
141200000180	18"	450	457.2	910	3250	3500	565 kg
141200000200	20"	500	508.0	960	3500	3750	640 kg



Damping Of The Noise Level +/- 35 dB(A)

Damping Basics of the silencers type REAB35-IS are according the reflection-absorption principal

Spark Arrestor The silencers type REAB35-IS are including an integrated Spark Arrestor

Mounting The silencers type REAB35-IS can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REAB35-IS are produced out of Steel 37-2 (S235JRG2)

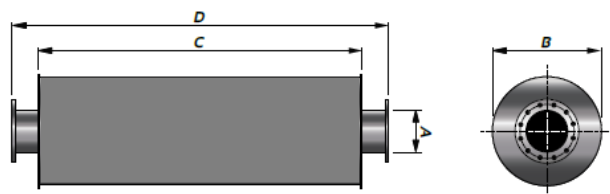
Temperature Maximum allowable temperature is 600°C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

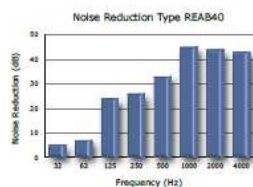
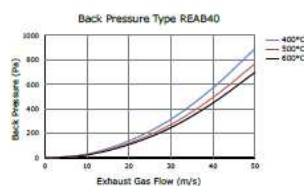
EXHAUST SILENCERS

Type REAB40

Damping level 40 dB(A) without integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
140300000020	2"	50	60.3	250	750	900	25 kg
140300000025	2.5"	60	76.1	300	750	900	35 kg
140300000030	3"	80	88.9	300	1000	1250	40 kg
140300000040	4"	100	114.3	400	1250	1500	80 kg
140300000050	5"	125	139.7	400	1500	1750	90 kg
140300000060	6"	150	168.3	480	1500	1750	130 kg
140300000080	8"	200	219.1	600	1750	2000	200 kg
140300000100	10"	250	273.0	700	2250	2500	300 kg
140300000120	12"	300	323.9	800	2500	2750	400 kg
140300000140	14"	350	355.6	950	3000	3250	625 kg
140300000160	16"	400	406.4	950	3500	3750	800 kg
140300000180	18"	450	457.2	1100	4000	4250	1250 kg
140300000200	20"	500	508.0	1200	4500	4750	1500 kg



Damping Of The Noise Level +/- 40 dB(A)

Damping Basics of the silencers type REAB40 are according the reflection-absorption principal

Spark Arrestor The silencers type REAB40 are excluding an integrated Spark Arrestor

Mounting The silencers type REAB40 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REAB40 are produced out of Steel 37-2 (S235JRG2)

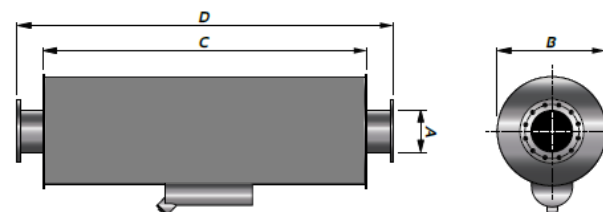
Temperature Maximum allowable temperature is 600°C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

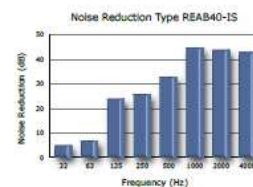
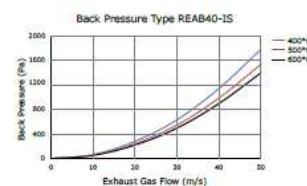
EXHAUST SILENCERS

Type REAB40-IS

Damping level 40 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
141300000020	2"	50	60.3	250	750	900	25 kg
141300000025	2.5"	60	76.1	300	750	900	35 kg
141300000030	3"	80	88.9	300	1000	1250	40 kg
141300000040	4"	100	114.3	400	1250	1500	80 kg
141300000050	5"	125	139.7	400	1500	1750	90 kg
141300000060	6"	150	168.3	480	1500	1750	130 kg
141300000080	8"	200	219.1	600	1750	2000	200 kg
141300000100	10"	250	273.0	700	2250	2500	300 kg
141300000120	12"	300	323.9	800	2500	2750	400 kg
141300000140	14"	350	355.6	950	3000	3250	625 kg
141300000160	16"	400	406.4	950	3500	3750	800 kg
141300000180	18"	450	457.2	1100	4000	4250	1250 kg
141300000200	20"	500	508.0	1200	4500	4750	1500 kg



Damping Of The Noise Level +/- 40 dB(A)

Damping Basics of the silencers type REAB40IS are according the reflection-absorption principal

Spark Arrestor The silencers type REAB40IS are including an integrated Spark Arrestor

Mounting The silencers type REAB40IS can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REAB40IS are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600°C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

Isolation
Technologie Services

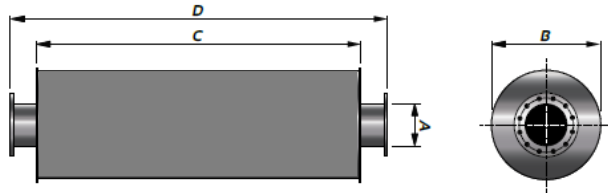
ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

EXHAUST SILENCERS

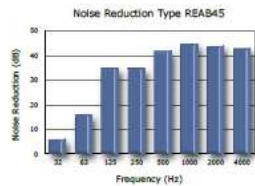
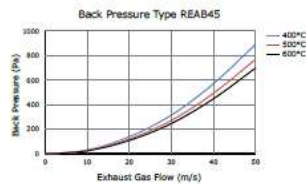
Type REAB45

Damping level 45 dB(A) without integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
140400000040	4"	100	114.3	475	1500	1750	120 kg
140400000050	5"	125	139.7	475	1500	1750	130 kg
140400000060	6"	150	168.3	560	2250	2500	200 kg
140400000080	8"	200	219.1	660	2250	2500	260 kg
140400000100	10"	250	273.0	860	2750	3000	480 kg
140400000120	12"	300	323.9	910	3000	3250	550 kg
140400000140	14"	350	355.6	960	3500	3750	690 kg
140400000160	16"	400	406.4	1060	4000	4250	1050 kg
140400000180	18"	450	457.2	1210	4500	4750	1400 kg
140400000200	20"	500	508.0	1300	5000	5250	1735 kg

18



Damping Of The Noise Level +/- 45 dB(A)

Damping Basics of the silencers type REAB45 are according the reflection-absorption principal

Spark Arrestor The silencers type REAB45 are excluding an integrated Spark Arrestor

Mounting The silencers type REAB45 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REAB45 are produced out of Steel 37-2 (S235JRG2)

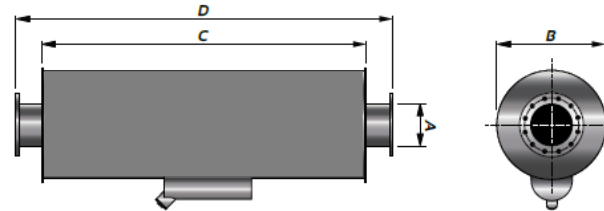
Temperature Maximum allowable temperature is 600° C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

EXHAUST SILENCERS

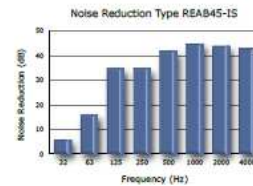
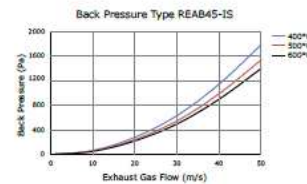
Type REAB45-IS

Damping level 45 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
141400000040	4"	100	114.3	475	1500	1750	120 kg
141400000050	5"	125	139.7	475	1500	1750	130 kg
141400000060	6"	150	168.3	560	2250	2500	200 kg
141400000080	8"	200	219.1	660	2250	2500	260 kg
141400000100	10"	250	273.0	860	2750	3000	480 kg
141400000120	12"	300	323.9	910	3000	3250	550 kg
141400000140	14"	350	355.6	960	3500	3750	690 kg
141400000160	16"	400	406.4	1060	4000	4250	1050 kg
141400000180	18"	450	457.2	1210	4500	4750	1400 kg
141400000200	20"	500	508.0	1300	5000	5250	1735 kg

19



Damping Of The Noise Level +/- 45 dB(A)

Damping Basics of the silencers type REAB45-IS are according the reflection-absorption principal

Spark Arrestor The silencers type REAB45-IS are including an integrated Spark Arrestor

Mounting The silencers type REAB45-IS can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REAB45-IS are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600° C

Custom Made silencers are also manufactured based on specific dimensions or client's requirements

Isolation
Technologie Services

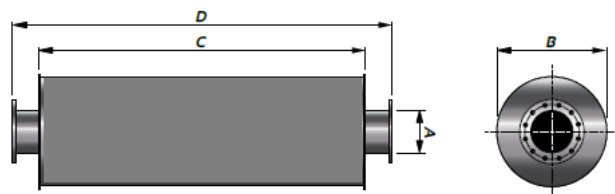
ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

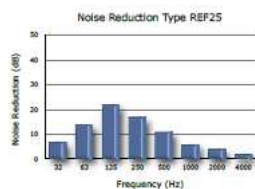
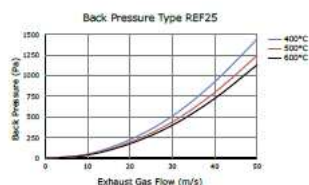
EXHAUST SILENCERS

Type REF25

Damping level 20 dB(A) without integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
150100000015	1.5"	40	48.3	200	750	900	15 kg
150100000020	2"	50	60.3	200	750	900	16 kg
150100000025	2.5"	60	76.1	260	850	1000	22 kg
150100000030	3"	80	88.9	310	850	1000	30 kg
150100000040	4"	100	114.3	360	1270	1500	50 kg
150100000050	5"	125	139.7	400	1270	1500	65 kg
150100000060	6"	150	168.3	475	1500	1750	120 kg
150100000080	8"	200	219.1	560	1750	2000	165 kg
150100000100	10"	250	273.0	635	2250	2500	230 kg
150100000120	12"	300	323.9	760	2500	2750	330 kg
150100000140	14"	350	355.6	860	2750	3000	380 kg
150100000160	16"	400	406.4	910	3000	3250	410 kg
150100000180	18"	450	457.2	960	3250	3500	480 kg
150100000200	20"	500	508.0	1060	3500	3750	705 kg



Damping Of The Noise Level +/- 20 dB(A)

Damping Basics of the silencers type REF25 are according the reflection principal

Spark Arrestor The silencers type REF25 are excluding an integrated Spark Arrestor

Mounting The silencers type REF25 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type REF25 are produced out of Steel 37-2 (S235JRG2)

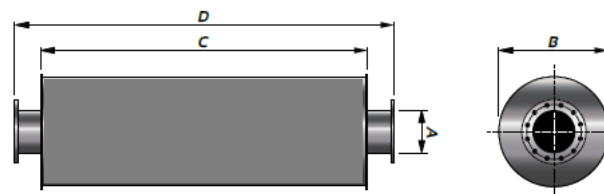
Temperature Maximum allowable temperature is 600° C

Custom Made Axes silencers are also manufactured based on specific dimensions or client's requirements

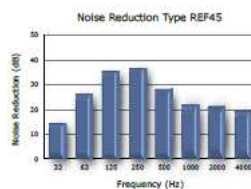
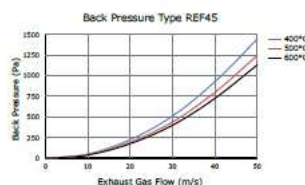
EXHAUST SILENCERS

Type REF45

Damping level 30 dB(A) without integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
150400000015	1.5"	40	48.3	260	750	900	17 kg
150400000020	2"	50	60.3	310	850	1000	25 kg
150400000025	2.5"	60	76.1	360	850	1000	30 kg
150400000030	3"	80	88.9	400	1250	1500	48 kg
150400000040	4"	100	114.3	475	1500	1750	100 kg
150400000050	5"	125	139.7	475	1750	2000	135 kg
150400000060	6"	150	168.3	560	2250	2500	180 kg
150400000080	8"	200	219.1	660	2250	2500	210 kg
150400000100	10"	250	273.0	860	2750	3000	380 kg
150400000120	12"	300	323.9	910	3000	3250	410 kg
150400000140	14"	350	355.6	960	3500	3750	560 kg
150400000160	16"	400	406.4	1060	4000	4250	750 kg
150400000180	18"	450	457.2	1210	4500	4750	1100 kg
150400000200	20"	500	508.0	1300	5000	5250	1400 kg



Damping Of The Noise Level +/- 30 dB(A)

Damping Basics of the silencers type REF45 are according the reflection principal

Spark Arrestor The silencers type REF45 are excluding an integrated Spark Arrestor

Mounting The silencers type REF45 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

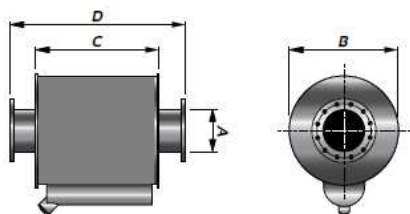
Material Silencers type REF45 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600° C

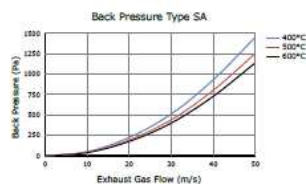
Custom Made silencers are also manufactured based on specific dimensions or client's requirements

EXHAUST SILENCERS

Spark Arrestor Type SA



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
111000000015	1.5"	40	48.3	114	118	208	2 kg
111000000020	2"	50	60.3	143	136	246	5 kg
111000000025	2.5"	60	76.1	172	186	276	7 kg
111000000030	3"	80	88.9	187	165	285	10 kg
111000000040	4"	100	114.3	243	220	360	12 kg
111000000050	5"	125	139.7	313	295	435	15 kg
111000000060	6"	150	168.3	376	325	485	20 kg
111000000080	8"	200	219.1	480	355	565	25 kg
111000000100	10"	250	273.0	564	645	895	30 kg
111000000120	12"	300	323.9	611	985	985	35 kg
111000000140	14"	350	355.6	671	800	1050	50 kg
111000000160	16"	400	406.4	751	1000	1300	80 kg
111000000180	18"	450	457.2	851	1250	1550	100 kg
111000000200	20"	500	508.0	951	1350	1640	120 kg



Function The operation of the Spark Arrestors is based on physical centrifugal forces. Gases are forced creating a rotary movements by way of a fixed number of angled positioned blades. As a result the heavy carbon particles are smoothly collected in the designed soot box

Maintenance For correct operation of the spark arrestor, it is important to remove the cap at regular intervals, so caught particles can be removed

Principal The Spark Arrestor type SA has its function to prevent materials usually sparks and other flammable carbon particles leaving the exhaust system

Spark Arrestor The Spark Arrestor type SA can be installed in exhaust systems where sparks, flammable carbon particles, or other parts have to be separated

Mounting The Spark Arrestor can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Spark Arrestors are produced out of Steel 37-2 (S235JRG2)

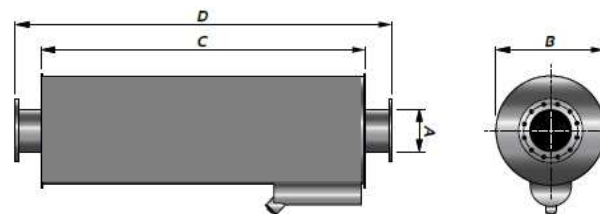
Temperature Maximum allowable temperature is 600 °C

Custom Made Spark Arrestors are also manufactured based on specific dimensions or client's requirements

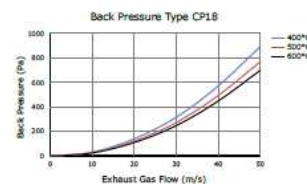
EXHAUST SILENCERS

Type CP18

Damping level 18 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
121000000015	1.5"	40	48.3	200	500	650	16 kg
121000000020	2"	50	60.3	200	500	650	16 kg
121000000025	2.5"	60	76.1	260	565	715	22 kg
121000000030	3"	80	88.9	310	565	715	26 kg
121000000040	4"	100	114.3	360	845	1075	40 kg
121000000050	5"	125	139.7	400	845	1075	50 kg
121000000060	6"	150	168.3	475	1000	1250	70 kg
121000000080	8"	200	219.1	560	1165	1415	100 kg
121000000100	10"	250	273.0	635	1500	1750	135 kg
121000000120	12"	300	323.9	760	1665	1915	185 kg
121000000140	14"	350	355.6	800	1835	2085	215 kg
121000000160	16"	400	406.4	860	2000	2250	250 kg
121000000180	18"	450	457.2	910	2165	2415	285 kg
121000000200	20"	500	508.0	960	2335	2585	320 kg



Damping Of The Noise Level +/- 18 dB(A)

Damping Basics of the silencers type CP18 are according the reflection principal

Spark Arrestor The silencers type CP18 can be installed in exhaust systems where sparks, flammable carbon particles, or other parts have to be separated

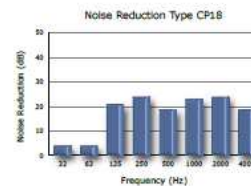
Mounting The silencers type CP18 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type CP18 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 °C

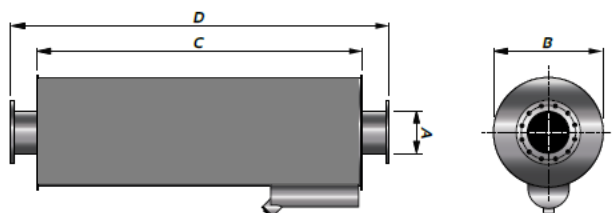
Custom Made Silencers type CP18 are also manufactured based on specific dimensions or client's requirements



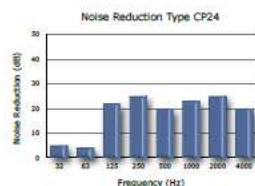
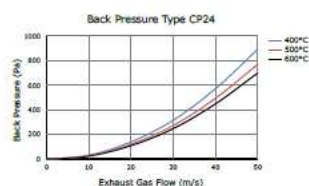
EXHAUST SILENCERS

Type CP24

Damping level 24 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
121100000020	2"	50	60.3	250	500	650	20 kg
121100000025	2.5"	60	76.1	300	500	650	25 kg
121100000030	3"	80	88.9	300	665	915	30 kg
121100000040	4"	100	114.3	400	835	1085	45 kg
121100000050	5"	125	139.7	400	1000	1250	55 kg
121100000060	6"	150	168.3	480	1000	1250	75 kg
121100000080	8"	200	219.1	600	1165	1415	105 kg
121100000100	10"	250	273.0	700	1500	1750	150 kg
121100000120	12"	300	323.9	800	1665	1915	195 kg
121100000140	14"	350	355.6	950	2000	2250	275 kg
121100000160	16"	400	406.4	950	2335	2585	305 kg
121100000180	18"	450	457.2	1100	2665	1915	405 kg
121100000200	20"	500	508.0	1200	3000	3250	510 kg



Damping Of The Noise Level +/- 24 dB(A)

Damping Basics of the silencers type CP24 are according the reflection principal

Spark Arrestor The silencers type CP24 can be installed in exhaust systems where sparks, flammable carbon particles, or other parts have to be separated

Mounting The silencers type CP24 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

Material Silencers type CP24 are produced out of Steel 37-2 (S235JRG2)

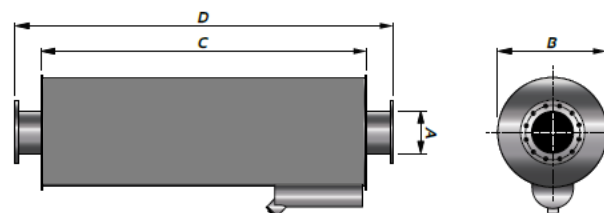
Temperature Maximum allowable temperature is 600°C

Custom Made Silencers type CP24 are also manufactured based on specific dimensions or client's requirements

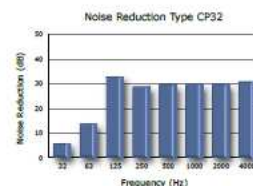
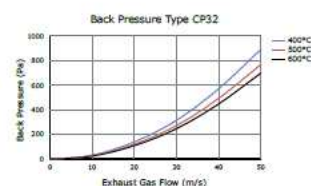
EXHAUST SILENCERS

Type CP32

Damping level 32 dB(A) with integrated Spark Arrestor



Article. No	A (inch)	NB (mm)	Pipe (mm)	B (mm)	C (mm)	D (mm)	Weight (mass)
121200000030	3"	80	88.9	380	835	1085	40 kg
121200000040	4"	100	114.3	475	1000	1250	65 kg
121200000050	5"	125	139.7	475	1000	1250	70 kg
121200000060	6"	150	168.3	560	1500	1750	110 kg
121200000080	8"	200	219.1	660	1500	1750	140 kg
121200000100	10"	250	273.0	860	1835	2085	220 kg
121200000120	12"	300	323.9	910	2000	2250	255 kg
121200000140	14"	350	355.6	960	2335	2585	310 kg
121200000160	16"	400	406.4	1060	2665	2915	380 kg
121200000180	18"	450	457.2	1210	3000	3250	510 kg
121200000200	20"	500	508.0	1300	3335	3585	575 kg



Damping Of The Noise Level +/- 32 dB(A)

Damping Basics of the silencers type CP32 are according the reflection principal

Spark Arrestor The silencers type CP32 can be installed in exhaust systems where sparks, flammable carbon particles, or other parts have to be separated

Mounting The silencers type CP32 can be installed both horizontal and vertical

Exhaust Gas Speed Advised Exhaust Gas Speed between 20-50 m/s

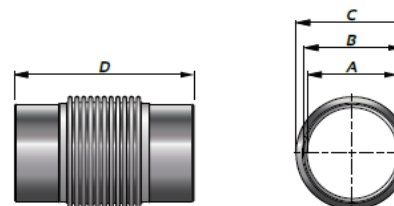
Material Silencers type CP32 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600°C

Custom Made Silencers type CP32 are also manufactured based on specific dimensions or client's requirements

Exhaust Compensators

Type AC13



Article. No	Inch	A NB	B Pipe	D Length	Movements	
					Axial +/-	Lateral +/-
331085195020	2"	050	60.3	195	35	18
331085210025	2.5"	065	76.1	210	38	16
331085250030	3"	080	88.9	250	32	22
331085290040	4"	100	114.3	290	32	28
331085305050	5"	125	139.7	305	32	22
331085305060	6"	150	168.3	305	32	20
331085310080	8"	200	219.1	310	32	16
331085320100	10"	250	273.0	320	40	17
331085320120	12"	300	323.9	320	40	15
331085320140	14"	350	355.6	330	40	14
331085340160	16"	400	406.4	340	64	13
331085340180	18"	450	457.2	340	64	11
331085340200	20"	500	508.0	340	64	10
331085350240	24"	600	609.6	350	64	9

All sizes in mm

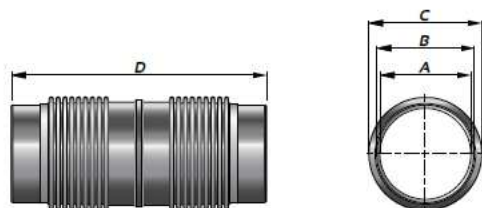
Characteristics

- stainless steel expansion joint AISI 321
- max. pressure: 2,5 bar (20 °C)
- single ply bellows material
- max. temperature: 550 °C
- carbon steel weld ends
- all are stock items
- standard length



EXHAUST COMPENSATORS

Type AC14



Article. No	Inch	A NB	B Pipe	D Length	Movements*	
					Axial +/-	Lateral +/-
331285400030	3"	080	88.9	400	80	35
331285400040	4"	100	114.3	400	69	40
331285400050	5"	125	139.7	400	70	60
331285500060	6"	150	168.3	500	75	70
331285500080	8"	200	219.1	500	75	70
331285500100	10"	250	273.0	500	55	32
331285500120	12"	300	323.9	500	64	43
331285500140	14"	350	355.6	500	64	39
331285600160	16"	400	406.4	600	90	75
331285600180	18"	450	457.2	600	90	69
331285600200	20"	500	508.0	600	90	62
331285600240	24"	600	609.6	600	90	52
331285600280	28"	700	711.2	600	90	45
331285600320	32"	800	812.8	600	90	39
331285600360	36"	900	914.4	600	90	35
331285600400	40"	1000	1016.0	600	90	31

All sizes in mm
* movements (axial/lateral) are not in combination

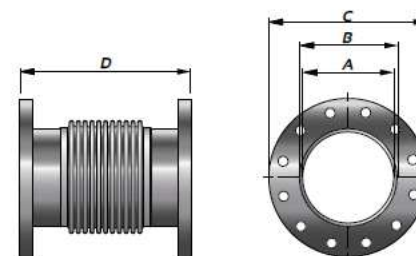
Characteristics

- stainless steel expansion joint AISI 321
- max. pressure: 2,5 bar (20 °C)
- single ply bellows material
- max. temperature: 550 °C
- twin bellows construction
- carbon steel weld ends
- all are stock items
- long length



EXHAUST COMPENSATORS

Type AC15



Article. No	Inch	A NB	B Pipe	D Length	Flange			Movements*	
					C O.D.	Holes x d	Bolt circle	Axial +/-	Lateral +/-
331405195020	2"	050	60.3	195	140	4 x 14	110	35	18
331405210025	2.5"	065	76.1	210	160	4 x 14	130	38	16
331405250030	3"	080	88.9	250	190	4 x 18	150	32	22
331405290040	4"	100	114.3	290	210	4 x 18	170	32	28
331405305050	5"	125	139.7	305	240	8 x 18	200	32	22
331405305060	6"	150	168.3	305	265	8 x 18	225	32	20
331405310080	8"	200	219.1	310	320	8 x 18	280	32	16
331405320100	10"	250	273.0	320	375	12 x 18	335	40	17
331405320120	12"	300	323.9	320	440	12 x 22	395	40	15
331405330140	14"	350	355.6	330	490	12 x 22	445	40	14
331405340160	16"	400	406.4	340	540	16 x 22	495	64	13
331405340180	18"	450	457.2	340	595	16 x 22	550	64	11
331405340200	20"	500	508.0	340	645	20 x 22	600	64	10
331405350240	24"	600	609.6	350	755	20 x 26	705	64	9

All sizes in mm
* movements (axial/lateral) are not in combination

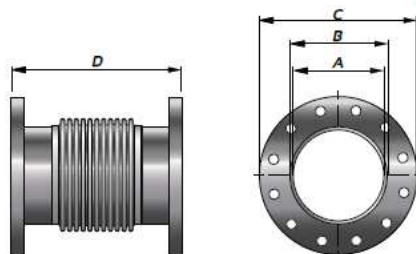
Characteristics

- fixed carbon steel flanges according to DIN 2573 PN 6
- stainless steel expansion joint AISI 321
- max. pressure: 2,5 bar (20 °C)
- single ply bellows material
- max. temperature: 550 °C
- all are stock items
- standard length



EXHAUST COMPENSATORS

Type AC16



Article. No	Inch	A NB	B Pipe	D Length	C O.D.	Flange			Movements*	
						Holes x d	Bolt circle		Axial +/-	Lateral +/-
331415195020	2"	050	60.3	195	165	4 x 18	125		35	18
331415210025	2.5"	065	76.1	210	185	4 x 18	145		38	16
331415250030	3"	080	88.9	250	200	8 x 18	160		32	22
331415290040	4"	100	114.3	290	220	8 x 18	180		32	28
331415305050	5"	125	139.7	305	250	8 x 18	210		32	22
331415305060	6"	150	168.3	305	285	8 x 22	240		32	20
331415310080	8"	200	219.1	310	340	8 x 22	295		32	16
331415320100	10"	250	273.0	320	395	12 x 22	350		40	17
331415320120	12"	300	323.9	320	445	12 x 22	400		40	15
331415330140	14"	350	355.6	330	505	16 x 22	460		40	14
331415340160	16"	400	406.4	340	565	16 x 26	515		64	13
331415340180	18"	450	457.2	340	615	20 x 26	565		64	11
331415340200	20"	500	508.0	340	670	20 x 26	620		64	10
331415350240	24"	600	609.6	350	780	20 x 30	725		64	9

All sizes in mm
* movements (axial/lateral) are not in combination

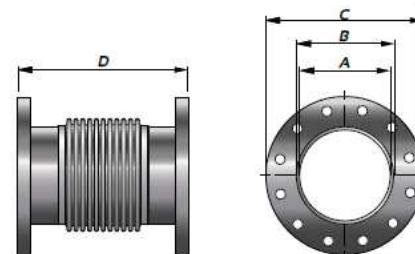
Characteristics

- fixed carbon steel flanges according to DIN 2576 PN 10
- stainless steel expansion joint AISI 321
- max. pressure: 2,5 bar (20 °C)
- single ply bellows material
- max. temperature: 550 °C
- all are stock items
- standard length



EXHAUST COMPENSATORS

Type AC17



Article. No	Inch	A NB	B Pipe	D Length	C O.D.	Flange			Movements*	
						Holes x d	Bolt circle		Axial +/-	Lateral +/-
331425195020	2"	050	60.3	195	165	4 x 18	125		35	18
331425210025	2.5"	065	76.1	210	185	4 x 18	145		38	16
331425250030	3"	080	88.9	250	200	8 x 18	160		32	22
331425290040	4"	100	114.3	290	220	8 x 18	180		32	28
331425305050	5"	125	139.7	305	250	8 x 18	210		32	22
331425305060	6"	150	168.3	305	285	8 x 22	240		32	20
331425310080	8"	200	219.1	310	320	8 x 18	280		32	16
331425320100	10"	250	273.0	320	375	12 x 18	335		40	17
331425320120	12"	300	323.9	320	440	12 x 22	395		40	15
331425330140	14"	350	355.6	330	490	12 x 22	445		40	14
331425340160	16"	400	406.4	340	540	16 x 22	495		64	13
331425340180	18"	450	457.2	340	595	16 x 22	550		64	11
331425340200	20"	500	508.0	340	645	20 x 22	600		64	10
331425350240	24"	600	609.6	350	754	20 x 22	700		64	9

All sizes in mm
* movements (axial/lateral) are not in combination

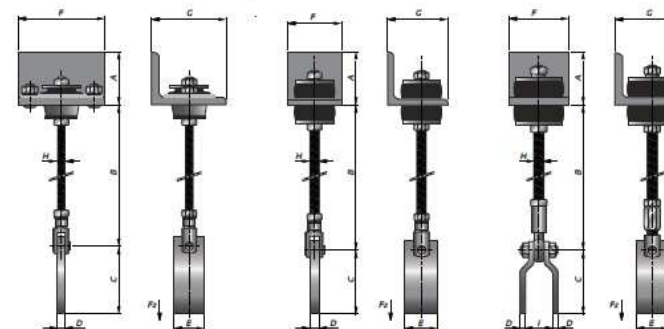
Characteristics

- fixed carbon steel flanges according to DIN 86044
- stainless steel expansion joint AISI 321
- max. pressure: 2,5 bar (20 °C)
- single ply bellows material
- max. temperature: 550 °C
- all are stock items
- standard length



Supporting Points

Sliding Supporting Points



PAX-90

PAX-300 / PAX-450

PAX-900 / PAX-2000 / PAX-3600

Type	Article. No	A	B	C	D	E	F	G	H	I	Weight	Fz max	Hardness
PAX 90 - 45°	430104510009	50	320	118	8	50	95	75	M10	-	1,4 kg	90 kg	45°
PAX 90 - 60°	430106010009	50	320	118	8	50	95	75	M10	-	1,4 kg	90 kg	60°
PAX 300 - 45°	430104512030	65	300	135	10	60	100	100	M12	-	2,6 kg	300 kg	45°
PAX 300 - 60°	430106012030	65	300	135	10	60	100	100	M12	-	2,6 kg	300 kg	60°
PAX 450 - 45°	430104516045	80	470	130	15	70	120	120	M16	-	5,0 kg	450 kg	45°
PAX 450 - 60°	430106016045	80	470	130	15	70	120	120	M16	-	5,0 kg	450 kg	60°
PAX 900 - 45°	430104524090	100	530	115	10	40	150	150	M24	70	9,7 kg	900 kg	45°
PAX 900 - 60°	430106024090	100	530	115	10	40	150	150	M24	70	9,7 kg	900 kg	60°
PAX 2000 - 45°	430104530200	100	530	130	10	50	180	200	M30	80	14,7 kg	2000 kg	45°
PAX 2000 - 60°	430106530200	100	530	130	10	50	180	200	M30	80	14,7 kg	2000 kg	60°
PAX 3600 - 45°	430104536360	100	555	215	15	65	230	200	M36	140	25,4 kg	3600 kg	45°
PAX 3600 - 60°	430106536360	100	555	215	15	65	230	200	M36	140	25,4 kg	3600 kg	60°



PAX-90



PAX-300 / PAX-450



PAX-900 / PAX-2000 / PAX-3600

32



Isolation
Technologie Services

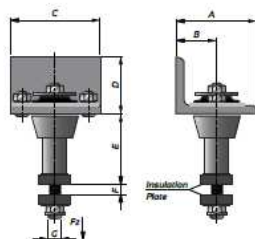
ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

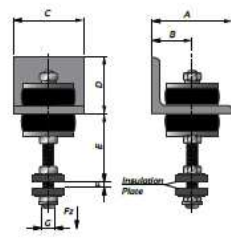
33

SUPPORTING POINTS

Hanging Supporting Points



VOAX 90 / VOAX 520 / VOAX 950



VOAX 300 / VOAX 450 /
VOAX 900 / VOAX 2000 / VOAX 3400

Type	Article. No	A	B	C	D	E	F	G	Insulation Plate	Weight	Fz max	Hardness
VOAX 90-45°	430204510009	75	40	95	50	50	Max. 20	M10	35x35x12	0.9 kg	90 kg	45°
VOAX 90-60°	430206010009	75	40	95	50	50	Max. 20	M10	35x35x12	0.9 kg	90 kg	60°
VOAX 520-45°	430204512052	100	55	110	65	88	Max. 15	M12	40x40x12	2.1 kg	520 kg	45°
VOAX 520-60°	430206012052	100	55	110	65	88	Max. 15	M12	40x40x12	2.1 kg	520 kg	60°
VOAX 520-70°	430207012052	100	55	110	65	88	Max. 15	M12	40x40x12	2.1 kg	520 kg	70°
VOAX 950-45°	430204516950	120	68	135	80	97	Max. 20	M16	50x50x12	3.8 kg	950 kg	45°
VOAX 950-60°	430206016950	120	68	135	80	97	Max. 20	M16	50x50x12	3.8 kg	950 kg	60°
VOAX 950-70°	430207016950	120	68	135	80	97	Max. 20	M16	50x50x12	3.8 kg	900 kg	70°
VOAX 300-45°	430204512030	100	55	100	65	105	-	M12	40x40x12	1.9 kg	300 kg	45°
VOAX 300-60°	430206012030	100	55	100	65	105	-	M12	40x40x12	1.9 kg	300 kg	60°
VOAX 450-45°	430204516045	120	65	120	80	100	-	M16	50x50x12	3.5 kg	450 kg	45°
VOAX 450-60°	430206016045	120	65	120	80	100	-	M16	50x50x12	3.5 kg	450 kg	60°
VOAX 900-45°	430204524090	150	80	150	100	130	-	M24	60x60x12	7.3 kg	900 kg	45°
VOAX 900-60°	430206024090	150	80	150	100	130	-	M24	60x60x12	7.3 kg	900 kg	60°
VOAX 2000-45°	430204530200	200	110	180	100	130	-	M30	70x70x16	10.1 kg	2000 kg	45°
VOAX 2000-65°	430206530200	200	110	180	100	130	-	M30	70x70x16	10.1 kg	2000 kg	65°
VOAX 3400-45°	430104536340	200	110	230	100	155	-	M36	80x80x16	17.0 kg	3400 kg	45°
VOAX 3400-65°	430106536340	200	110	230	100	155	-	M36	80x80x16	17.0 kg	3400 kg	60°

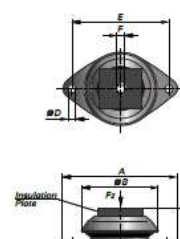


Isolation
Technologie Services

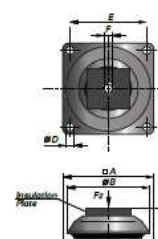
ITS
acoustique

SUPPORTING POINTS

Standing Supporting Points



OAX 225 / OAX 475



OAX 1400 / OAX 3600

Type	Article. No	A	B	C	D	E	F	Insulation Plate	Weight	Fz max	Hardness
OAX 225-45°	430304512022	134	82	45	11 (2x)	105 +5	M12	40x40x12	0.5 kg	225 kg	45°
OAX 225-55°	430305512022	134	82	45	11 (2x)	105 +5	M12	40x40x12	0.5 kg	225 kg	55°
OAX 225-65°	430306512022	134	82	45	11 (2x)	105 +5	M12	40x40x12	0.5 kg	225 kg	65°
OAX 475-45°	430304512047	170	113	55	13 (2x)	140	M12	40x40x12	1.1 kg	475 kg	45°
OAX 475-55°	430305512047	170	113	55	13 (2x)	140	M12	40x40x12	1.1 kg	475 kg	55°
OAX 475-65°	430306512047	170	113	55	13 (2x)	140	M12	40x40x12	1.1 kg	475 kg	65°
OAX 1400-45°	430304516140	168	150	66	13 (4x)	132	M16	80x80x12	2.2 kg	1400 kg	45°
OAX 1400-55°	430305516140	168	150	66	13 (4x)	132	M16	80x80x12	2.2 kg	1400 kg	55°
OAX 1400-65°	430306516140	168	150	66	13 (4x)	132	M16	80x80x12	2.2 kg	1400 kg	65°
OAX 3600-45°	430304520360	220	206	94	18 (4x)	180	M20	100x100x20	5.4 kg	3600 kg	45°
OAX 3600-55°	430305520360	220	206	94	18 (4x)	180	M20	100x100x20	5.4 kg	3600 kg	55°
OAX 3600-65°	430306520360	220	206	94	18 (4x)	180	M20	100x100x20	5.4 kg	3600 kg	65°



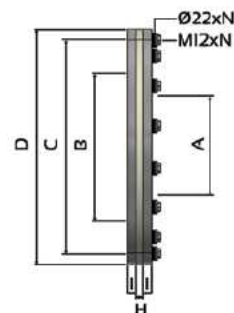
Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

HEAT REDUCING BULKHEAD

HEAT REDUCING BULKHEAD

Heat Reducing Bulkhead

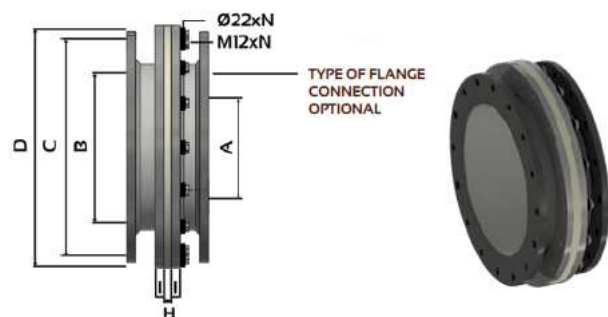
Heat Reducing Bulkhead Penetration I



Article. No	Inch	N.B.	A	B	C	D	Ø22xN	M12xN	H	I
278420000020	2"	50	60.3	171	240	285	Ø22x8	M12x8	15	16
278420000025	2.5"	60	76.1	171	240	285	Ø22x8	M12x8	15	16
278420000030	3"	80	88.9	171	240	285	Ø22x8	M12x8	15	16
278420000040	4"	100	114.3	171	240	285	Ø22x8	M12x8	15	16
278420000050	5"	125	139.7	196	270	315	Ø22x8	M12x8	15	16
278420000060	6"	150	168.3	222	295	340	Ø22x8	M12x8	15	16
278420000070	7"	175	193.7	276	350	395	Ø22x12	M12x12	15	16
278420000080	8"	200	219.1	276	350	395	Ø22x12	M12x12	15	16
278420000100	10"	250	273.0	327	395	440	Ø22x12	M12x12	20	16
278420000120	12"	300	323.9	411	495	540	Ø22x16	M12x16	20	16
278420000140	14"	350	355.6	411	495	540	Ø22x16	M12x16	20	16
278420000160	16"	400	406.4	461	550	595	Ø22x16	M12x16	20	16
278420000180	18"	450	457.0	512	600	645	Ø22x20	M12x20	20	16
278420000200	20"	500	508.0	614	700	754	Ø22x20	M12x20	20	16



*Heat Reducing
Bulkhead Penetration II*



Flanges & Gaskets

38

Article. No	Inch	N.B.	A	B	C	D	Ø22xN	M12xN	H	I
278420000020	2"	50	60.3	171	240	285	Ø22x8	M12x8	15	15
278420000025	2.5"	60	76.1	171	240	285	Ø22x8	M12x8	15	16
278420000030	3"	80	88.9	171	240	285	Ø22x8	M12x8	15	16
278420000040	4"	100	114.3	171	240	285	Ø22x8	M12x8	15	16
278420000050	5"	125	139.7	196	270	315	Ø22x8	M12x8	15	16
278420000060	6"	150	168.3	222	295	340	Ø22x8	M12x8	15	16
278420000070	7"	175	193.7	276	350	395	Ø22x12	M12x12	15	16
278420000080	8"	200	219.1	276	350	395	Ø22x12	M12x12	15	16
278420000100	10"	250	273.0	327	395	440	Ø22x12	M12x12	20	16
278420000120	12"	300	323.9	411	495	540	Ø22x16	M12x16	20	16
278420000140	14"	350	355.6	411	495	540	Ø22x16	M12x16	20	16
278420000160	16"	400	406.4	461	550	595	Ø22x16	M12x16	20	16
278420000180	18"	450	457.0	512	600	645	Ø22x20	M12x20	20	16
278420000200	20"	500	508.0	614	700	754	Ø22x20	M12x20	20	16

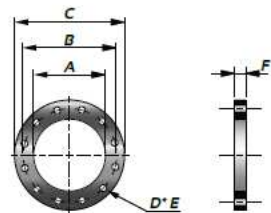


39



FLANGES

Type DIN 2573 PN6



Graphite Gasket
Full Face

Graphite Gasket
Circular Ring



AXCES Article. No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flanges	Weight of flange
212000120010	1"	25	33.4	35	75	100	4	11	12	1 kg
212000120013	1.25"	32	42.2	43	90	120	4	14	12	1 kg
212000120015	1.5"	40	48.3	49	100	130	4	14	12	1 kg
212000120020	2"	50	60.3	61	110	140	4	14	12	2 kg
212000120025	2.5"	65	76.1	73	130	160	4	14	12	2 kg
212000120030	3"	80	88.9	90	150	190	4	18	12	2 kg
212000120040	4"	100	114.3	116	170	210	4	18	12	2 kg
212000160050	5"	125	139.7	142	200	240	8	18	16	4 kg
212000160060	6"	150	168.3	171	225	265	8	18	16	4 kg
212000160080	8"	200	219.1	222	280	320	8	18	16	5 kg
212000160100	10"	250	273.0	276	335	375	12	18	16	6 kg
212000160120	12"	300	323.9	327	395	440	12	22	16	8 kg
212000160140	14"	350	355.6	360	445	490	12	22	16	10 kg
212000160160	16"	400	406.4	411	495	540	16	22	16	11 kg
212000160180	18"	450	457.2	461	550	595	16	22	16	13 kg
212000200200	20"	500	508.0	512	600	645	20	22	16	14 kg
212000200240	24"	600	609.6	614	705	755	20	26	20	22 kg
212000200280	28"	700	711.2	716	810	860	24	26	20	25 kg
212000200320	32"	800	812.8	818	920	975	24	30	20	31 kg
212000200360	36"	900	914.4	920	1020	1075	24	30	20	35 kg
212000200400	40"	1000	1016.0	1022	1120	1022	28	30	20	38 kg

All sizes in mm

Flanges

Hole pattern according type DIN 2573 - PN6

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 33,4 mm up to 1016 mm

Thickness

From minimum 12 mm up to maximum 20 mm

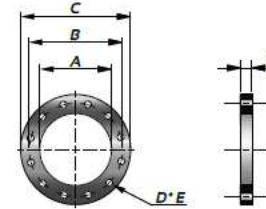
Temperature

The maximum allowable temperature is 600 °C



FLANGES

Type DIN 2576 PN10



Graphite Gasket
Full Face

Graphite Gasket
Circular Ring



AXCES Article. No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flanges	Weight of flange
212010120010	1"	25	33.4	35	85	115	4	14	12	1 kg
212010120013	1.25"	32	42.2	43	100	140	4	18	12	1 kg
212010120015	1.5"	40	48.3	49	110	150	4	18	12	1 kg
212010120020	2"	50	60.3	61	125	165	4	18	12	2 kg
212010120025	2.5"	65	76.1	77	145	185	4	18	12	2 kg
212010120030	3"	80	88.9	90	160	200	8	18	12	2 kg
212010120040	4"	100	114.3	116	180	220	8	18	12	2 kg
212010160050	5"	125	139.7	142	210	250	8	18	16	4 kg
212010160060	6"	150	168.3	171	240	285	8	22	16	4 kg
212010160080	8"	200	219.1	222	295	340	8	22	16	5 kg
212010160100	10"	250	273.0	276	350	395	12	22	16	6 kg
212010160120	12"	300	323.9	327	400	445	12	22	16	8 kg
212010200140	14"	350	355.6	360	460	505	16	22	20	10 kg
212010200160	16"	400	406.4	411	515	565	16	26	20	11 kg
212010200180	18"	450	457.2	461	565	615	20	26	20	13 kg
212010200200	20"	500	508.0	512	620	670	20	26	20	14 kg
212010200240	24"	600	609.6	614	725	780	20	30	20	22 kg
212010200280	28"	700	711.2	716	840	895	24	30	20	25 kg
212010200320	32"	800	812.8	818	950	1015	24	33	20	31 kg
212010200360	36"	900	914.4	920	1050	1115	28	33	20	35 kg
212010200400	40"	1000	1016.0	1022	1160	1230	28	36	20	38 kg

All sizes in mm

Flanges

Hole pattern according type DIN 2576 - PN10

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 33,4 mm up to 1016 mm

Thickness

From minimum 12 mm up to maximum 20 mm

Temperature

The maximum allowable temperature is 600 °C



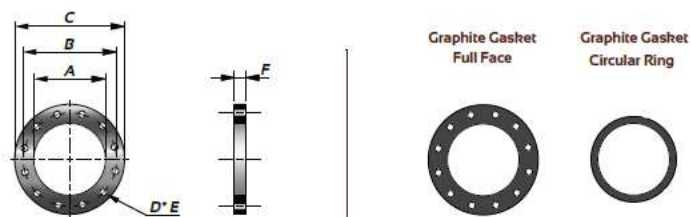
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

FLANGES

Type DIN 86044



AXCES Article. No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flanges	Weight of flange
212020160100	10"	250	273.0	276	335	375	12	18	16	6 kg
212020160120	12"	300	323.9	327	395	440	12	22	16	8 kg
212020160140	14"	350	355.6	360	445	490	12	22	16	10 kg
212020160160	16"	400	406.4	411	495	540	16	22	16	11 kg
212020160180	18"	450	457.2	461	550	595	16	22	16	13 kg
212020160200	20"	500	508.0	512	600	645	20	22	16	14 kg
212020200220	22"	550	560.0	563	650	703	20	22	20	20 kg
212020200240	24"	600	609.6	614	700	754	20	22	20	22 kg
212020200260	26"	650	664.0	665	750	805	20	22	20	24 kg
212020200280	28"	700	711.2	716	800	856	24	22	20	25 kg
212020200300	30"	750	762.0	767	850	907	24	22	20	27 kg
212020200320	32"	800	812.8	818	900	958	24	22	20	29 kg
212020200360	36"	900	914.4	920	1010	1060	28	22	20	32 kg
212020200380	38"	950	968.0	970	1060	1110	28	22	20	34 kg
212020200400	40"	1000	1016.0	1022	1110	1167	32	22	20	36 kg
212020200440	44"	1100	1120.0	1126	1210	1266	32	22	20	39 kg
212020200480	48"	1200	1220.0	1226	1310	1366	36	22	20	42 kg
212020200520	52"	1300	1324.0	1326	1410	1466	40	22	20	45 kg

All sizes in mm

Flanges

Hole pattern according type DIN 86044

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 273 mm up to 1324 mm

Thickness

From minimum 16 mm up to maximum 20 mm

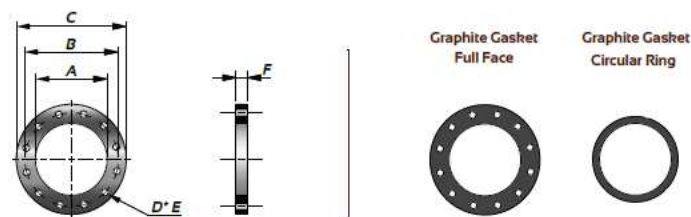
Temperature

The maximum allowable temperature is 600 °C



FLANGES

Type ANSI 150



AXCES Article. No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flanges	Weight of flange
212030150010	1"	25	33.4	35	79	110	4	16	15	1 kg
212030160013	1.25"	32	42.2	43	89	120	4	16	16	1 kg
212030180015	1.5"	40	48.3	49	99	130	4	16	18	1 kg
212030200020	2"	50	60.3	61	121	150	4	19	20	2 kg
212030230025	2.5"	65	76.1	73	140	180	4	19	23	4 kg
212030240030	3"	80	88.9	90	153	190	4	19	24	4 kg
212030240040	4"	100	114.3	116	191	230	8	19	24	6 kg
212030240050	5"	125	139.7	142	216	255	8	22	24	6 kg
212030260060	6"	150	168.3	171	242	280	8	22	26	8 kg
212030290080	8"	200	219.1	222	299	345	8	22	29	13 kg
212030310100	10"	250	273.0	276	362	405	12	26	31	17 kg
212030320120	12"	300	323.9	327	432	485	12	26	32	27 kg
212030350140	14"	350	355.6	360	476	535	12	30	35	35 kg
212030370160	16"	400	406.4	411	540	600	16	30	37	42 kg
212030400180	18"	450	457.2	461	578	635	16	33	40	53 kg
212030430200	20"	500	508.0	512	635	700	20	33	43	65 kg
212030480240	24"	600	609.6	614	750	815	20	36	48	92 kg

All sizes in mm

Flanges

Hole pattern according type AXCES Standard

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 33,4 mm up to 609,6 mm

Thickness

From minimum 15 mm up to maximum 48 mm

Temperature

The maximum allowable temperature is 600 °C



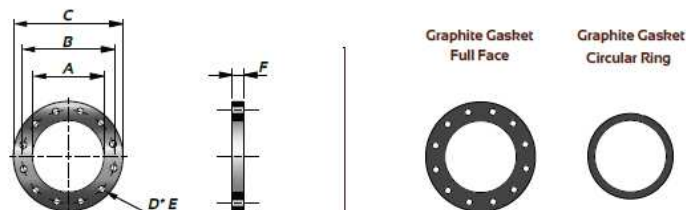
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

FLANGES

Type JIS B2220 5K



AXCES Article No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flange	Weight of flange
212040100010	1"	25	33.4	35	75	95	4	12	10	1 kg
212040100013	1.25"	32	42.2	43	90	115	4	15	12	1 kg
212040100015	1.5"	40	48.3	49	95	120	4	15	12	1 kg
212040140020	2"	50	60.3	61	105	130	4	15	14	1 kg
212040140025	2.5"	65	76.1	77	130	155	4	15	14	2 kg
212040140030	3"	80	88.9	90	145	180	4	19	14	2 kg
212040160040	4"	100	114.3	116	165	200	8	19	16	2 kg
212040160050	5"	125	139.7	142	200	235	8	19	16	3 kg
212040180060	6"	150	168.3	167	230	265	8	19	18	4 kg
212040200080	8"	200	219.1	218	280	320	8	23	20	6 kg
212040220100	10"	250	273.0	270	345	385	12	23	22	9 kg
212040220120	12"	300	323.9	321	390	430	12	23	22	10 kg
212040240140	14"	350	355.6	358	435	480	12	25	24	14 kg
212040240160	16"	400	406.4	409	495	540	16	25	24	17 kg
212040240180	18"	450	457.2	460	555	605	16	25	24	22 kg
212040240200	20"	500	508.0	511	605	655	20	25	24	23 kg
212040260240	24"	600	609.6	613	735	770	20	27	26	32 kg
212040260280	28"	700	711.2	715	820	875	24	27	26	38 kg
212040280320	32"	800	812.8	817	930	995	24	33	28	52 kg
212040300360	36"	900	914.4	919	1030	1095	24	33	30	61 kg
212040320400	40"	1000	1016.0	1021	1130	1195	28	33	32	71 kg

All sizes in mm

Flanges

Hole pattern according type JIS Standard

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 33,4 mm up to 1016 mm

Thickness

From minimum 10 mm up to maximum 32 mm

Temperature

The maximum allowable temperature is 600 °C

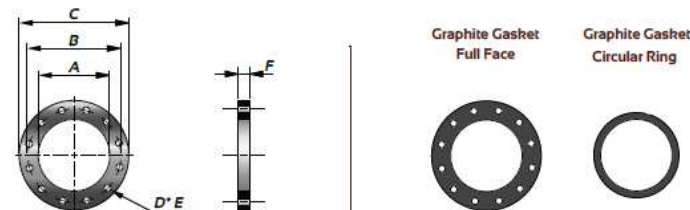


Isolation
Technologie Services

ITS
acoustique

FLANGES

Type JIS B2220 10K



AXCES Article No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flange	Weight of flange
212050140010	1"	25	34.5	35	90	125	4	19	14	1 kg
212050160013	1.25"	32	43.2	43	100	135	4	19	16	2 kg
212050160015	1.5"	40	49.1	49	105	140	4	19	16	2 kg
212050160020	2"	50	61.1	61	120	155	4	19	16	2 kg
212050180025	2.5"	65	77.1	77	140	175	4	19	18	3 kg
212050180030	3"	80	90.0	90	150	185	8	19	18	3 kg
212050180040	4"	100	115.4	116	175	210	8	19	18	3 kg
212050200050	5"	125	141.2	142	210	250	8	23	20	5 kg
212050220060	6"	150	166.6	167	240	280	8	23	22	6 kg
212050220080	8"	200	218.0	218	290	330	12	23	22	8 kg
212050240100	10"	250	269.5	270	355	400	12	25	24	12 kg
212050240120	12"	300	321.0	321	400	445	16	25	24	14 kg
212050260140	14"	350	358.1	358	445	490	16	25	26	16 kg
212050280160	16"	400	409.0	409	510	560	16	27	28	23 kg
212050300180	18"	450	460.0	460	565	620	20	27	30	30 kg
212050300200	20"	500	511.0	511	620	675	20	27	30	34 kg
212050320240	24"	600	613.0	613	730	795	24	33	32	46 kg
212050340280	28"	700	715.0	715	840	905	24	33	34	60 kg
212050360320	32"	800	817.0	817	950	1020	28	33	36	76 kg
212050380360	36"	900	919.0	919	1050	1120	28	33	38	89 kg
212050400400	40"	1000	1021.0	1021	1160	1235	28	39	40	109 kg

All sizes in mm

Flanges

Hole pattern according type JIS Standard

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 34,5 mm up to 1021 mm

Thickness

From minimum 14 mm up to maximum 40 mm

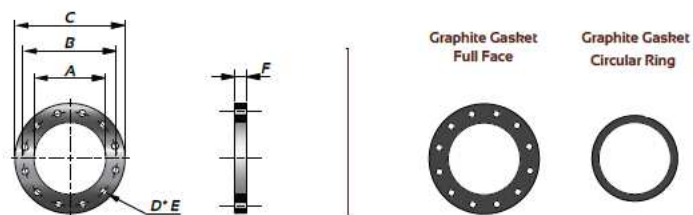
Temperature

The maximum allowable temperature is 600 °C



Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

Type Axces Standard



AXCES Article. No	Inch	NB	Pipe	A inside diameter	B pitch circle diameter	C outside diameter	D number of holes	E diameter of holes	F thickness of flange	Weight of flange
212060110010	1"	25	33.4	35	66	93	4	12	10	1 kg
212060110013	1.25"	32	42.2	43	68	96	4	12	10	1 kg
212060110015	1.5"	40	48.3	49	75	103	4	12	10	1 kg
212060110020	2"	50	60.3	61	97	129	4	14	10	1 kg
212060110025	2.5"	65	76.1	77	108	140	4	14	10	1 kg
212060120030	3"	80	88.9	90	132	169	4	18	12	1 kg
212060120040	4"	100	114.3	116	154	191	4	18	12	2 kg

All sizes in mm

Flanges

Hole pattern according type ANSI Standard

Material

Flanges are produced out of Steel S235JRG2

Range

Diameter range from 33,4 mm up to 114,3 mm

Thickness

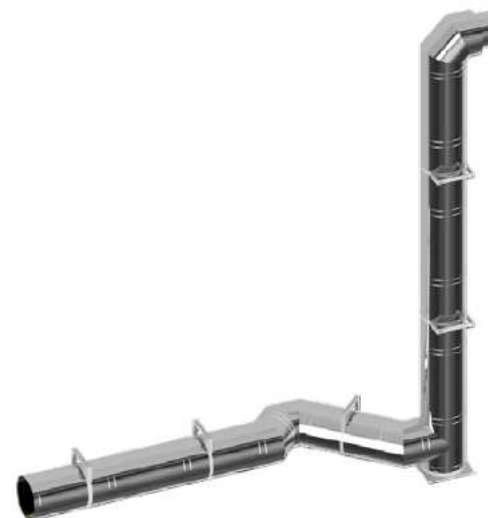
From minimum 10 mm up to maximum 12 mm

Temperature

The maximum allowable temperature is 600 °C

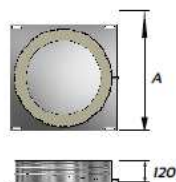


Chimney Elements



CHIMNEY ELEMENTS

Base Element

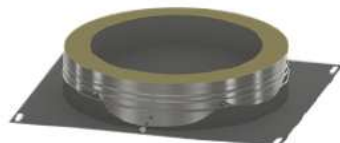


Type ASKFTG

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	190	210	240	260	280	310	360	410	460	510	560	610	710
insulation 60	A	250	270	300	320	350	370	420	470	520	570	620	670	770

Type ASKFKS

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	190	210	240	260	280	310	360	410	460	510	560	610	710
insulation 60	A	250	270	300	320	350	370	420	470	520	570	620	670	770



"HOT" SYSTEM TYPE ASKFTG

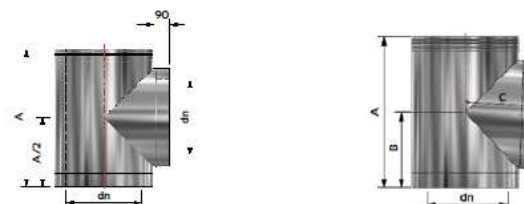
- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASKFKS

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Side Connection 90°/87°



Type ASFTSG 90°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	330	370	400	420	450	470	520	570	620	670	720	770	870
insulation 60	A	410	430	460	480	510	530	580	630	680	730	780	830	930

Type ASFKS 87°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	350	205	400	400	450	450	500	520	570	620	670	720	870
insulation 30	B	179	186	205	206	231	232	257	268	294	321	347	373	400
insulation 30	C	164	174	190	201	216	227	240	253	280	306	332	359	400



"HOT" SYSTEM TYPE ASFTSG

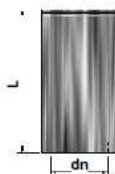
- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASFKS

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Straight Element



Type ASRTG

length	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Type ASRTK

length	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



"HOT" SYSTEM TYPE ASRTG

- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ 1A404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASRTK

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C
- ✓ 1A404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Elbow 15°



Type ASBG TG 15°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	105	106	108	109	111	112	115	119	122	125	129	132	160
insulation 60	A	150	170	170	170	170	170	170	190	190	190	220	220	230

Type ASBGK 15°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	104	106	108	109	111	112	114	115	119	122	125	129	132



"HOT" SYSTEM TYPE ASBG TG

- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ 1A404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASBGK

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C
- ✓ 1A404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Elbow 30°



Type ASBGTG 30°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	113	115	120	123	127	130	137	143	150	157	163	170	200
insulation 60	A	150	160	170	170	190	190	190	220	220	220	250	250	255

52

Type ASBGK 30°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	114	116	120	123	127	130	133	137	143	150	157	163	170



"HOT" SYSTEM TYPE ASBGTG

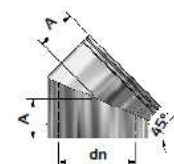
- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ L4404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASBGK

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C
- ✓ L4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Elbow 45°



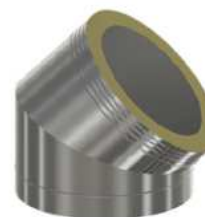
Type ASBGTG 45°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	124	128	134	138	145	149	159	170	180	190	201	211	232
insulation 60	A	138	142	148	153	153	159	173	184	194	204	215	225	247

Type ASBGK 45°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	124	128	134	138	145	149	154	159	170	180	190	201	211

53



"HOT" SYSTEM TYPE ASBGTG

- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ L4404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASBGK

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C
- ✓ L4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

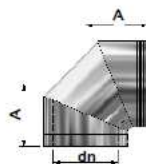
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

CHIMNEY ELEMENTS

Elbow 90°



Type ASBGTG 90°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	210	223	241	254	261	271	278	303	328	353	378	403	470
insulation 60	A	225	235	250	260	275	285	310	335	360	385	410	435	500

Type ASBGK 93°

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	189	198	213	222	236	246	258	270	293	317	341	365	388



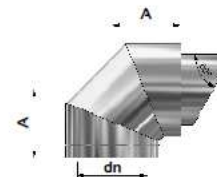
"HOT" SYSTEM TYPE ASBGTG

- ✓ Temperatures up to 600°C.
- ✓ Pressure up to 5000 Pa.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASBGK

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

End Pipe



Type ASTH

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	210	223	241	254	251	271	278	303	328	353	378	403	470
insulation 60	A	225	235	250	260	275	285	310	335	335	385	410	435	500

Type ASTW

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	210	223	241	254	251	271	278	303	328	353	378	403	470
insulation 60	A	225	235	250	260	275	285	310	335	335	385	410	435	500



"HOT" SYSTEM TYPE ASTH

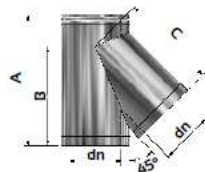
- ✓ Temperatures up to 600°C.
- ✓ Pressure up to 5000 Pa.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASTW

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C.
- ✓ 1.4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Side Connection 45°



Type ASKDT

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	510	540	570	570	650	650	820	820	1000	1000	1000	1250	1400
	B	335	355	380	390	445	454	464	589	704	729	789	904	1030
	C	350	370	409	433	469	493	574	634	694	755	815	925	1047
insulation 60	A	510	530	580	600	650	680	750	830	910	1000	1070	1150	1300
	B	355	375	415	435	475	500	560	625	690	760	820	885	1000
	C	350	370	405	430	470	495	555	615	675	735	795	860	990

Type ASIKKD

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	430	430	500	500	550	580	615	650	720	800	870	940	1020
	B	285	295	345	355	395	420	450	480	540	605	665	725	790
	C	285	295	345	355	420	420	420	480	480	605	665	725	790



"HOT" SYSTEM TYPE ASKDT

- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa
- ✓ 14404 (AISI 316L) flue
- ✓ Gas & Diesel engines
- ✓ 30mm or 60mm insulation wool
- ✓ Internal thermal expansion
- ✓ CE marking
- ✓ Light weighted
- ✓ Nice shining appearance
- ✓ Easy to install

"WET" SYSTEM TYPE ASKDT

- ✓ Condensing boiler ducting / chimneys
- ✓ Temperatures below dewpoint up to 200°C
- ✓ 14404 (AISI 316L) flue
- ✓ Boilers and process lines
- ✓ 30mm insulation wool
- ✓ Internal thermal expansion
- ✓ CE marking
- ✓ Light weighted
- ✓ Nice shining appearance
- ✓ Easy to install

CHIMNEY ELEMENTS

Variable Straight Pipe



Type ASRTJ

	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
Lmin	370	370	370	370	370	370	370	370	370	370	370	370	370
Lmax	500	500	500	500	500	500	500	500	500	500	500	500	500

Type ASRKJ

	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
Lmin	370	370	370	370	370	370	370	370	370	370	370	370	370
Lmax	500	500	500	500	500	500	500	500	500	500	500	500	500



"HOT" SYSTEM TYPE ASRTJ

- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa
- ✓ 14404 (AISI 316L) flue
- ✓ Gas & Diesel engines
- ✓ 30mm or 60mm insulation wool
- ✓ Internal thermal expansion
- ✓ CE marking
- ✓ Light weighted
- ✓ Nice shining appearance
- ✓ Easy to install

"WET" SYSTEM TYPE ASRKJ

- ✓ Condensing boiler ducting / chimneys
- ✓ Temperatures below dewpoint up to 200°C
- ✓ 14404 (AISI 316L) flue
- ✓ Boilers and process lines
- ✓ 30mm insulation wool
- ✓ Internal thermal expansion
- ✓ CE marking
- ✓ Light weighted
- ✓ Nice shining appearance
- ✓ Easy to install

56

57

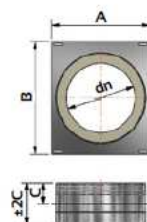
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

CHIMNEY ELEMENTS

Intermediate Element



Type ASKFSG

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500	Ø600
insulation 30	A	190	210	240	260	290	310	360	410	460	510	560	610	710
	B	270	290	320	340	370	390	440	490	540	590	640	690	790
insulation 60	A	250	270	300	320	350	370	420	470	520	570	620	670	770
	B	330	350	380	400	430	450	500	550	600	650	700	750	850

Type ASKFSK

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	190	210	240	260	290	310	360	410	460	510	560	610	710
	B	270	290	320	340	370	390	440	490	540	590	640	690	790
insulation 60	A	250	270	300	320	350	370	420	470	520	570	620	670	770
	B	330	350	380	400	430	450	500	550	600	650	700	750	850



"HOT" SYSTEM TYPE ASKFSG

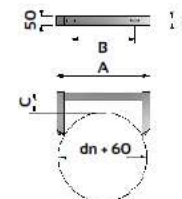
- ✓ Temperatures up to 600°C
- ✓ Pressure up to 5000 Pa.
- ✓ 14404 (AISI 316L) flue.
- ✓ Gas & Diesel engines.
- ✓ 30mm or 60mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

"WET" SYSTEM TYPE ASKFSK

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C.
- ✓ 14404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

CHIMNEY ELEMENTS

Construction Clamp



Type WHT 1

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	180	198	222	240	266	283	305	326	370	413	456	500	540
	B	100	118	142	160	186	203	225	246	290	322	376	420	463

Type WHT 2

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	180	198	222	240	266	283	305	326	370	413	456	500	540
	B	100	118	142	160	186	203	225	246	290	322	376	420	463

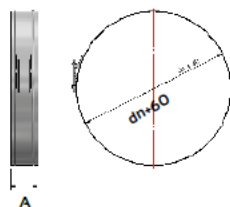
Type WHT 3

	dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
insulation 30	A	180	198	222	240	266	283	305	326	370	413	456	500	540
	B	100	118	142	160	186	203	225	246	290	322	376	420	463



"WET" SYSTEM TYPE WHT

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C.
- ✓ 14404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

Clamping Band

Type ASKBTS

dn	Ø80	Ø100	Ø130	Ø150	Ø180	Ø200	Ø225	Ø250	Ø300	Ø350	Ø400	Ø450	Ø500
A	84	84	84	84	84	84	84	84	84	84	84	84	84

60



"WET" SYSTEM TYPE ASKBTS

- ✓ Condensating boiler ducting / chimneys.
- ✓ Temperatures below dewpoint up to 200°C
- ✓ L4404 (AISI 316L) flue.
- ✓ Boilers and process lines.
- ✓ 30mm Insulation wool.
- ✓ Internal thermal expansion.
- ✓ CE marking.
- ✓ Light weighted.
- ✓ Nice shining appearance.
- ✓ Easy to install.

61



Isolation
Technologie Services

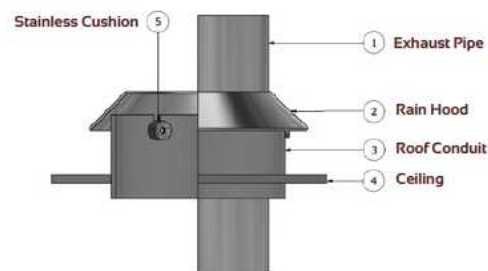
ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

ROOF EXIT

RAIN CAP

Roof Exit Set



Article. No	N.B.	A	B	C	D	E	F	G	Weight
258001000005	50	60.3	109.8	5.6	130	2	215	75	3.5 kg
258001000006	60	76.1	127.1	6.3	130	2	230	75	4.0 kg
258001000008	80	88.9	136.0	5	130	3	240	75	4.0 kg
258001000010	100	114.2	161.0	5	130	3	265	75	4.5 kg
258001000013	125	139.7	187.0	6	130	3	290	75	6.0 kg
258001000015	150	168.3	215.0	8	160	3	318	75	9.5 kg
258001000020	200	219.1	266.0	8	160	3	369	75	11.0 kg
258001000025	250	273.0	320.0	8	160	3	423	75	13.0 kg
258001000030	300	323.9	370.0	8	160	4	474	75	15.0 kg
258001000035	350	355.6	402.0	8	200	4	506	75	20.0 kg
258001000040	400	406.4	453.0	8	200	4	556	75	22.5 kg
258001000045	450	457.2	505.0	8	200	5	607	75	25.5 kg
258001000050	500	508.0	555.0	8	200	5	658	75	27.5 kg
258001000060	600	608.0	655.0	8	200	5	758	75	32.0 kg
258001000070	700	711.0	758.0	8	200	5	862	75	37.0 kg
258001000080	800	813.0	860.0	8	200	8	970	75	42.5 kg
258001000090	900	914.0	961.0	8	200	8	1065	75	47.0 kg
258001000100	1000	1016.0	1063.0	8	200	8	1173	75	52.5 kg



- Characteristics
- ✓ Stainless Steel
 - ✓ Silent
 - ✓ Balanced
 - ✓ Maintenance Free
 - ✓ Sustainable
 - ✓ Easy to Install

Rain cap

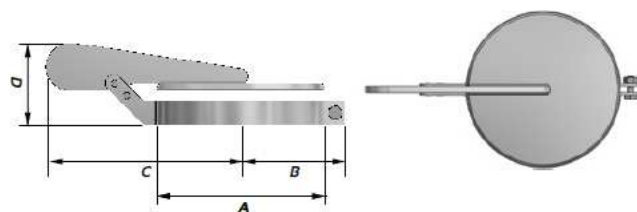


Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

Rain Cap



Article No.	NB	Inch	A (mm)	B (mm)	C (mm)	D (mm)
258001000005	40	1	48.3	62	138	82
258001000006	50	2	60.3	68	143	82
258001000009	65	2.5	76.1	76	151	82
258001000010	80	3	88.9	83	158	87
258001000013	100	4	114.3	95	170	87
258001000015	125	5	139.7	108	272	97
258001000020	150	6	168.3	123	297	97
258001000025	200	8	219.1	148	310	97
258001000030	250	10	273.0	174	345	97
258001000035	250	10	273.0	165	280	110
258001000040	300	12	323.9	180	290	125
258001000045	350	14	355.6	200	300	125



Characteristics

- ✓ Stainless Steel
- ✓ Silent
- ✓ Balanced
- ✓ Maintenance Free
- ✓ Sustainable
- ✓ Easy to Install

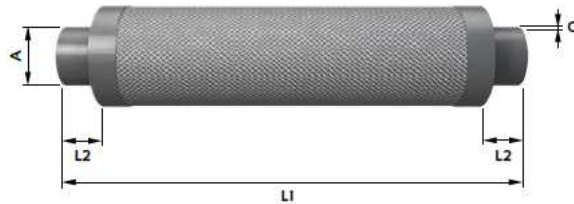
Flexible hoses



FLEXIBLE HOSES

VALVES

Flexible Hose



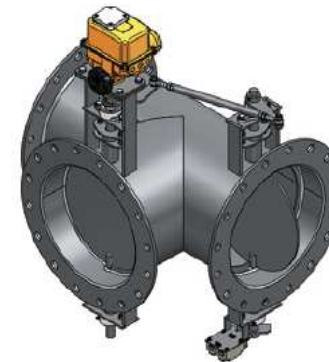
Article No.	A (inch)	NB (mm)	Pipe (mm)	L1 (mm)	L2 (mm)	C (mm)	R (mm)	M (mm)	Weight (mass)
230100000010	1"	25	33,4	300	45	2,6	200	7	0,5 kg
230100000013	1,25"	32	42,2	300	45	2,6	250	6	0,6 kg
230100000015	1,5"	40	46,3	300	45	2,6	250	6	0,8 kg
230100000020	2"	50	60,3	400	45	2,9	350	9	1 kg
230100000025	2,5"	60	76,1	400	45	2,9	410	7	1,5 kg
230100000030	3"	80	88,9	500	45	3,2	450	12	2 kg
230100000040	4"	100	114,3	500	45	3,6	560	12	3 kg
230100000050	5"	125	139,7	500	45	3,6	710	8	3,5 kg
230100000060	6"	150	168,3	500	45	3,6	815	7	4,5 kg



Characteristics

- ✓ expansion joint s.s. AISI 321
- ✓ max. pressure: 2,5 bar (20 °C)
- ✓ single ply bellows material
- ✓ max. temperature: 550 °C
- ✓ carbon steel weld ends
- ✓ all are stock items
- ✓ standard length

Valves



07

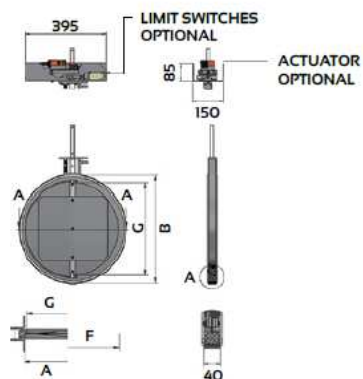
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

VALVES

Type AV10



Article No.	A (mm)	B (mm)	E2 (mm)	E2 (mm)	F (mm)	G (mm)
211000060171	171	225	202	220	165	147
211000060221	221	275	252	270	215	197
211000060270	270	325	302	320	265	247
211000060321	321	425	352	370	315	297
211000060371	371	475	402	420	365	347
211000060471	471	525	502	520	465	447
211000060571	571	625	625	620	565	547
211000060671	671	725	702	720	665	647



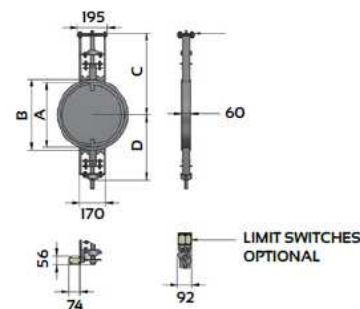
Material Valves type AV10 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 ° C

Custom Made Axces Valves are also manufactured based on specific dimensions or client's requirements

VALVES

Type AV20



Article No.	A (mm)	B (mm)	C (mm)	D (mm)
211000000171	171	225	202	220
211000000221	221	275	252	270
211000000270	270	325	302	320
211000000321	321	425	352	370
211000000371	371	475	402	420
211000000471	471	525	502	520
211000000571	571	625	625	620
211000000671	671	725	702	720



Material Valves type AV20 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 ° C

Custom Made Axces Valves are also manufactured based on specific dimensions or client's requirements

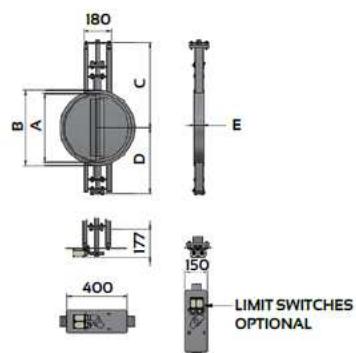
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

VALVES

Type AV30



Article No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
210200000122	122	160	320	198	50
210200000158	158	192	279	157	50
210200000212	212	242	361	239	50
210200000288	288	318	469	347	60
210200000338	338	368	494	372	60
210200000350	350	390	505	383	60
210200000420	420	460	543	421	60
210200000450	450	490	555	433	60
210200000500	500	540	580	458	60
210200000600	600	640	730	608	80
210200000710	710	750	785	663	80
210200000800	800	840	830	708	80
210200000900	900	940	880	758	80
210200001000	1000	1040	990	868	80



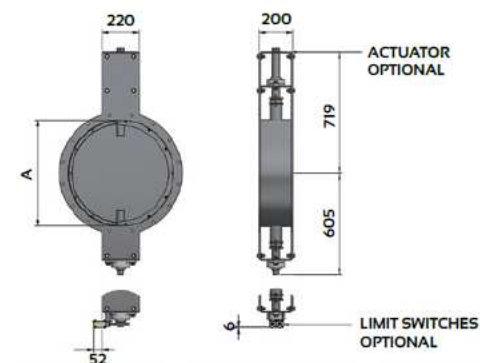
Material Valves type AV30 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 ° C

Custom Made Axes Valves are also manufactured based on specific dimensions or client's requirements

VALVES

Type AV40



Article No.	A (mm)	B (mm)	C (mm)
210030000213	213	407	355
210030000248	248	427	367
210030000319	319	464	420
210030000350	350	480	448
210030000400	400	504	470
210030000450	450	530	490
210030000509	509	555	515
210030000600	600	706	590
210030000700	700	755	680
210030000800	800	800	690
210030000900	900	850	740
210030001000	1000	905	790
210030001200	1200	1000	890



Material Valves type AV40 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 ° C

Custom Made Axes Valves are also manufactured based on specific dimensions or client's requirements

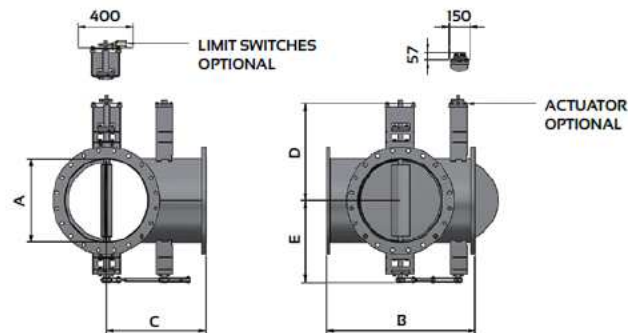
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

VALVES

Type AV50



72

Article No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
210004000213	213	400	200	407	355
210004000248	248	500	250	427	367
210004000319	319	600	300	464	420
210004000350	350	700	350	480	448
210004000400	400	800	400	504	470
210004000450	450	900	450	530	490
210004000509	509	1000	500	555	515
210004000600	600	1200	600	706	590
210004000700	700	1400	700	755	680
210004000800	800	1600	800	800	690
210004000900	900	1800	900	850	740
210004001000	1000	2000	1000	905	790
210004001200	1200	2400	1200	1000	890



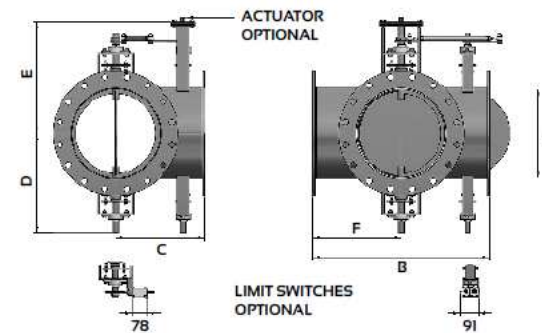
Material Valves type AV50 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 °C

Custom Made Axes Valves are also manufactured based on specific dimensions or client's requirements

VALVES

Type AV60 Type AV61



AV60

AV61

Article No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
210000500158	158	300	200	193	196	500	290	201,5
210000500213	213	400	225	335	407	605	372,5	233
210000500248	248	500	250	347	427	675	425	255
210000500319	319	600	300	400	464	821	532,5	285,5
210000500350	350	700	350	428	480	875	575	300
210000500400	400	800	400	450	504	975	650	325
210000500450	450	900	450	470	530	1075	725	350
210000500509	509	1000	500	495	555	1225	800	375
210000500600	600	1200	600	570	706	1375	948	423
210000500700	700	1400	700	660	755	1497	1100	493
210000500800	800	1600	800	670	800	1775	1250	525
210000500900	900	1800	900	720	850	1975	1400	575
210000501000	1000	2000	1000	770	905	2175	1550	625
210000501200	1200	2400	1200	870	1000	2500	1850	725

73



Material Valves type AV60 are produced out of Steel 37-2 (S235JRG2)

Temperature Maximum allowable temperature is 600 °C

Custom Made Axes Valves are also manufactured based on specific dimensions or client's requirements

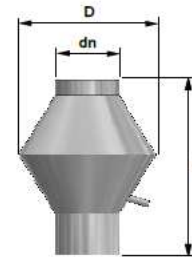
Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

Chinahood

Chinahoods



Article No.	d (mm)	D (mm)	H (mm)
221330000100	100	195	320
221330000125	125	225	360
221330000160	160	285	400
221330000200	200	325	400
221330000250	250	435	550
221330000315	315	500	550
221330000355	355	600	800
221330000400	400	645	800
221330000450	450	695	800
221330000500	500	830	1085
221330000560	560	890	1085
221330000630	630	960	1085
221330000710	710	1160	1390



Material Silencers type REF45 are produced out of Steel 37-2 (S235JR2)

Temperature Maximum allowable temperature is 600° C

Custom Made Axes silencers are also manufactured based on specific dimensions or client's requirements

Explosion vents

Explosion vents

DIN 2632 PN10	Relief Area (m ²)	ANSI 150	Min. Burst Pressure mbarg CV-I	Max. Burst Pressure CV-S-I	Thickness CV-(S)-I	Thickness CV-(S)-I-HR
150	0.013	6	220	415	1030	18 23
200	0.026	8	200	300	1030	18 23
250	0.045	10	140	250	760	18 23
300	0.066	12	110	200	690	18 23
350	0.080	14	100	180	690	18 23
400	0.109	16	85	150	690	18 23
500	0.176	20	50	125	690	18 23
600	0.260	24	40	100	690	18 23
700	0.410	28	35	100	690	18 23
800	0.474	32	35	100	690	18 23
900	0.600	36	35	70	690	18 23
1000	0.750	40	35	70	690	18 23

DIN 2632 PN10	Relief Area (m ²)	ANSI 150	Min. Burst Pressure mbarg CV-I	Max. Burst Pressure CV-S-I	Thickness CV-(S)-I	Thickness CV-(S)-I-HR
150	0.013	6	220	415	1030	18 23
200	0.028	8	200	310	1030	18 23
250	0.045	10	140	250	760	18 23
300	0.066	12	110	200	690	18 23
350	0.081	14	100	180	690	18 23
400	0.109	16	85	150	690	18 23
500	0.176	20	50	120	690	18 23
550	0.233	22	50	120	520	18 23
600	0.260	24	40	110	470	18 23
700	0.360	28	35	90	340	18 23
750	0.410	30	35	90	300	18 23
800	0.474	32	35	80	260	18 23
850	0.540	34	35	80	215	18 23
900	0.600	36	35	80	200	18 23
1000	0.748	40	35	70	160	18 23

Relief Area (m ²)	Nom. Size (mm)	Min. Burst Pressure mbarg CV-I	Max. Burst Pressure CV-S-I	Thickness CV-(S)-I	Thickness CV-(S)-I-HR
0.20	500x400	100	120	500	18 23
0.25	500x500	70	120	500	18 23
0.26	470x570	90	100	500	18 23
0.30	500x600	70	120	440	18 23
0.35	500x700	50	110	380	18 23
0.39	625x625	70	100	380	18 23
0.40	500x800	50	100	320	18 23
0.45	500x900	50	100	260	18 23
0.50	500x1000	50	50	200	18 23
0.50	566x900	50	100	200	18 23
0.60	600x1000	35	50	200	18 23
0.69	625x1110	35	100	200	18 23
0.70	700x1000	35	50	200	18 23
0.80	800x1000	35	50	200	18 23
0.81	900x900	35	100	200	18 23
0.90	900x1000	35	50	200	18 23
1.00	1000x1000	35	100	200	18 23



EXPLOSION VENTS

Explosion vents



Materials of Construction (1)	Stainless Steel / Teflon / Insulation / Stainless Steel
Maximum Operation Pressure: CV-I (3)	70% of the minimum burst pressure for nom. BP $\leq 0,1$ barg 60% of the minimum burst pressure for nom. BP $> 0,1$ barg 60% of the minimum burst pressure for rectangular shapes
Maximum Operation Pressure: CV-S-I (3)	80% of the minimum burst pressure for nom. BP $\leq 0,1$ barg 70% of the minimum burst pressure for nom. BP $> 0,1$ barg 70% of the minimum burst pressure for rectangular shapes
Burst Pressure Tolerance (2)	± 15 mbarg for burst pressure ≤ 70 mbarg 25 mbarg for burst pressure > 70 mbarg and ≤ 250 mbarg 50 mbarg for burst pressure > 250 mbarg
Operating Temperature Range (4)	CV-(S)-I -40°C to 450°C / CV-(S)-I-HT -40°C to 600°C

Notes

1. Other materials are available on request
2. For certain sizes and burst pressures, reduced tolerances may be available, consult factory.
3. Momentary Pressure only
4. For higher temperatures: consult factory

Description

The CV-I and CV-S-I type vents are high performance explosion vents specifically used for high process temperatures, and they offer venting of explosions of industrial equipment. This explosion vent provides excellent service life for static to light pressure cycling conditions.

This type explosion vents come in 2 maximum working temperature ranges: CV-(S)-I up to maximum 450°C and CV-(S)-I-HT for use up to maximum 600°C.

Features

- ✓ Full Opening
- ✓ Certified Burst Pressure
- ✓ No Maintenance
- ✓ High Operating Ratio
- ✓ Suitable for Vacuum Service

Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr

EXHAUST SYSTEMS

WATER INJECTED EXHAUST SYSTEMS



SOOT FILTER WITH ATTACHED BURNER

A diesel particulate filter (or DPF) is a device designed to remove diesel particulate matter or soot from the exhaust gas of a diesel engine. Wall-flow diesel particulate filters usually remove 85% or more of the soot, and under certain conditions can attain soot removal efficiencies of close to 100%.

SCR REACTOR WITH INTEGRATED SILENCER AND CERTIFIED SPARK ARRESTOR

In-line with current EPA and IMO standards, regulating the release of harmful NOx compounds from exhaust systems, the integrated SCR/ Silencer reactor is a novel solution



80



ADDITIONAL PRODUCTS

EXHAUST GAS COOLING

For yachts with an exclusive and durable coating system, it is of great importance that the exhaust gasses, which are leaving the outlet in the ship's hull are cooled down. By spraying seawater under great amount of pressure, into the streamline of the exhaust gas flow, the hot exhaust gasses are immediately cooled down to less than 70 °C over a length of around 1 meter piping length.



performed regarding the pump capacity and its work pressure, the unique spraying angle, its amount of waterflow and the individual temperature and pressure drop.

SCOOP DESIGN FOR UNDERWATER OUTLET SOLUTIONS

To design a scoop which operates properly it is of great importance that the difference in the design waterline (DWL) and the actual waterline (which may be higher or lower than the DWL) and also the length waterline or load waterline (LWL) are taken into account. The LWL is the length of the boat where it meets the water when loaded to its designed capacity.



EXHAUST SYSTEMS

SCR SYSTEMS WITH INTEGRATED SILENCER AND TYPE APPROVED SPARK ARRESTOR



Moving forward to IMO Tier III and in-line with current EPA and IMO standards, regulating the release of harmful NOx compounds from exhaust systems.

This upgrade of reactor leads to a reduction in the release of toxic NOx compounds through selective catalytic reduction. At the same time it operates as an exhaust silencer with noise reduction of more than 45 dB(A).

81

THE IMO TIER III ZERO NO_x SYSTEM



The Selective Catalytic Reduction (SCR) reduces NOx with use of UREA (Ad Blue) injection in the exhaust stream.



- Both In-line and Compact IDE-NOx System available in every size engine room.
- It is possible to combine a customised Zero Soot Systems, to avoid guests experience particulates on deck, common diesel fuel in swimming water and diesel fuel smell.
- The PLC control ensures a smart trouble free operation for all available parameters, alarms & events, history and data logging.
- Integrated sound attenuation.

Isolation
Technologie Services

ITS
acoustique

Tél. +33(0) 952 36 35 31
contact@its-acoustique.fr
www.its-acoustique.fr