MIX s.r.l.
MIXING SYSTEMS AND
COMPONENTS FOR PLANTS

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Filter accessories

N-SFT.... T-SFT....

DIMENSIONS

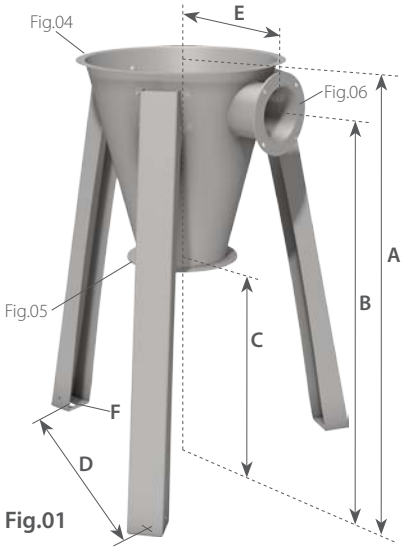


Fig.01

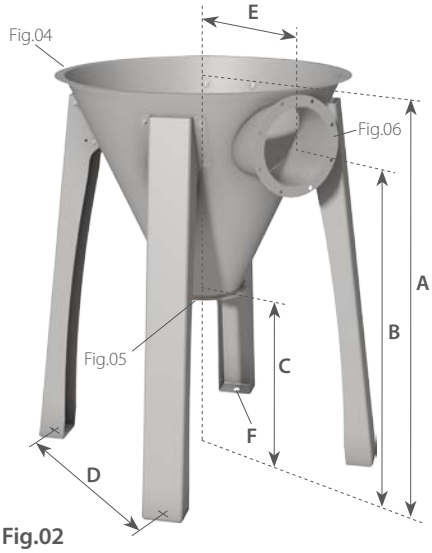


Fig.02

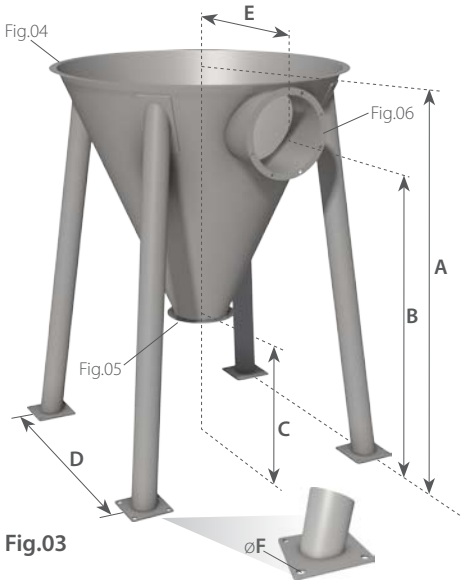


Fig.03

DESCRIPTION

The pre-separating hopper is usually placed under the filter to convey the air and favor a first decantation of the powder.

COMBINATION TABLE

N-SFT	E	F	05	A	1	H	1	N

Execution
N-SFTE: Standard
T-SFTE: Suitable for potentially explosive environment

Classification
MSD

Type
F: Flanged
K: Complete with wheeled bucket

Hopper diameter
05: 350
10: 540
20: 790
22: 950
24: 1100
26: 1300
28: 1550

Diameter of the mouth
A: 80 (DN350)
C: 150 (DN540)
D: 200 (DN790)
E: 250 (DN950-1100)
F: 320 (DN1300-1550)

Quantity of mouths
1: 1 mouth
3: 3 mouths (special on request)
A: 1 mouth with a reduction disc
C: 1 mouth with a cyclonic modular device

Fastening of mouth
H: Flanged (Welded)

Costruction material
1: Carbon steel
2: Parts in contact with product in AISI 304 Supporting legs in Carbon steel

Execution
N: Atmospheric
V: Vacuum
P: Standard and capable of withstanding the overpressure shock caused by an explosion (T-execution only)
R: Vacuum and capable of withstanding the overpressure shock caused by an explosion (T-execution only)

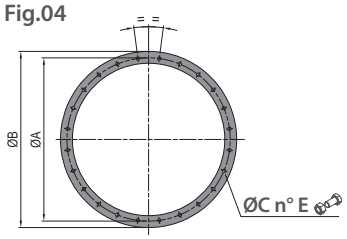
CODE (See combination table)			Fig.	DN	A	B	C	D	E	F	Kg	dm³
N-	T-	SFTEF	01	350	955	890	625	625	230	30X14	19,7	17
N-	T-	SFTEF	01	540	1210	1090	625	875	350	40x18	33,7	74
N-	T-	SFTEF	01	790	1350	1205	625	873	460	40X22	50,4	165

CODE (See combination table)			Fig.	DN	A	B	C	D	E	F	Kg	dm³
N-	T-	SFTEF	02	950	1400	1230	625	820	555	40x22	98	245
N-	T-	SFTEF	02	1100	1535	1335	625	890	600	40X22	118	370

CODE (See combination table)			Fig.	DN	A	B	C	D	E	F	Kg	dm³
N-	T-	SFTEF	03	1300	1815	1620	625	1155	770	21ø	152	645
N-	T-	SFTEF	03	1550	2000	1805	625	1334	885	21ø	182	960

FASTENING FLANGE TO THE DUST FILTER

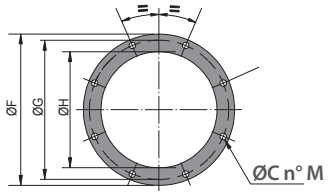
Fig.04



DN	ØA	ØB	ØC	n°E	
350	382	402	9	12	M8
540	570	590	9	16	M8
790	820	840	9	24	M8
950	996	1024	11	28	M10
1100	1154	1182	11	32	M10
1300	1338	1365	11	36	M10
1550	1588	1615	11	44	M10

OUTLET FLANGE **

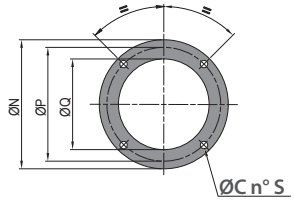
Fig.05



DN	ØF	ØG	ØH	ØL	n°M
350	225	200	150	14	4
540	325	300	250	14	8
790	325	300	250	14	8
950	325	300	250	14	8
1100	325	300	250	14	8
1300	325	300	250	14	8
1550	325	300	250	14	8

INLET FLANGE

Fig.06



DN	ØN	ØP	ØQ	ØR	n°Sn°M
350	160	130	70	14	4
540	225	200	146	14	4
790	275	250	200	14	4
950	325	300	250	14	8
1100	325	300	250	14	8
1300	380	350	318	14	8
1550	380	350	318	14	8

** **NOTE:** Variable outlet flange orientation according to the diameter of the hopper. For more details ask for the specific drawing

CONFIGURATION

See specific data sheet

N-SFTEF

N-SFTEK
DN 350

N-SFTEK
DN 540 ÷ DN 1550

At the discharge of the **DN 350** hoppers only butterfly valves with long shaft can be applied

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary.

REDUCING SPIGOTS

T-KFFE....

DESCRIPTION

MIX reduction spigots can be applied to the inlet of the hoppers and to the lateral outlet of the filters.
Thanks to the wide range available, they allow to customize filter connections to meet specific needs.

COMBINATION TABLE

T-KFF E A 021 H 1 A

Type
T-KFFE: This type is suitable for a potentially explosive atmosphere

Classification
MSD

Original DN
A: 80 (DN350)
C: 150 (DN540)*
D: 200 (DN790)
E: 250 (DN950-1100)
F: 320 (DN1300-1550)

* usual DN for bag-emptying hopper T-SERE

Ø for the outlet mouth

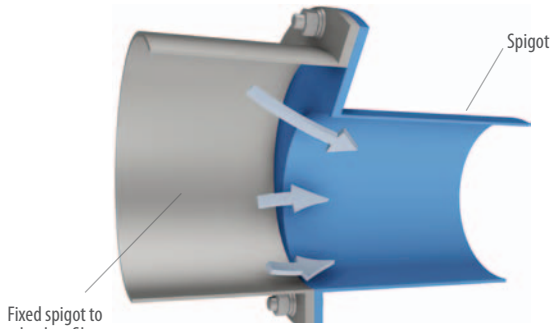
050 = 50	**150** = 150 Jacob
060 = 60,3	**168** = 168,3
076 = 76,1	**200** = 200 Jacob
080 = 80 Jacob	**219** = 219,1
088 = 88,9	**250** = 250 Jacob
100 = 100 Jacob	**273** = 273
101 = 101,6	**300** = 300 Jacob
114 = 114,3	**323** = 323,9
139 = 139,7	

Spigot type
H: with a solder flange
L: with a flange and a smooth spigot for a flexible hose
J: with a flange and a Jacob-type spigot

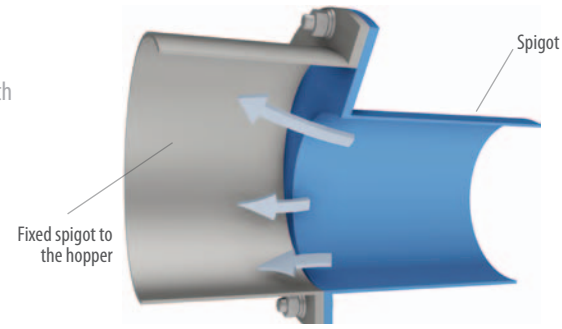
Material of Construction
1: Mild steel
2: Aisi 304

Review

Clean air flow out from the dust filter



Incoming dusty air flow, to the hopper



Dust filter

Hopper

Flange to be welded (H)	
I: for a piping with reduced Ø	**II**: for a piping with usual Ø from MIX
	
Spigot with a flange and a Jacob-type spigot (J)	
III: for a piping with reduced Ø	**IV**: for a piping with usual Ø from MIX
	
Spigot with a flange and a smooth spigot, for a flexible hose (L)	
V: for a piping with reduced Ø	**VI**: for a piping with usual Ø from MIX
	

SPIGOTS COMBINATIONS

For flanges details, please check the hoppers datasheet

WITH A SOLDER FLANGE "H" / SMOOTH TYPE "L"						
CODE	Original DN	Ø for the outlet mouth	Length		Material of Construction	
			H	L	1 - Mild steel	2 - Aisi 304
T-KFFEA050 . . A	80	50	/	150	/	✔
T-KFFEA060 . . A	80	60,3	/	150	/	✔
T-KFFEA076 . . A	80	76,1	/	150	/	✔
T-KFFEC060 . . A	150	60,3	/	150	/	✔
T-KFFEC076 . . A	150	76,1	/	150	/	✔
T-KFFEC088 . . A	150	88,9	/	150	/	✔
T-KFFEC101 . . A	150	101,6	/	150	/	✔
T-KFFEC114 . . A	150	114,3	/	150	/	✔
T-KFFEC139 . . A	150	139,7	/	150	/	✔
T-KFFED076 . . A	200	76,1	/	150	/	✔
T-KFFED088 . . A	200	88,9	/	150	/	✔
T-KFFED101 . . A	200	101,6	/	150	/	✔
T-KFFED114 . . A	200	114,3	/	150	/	✔
T-KFFED139 . . A	200	139,7	/	150	/	✔
T-KFFEE101 . . A	250	101,6	/	150	✔	✔
T-KFFEE114 . . A	250	114,3	/	150	✔	✔
T-KFFEE139 . . A	250	139,7	/	150	✔	✔
T-KFFEE168 . . A	250	168,3	/	150	✔	✔
T-KFFEE219 . . A	250	219,1	/	150	✔	✔
T-KFFEF273 . . A	323	273	/	150	✔	✔
T-KFFEE323 . . A	323	323,9	/	150	✔	✔

JACOB TYPE "J"					
CODE	Original DN	DN of the Jacob spigot	Length	Material of Construction	
				1 - Mild steel	2 - Aisi 304
T-KFFEA080J . A	80	80	55	/	✔
T-KFFEC080J . A	150	80	55	/	✔
T-KFFEC100J . A	150	100	55	/	✔
T-KFFEC150J . A	150	150	55	/	✔
T-KFFED100J . A	200	100	55	/	✔
T-KFFED150J . A	200	150	55	/	✔
T-KFFED200J . A	200	200	55	/	✔
T-KFFEE150J . A	250	150	55	✔	✔
T-KFFEE200J . A	250	200	55	✔	✔
T-KFFEE250J . A	250	250	55	✔	✔
T-KFFEF250J . A	323	250	55	✔	✔
T-KFFEF300J . A	323	300	55	✔	✔

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary.

MOBILE DUST COLLECTION TANK

N-SFNE.... T-SFNE....

DIMENSIONS

Fig.01

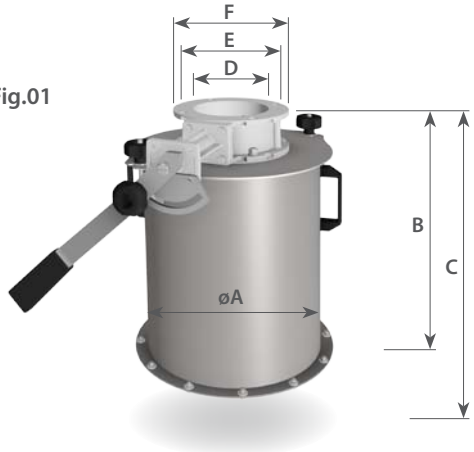


Fig.02

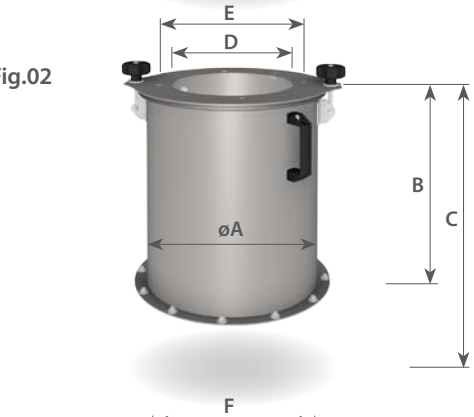


Fig.03

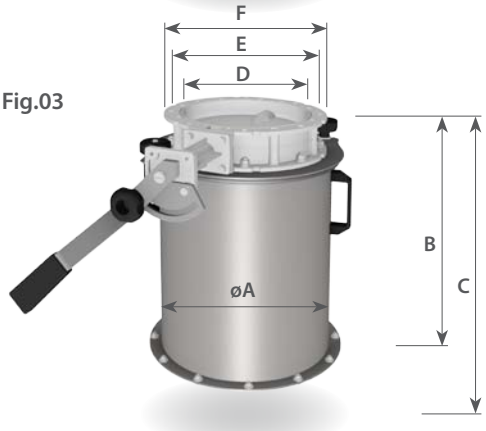
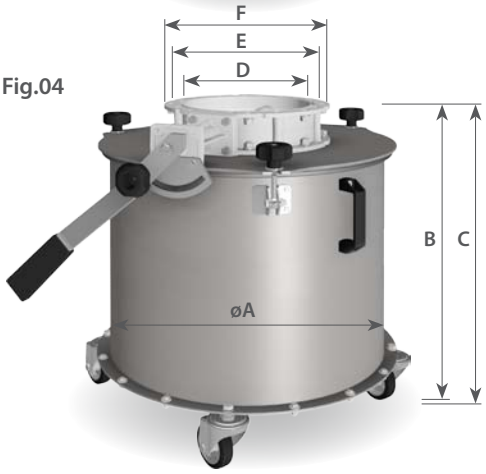


Fig.04



DESCRIPTION

MIX Mobile dust collection tank, placed at the hopper outlet, allows the recovery of the powders accumulated by the de-dusting action of the filter.

COMBINATION TABLE

N-SFN | E | 05 | B | 1 | N

Type
N-SFNE: Mobile dust collection tank
T-SFNE: Removable wheeled bin, suitable for potentially explosive environments

Diameter of bin
05: DN 350
10: DN 540

Model
B: Completo with Valve SVA250
C: Completo with Valve SVA150
D: Without valve (designed for valve SVA250) (No version T-)

Costruction material
1: Carbon steel, RAL9006 painted
2: Stainless steel AISI 304

Classification MSD

Application
N: Atmospheric
V: Suitable for vacuum applications
P: Atmospheric capable to resist to the explosion pressure blast (only version T-)
R: Suitable for vacuum applications, capable to resist to the explosion pressure blast (only version T-)

CODE (See combination table)			Fig.	ØA	B	C	ØD	ØE	ØF		kg	Liters
N-	T-	SFNE05C..	01	350	505	625	150	200	228	M 10 n°4	16	38
N-	/	SFNE05D..	02	350	425	625	250	300	326	M 10 n°8	10	38
N-	T-	SFNE05B..	03	350	505	625	250	300	326	M 10 n°8	19	38
N-	T-	SFNE10B..	04	540	617	625	250	300	326	M 10 n°8	37	100

A: Ø of bin / **B:** overall height / **C:** height from the ground / **D:** Ø for product passage / **E:** center-to-center distance for mounting / **F:** Ø O.D. of the valve

Standard Combinations

DN 350	DN 540÷1550	DN 540÷1550
05	05	10
/	N-SFNE05B1N	N-SFNE10B1N
N-SFNE05C2N	**N-SFNE05B2N**	N-SFNE10B2N
/	N-SFNE05B1V	N-SFNE10B1V
N-SFNE05C2V	**N-SFNE05B2V**	N-SFNE10B2V
/	N-SFNE05D1N	/
/	**N-SFNE05D2N**	/
/	N-SFNE05D1V	/
/	**N-SFNE05D2V**	/

Suitable combinations for potentially explosive environments: P_{red} 0,48 bar

DN 350	DN 540÷1550	DN 540÷1550
05	05	10
/	T-SFNE05B1N	T-SFNE10B1N
T-SFNE05C2N	**T-SFNE05B2N**	T-SFNE10B2N
/	T-SFNE05B1V	T-SFNE10B1V
T-SFNE05C2V	**T-SFNE05B2V**	T-SFNE10B2V
/	**T-SFNE05B1P**	**T-SFNE10B1P**
/	**T-SFNE05B2P**	**T-SFNE10B2P**
/	**T-SFNE05B1R**	**T-SFNE10B1R**
/	**T-SFNE05B2R**	**T-SFNE10B2R**

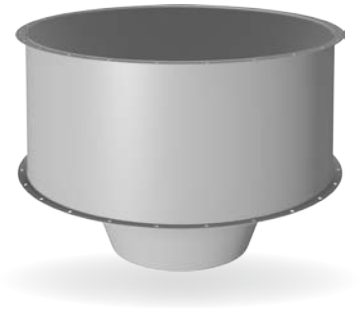
MIX Standard Versions
Model to be handled on Customer's request

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary.

T-SFX..A..

DESCRIPTION

The centrifugal dust separator mounted into a pre-separating hopper, gives the following benefits:
- it creates a cyclonic effect, when inlets are not fitted with deflector and enhances the effect of those fitted with deflector, avoiding contact of the moist particles to the filtering medias
- it improves the filtering elements efficiency and extends filtration media life;
- the collection of all waste product into the mobile dust collection tank.



COMBINATION TABLE

T-SFX | E | 10 | A | 1 | N

Version
T-SFX: Suitable for potentially explosive environment

Classification
MSD

Size
10: DN.540
20: DN.790
22: DN.950
24: DN.1100

26: DN.1300*
28: DN.1550*

Type of execution
A: Flanged Standard

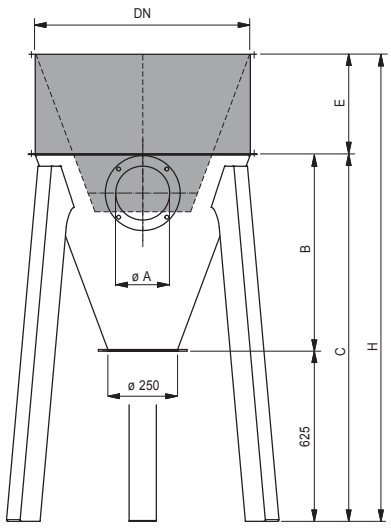
Material of construction
1: Carbon steel, RAL9006 painted
2: Stainless steel AISI 304

N: Standard
V: Suitable for vacuum applications

*For these sizes there are particular solutions

DIMENSIONS

Version		DN. 350	DN. 540	DN. 790	DN. 950	DN. 1100	DN. 1300	DN. 1550
N-	T-	/	SFX10A..	SFX20A..	SFX22A..	SFX24A..	Specials Versions	



DN	ØA	B	C	E	H	kg
540	90	582	1207	400	1607	20
790	90	724	1349	366	1715	35
790	150	724	1349	366	1715	35
950	200	776	1401	386	1887	45
1100	250	911	1536	436	1972	60

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary.

FLAT-BOTTOM SWEEP DISCHARGE

MEB..F1...

DESCRIPTION

The Flat-bottom sweep discharge is the alternative to hoppers in case of reduced vertical spaces and poorly flowing products.
Its characteristics and advantages are:
- it is functional and simple to use;
- modular design and high quality;
- easy maintenance of the rotor and dismantling of the scrapers thanks to the inspection door;
- reduction of product residues;
- the machine is in conformity with the Directive 2006/42/EC;
- discharge spigot available as requested by the customer and compatible with a possible rotary valve; feet or brackets vary according to the different types of fixings and customi overall dimensions available; provision for minimum level indicator.

COMBINATION TABLE

MEB	10	F	1	A	A	1

Flat-bottom sweep discharge

Size
10: DN.540
20: DN.790
22: DN.950
24: DN.1100

26: DN.1300*
28: DN.1550*

*For these sizes, are possible particular solutions

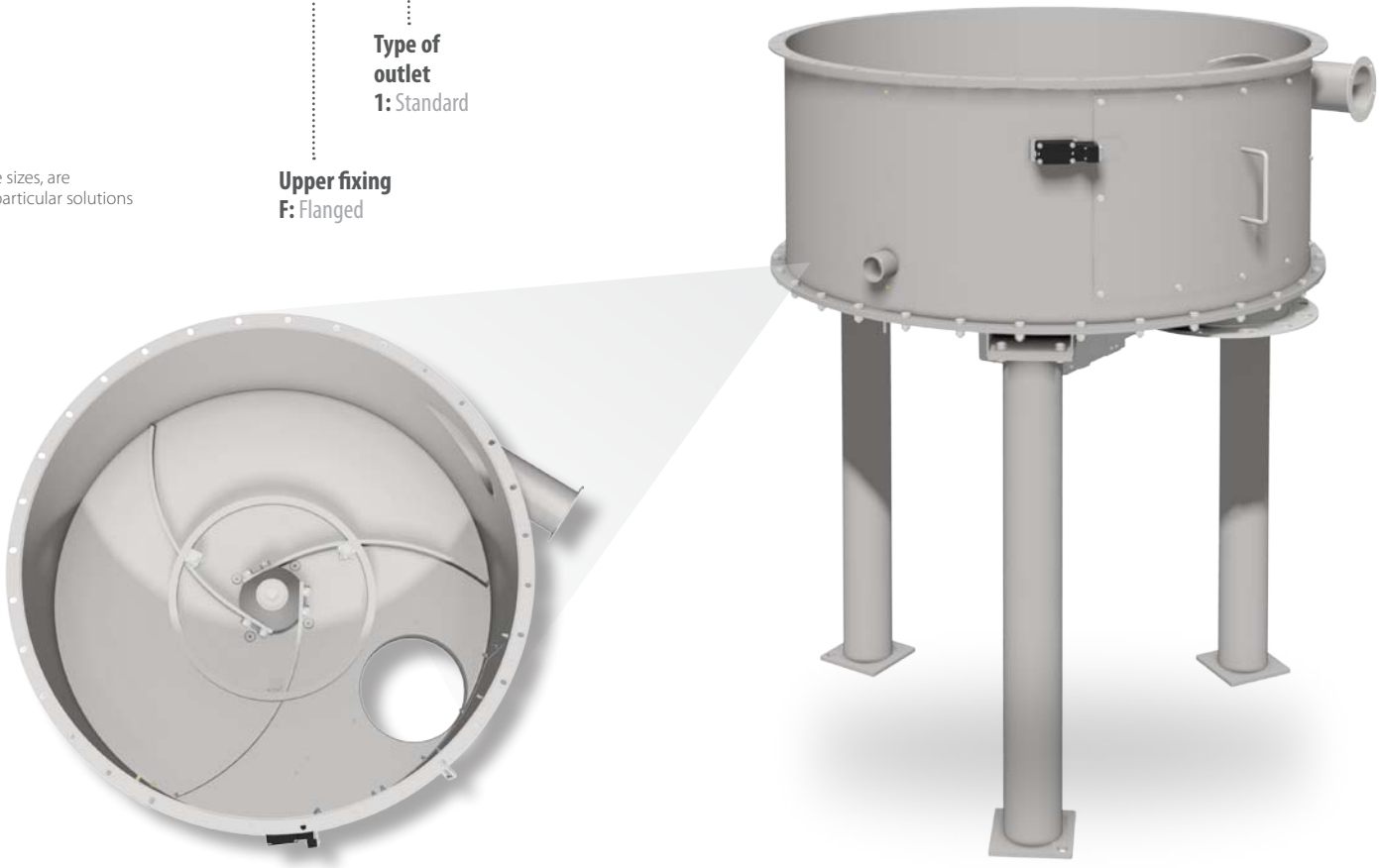
Upper fixing
F: Flanged

Type of outlet
1: Standard

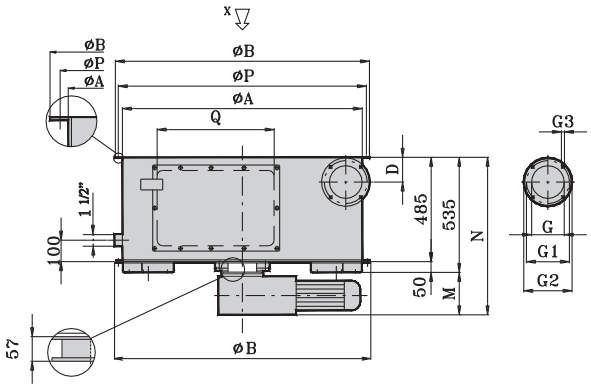
Fixing feet
A: Without feet
B: Feet with nominal height 700mm
C: Feet with nominal height 1000 mm

Gear
A: Special
B: Standard

Material of construction
1: Carbon steel, RAL9006 painted
2: Stainless steel AISI 304
3: Carbon steel, EPOXY food paint inside; RAL9006 outside



DIMENSIONS



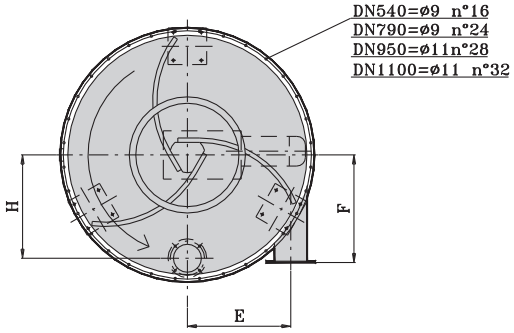
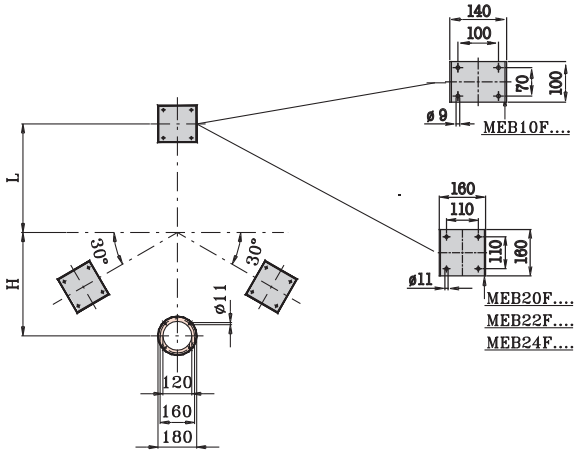


Fig.01



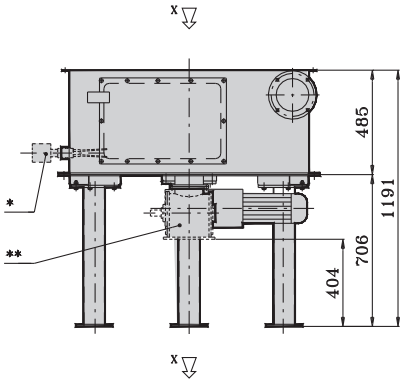


Fig.02

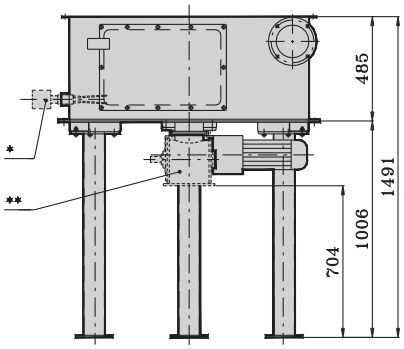


Fig.03

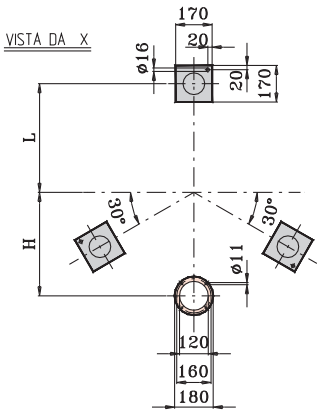


Fig.04

* Level indicator as optional to be ordered separately. Standard supplying with plug. ** Rotary valve to be ordered separately; the dimensions refer to the standard type BTC18

Type	DN	Fig.	A	B	D	E	F	G	G1	G2	G3	H	L	M	N	P	Q	kW	kg
MEB10F1AB.	540	1	539	590	100	220	300	101	140	165	11	202	235	150	685	570	350	0,25	73
MEB10F1BB.	540	2+4	539	590	100	220	300	101	140	165	11	202	235	150	685	570	350	0,25	80
MEB10F1CB.	540	3+4	539	590	100	220	300	101	140	165	11	202	235	150	685	570	350	0,25	82
MEB20F1AB.	790	1	792	590	100	318	420	152	200	225	14	320	330	180	715	820	450	0,37	125
MEB20F1BB.	790	2+4	792	840	115	318	420	152	200	225	14	320	330	180	715	820	450	0,37	135
MEB20F1CB.	790	3+4	792	840	115	318	420	152	200	225	14	320	330	180	715	820	450	0,37	137
MEB22F1AB.	950	1	956	1024	140	400	450	152	200	225	14	400	420	200	735	996	550	0,55	205
MEB22F1BB.	950	2+4	956	1024	140	400	450	152	200	225	14	400	420	200	735	996	550	0,55	215
MEB22F1CB.	950	3+4	956	1024	140	400	450	152	200	225	14	400	420	200	735	996	550	0,55	217
MEB24F1AB.	1100	1	1116	1182	140	480	500	152	200	225	14	480	500	200	735	1154	560	0,55	245
MEB24F1BB.	1100	2+4	1116	1182	140	480	500	152	200	225	14	480	500	200	735	1154	560	0,55	255
MEB24F1CB.	1100	3+4	1116	1182	140	480	500	152	200	225	14	480	500	200	735	1154	560	0,55	257

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary.

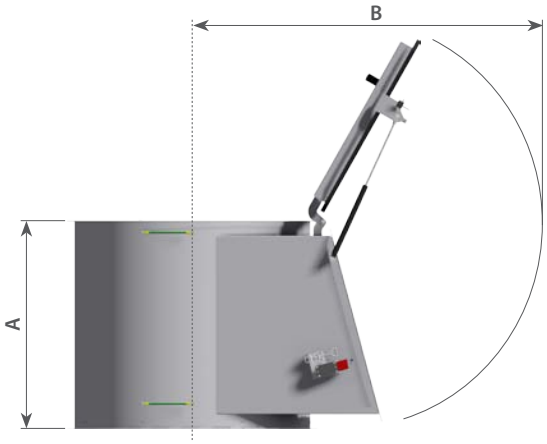
T-SER E..F..A

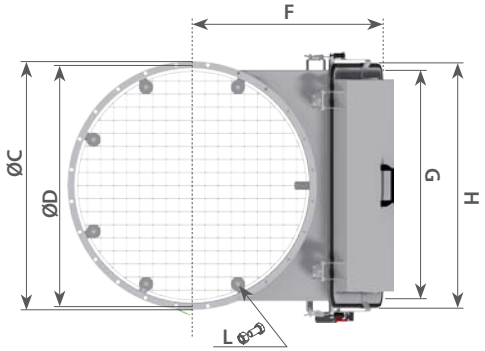
DESCRIPTION

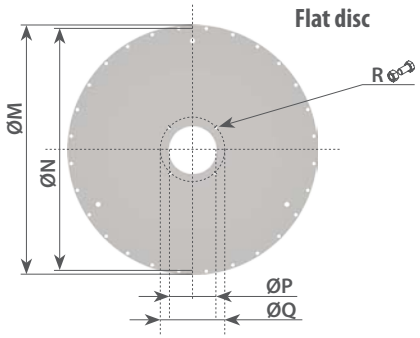
The bag dump station is:

- Versatile and easy to use on hoppers, on extractors, on processing machines and on containers in general, ideal for manual discharge of powders &/or granular materials supplied in small bags;
- Low capital & maintenance costs;
- Compliant with the current safety systems (safety grid for bags falling - cylinder for the locking spring to lock the hood's hatch when open and filter cleaning suspended while charging of materials);
- Modular and compatible to filters and aspiration hoods (available as optional) for centralised dust recycling filtration systems.

DIMENSIONS

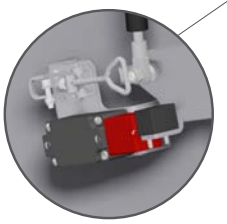






DN	A	B	ØC	ØD	F	G	H	L	ØM	ØN	ØP	ØQ	R	kg*
540	700	1005	590	570	555	780	830	Ø 9 n°16	590	570	168	200	M10 n°4	50
790	700	1130	840	820	680	780	830	Ø 9 n°24	840	820	168	200	M10 n°4	62
950	700	1220	1024	996	770	780	830	Ø 11 n°28	1024	996	168	200	M10 n°4	73

* Weight of the "Z" type; types with lid can vary their weights +5÷20 kg depending of their ø and on the lid type



OPTIONS:

Mechanical limit-switch

The T-SERE bag-emptying hopper is supplied without mechanical limit-switch in standard production

The limit-switch can be supplied as an option in the following types:

- **12A01440** limit-switch kit, standard production
- **12A01442** limit-switch kit, ATEX II 3D zone 22 IP66 T°80C

COMBINATION TABLE

T - SER E 10 F P 1 A

Execution
T- : Suitable for potentially explosive environment

Bag dump station

Classification MSD

Size
10: DN 540
20: DN 790
22: DN 950

Type of execution
F: Flanged Standard

Layout of lid
P: Flat; prepared for a standard spigot (standard production)
Q: Reduction disc, for a DN350 dust filter (Size 10 and 20)
R: Reduction disc, for a DN540 dust filter (Size 20 and 22)
S: Reduction disc, for a DN790 dust filter (Size 22)
Z: Without lid

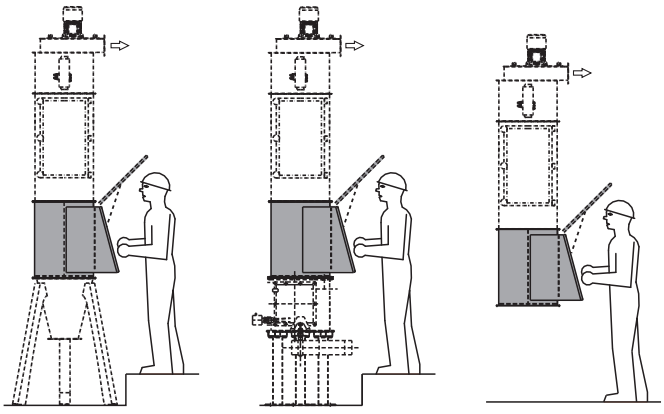
Material of construction
1: Carbon steel, with usual coating from MIX SRL
2: Parts in contact w/product: in s.s. AISI 304
4: Parts in contact, and outer parts in s.s AISI 304*
9: Parts in contact with the product Certified for Food Use Règlement (EC) n.1935/2004
* special production

Review

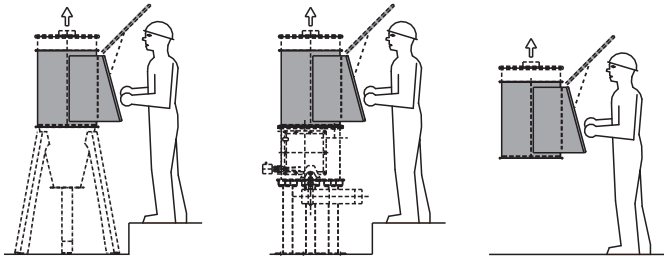
T-SERE10FP2A	T-SERE20FP1A	T-SERE20FP2A	T-SERE22FP1A
T-SERE10FZ2A	T-SERE20FZ1A	T-SERE20FZ2A	T-SERE22FZ1A

All codes in the table are standard production; all the remaining combinations must be considered non-standard production.

APPLICATIONS - TYPES



Bag dump station with filter dust extraction filter



Bag dump station system with hood for centralised aspiration

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary.

N-MB. A-MB.

DIMENSIONS

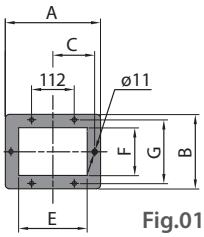


Fig.01

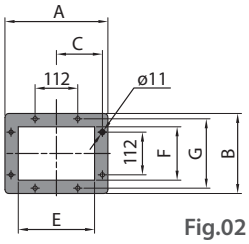


Fig.02

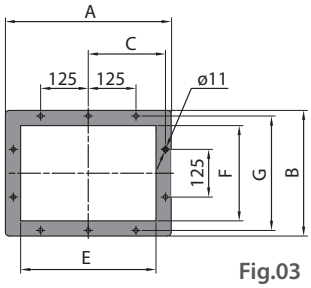


Fig.03

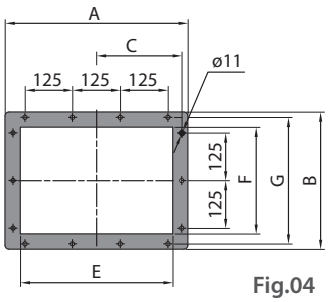
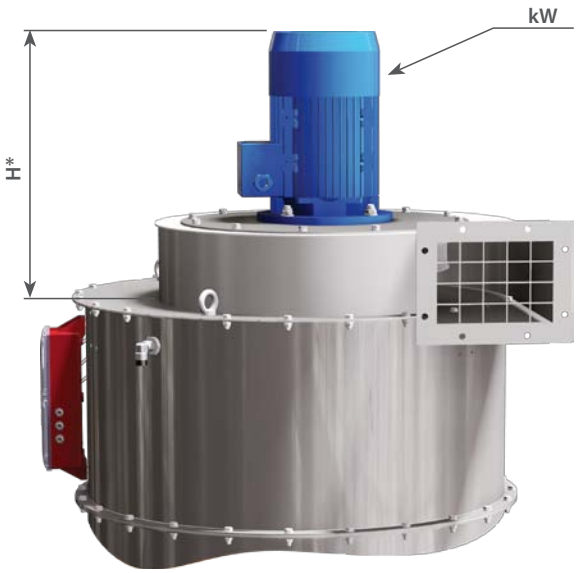


Fig.04

DESCRIPTION

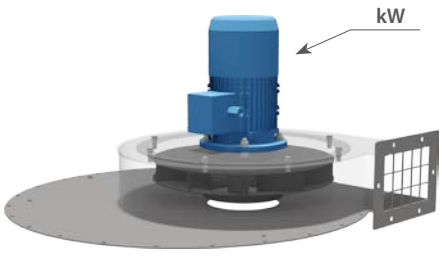
The radial fan assembled on MIX dust collector filters, creates a vacuum to convey the dust from the point where it is generated and conveyed to the filter, allowing effective dust removal.



kW	Fig.	A	B	C	E	F	G	H*	kg
0,75	1	230	182	100	156	112	153	375	32
1,1									34
1,5	1	250	195	109,5	180	125	167	400	40
2,2								425	43
3	2	270	210	120,5	200	140	182	475	62
4								495	70
5,5	3	435	330	202,5	355	250	300	650	95
7,5								690	107
11	4	480	360	224	400	280	332	805	160

* The value may change of +/- 50 ÷ 100 mm depending on the brand of the electric motor.

MOTOR POWER



kW	0,75	1,1	1,5	2,2	3	4	5,5	7,5	11
DN350	✔	✔	✔						
DN540	✔	✔	✔	✔					
DN790		✔	✔	✔	✔	✔	✔	✔	
DN950			✔	✔	✔	✔	✔	✔	✔
DN1100			✔	✔	✔	✔	✔	✔	✔
DN1300						✔	✔	✔	✔
DN1500						✔	✔	✔	✔

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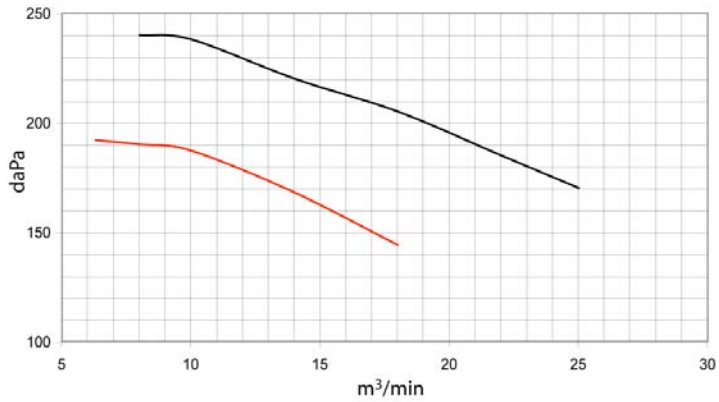
FANS' CURVES

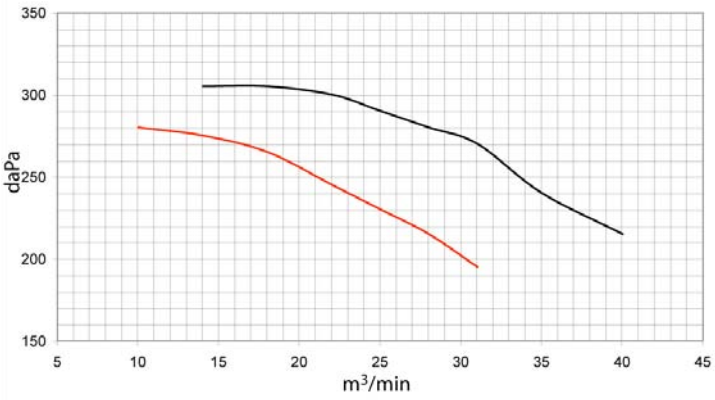
MBS 360 1,1 kW

MBS 330 0,75 kW



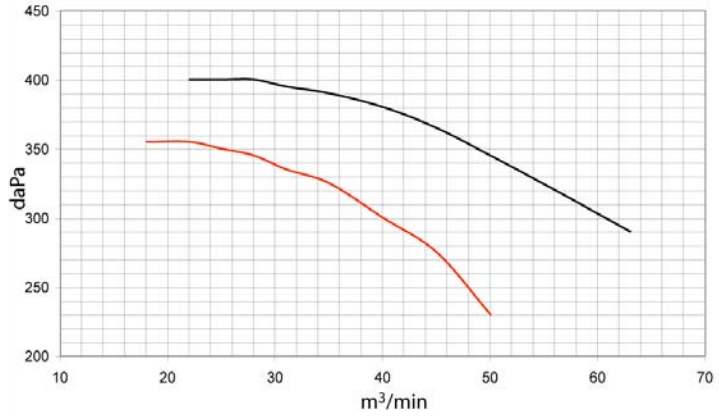
MBS 415 2,2 kW

MBS 385 1,5 kW



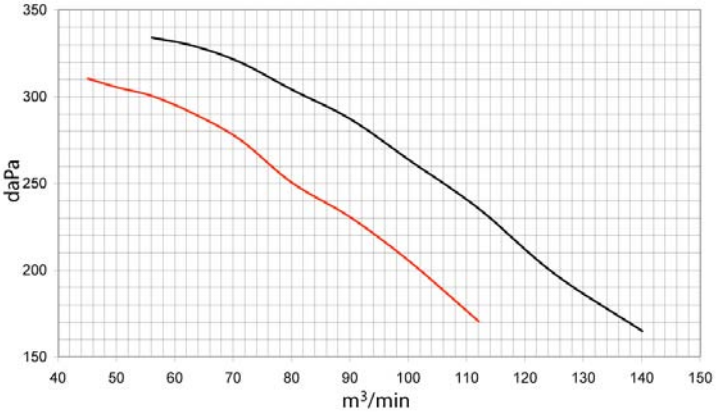
MBS 460 4 kW

MBS 430 3 kW

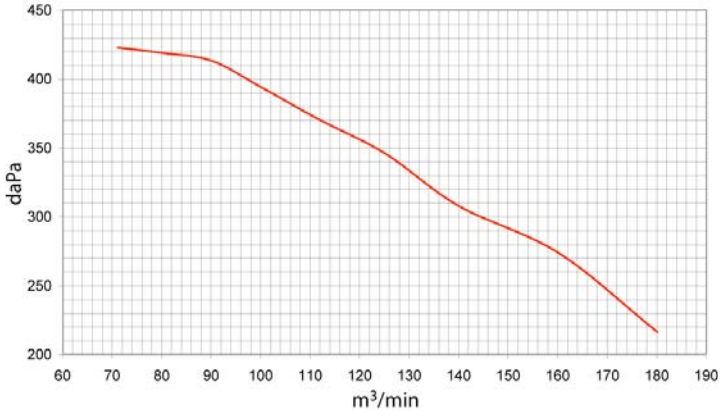


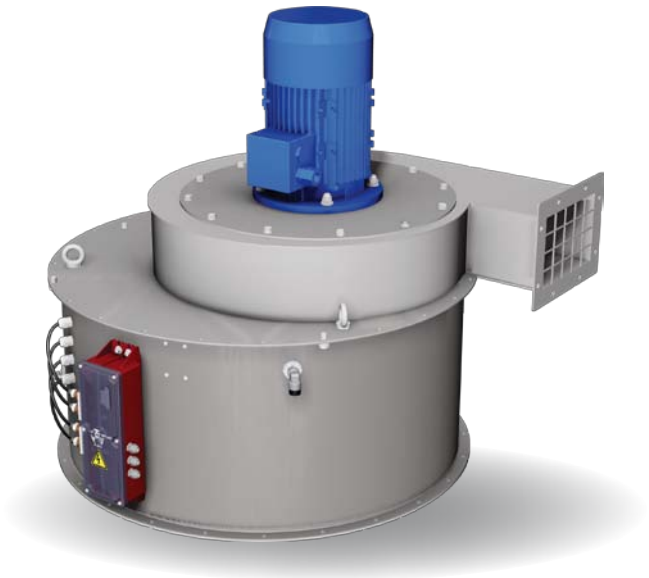
MBV 455 7,5 kW

MBV 420 5,5 kW



MBV 500 11 kW





Diagrams refer to fans operating at 50 Hz.
Standard MIX motors are IP 55. Diagrams to be intended as indicative .

FLOW CONTROL VALVE

SKB00.F.

DIMENSIONS

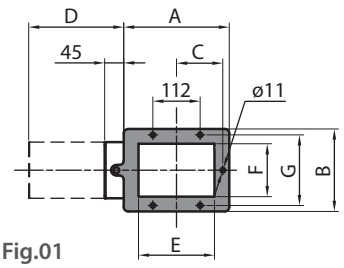


Fig.01

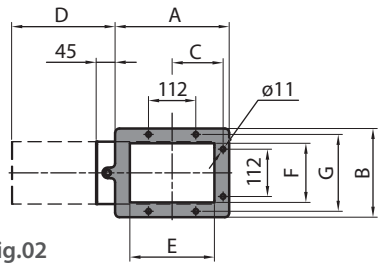


Fig.02

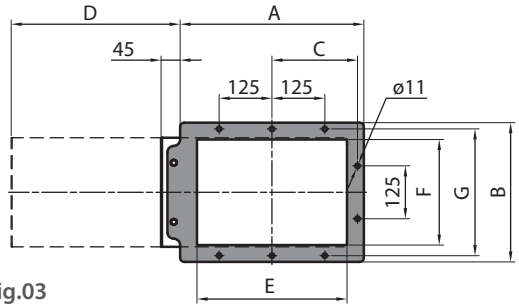


Fig.03

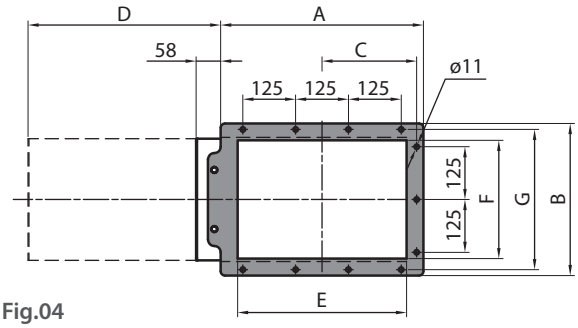


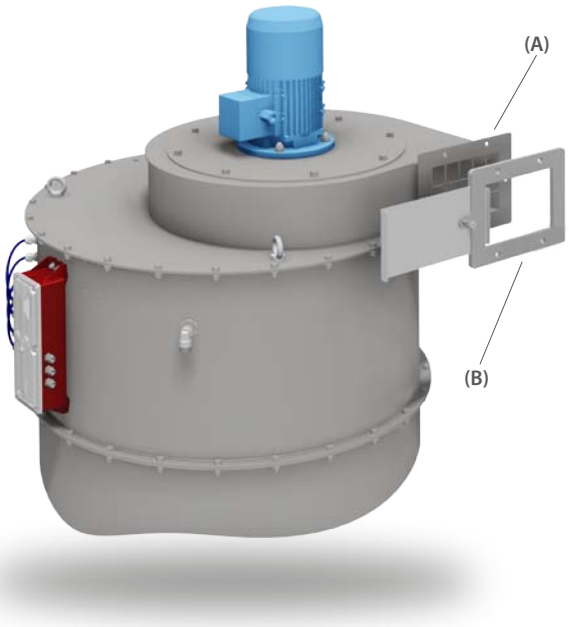
Fig.04

DESCRIPTION

The MIX Flow control valve, placed allows the regulation of the air flow.

CLOSED

OPEN



The fixing drilling (B) match the outlet fan flange (A).

CODE	kW	Fig.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	kg
SKB001F.	0,75 - 1,1	1	230	182	100	205	160	112	153	2
SKB002F.	1,5 - 2,2	1	250	195	109,5	225	180	125	167	2
SKB003F.	3 - 4	2	270	210	120,5	245	200	140	182	3
SKB004F.	5,5 - 7,5	3	435	330	202,5	400	355	250	300	6
SKB005F.	11	4	480	360	224	456	400	280	332	7

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N-SKR....

DESCRIPTION

The pressure reducer with manometer and dehumidifier filter comes factory set having the following advantages:
-it regulates the plant pressure to the right working pressure of the filter, saving the air consumption;
- it improves the efficiency and the life of the filtering elements (through the dehumidifier filter);
- it control the actual pressure feeding in the filter tank (through the external manometer).

COMBINATION TABLE

N-SKR | 4 | A | 5 | A

Pressure reducer

4: Sleeve of 1/4"

A: Adjusted to 3 ÷ 4 bar
E: Adjustable from 0,5 ÷ 8,5 bar

Complete equipment:
pressure reducer, manometer,
dehumidifier filter

Pipe fitting applied
A: Supply without pipe fitting
C: Pipe fitting for standard round filters
E: Pipe fitting/fixing brackets for SFCA..FP
G: Pipe fitting/fixing brackets for SFCA..GP and other versions

Fixing	Operating temperature	Weight	Working Pressure	Condensate separation	Condensate discharge	Tank capacity	Installation
G1/4"	+ 60°C	0,12 Kg	3,5 bar 0,5 ÷8,5 bar	> 90%	Semiautomatic	15 cc	Vertical

SHH....

DESCRIPTION

The gauge is made by "U " bended glass which is connected trough pipe to both the clean side and dirty side of the filter the "U" bended glass is fitted by dyed solution which moves accordingly to the pressure differential between the two sides of the filter. The gauge is equipped with a graduated and graphic scale which makes the cleaning/operating efficiency of the filter elements to be immediately checked.

COMBINATION TABLE

SHH | 200 | C | 2

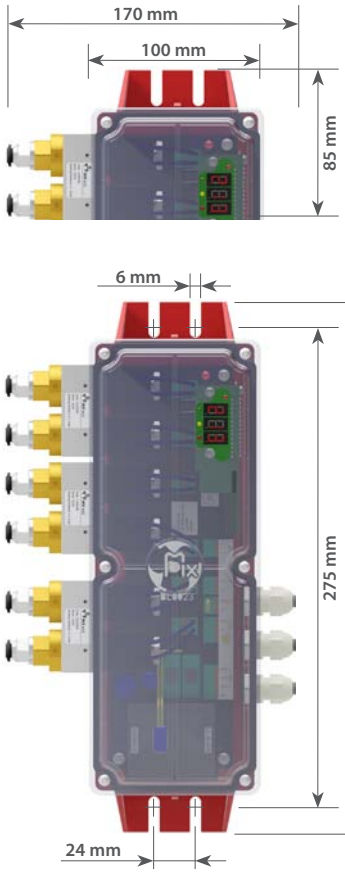
Visual pressure differential

C: Mounted on the filter
D: Complete with box and fittings

SEQUENTIAL TIMER

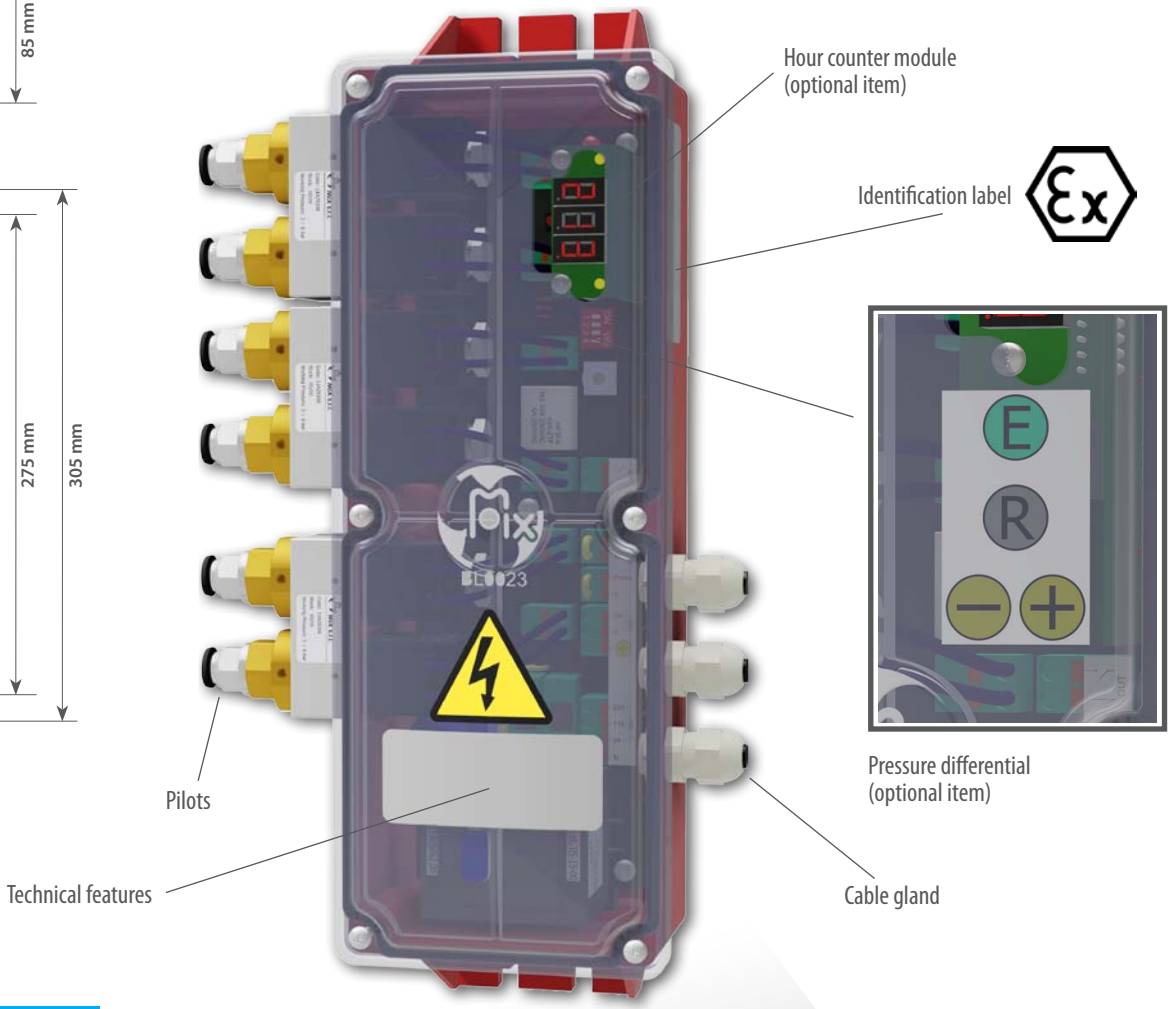
N-KQKG A-KQKG

DIMENSIONS



DESCRIPTION

Electronic control panel with digital technology equipped with pneumatic pilots. It drives pneumatic valves obtaining an important reduction of the electric components and electric connections inside the filter . They are suitable for automatic starting by remote control including post-cleaning function.



COMBINATION TABLE

N-KQKG 2 B 0 R

Intended use of the device
N- = Electropneumatic sequential timer
A- = ATEX-marked electropneumatic sequential timer

Electro Pilots
2 = 2 Elettropiloti
4 = 4 Elettropiloti
6 = 6 Elettropiloti

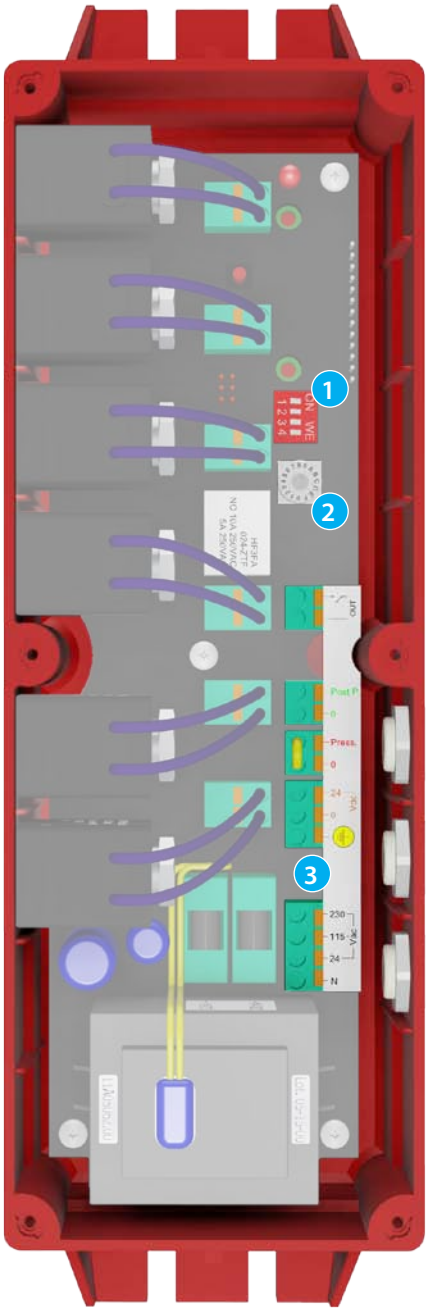
Operation

	HOUR COUNTER	PRESSURE DIFFERENTIAL
B	/	/
C	✔	/
D	✔	✔

Working Temperature
0 = Environment (-20°C +50°C) *
2 = Low Temperature (-40°C +50°C) Feeding 115V AC
3 = Low Temperature (-40°C +50°C) Feeding 230V AC

Use
M = Electro-pneumatic sequencer
R = Package including the N-KQKG...**M** / A-KQKG...**M** Electro-pneumatic sequencer and the User manual

* (-20°C +40°C) ATEX version

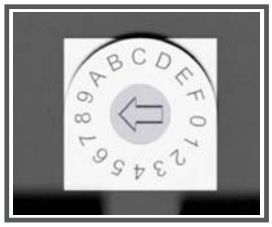


1 - ADJUSTMENTS WITH DIP-SWITCH

Dip-switch for various options:

ON WE 1 2 3 4	SW_1 = ON	Post-cleaning disabled
ON WE 1 2 3 4	SW_1 = OFF	Post-cleaning enabled
ON WE 1 2 3 4	SW_2 = ON SW_3 = OFF	2 Pilots active
ON WE 1 2 3 4	SW_2 = OFF SW_3 = ON	4 Pilots active
ON WE 1 2 3 4	SW_2 = ON SW_3 = ON	6 Pilots active
ON WE 1 2 3 4	SW_4 = ON	standard post-cleaning (pause time given by the rotary switch)
ON WE 1 2 3 4	SW_4 = OFF	fast post-cleaning

2 - ROTARY SWITCH

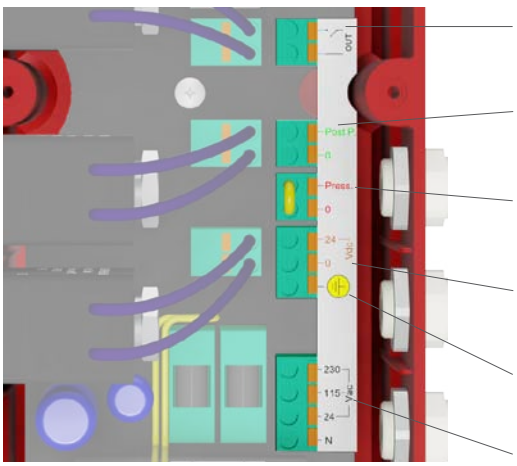


Rotary switch for adjusting the pause time:

Position	Pause (sec)
0	15
1	20
2	25
3	30
4	35
5	44
6	52
7	60
8	75
9	88
A	100
B	118
C	148
D	175
E	210
F*	4

(*) Only with permission from MIX S.r.l.

3 - ELECTRICAL CONNECTION



Connection	Terminals to connect[1]
230 Vac	230 - N - ⏚
115 Vac	115 - N - ⏚
24 Vac	24 - N - ⏚
24 Vdc	24 Vdc - 0 - ⏚
Post-cleaning	Post P - 0
Pressure differential	Press. - 0

[1] always use three-wire power supply cables (phase, neutral and earthing), minimum section 0.5 mm2, cable outer diameter max. 7 mm with TI2 insulation degree

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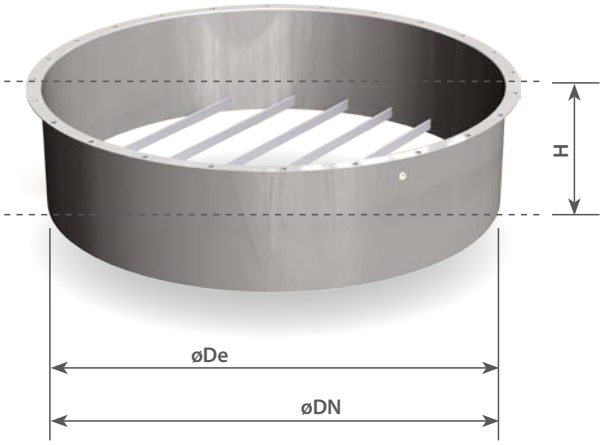
T-SFSE....

DIMENSIONS



DESCRIPTION

MIX base-filter ring is used to fix the filter to the silo, container or machine below.
The wide range of materials of construction allow its use in many sectors and also, for pneumatic conveyors in vacuum (vacuum).
The connection to the filter is made with flange, while the installation to the silo is made by welding.

COMBINATION TABLE

T-SFS E 05 A 1

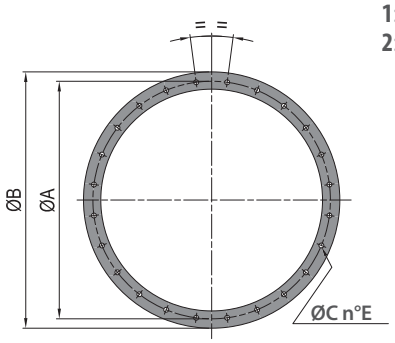
Filter Base

Classification
MSD

Size
05: DN350
10: DN540
20: DN790
22: DN950
24: DN1100
26: DN1300
28: DN1550

Variable
A: With grid
B: Without grid

Material
1: Carbon Steel
2: Stainless Steel AISI 304



CODE				DN	H	ØDe	ØA	ØB	ØC	n°E	Bolts	Kg
T-SFSE	05	B	2	350	50	353	382	402	9	12	M8	1,4
T-SFSE	10	A	1	540	210	540	570	590	9	16	M8	7,3
T-SFSE	10	A	2	540	210	540	570	590	9	16	M8	7,3
T-SFSE	20	A	1	790	210	792	820	840	9	24	M8	11,5
T-SFSE	20	A	2	790	210	792	820	840	9	24	M8	11,5
T-SFSE	22	A	1	950	230	958	996	1024	11	28	M10	25
T-SFSE	22	A	2	950	230	958	996	1024	11	28	M10	25
T-SFSE	24	A	1	1100	230	1117	1154	1182	11	32	M10	30
T-SFSE	24	A	2	1100	230	1117	1154	1182	11	32	M10	30
T-SFSE	26	A	1	1300	230	1300	1338	1365	11	36	M10	36
T-SFSE	26	A	2	1300	230	1300	1338	1365	11	36	M10	36
T-SFSE	28	A	1	1550	230	1550	1588	1615	11	44	M10	48
T-SFSE	28	A	2	1550	230	1550	1588	1615	11	44	M10	48

NOTE: All dimensions in mm, unless stated otherwise. The Company MIX reserves the right to alter product specifications without prior notice. All the quoted sizes are approximate. The given figures are mean values with tolerances entailed by the customary production-related variations. In any particular case, and to have the correct values, our written confirmation is necessary..

FILTERING SYSTEMS AND COMPONENTS FOR PLANTS

QUALITY
SERVICE
TECHNOLOGY
INNOVATION

www.mixitaly.com

MIX S.r.l. - 41032 CAVEZZO (MO) - Via Volturno, 119/A - ITALY
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MIX S.r.l.
MIXING SYSTEMS AND
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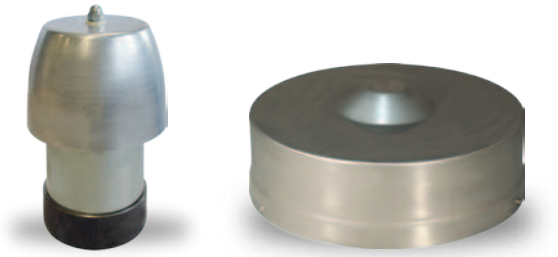
Extraction and Monitoring

Silo accessories

ATEX RANGE AVAILABLE

Quality and Innovation



❶ VALVE PRESSURE CONTROL (SSM100 - SSM250)

The MIX pressure control valves SSM100 and SSM250 are used to ventilate overpressure, in order to prevent damage to the vessel. Additionally the SSM250 can also take up air from the surrounding, in order to prevent damage to the vessel from implosion, in case of underpressure.

❷ THE BASE SPIGOT (SFU)

The base spigot can be welded on the tank or other equipment.
The pressure relief valve SSM250 is screwed on the base spigot.

❸ MANHOLE PROVES (SSA - SSB)

MIX S.R.L. manufactures inspection, maintenance, monitoring for silos and containers as a range.

❹ LEVEL GAUGES

The level gauges, with electromechanical working, are components signalling the presence / absence of dusty or granulate products in plants of every field of application.

5 CONNECTING KIT BETWEEN SILO AND TRUCK (SST + SSF)

kit is used for connecting between the discharge pipe on the truck and the silo inlet pipe.

6 PAD, DISC AND AERATION NOZZLES

Suitable for tanks and silos used in different industries.

7 PRESSURE REGULATOR (SAK)

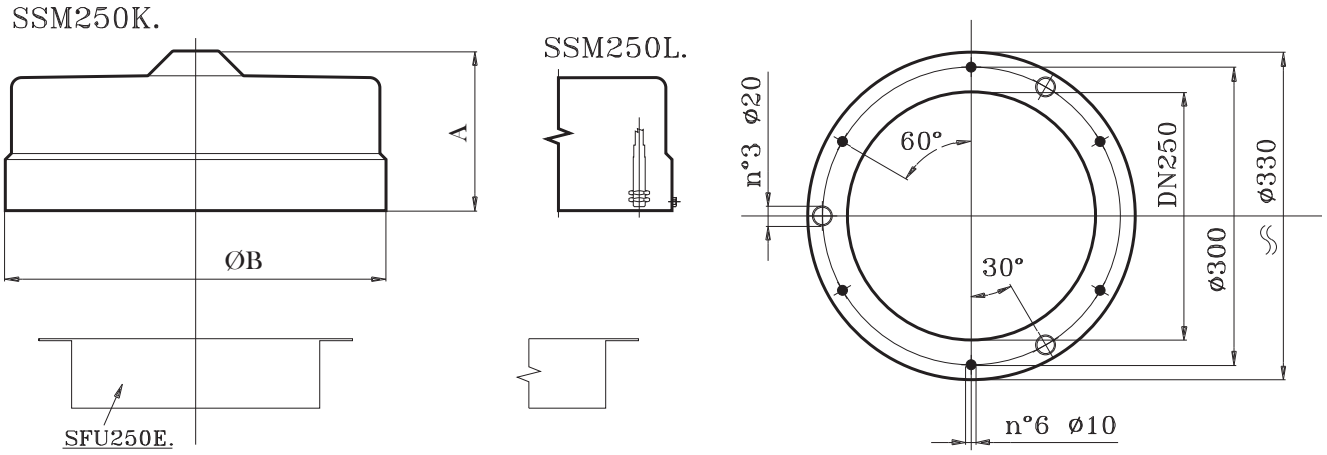
Suitable for the regulation, treatment, control of the aerated fluid and used for the connection of the different aerated elements.

FILTER 8, BUTTERFLY VALVES 9 AND PINCH VALVE 10

See specific catalogs

Pressure control

PRESSURE CONTROL VALVE - SSM250



COMBINATION TABLE

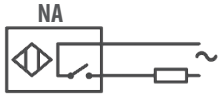
SSM | 250 | | |

Material of construction
1: Parts in contact with the product in galvanised mild steel with cover in aluminium
4: All the metallic parts are in Stainless steel AISI 304

K: With predisposition for No.2 inductive limit-switches
L: Complete with No. 2 inductive limit-switches

V = 20÷240 V AC
I min. = 5 mA
I nom. = 500 mA

NA



Working temperature
-25°C ÷ +70°C

TYPE	MATERIAL	A	Ø B	Kg
SSM250K1	Carbon Steel	156	372	7
SSM250L1	Carbon Steel	156	372	7
SSM250K4	AISI 304	136	372	7
SSM250L4	AISI 304	136	372	7

FOR EXPLOSIVE ENVIRONMENT

CODE	FINECORSA	MATERIAL OF CONSTRUCTION
20000065	With predisposition for No.2 inductive limit-switches	All the metallic parts are in Stainless steel AISI 304
20000066		Parts in contact with the product in galvanised mild steel with cover in aluminium
20000067	Complete with No. 2 inductive limit-switches 24V DC	

Because the risk assessment does not envisage peculiar trigger sources, capable of triggering a potentially explosive atmosphere, the pressure relief valve SSM250.. does not fall within the objective of the 2014/34/EU Directive and therefore it is suitable for exploitation in a potentially explosive atmosphere Z20-Z21-Z22-non classified zone.

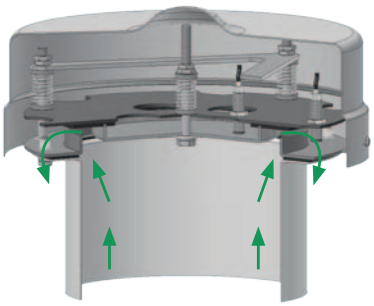
Operating overpressure

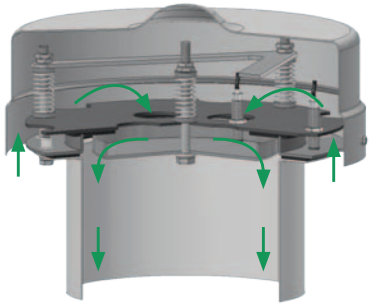
from +250 to +500 mm H_2O
factory set at +400 mm H_2O

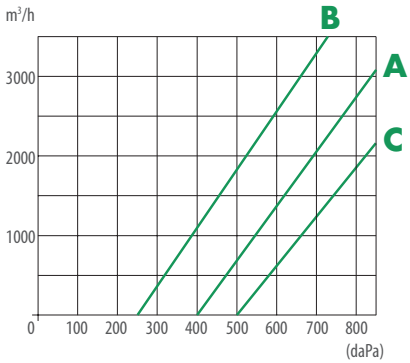
Operating underpressure

from -50 to -300 mm H_2O
factory set at -100 mm H_2O

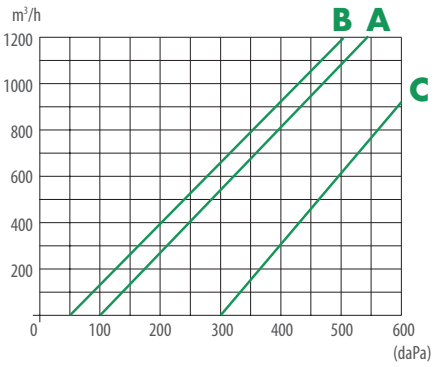
A ± 60 mm H_2O **B** ± 50 mm H_2O **C** ± 70 mm H_2O	**WORKING TOLERANCE**	**A** ± 30 mm H_2O **B** ± 20 mm H_2O **C** ± 50 mm H_2O







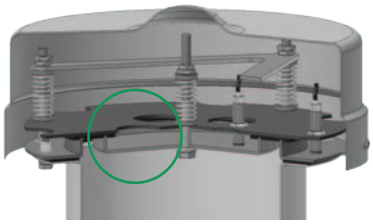
1mmH_2O = 1dapa = 0,1mbar



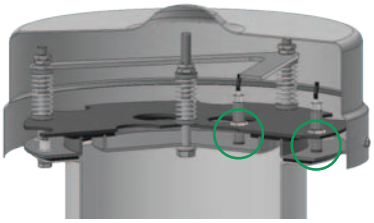
1mmH_2O = 1dapa = 0,1mbar

A = Standard supply calibration / **B** = Minimum calibration / **C** = Maximum calibration

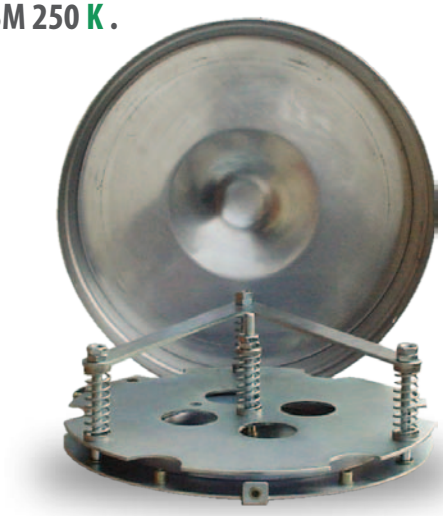
The seal is made over a reduced surface, to avoid the possible product deposit, so allowing a long life time.



The inductive limit switches (optional) allow to check possible excessive overpressure / underpressure inside the silo.



SSM 250 K .

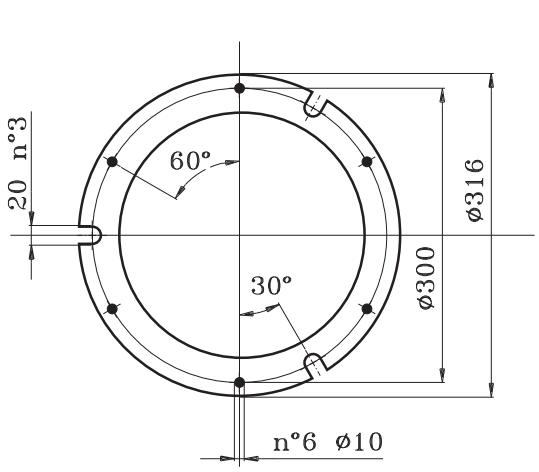


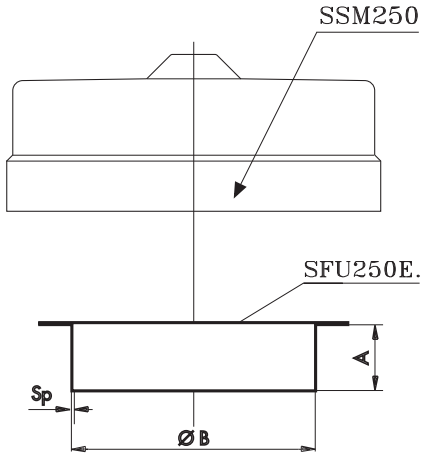
SSM 250 L .

Our pressure-relief valve has been designed to open when an abnormal pressure occurs inside a vessel. If the plant is correctly designed, and receives correct maintenance, our valve should never vent, if the pressure inside the vessel does not exceed the valve's calibration. This valve must never be considered a venting device.

Pressure control

THE BASE SPIGOT - SFU





To be ordered separately

COMBINATION TABLE

SFU 250 E

Material of construction
1: Carbon steel (complete with bolts and nuts in carbon steel)
4: Stainless steel AISI 304 (complete with bolts and nuts in Stainless steel AISI 304
8: Aluminium (complete with bolts and nuts in carbon steel)

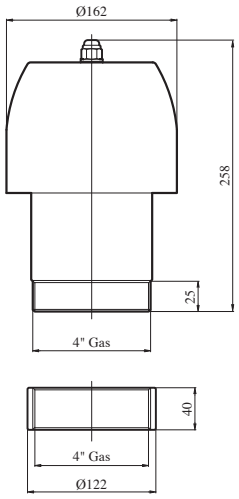
TYPE	MATERIAL	A	Ø B	Sp	Kg
SFU250E1	Carbon Steel	150	247	2	1,8
SFU250E4	AISI 304	150	247	2	1,8
SFU250E8	Aluminium	150	248	2,5	0,7

FOR EXPLOSIVE ENVIRONMENT

CODE	MATERIAL OF CONSTRUCTION
20000025	Stainless steel AISI 304 (complete with bolts and nuts in Stainless steel AISI 304
20000027	Carbon steel (complete with bolts and nuts in carbon steel)

PRESSURE CONTROL VALVE - SSM100

The SSM 100 is an over-pressure valve used on small tanks and trucks that are not subject to special legislation. The valve reduces the risk of explosion by releasing excess pressure during charging. The SSM 100 will protect equipment from possible over-pressure damage.



Operating overpressure:
da +200 a +700 mmH2O
Supplied already set: +400mmH2O
Working temperature: -10°C +80°C

TYPE	MATERIAL	kg
SSM100E1	Carbon Steel	3,6

CONNECTING KIT BETWEEN SILO AND TRUCK - SST

This kit is used for connecting between the discharge pipe on the truck and the silo inlet pipe.

SST [ ] [ ] [ ]

Material of construction
1 = Carbon steel
2 = AISI 304

Nominal diameter
080 = 80 mm
100 = 100 mm

Connected truck
A = (standard) NFE 29-572 - **GUILLEMIN**
B = DIN - **STORZ**

INDICATION OF CONNECTED TRUCK - SSF

This system,featuring a mechanical limit stop,signals when the truck's discharge pipe is connected to the silo's inlet pipe (SST), located before the pinch valve.

SSF01A [ ]

Material of construction
1 = Carbon steel
2 = AISI 304

TECHNICAL DATA		
Protection level	Working temperature	Voltage
IP65	**-25°C +80°C**	**MAX 250V AC**

Manhole

MANHOLE SSA - SSB

MIX S.R.L. manufactures inspection, maintenance, monitoring for silos and containers as a range. Two different type of valves are available with two different diameter option: DN 540 mm and DN 790 mm. Manhole can be also supplied in the version with the pre-arrangement to a pressure relief valve type SSM250.

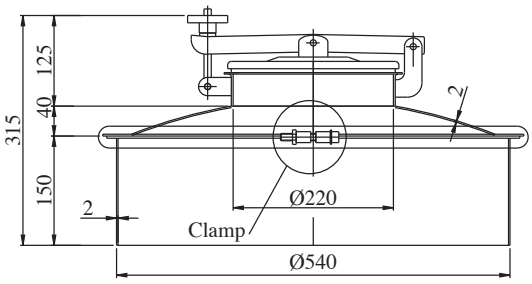
SSB

SSA

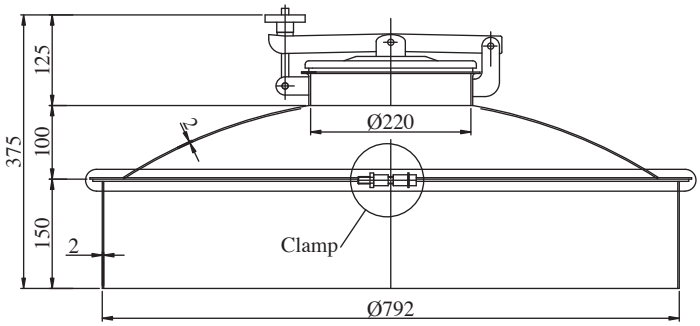
MIX manhole proves advantageous in the following respects:

- The inspection door that set on the top cover provides easy and quick inspection of the stocked product and inside the silo conditions; no inside grid hinders the visibility range;
- It provides easy maintenance access into the silo when the cover disassembled (through screwed clamps). it is very simple and practical also do not require any further safety grid;
- As no protection grid is provided by safety regulations for such a system with clamps, the manhole is screws or bolts free, that prevents to fall into the silo;
- The version complete with pressure relief valve type SSM250 can avoid explosions that caused by overpressure or implosions that caused by depressions inside the container, also the valve provides protection for unequal pressure damages on the other silo components. If the valve assembled with inductive limit switches, it enables to check the product loading and discharge while keeping their pressure quite low. Also provides monitoring for dust collector efficiency;

SSA

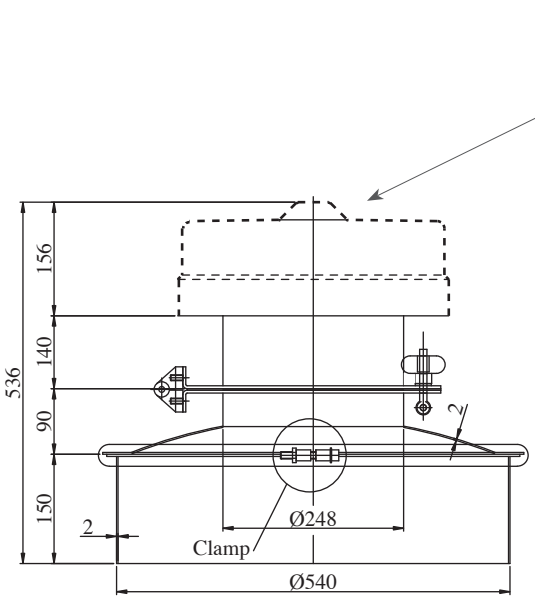


SSA540A.

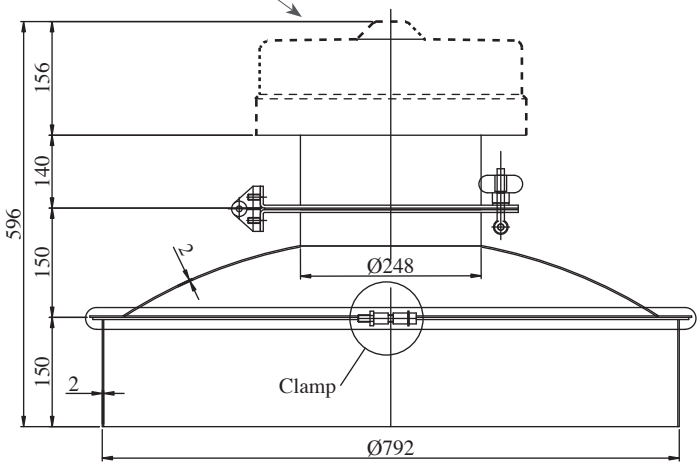


SSA790A.

SSB



SSB540A.



SSB790A.

COMBINATION TABLE

SS | | | A | |

Size
540: DN 540
790: DN 790

Material of construction
1: Carbon Steel RAL 1013
(complete with clips, bolts and nuts in mild steel)
2: Stainless Steel AISI 304
(complete with clips, bolts and nuts in mild steel)
4: Contact parts and external parts in AISI 304 *.

Complete with:
A: Inspection door
B: Inspection door with predisposition for the pressure relief valve
(base spigot type SFU250E., included in the supply)

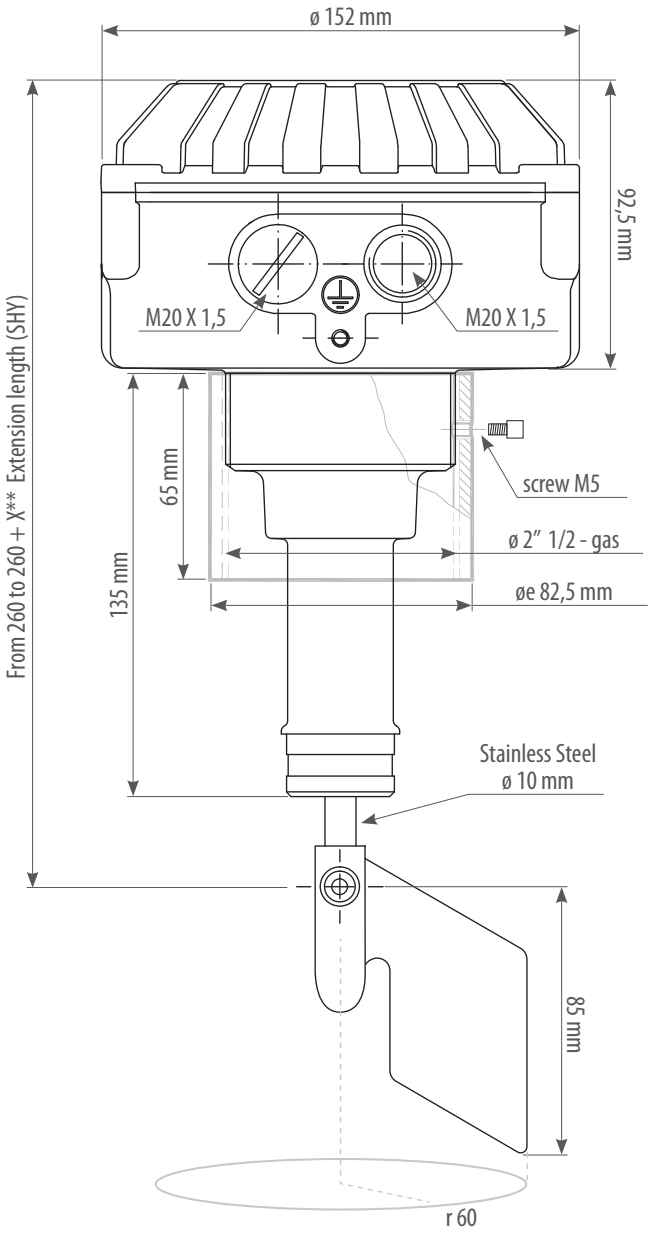
TYPE	MATERIAL	Kg
SSA540A1	Carbon Steel	15
SSA540A2	Stainless Steel AISI 304	15
SSA540A4	Stainless Steel AISI 304 (*)	15
SSA790A1	Carbon Steel	22
SSA790A2	Stainless Steel AISI 304	22
SSA790A4	Stainless Steel AISI 304 (*)	22
SSB540A1	Carbon Steel	20
SSB540A2	Stainless Steel AISI 304	20
SSB540A4	Stainless Steel AISI 304 (*)	20
SSB790A1	Carbon Steel	27
SSB790A2	Stainless Steel AISI 304	27
SSB790A4	Stainless Steel AISI 304 (*)	27

*See the combination table

Level gauges Atex

LEVEL GAUGES

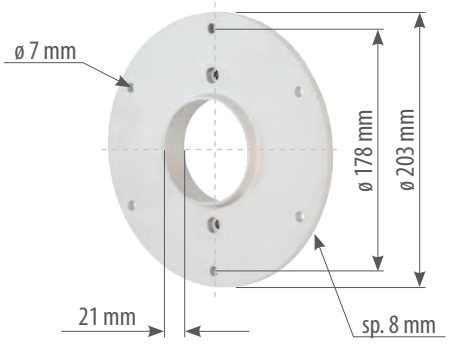
The level indicators with rotating paddle are all marked ATEX and are actuated electromechanically. They signal the presence or absence of powder or granule product with a specific weight greater than 0,6 kg/l.

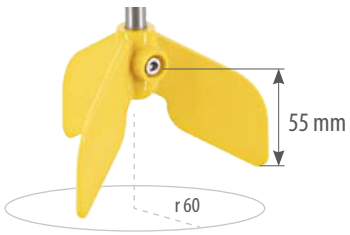
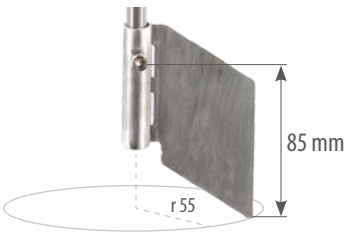
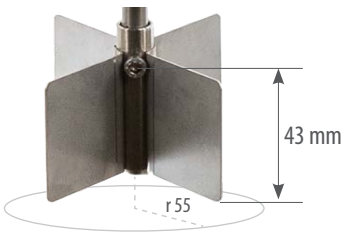


TECHNICAL DATA									
Code	Voltage	Absorp-tion	Capacity of the contacts	RPM	Casing	Attack	Sleeve	Propeller	Working temp
41FC0008	24 - 48 V AC	4 Watts	N.O. N.C. 10A/250 V AC	1	Die-cast aluminium Ral 7031 IP65	2" 1/2 GAS	Raw steel	N ° 1 Plastic blade	-20°C +70°C
41FC0010	110 - 220 V AC								
41FC0012	24 V DC								
MARKING Ex: II 1/2 D Ex ta/tb IIIC T85°C IP65 Da/Db									

On demand there are special versions available:
- high temperatures (SHA)
- parts in contact with the product in stainless steel
- shaft without protection sleeve (SHU)

OPTIONALS

OPTIONAL	
41FA0212	**41FA0326**
Sleeve for welding in stainless steel AISI 304	Flange to screw on in aluminium
	

PADDLES OPTIONAL		
41FA0304	**41FA0310**	**41FA0314**
Propeller with 3 paddles in plastic	Single propeller in stainless steel	Stainless steel quad propeller
		

EXTENSION (optional)

For special applications, the gauge can be supplied complete with an extension. The length must be specified in the order (see Key code).

COMBINATION TABLE

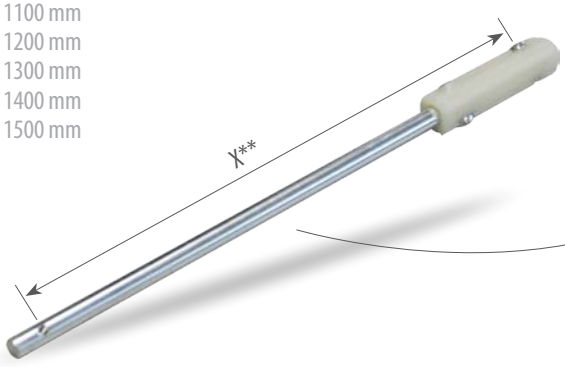
SHY	1		
Accessory	Extension	Extension length X**	Conformity

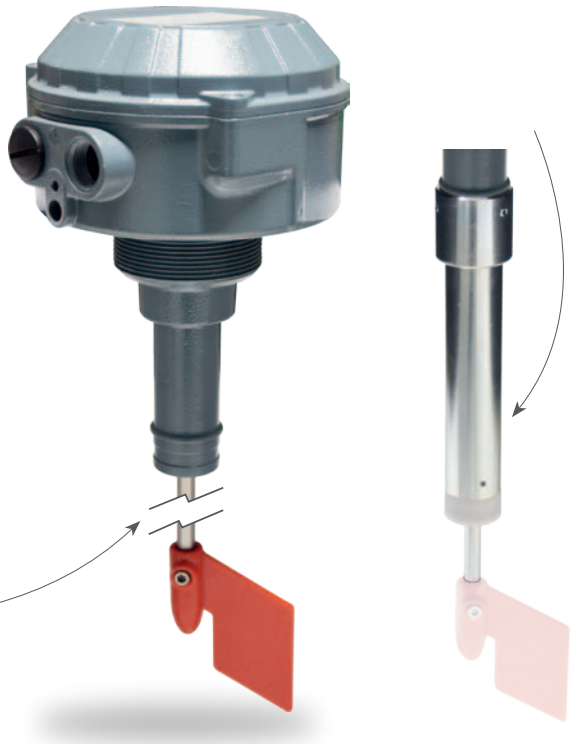
Extension length X**

0300 - 300 mm
0400 - 400 mm
0500 - 500 mm
0600 - 600 mm
0700 - 700 mm
0800 - 800 mm
0900 - 900 mm
1000 - 1000 mm
1100 - 1100 mm
1200 - 1200 mm
1300 - 1300 mm
1400 - 1400 mm
1500 - 1500 mm

Conformity

1 - Carbon steel without protection
2 - Carbon-steel with protection
3 - Stainless steel without protection
4 - Stainless steel with protection

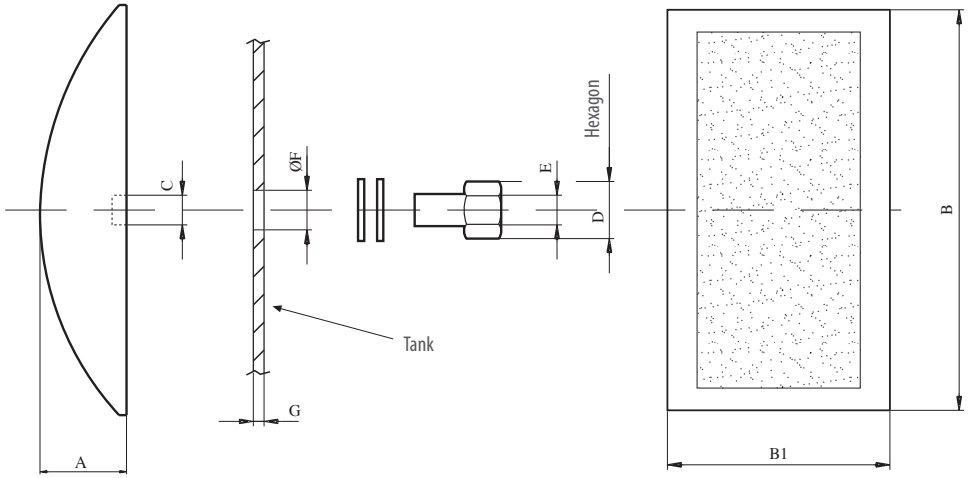




Aeration system

AERATION PAD SAA - SAB

Suitable for tanks and silos used in different industries, in particular in heavy situations or with high temperature.
Body in stainless steel AISI 304.



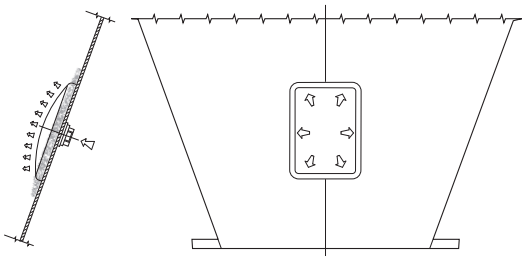
COMBINATION TABLE

SA		120	C	

Surface in cm²

Quantity of each box:
006: Box with 6 pieces
060: Box with 60 pieces
120: Box with 120 pieces
600: Box with 600 pieces

Type:
A: Aeration pad with body in stainless steel AISI 304 and fittings in stainless steel AISI 303
B: Aeration pad with body in stainless steel AISI 304 and fittings in zinc plated mild steel



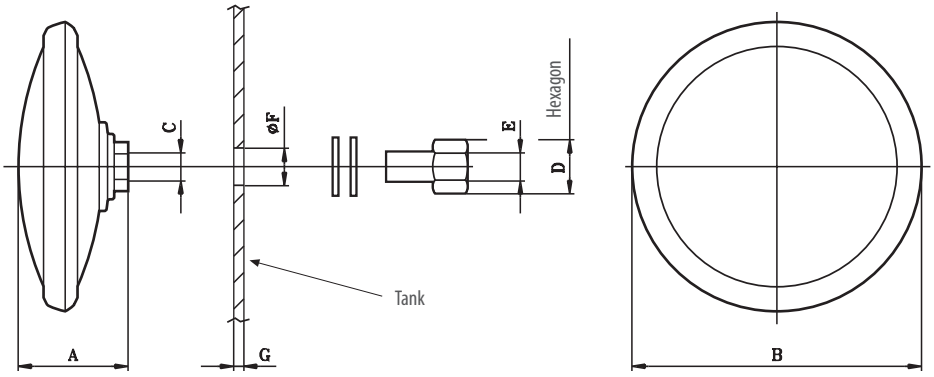
Note: The quantity and the position of the aeration plates depend on the product to be aerated, on the dimensions of the tank and on the cone's corner. For further information, please take contact with the Sales Department.

TYPE	A	B	B1	C	D	E	Ø F	G mm	Nm³/h*	Kg**	Min °C	Max °C
SAA120C...	35	162	90	1/4" Gas	20	1/4" Gas	14	0,5÷6	6	2,2	-10	+120
SAB120C...	35	162	90	1/4" Gas	20	1/4" Gas	14	0,5÷6	6	2,2	-10	+120

* Air consumption in Nm³/h for mean use of 6 aeration pads fed with SAK6 at 0,5 bar pressure.
** Weight referred to a box with 6 pieces.

AERATION TRIDIMENTIONAL DISC SAD - SAE

suitable for tanks and silos used in different industries, in particular where a very good cleaning is necessary.
Product protected by Patent registered in Italy.



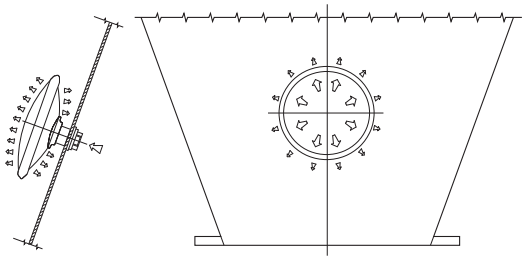
COMBINATION TABLE

SA		180	C	

Type:
D: Fittings in brass /zinc plated mild steel
E: Fittings in brass/stainless steel AISI 303

Surface in cm²

Quantity of each box:
006: Box with 6 pieces
060: Box with 60 pieces
120: Box with 120 pieces
300: Box with 300 pieces
600: Box with 600 pieces



Note: The quantity and the position of the aeration discs depend on the product to be aerated, on the dimensions of the tank and on the cone's corner.
For further information, please take contact with the Sales Department.

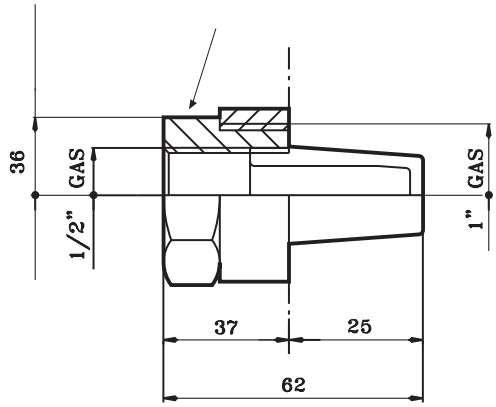
TYPE	A	B	C	D	E	Ø F	G mm	Nm³/h*	Kg**	Min °C	Max °C
SAD180C...	47	125	1/4" Gas	20	1/4" Gas	14	0,5÷6	9	1,5	-10	+70
SAE180C...	47	125	1/4" Gas	20	1/4" Gas	14	0,5÷6	9	1,5	-10	+70

* Air consumption in Nm³/h for mean use with 6 discs fed with SAK6 at 0,5 bar pressure.
** Weight referred to a box with 6 pieces.

Aeration system

AERATION NOZZLES - SUF

Suitable for small tanks or pipes, easy to mount even on existing equipments.

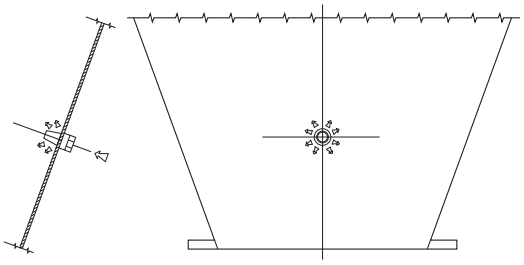


COMBINATION TABLE

SUF | 100 | | C | |

Material of construction
A: Fittings in brass/zinc plated mild steel
B: Fittings in brass/stainless steel AISI 316

Quantity of each box:
010: Box with 10 pieces
100: Box with 100 pieces
500: Box with 500 pieces



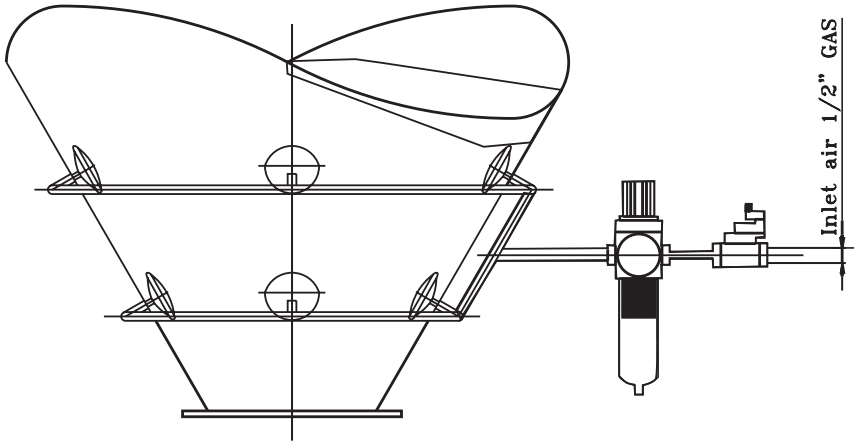
Note: The quantity and the position of the aeration nozzles SUF depend on the product to be aerated, on the dimensions of the tank and on the cone's corner. For further informations, please take contact with the Sales Department

TYPE	Material of construction	Nm³/h*	Kg**	Min °C	Max °C
SUF100AC...	Carbon steel	6	3	-20	+120
SUF100BC...	AISI 316	6	3	-10	+120

* Air consumption in Nm³/h for mean use with 10 nozzles fed with SAK10B at 0,5 bar pressure.
** Weight referred to a box with 10 pieces.

PRESSURE REGULATOR - SAK

suitable for the regulation, treatment, control of the aerated fluid and used for the connection of the different aerated elements.



COMBINATION TABLE

SAK

Combination:
6: SAA - SAB
SAD - SAE
10B: SUF

Voltage:
024: 24 V
048: 48 V
110: 110 V
230: 230 V

Frequency:
DC: Direct current D.C.
AC: Alternating current A.C. 50/60Hz

COMBINATION TABLE		
024 DC	Circa 8 W	024 AC
048 DC		048 AC
		110 AC
		230 AC

TYPE	N*	**	Nm³/h°	Kg°°
SAK 6...	6	1/4" Gas	9	1,5
SAK 10B...	10	1/4" Gas	6	1,5

* Number of aeration elements which can be mounted.
** Connection foreseen.

° Total air consumption in Nm³/h for use of N* aeration elements. Feeding pressure 6 bar, outlet 0,5 bar.
°° Weight with packing included.

EXTRACTION SYSTEMS AND COMPONENTS FOR PLANTS

QUALITY
SERVICE
TECHNOLOGY
INNOVATION

www.mixitaly.com

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Filtering Division

SKYFILTER®

ATEX-RATED PRODUCTS AVAILABLE

Quality and Innovation

AIR POLLUTION

Air pollution, with dusts emitted into the atmosphere, causes detrimental effects to people and things.

SOCIAL ENGAGEMENT

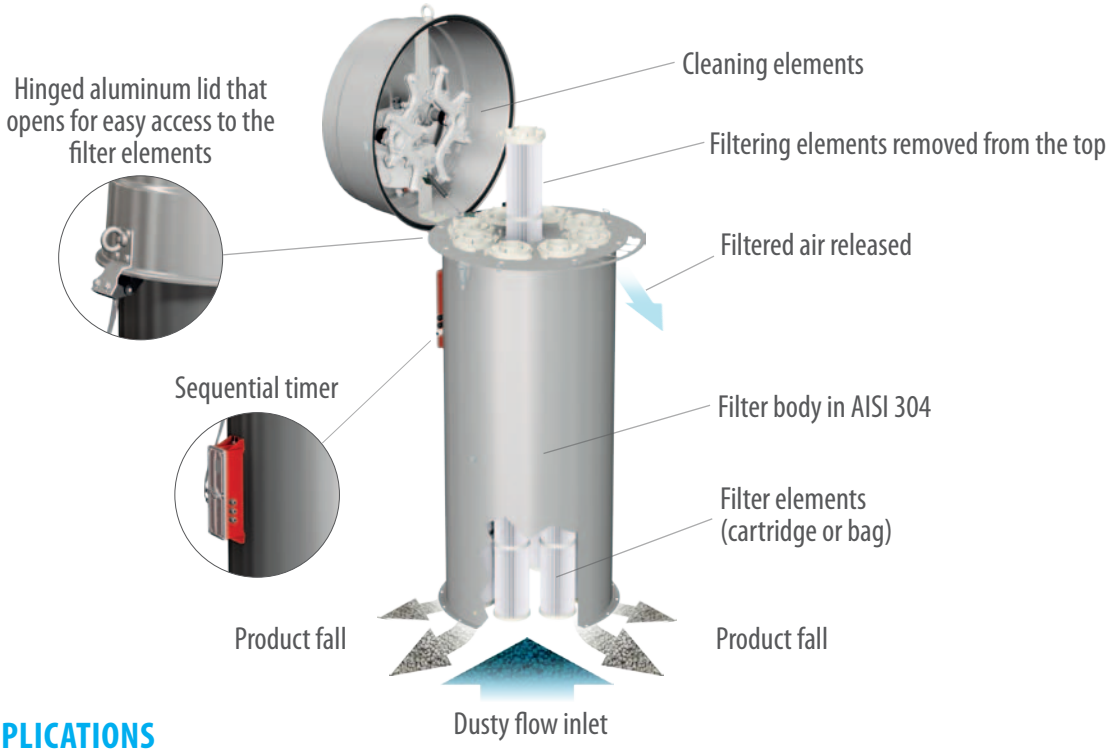
Technological progress and environmental protection, job and health, economy and ecology must proceed hand in hand; a need for the present, and a commitment for the next future.

MIX SRL PRODUCTS AND SOLUTIONS

MIX Srl has newly designed a complete series of compact filters with a round housing design and a bigger filtering surface; the easy opening design of the cover helps the access to the filtering units and to the pulse jet cleaning system.

Purpose

Dust collectors separate the dust from the air in a flow of dusty air. The dust is retained on the outside of the filtering elements, while the air passes through and is dedusted. The dust held inside the filter falls into the container below, while the clean air is released. The separation of dust from the air is never absolute: the dust collector reduce its concentration bringing it back to levels compliant with current standards.



COMMON APPLICATIONS

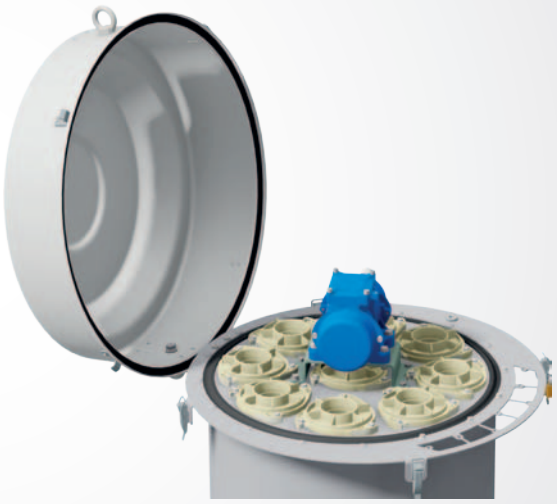
Dust aspiration from pneumatic conveying

Fan-assisted dust aspiration

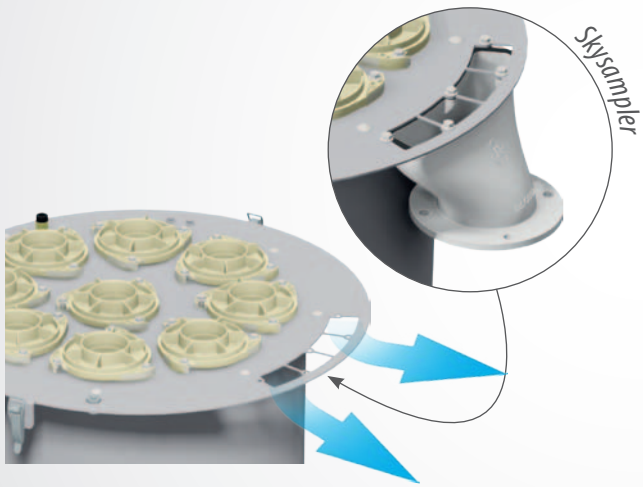
Features

REVERSE AIR JET PNEUMATIC CLEANING
with MIX sequencer

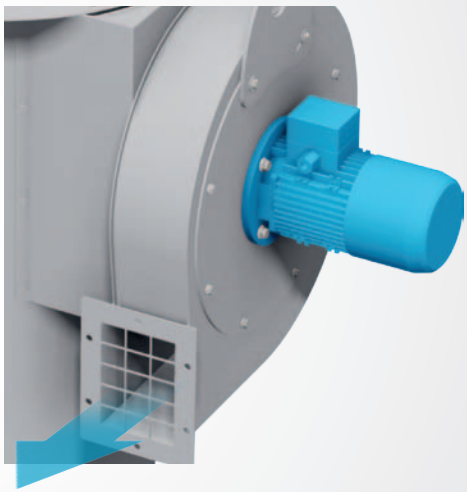
VIBRATION CLEANING



FREE DISCHARGE INTO ATMOSPHERE
or conveyed via Skysampler connection (optional)



FAN ASSISTED DISCHARGE



CARTRIDGE FILTER ELEMENTS

BAG FILTER ELEMENTS

Fabric filter element

CARTRIDGE

PREMIUM POLYESTER

"THERMAL BONDED TNT MATERIAL

- Emission <1 mg / Nm3
  NB: Obtainable after application analysis
  (minimum product particle size / filtration rate / can velocity)
- Antistatic treatment available
- Lifetime: up to 20,000 operating hours
- Cleanable by water wash
- Classification: **M** according to BGIA test
- Weight: 260 g / m^2
- Air permeability: 280 m^3 / m^2 h (200Pa)
- Low pressure drops: <700 Pa (70 mm H20)
- Low melting point heat-bonded synthetic fibers (Fig. 1)
- Homogeneous surface (Fig. 2) which increases the mechanical resistance

NB: The commercial cartridges available on the market are produced with stitch-welded fabrics (Fig.3-4) which reduce the real filtering surface by up to 35% (Fig.5) "

TNT USED BY MIX PRODUCED BY FREUDENBERG

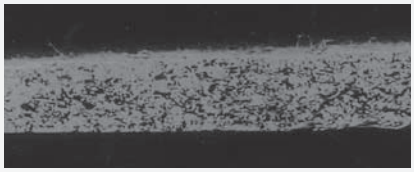


Fig.01 — *Standard 1.000 µm*

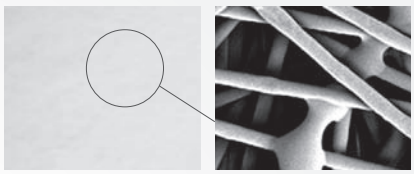


Fig.02 (smooth surface) — *Zoom heat sealing*

HIGH PERMEABILITY POLYESTER

THERMAL BONDED TNT MATERIAL

- Emission <20 mg / Nm3
  NB: Obtainable after application analysis
  (minimum product particle size / filtration rate / can velocity)
- Lifetime: up to 30,000 operating hours
- Cleanable by water wash
- Classification: **L** according to BGIA test
- Weight: 250 g / m^2
- Air permeability: 3400 m^3 / m^2 h (200Pa)
- Low pressure drops: <700 Pa (70 mm H20)
- Less cleaning cycles required
- Low melting point heat-bonded synthetic fibers (Fig. 1)
- Homogeneous surface (Fig. 2) which increases the mechanical resistance

NB: The commercial cartridges available on the market are produced with stitch-welded fabrics (Fig.3-4) which reduce the real filtering surface by up to 35% (Fig.5)

On request other types of polyester

OTHERS FABRICS

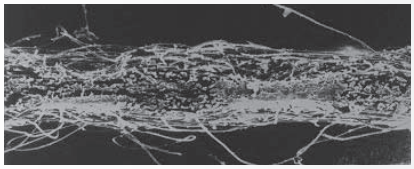


Fig.03 — *Standard 1.000 µm*

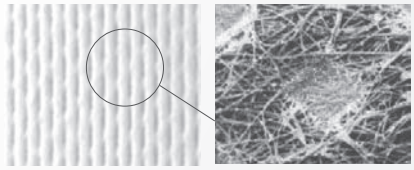


Fig.04 (spot welded surface) — *Zoom spot welding*

BAG

NEEDLED FELT

POLYESTER NEEDLE FELT MATERIAL

- Emission <5 mg / Nm3
  NB: Obtainable only with specific types of tissues and after application analysis
  (minimum product particle size / filtration rate / rate of ascent)
- Different surface treatments available (antistatic / teflon coating / heat-sealed membrane)
- Cleanable by water wash
- Classification: L or M according to BGIA test
- Weight: 450 g / m^2 or higher
- Antistaticity obtained with stainless steel fibers (Fig. 5)
- Can be installed on galvanized carbon steel cages or, on request, in stainless steel

ANTISTATIC FABRIC

Fig.05

Combination table

SF L P

Identification
/: Standard
A: Atex

Type
A: Cartridge with vibration cleaning (extraction from the top)
C: Cartridge with pulse jet cleaning (extraction from the top)*
L: Bag with pulse jet cleaning (extraction from the top)*

** Extraction from the hatch on request*

Fig.01

Air Outlet Type
A: Free discharge into atmosphere
V: Fan assisted discharge

Fig.02

Nominal Filtering Surface
(see Tav.01 e Tav.02)

Material of construction
Central body in AISI 304, cover in aluminium, electro-fan painted mild steel (if any)

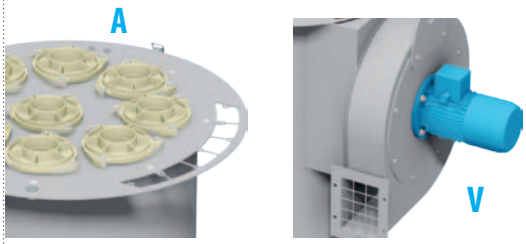
2: Other parts in contact with product in AISI 304
5: Other parts in contact with product in zinc plated mild steel

Cleaning system voltage
SFA: 230/400V 50Hz IP65
.-SFC - SFL: 24V AC/DC - 115/230V AC

Filtering media		
SFA.	.-SFC.	.-SFL.
A: Premium Polyester	A: Premium Polyester	A: Polyester (450 g/m^2)
E: Vibro Polyester	B: Antistatic Premium - Polyester	B: Antistatic Polyester (450 g/m^2)
P: Polyester	P: Polyester	* Other tissues available on request
G: High permeability polyester - SKYFILTER®	J: Water-Oil Repellent	
M: Plus Polyester	G: High permeability polyester - SKYFILTER®	
	M: Plus Polyester	

Fig.01

Fig.02



SFA type filter, with cartridge extraction from above, vibration cleaning system, free discharge into the atmosphere (**SFAA**) or complete with fan (**SFAV**)

SFC type filter, with cartridge extraction from the top, jet pulse pneumatic cleaning system, free discharge into the atmosphere (**SFCA**) or complete with fan (**SFCV**)

SFL type filter, with bag extraction from the top, jet pulse pneumatic cleaning system, free discharge into the atmosphere (**SFLA**) or complete with fan (**SFLV**)

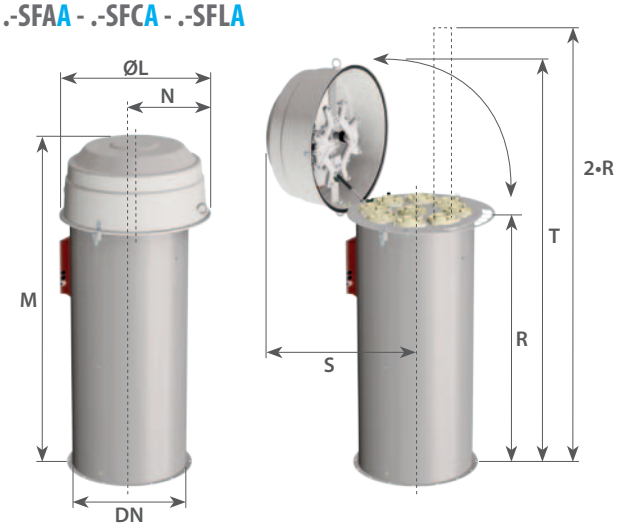
Dimensions

CARTRIDGE VERSIONS

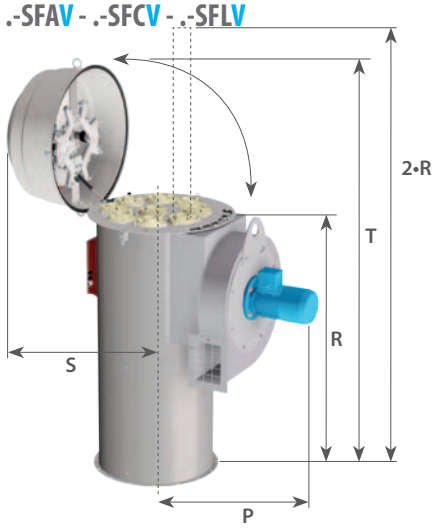
Tav.01

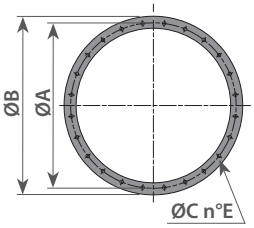
TYPE	kg	TYPE	kg	m²	Filter elements	DN	ØL	M	N	P	R	S	T	kW
SFA**A**090..LP	34	/	/	9	A - E - P	540	685	810	345	/	575	850	1255	/
SFA**A**115..LP	39	SFA**V**115..LP	87	11,5	A - E - P	540	685	935	345	780	700	850	1380	1,5
SFA**A**160..LP	45	SFA**V**160..LP	93	16	A - E - P	540	685	1205	345	780	970	850	1650	1,5
SFA**A**200..LP	51	SFA**V**200..LP	101	20	A - E - P	540	685	1455	345	805	1220	850	1900	2,2
SFA**A**270..LP	51	SFA**V**270..LP	119	27	G - M	540	685	1455	345	855	1220	850	1900	3
.-SFC**A**075..LP	35	/	/	7,5	A - B - P - J	540	685	900	345	/	575	695	1255	/
.-SFC**A**100..LP	40	.-SFC**V**100..L.	88	10	A - B - P - J	540	685	1025	345	780	700	695	1380	1,5
.-SFC**A**105..LP	35	/	/	10,5	G - M	540	685	900	345	/	575	695	1255	/
.-SFC**A**140..LP	40	.-SFC**V**140..L.	88	14	G - M	540	685	1025	345	780	700	695	1380	1,5
.-SFC**A**142..LP	46	.-SFC**V**142..L.	94	14,2	A - B - P - J	540	685	1295	345	780	970	695	1650	1,5
.-SFC**A**180..LP	51	.-SFC**V**180..L.	101	18	A - B - P - J	540	685	1545	345	805	1220	695	1900	2,2
.-SFC**A**190..LP	46	.-SFC**V**190..L.	96	19	G - M	540	685	1295	345	805	970	695	1650	2,2
.-SFC**A**200..LP	54	.-SFC**V**200..L.	104	20	A - B - P - J	540	685	1545	345	805	1220	695	1900	2,2
.-SFC**A**240..LP	51	.-SFC**V**240..L.	119	24	G - M	540	685	1545	345	855	1220	695	1900	3
.-SFC**A**270..LP	54	.-SFC**V**270..L.	122	27	G - M	540	685	1545	345	855	1220	695	1900	3
.-SFC**A**280..LP	94	.-SFC**V**280..L.	172	28	A - B - P - J	790	965	1270	525	1010	970	825	1915	3
.-SFC**A**350..LP	107	.-SFC**V**350..L.	190	35	A - B - P - J	790	965	1520	525	1035	1220	825	2165	4
.-SFC**A**380..LP	94	.-SFC**V**380..L.	205	38	G - M	790	965	1270	525	1205	970	825	1915	5,5
.-SFC**A**440..LP	117	.-SFC**V**440..L.	228	44	A - B - P - J	790	965	1520	525	1205	1220	825	2165	5,5
.-SFC**A**480..LP	107	.-SFC**V**480..L.	225	48	G - M	790	965	1520	525	1245	1220	825	2165	7,5
.-SFC**A**600..LP	117	.-SFC**V**600..L.	325	60	G - M	790	965	1520	525	1290	1220	825	2165	11

.-SFA**A** - .-SFC**A** - .-SFL**A**



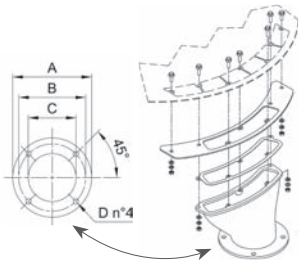
.-SFA**V** - .-SFC**V** - .-SFL**V**





DN	ØA	ØB	ØC	n°E
540	570	590	9	16
790	820	840	9	24

DN	A	B	C	D
540	Ø 165	Ø 140	Ø 100	Ø 11
790	Ø 228	Ø 200	Ø 158	Ø 14



SKYSAMPLER (OPTIONAL)

DN	Mounted to the filter	Delivered unassembled (complete with gasket and bolts)
540	SKS100C8B	SKS100C8A
790	SKS168D8B	SKS168D8A

BAG VERSIONS

Tav.02

TYPE	kg	TYPE	kg	m²	Filtering Elements	DN	ØL	M	N	P	R	S	T	kW
.-SFL**A**020..LP	38	.-SFL**V**020..L.	76	2	A - B	540	685	1025	345	755	700	695	1380	0,75
.-SFL**A**030..LP	43	.-SFL**V**030..L.	81	3	A - B	540	685	1295	345	755	970	695	1650	0,75
.-SFL**A**040..LP	49	.-SFL**V**040..L.	97	4	A - B	540	685	1545	345	780	1220	695	1900	1,5
.-SFL**A**046..LP	78	.-SFL**V**046..L.	136	4,6	A - B	790	965	1000	525	935	700	825	1645	1,5
.-SFL**A**048..LP	55	.-SFL**V**048..L.	103	4,8	A - B	540	685	1775	345	780	1450	695	2130	1,5
.-SFL**A**070..LP	92	.-SFL**V**070..L.	150	7	A - B	790	965	1270	525	935	970	825	1915	1,5
.-SFL**A**090..LP	106	.-SFL**V**090..L.	164	9	A - B	790	965	1520	525	935	1220	825	2165	1,5
.-SFL**A**110..LP	120	.-SFL**V**110..L.	180	11	A - B	790	965	1750	525	960	1450	825	2395	2,2
.-SFL**A**135..LP	150	.-SFL**V**135..L.	210	13,5	A - B	790	965	2100	525	960	1800	825	2745	2,2

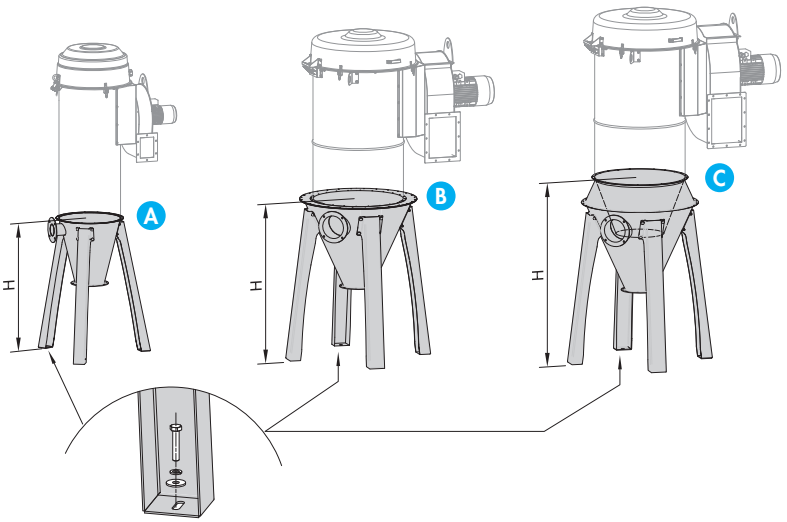
Hopper compatibility

FILTER	HOPPER				FILTER	HOPPER			
	N-SFTEF10C1H.N	N-SFTEF20D1H.N	N-SFTEF22EAH.N	N-SFTEF22ECH.N		N-SFTEF10C1H.N	N-SFTEF20D1H.N	N-SFTEF22EAH.N	N-SFTEF22ECH.N
CARTRIDGE VERSIONS									
SFAA090.	✔				/				
SFAA115.	✔				SFAV115.	✔			
SFAA160.	✔				SFAV160.	✔			
SFAA200.	✔				SFAV200.	✔			
SFAA270.	✔				SFAV270.	✔			
.-SFCA075.	✔				/				
.-SFCA100.	✔				.-SFCV100.	✔			
.-SFCA105.	✔				/				
.-SFCA140.	✔				.-SFCV140.	✔			
.-SFCA142.	✔				.-SFCV142.	✔			
.-SFCA180.	✔				.-SFCV180.	✔			
.-SFCA190.	✔				.-SFCV190.	✔			
.-SFCA200.	✔				.-SFCV200.	✔			
.-SFCA240.	✔				.-SFCV240.	✔			
.-SFCA270.	✔				.-SFCV270.	✔			
.-SFCA280.		✔			.-SFCV280.		✔		
.-SFCA350.		✔			.-SFCV350.		✔		
.-SFCA380.			✔		.-SFCV380.			✔	
.-SFCA440.			✔		.-SFCV440.			✔	
.-SFCA480.			✔		.-SFCV480.			✔	
.-SFCA600.				✔	.-SFCV600.				✔
BAG VERSIONS									
.-SFLA020.	✔				.-SFLV020.	✔			
.-SFLA030.	✔				.-SFLV030.	✔			
.-SFLA040.	✔				.-SFLV040.	✔			
.-SFLA046.		✔			.-SFLV046.		✔		
.-SFLA048.	✔				.-SFLV048.	✔			
.-SFLA070.		✔			.-SFLV070.		✔		
.-SFLA090.		✔			.-SFLV090.		✔		
.-SFLA110.		✔			.-SFLV110.		✔		
.-SFLA135.		✔			.-SFLV135.		✔		

TABLE OF TYPES

Rif.	TYPE	H (mm)
A	N-SFTEF10C1H.N	1207
	N-SFTEF20D1H.N	1349
B	N-SFTEF22EAH.N	1408
C	N-SFTEF22ECH.N	1628

For more information see the Accessories filters catalogue



Combination table DN 950

	- Y		L		5			S

Identification
N: Standard
A: Atex

SKY series

Filtering elements
L: Bag DN120 (fig.04)

Housing diameter
5: DN 950

Nominal filtering surface
See specific data sheet
Example
B16: 16 mq

Operating Condition:
Atmospheric

Filtering elements extraction

E	F
fig.01	fig.02

Air Outlet Type
A: free discharge to atmosphere (fig.05)
H: unload with Electric fan (fig.06)
M: Unload with Electric fan with Electrical panel

Fig.01

Fig.02

Fig.04

Fig.05

Fig.06

	A						S	A

Review

Tipo	Potenza motore ventilatore
E	1,5 kW
G	2,2 kW
Z	Senza Ventilatore

Finishing

Sequencer Voltage
6: (24V AC/DC - 115/230V AC)
8: (24V AC/DC - 115/230V AC) with pressure differential

Structural frame manufacturing material
1: Central body in carbon steel painted, aluminum cover, zinc plated carbon steel disc
2: Parts in contact with product in AISI 304
5: Central and upper housing in AISI 304, Carbon Steel or Aluminium cover, galvanised Carbon Steel dish

Fan motor voltage
Z: Without electric fan
1: 400V, 50Hz three-phased
2: 460V, 60Hz three-phased
3: 380V, 60Hz three-phased

Filtering fabric features
BAG FABRICS - Polyester needle felt

Type	g/m²	Antistatic	Diaphragm	Notes
13	450	/	/	/
14	450	✔	/	Stainless steel fibres
16	550	/	/	/
17	470	/	✔	Polyurethane diaphragm **15**
18	550	✔	/	Teflon-coated Stainless steel fibres
19	550	/	✔	PTFE diaphragm **3**
20	450	/	/	Teflon-coated
21	550	/	/	Teflon-coated
22	550	✔	/	Stainless steel fibres
23	500	✔	✔	Stainless steel fibres - PTFE diaphragm **3**
24	500	/	✔	PTFE diaphragm **5**
25	500	✔	✔	Stainless steel fibres - PTFE diaphragm **5**

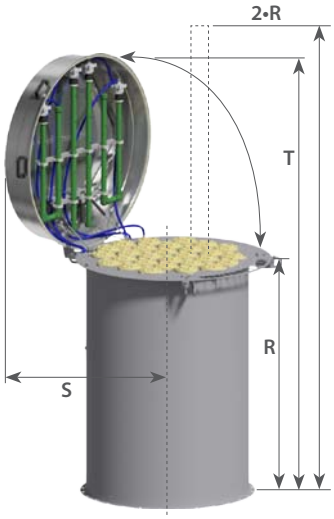
Packing unit
A: Vertical on pallet fully assembled

Dimensions

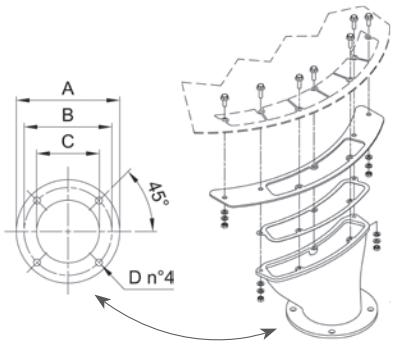
Tav.02

BAG VERSIONS

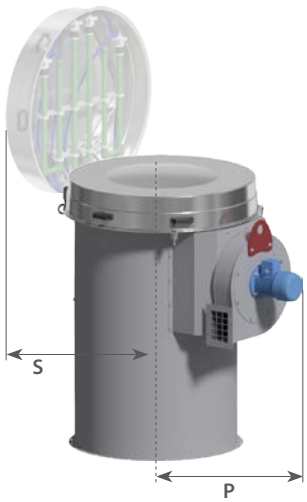
TYPE	DN	ØL	M	N	P	R	S	T	kg	m²	kW
.-Y.L**A**5B16S.A..ZZ.SA	950	1210	1640	630	/	1400	790	2530	132	16	/
.-Y.L**A**5B21S.A..ZZ.SA	950	1210	2225	630	/	1985	790	3115	170	21	/
WITH FAN											
.-Y.L**H**5B16S.A..E..SA	950	1210	1640	630	1040	1400	790	2530	168	16	1,5
.-Y.L**H**5B21S.A..G..SA	950	1210	2225	630	1065	1985	790	3115	212	21	2,2

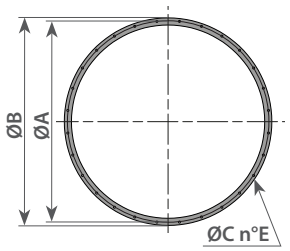


SKYSAMPLER (OPTIONAL)		
DN	Mounted to the filter	Delivered unassembled (complete with gasketand bolts)
950	SKS168E8B	SKS168E8A



DN	A	B	C	D
950	Ø 228	Ø 200	Ø 158	Ø 14





DN	ØA	ØB	ØC	n°E
950	996	1024	11	28

FILTERING SYSTEMS AND COMPONENTS FOR PLANTS

QUALITY
SERVICE
TECHNOLOGY
INNOVATION

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MIX S.r.l.
MIXING SYSTEMS AND
COMPONENTS FOR PLANTS

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Filtering Division

Dust collectors

ATEX-RATED PRODUCTS AVAILABLE

Quality and Innovation

AIR POLLUTION

Air pollution, with dusts emitted into the atmosphere, causes detrimental effects to people and things.

SOCIAL ENGAGEMENT

Technological progress and environmental protection, job and health, economy and ecology must proceed hand in hand; a need for the present, and a commitment for the next future.

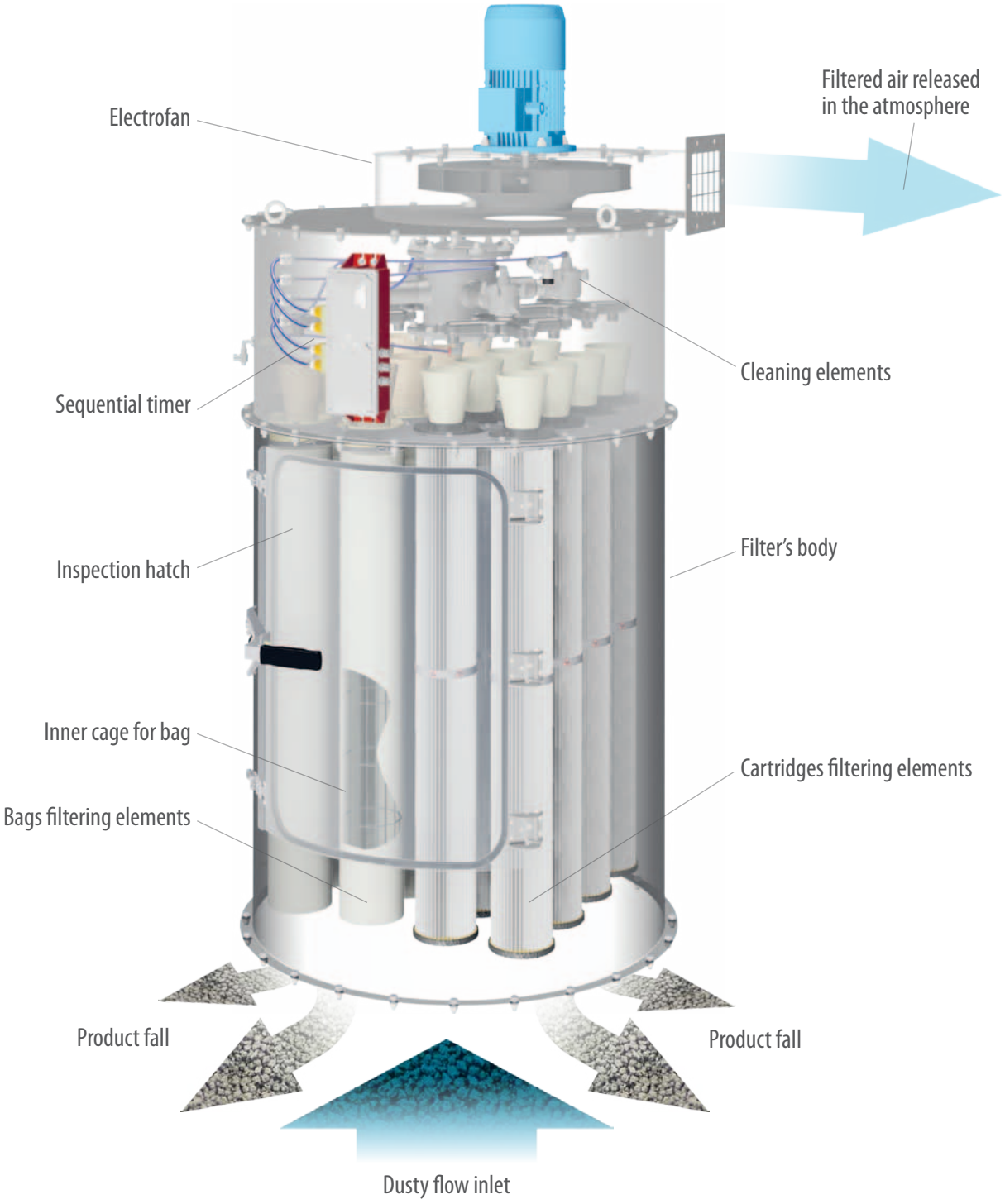
MIX SRL PRODUCTS AND SOLUTIONS

Mix srl has designed a complete range of dust collectors, with round or rectangular shape; good working solutions and different filtering surfaces, up to 400 sq. m. and more.

DUST COLLECTORS WITH ROUND SHAPE

Purpose

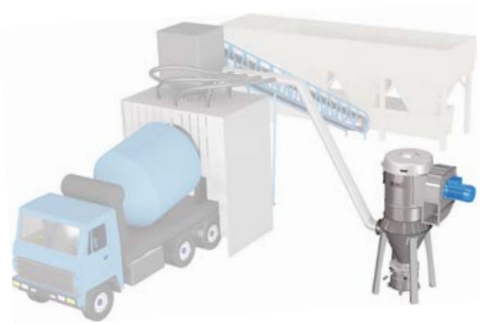
Dust collectors are designed to separate dusts conveyed by a dusty air flow. Powders must be kept outside the filtering element, while the fluid passes through the filter cloth and becomes de-dusted.
Dusts which remain inside the dust collector fall inside a container, set under the dust collector; while the clean air is released into the atmosphere. The separation of dust from air is never complete: the filter's task is to reduce the dust rate, and to bring it back to the levels permitted by laws.



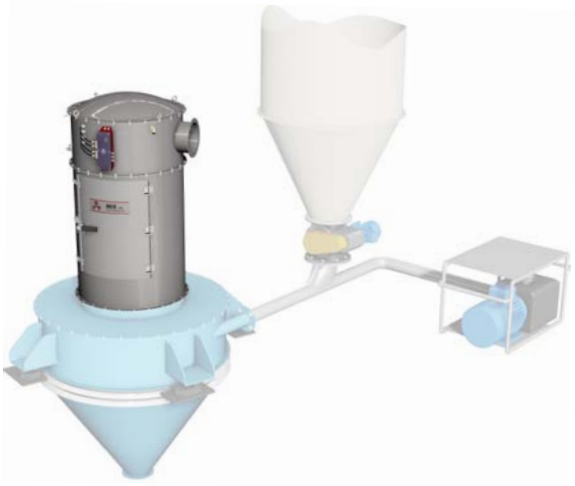
Application areas

Our Company is specialized in design and manufacture of dust collectors for the applications below:

FAN-ASSISTED DUST ASPIRATION



DUST ASPIRATION FROM PNEUMATIC CONVEYING



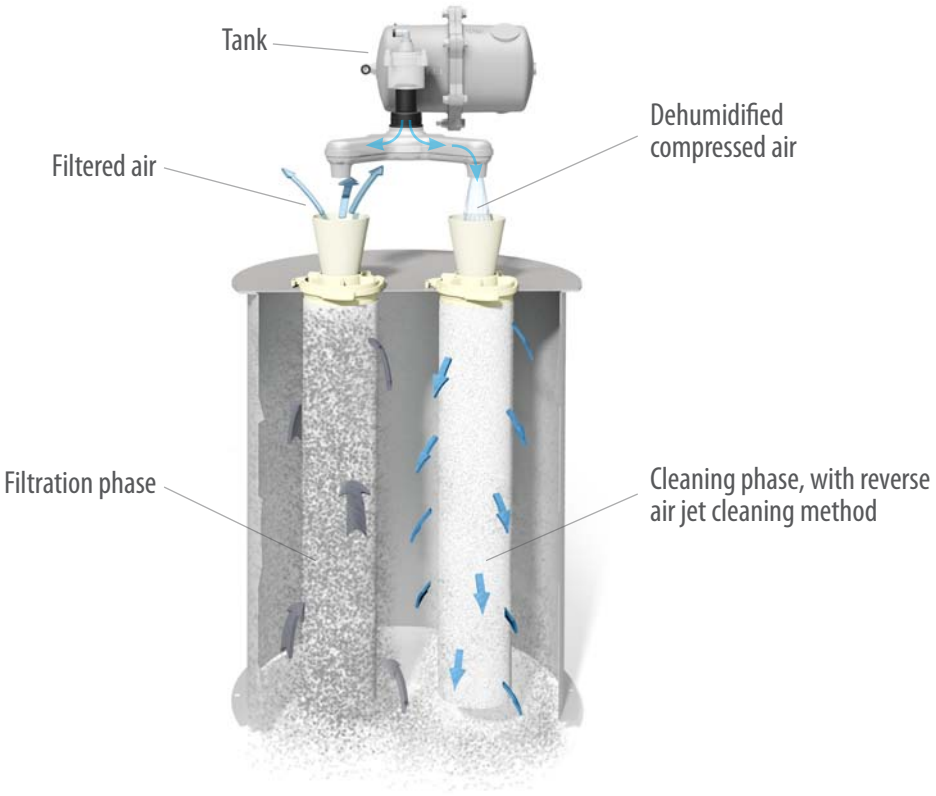
DUST ASPIRATION FROM VACUUM CONVEYING

Cleaning Method

Self-cleaning dust collectors are provided with proper cleaning methods that periodically cleanse the filtering elements.

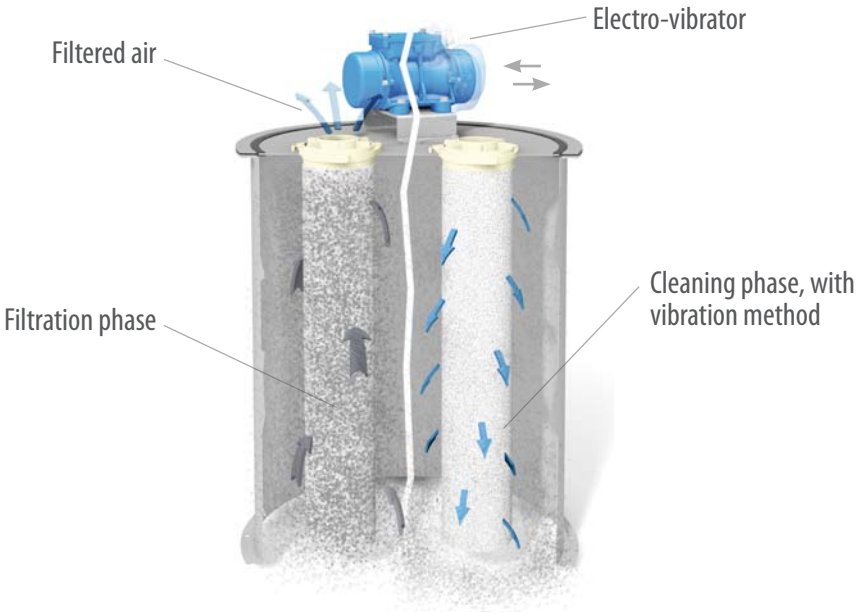
REVERSE AIR JET CLEANING METHOD

A buffer tank is fed with dehumidified compresses air; the ends are connected to a group of "impulse valves". A sequencer, complete with a programmable timer, sends its impulses to the "impulse valves", which open themselves outright, and let the compressed air go out from the buffer tank towards the filtering elements; the dust is detached from the outer surface of the filtering element.



VIBRATION CLEANING METHOD

An electric vibrator, fed with electric power, is installed above the bag-holder / cartridge-holder disc. The vibrator carries out some vibration cycles, where all the filtering elements are shaken. This solution is cheap, but less efficient than the previous one.



Bags and Cartridges filtering elements

FILTERING BAGS

Manufactured of a specific soft cloth, with a cylindrical shape, our bags have filtering surfaces calculated multiplying their diameters by their height.

FILTERING CARTRIDGES

Manufactured of a non-woven rigid cloth, star-shaped, our filtering cartridges have filtering surfaces determined multiplying the amount of folds by the length of folds, and the height of the cartridges. If we consider the same diameter and the same amount of filtering elements and the same height, the filtering surface obtained with cartridges is 3 up to 4 times higher than the surface obtained with a bag filter. Filtering cartridges are suitable for all dry products except for perishable food powder.

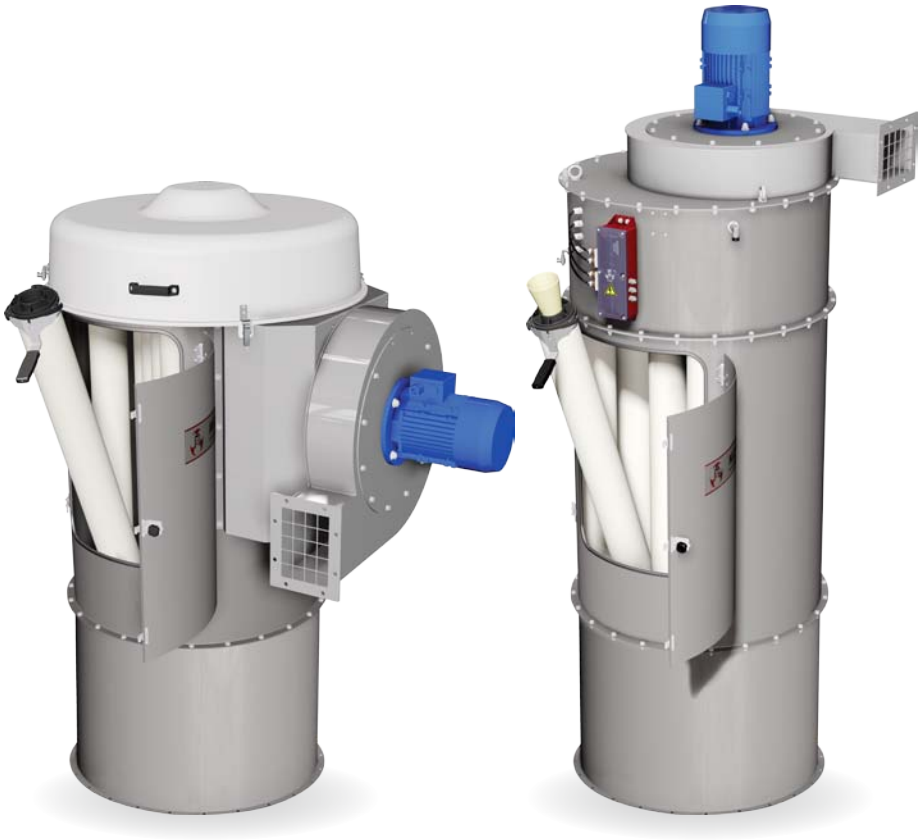
AVAILABLE BAGS FABRICS
Polyester needle felt
Antistatic polyester needle felt
Polyester needle felt with a polyurethane film
Antistatic polyester needle felt Teflon coated
Polyester needle felt with Teflon coat
Antistatic polyester needle felt with a P.T.F.E. membrane
Polyester needle felt with P.T.F.E. membrane

AVAILABLE CARTRIDGES FABRICS
Premium Polyester
Antistatic Premium Polyester
Vibro-Polyester
SKYFILTER®
Water- and Oil- Repellent Polyester
Polyester Plus
Polyester

Maintenance of the filtering elements

The life of filtering elements depends very much on the filter exploitation, and on the characteristics of the filtered product. It is possible to extend the life of filtering elements, by cleaning them (with compressed air, or with water)

Accessing to filtering elements: from the top, or through an access door in the side. For both cases, the dust collector is equipped with a tool for the quick installation and dismounting of the filtering elements.



FILTERING ELEMENTS REMOVED FROM A SIDE ACCESS DOOR

FILTERING ELEMENTS REMOVED FROM THE TOP

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Technical data sheet

Interception

ATEX RANGE AVAILABLE

Butterfly Valve Combination table

	-	SVA	H						

Identification
N: Standard
A: Atex II 2/3D Ex h IIIB T100°C Db/Dc X

Classification
MSD

Nominal diameter
100 - 150 - 200 - 250
300 - 350 - 400

Shaft
A2: Square drive shaft ISO 5211
C2: Splined drive shaft DIN 5482
K2: Extended square drive shaft ISO 5211
L2: Extended splined drive shaft DIN 5482

Fig.01

Seal
A: Standard powder seal in atmospheric pressure
B: Seal tested to 0,2 bar over/under pressure (tested at ambient temperature)

Body of the valve always in aluminium alloy.
Closing Disk and profile of the seal:
6: closing disk in aluminium alloy, low seal
7: closing disk in stainless steel AISI304, low seal
8: closing disk in stainless steel AISI304, high seal, covering the inside of the body and the flanges
9: closing disk in aluminium alloy, high seal, covering the inside of the body and the flanges

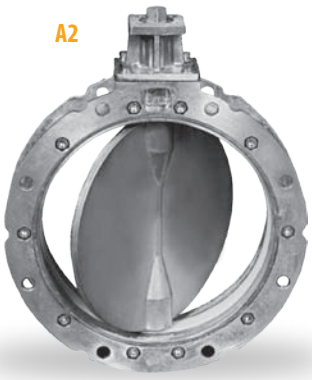
MATERIAL OF THE SEAL AND WORKING TEMPERATURES

VERSION	MATERIAL	COLOR	PROFILE	STANDARD	ATEX
1	NBR	White	High / Low	-20°C / + 100°C	-20°C / + 100°C
2	NBR Certificate FDA		High	-20°C / + 100°C	
5	HNBR-THERBAN	Black	High / Low	-25°C / + 150°C*	
9	NBR Certificate 1935/2004**	White	High	-20°C / + 100°C	

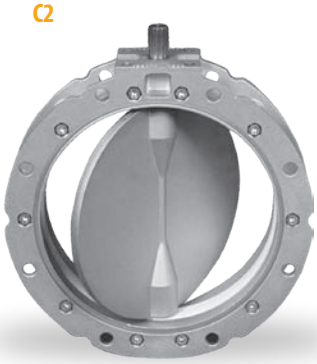
* Possibility of range -25°C / +230°C with specific construction solutions IL0945 applicable only for extended drive shaft versions and Viton seal
** Valve with Declaration of conformity for food contact according to Regulations (EC) n. 1935/2004 and 2023/2006

Fig.01

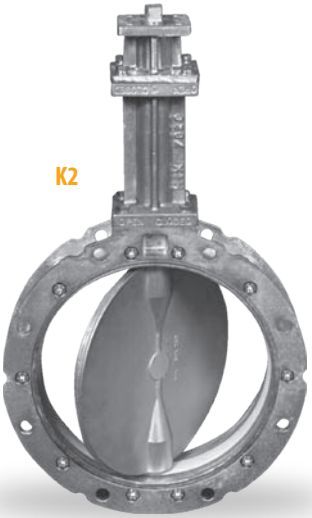
A2



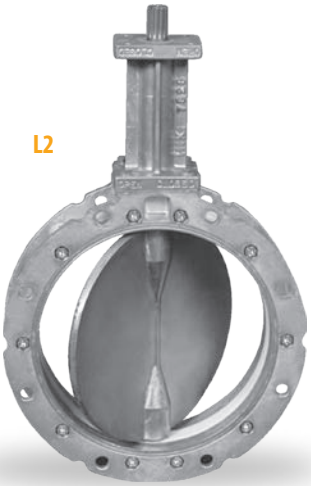
C2



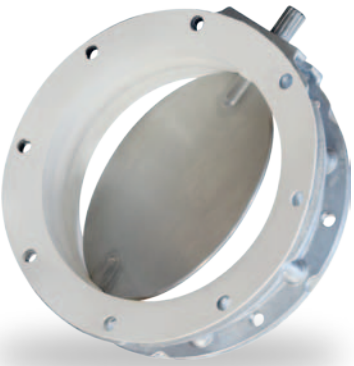
K2



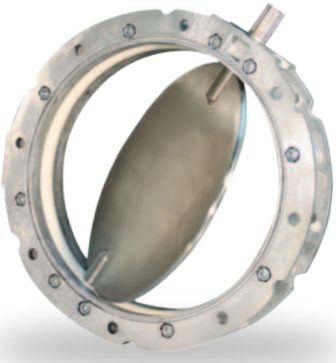
L2



Seal covering the whole inside body and the flanges "HIGH"

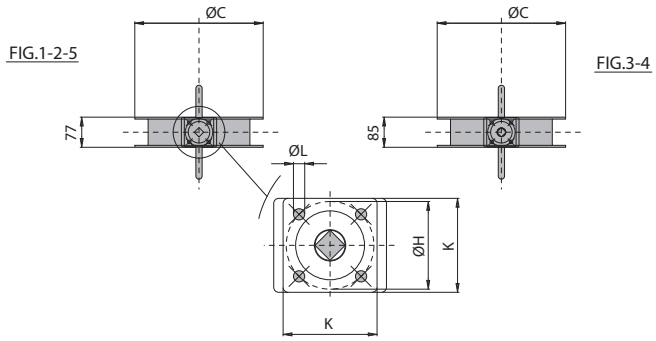


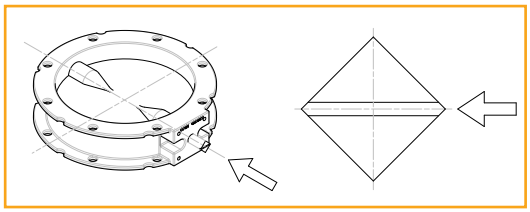
Seal only in the closing area of the disk "LOW"



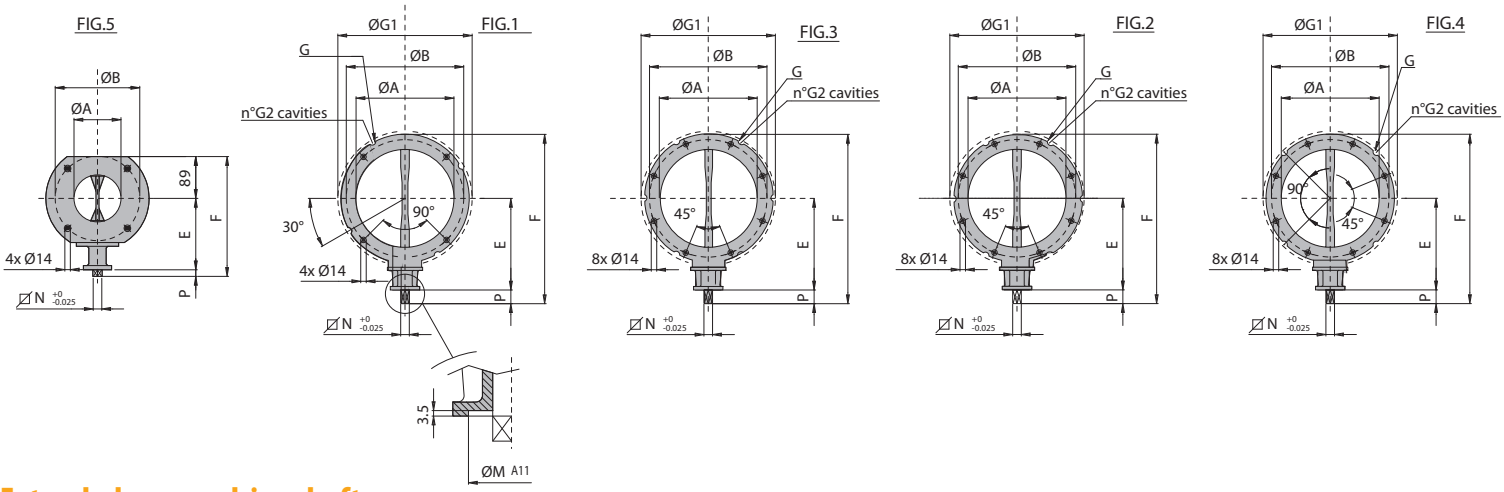
Dimensions

.-SVAH...A2... / .-SVAH...K2...

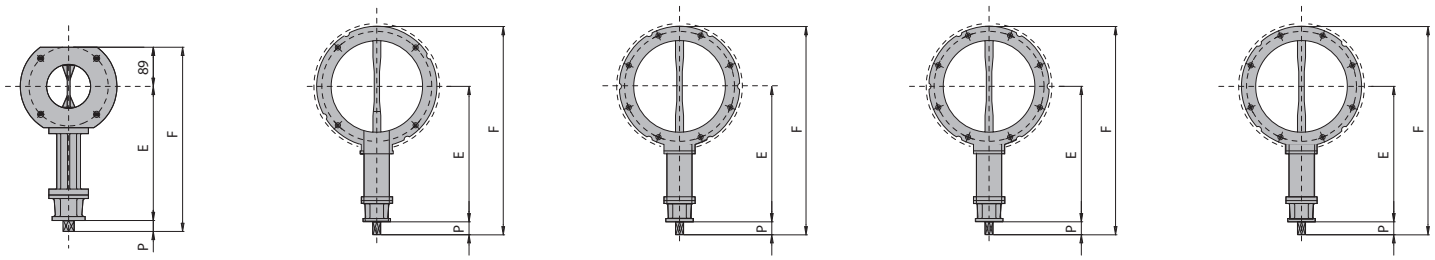




Square drive shaft



Extended square drive shaft



			.-SVAH....2...																A2...			K2...		
TYPE	Inch	mm	Fig.	ISO	A	B	C	G	G1	G2	PN	ND	H	K	L	M	N	P	E	F	kg	E	F	kg
.-SVAH100.2...	4"	100	5	F05	100	180	220	/	/	/	10	10	50	60	7	35	14	14	152	255	5	306	409	6,3
.-SVAH150.2...	6"	150	1	F07	150	200	228	9	225	4	6	6	70	75	9	55	17	16	177	307	5,5	331	461	6,8
.-SVAH200.2...	8"	200	1	F07	200	250	278	9	280	4	6	6	70	75	9	55	17	16	202	356	7,5	356	510	8,8
.-SVAH250.2...	10"	250	2	F07	250	300	328	9	335	6	6	6	70	75	9	55	17	16	227	406	8,5	381	560	9,8
.-SVAH300.2...	12"	300	2	F07	300	350	378	11	395	6	6	6	70	75	9	55	17	16	252	456	11,5	406	610	12,8
.-SVAH350.2...	14"	350	3	F10	350	400	440	11	445	6	6	6	102	105	11	70	22	25	289	534	20	489	735	21,8
.-SVAH400.2...	16"	400	4	F10	400	470	530	12,5	515	4	10	10	102	105	11	70	22	25	314	604	23	514	804	24,8

Dimensions

.-SVAH...C2... / .-SVAH...L2...

FIG.1-2-5

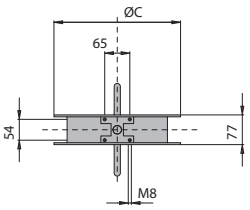
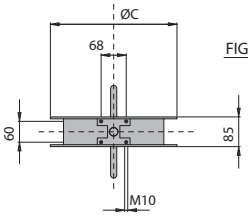
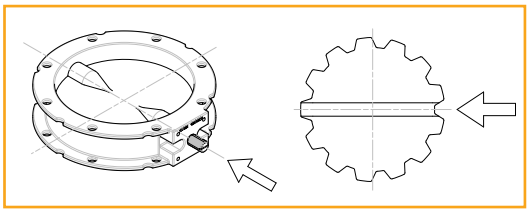


FIG.3-4





Splined drive shaft

FIG.5

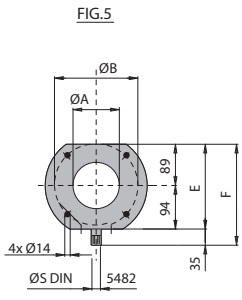


FIG.1

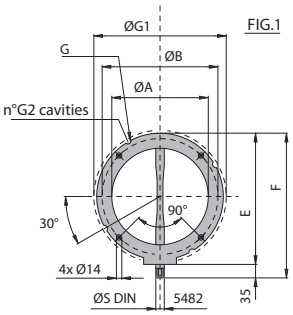


FIG.3

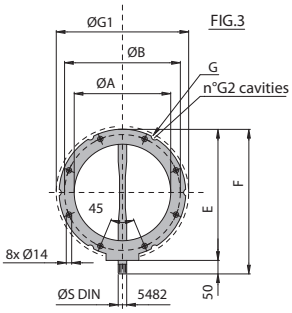


FIG.2

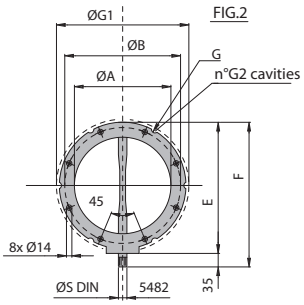
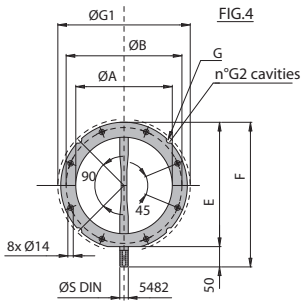
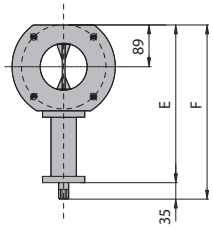
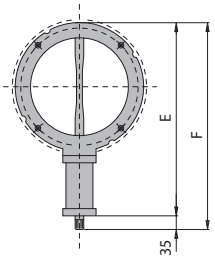


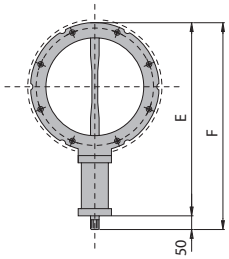
FIG.4

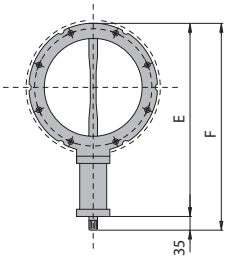


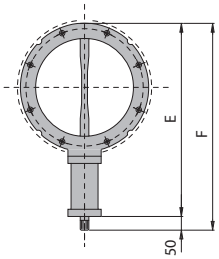
Extended splined drive shaft











			.-SVAH....2...										C2...			L2...		
TYPE	Inch	mm	Fig.	A	B	C	G	G1	G2	PN	ND	S	E	F	kg	E	F	kg
.-SVAH100.2...	4″	100	5	100	180	220	/	/	/	PN10	ND10	22x19	183	218	4,5	337	372	5,8
.-SVAH150.2...	6″	150	1	150	200	228	9	225	4	PN6	ND6	22x19	233	268	5	387	422	6,3
.-SVAH200.2...	8″	200	1	200	250	278	9	280	4	PN6	ND6	22x19	282	317	7	436	471	8,3
.-SVAH250.2...	10″	250	2	250	300	328	9	335	6	PN6	ND6	22x19	332	367	8	486	521	9,3
.-SVAH300.2...	12″	300	2	300	350	378	11	395	6	PN6	ND6	22x19	382	417	11	536	571	12,3
.-SVAH350.2...	14″	350	3	350	400	440	11	445	6	PN6	ND6	28x25	439	489	20	639	689	22,3
.-SVAH400.2...	16″	400	4	400	470	530	12,5	515	4	PN10	ND10	28x25	509	559	23	709	759	25,4

Accessories Butterfly Valve

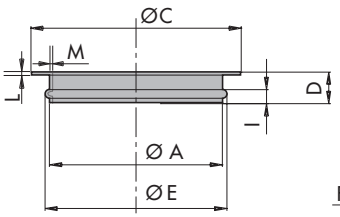
SLEEVE FOR FLEXIBLE CONNECTION - SFU

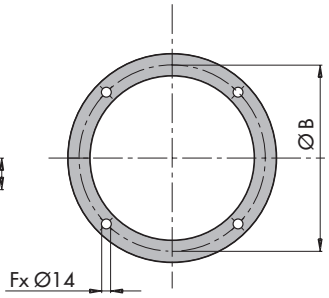
SFU | | **B** |

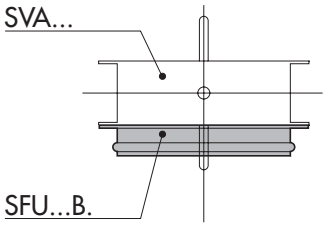
Round flange

Nominal diameter
100 - 150 - 200 - 250
300 - 350 - 400

Construction material
2 = Stainless steel AISI 304
8 = Aluminium







INTERNAL ASSEMBLY CODE MIX	
HAS10	SFU with .-SVAH100÷200
HAS20	SFU with .-SVAH250÷400

Type	Inch	ØA	ØB	ØC	D	ØE	F	I	L	M	kg
SFU100B2	4"	100	180	220	46	106	4	18	4	2	1,1
SFU150B2	6"	150	200	225	46	156	4	18	8	2	1,6
SFU200B2	8"	200	250	275	46	206	4	18	8	2	2,1
SFU250B2	10"	250	300	325	46	256	8	18	8	2	2,6
SFU300B2	12"	300	350	375	46	306	8	18	8	2	3,0
SFU350B2	14"	350	400	436	50	356	8	18	8	2	4,0
SFU400B2	16"	400	470	525	50	406	8	18	10	2	7,9

Type	ØA	ØB	ØC	D	ØE	F	I	L	M	kg
SFU100B8	110	180	220	48	125	4	12	2,5	2,5	0,5
SFU150B8	164	200	228	48	178	4	12	2,5	2,5	0,6
SFU200B8	210	250	278	48	223	4	12	2,5	2,5	0,7
SFU250B8	265	300	328	48	275	8	12	2,5	2,5	1,1
SFU300B8	315	350	378	48	328	8	12	2,5	2,5	1,3
SFU350B8	354	400	440	53	365	8	12	3	3	1,9
SFU400B8	404	470	530	53	417	8	12	3	3	2,7

FLANGE - KFT

KFT | | |

Flange

Nominal diameter
100 - 150 - 175 - 200
250 - 300 - 350 - 400

Construction material
1 = Carbon steel
2 = Stainless steel AISI 304

* KFT 100

KFT 150 ÷ KFT 400

KFT...A.

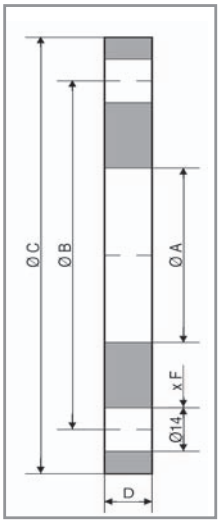
Type	Ø A	Ø B	Ø C	D	kg
* KFT100A1	116	180	220	6	1,29
* KFT100A2	116	180	220	4	0,86
KFT150A.	170	200	228	6	0,85
KFT175A.	195	250	278	8	1,94
KFT200A.	221	250	278	6	1,05
KFT250A.	275	300	328	6	1,18
KFT300A.	325	350	378	6	1,38

KFT...C.

Type	Ø A	Ø B	Ø C	D	kg
* KFT100C1	103	180	220	6	1,40
* KFT100C2	103	180	220	4	0,93
KFT150C.	155	200	228	6	1,03
KFT200C.	205	250	278	6	1,30
KFT250C.	256	300	328	6	1,56
KFT300C.	305	350	378	6	1,84
KFT350C.	358	400	440	6	2,42
KFT400C.	409	470	530	10	7,01

KFT....

x F	SVA
4	100
4	150
4	200
8	250
8	300
8	350
8	400



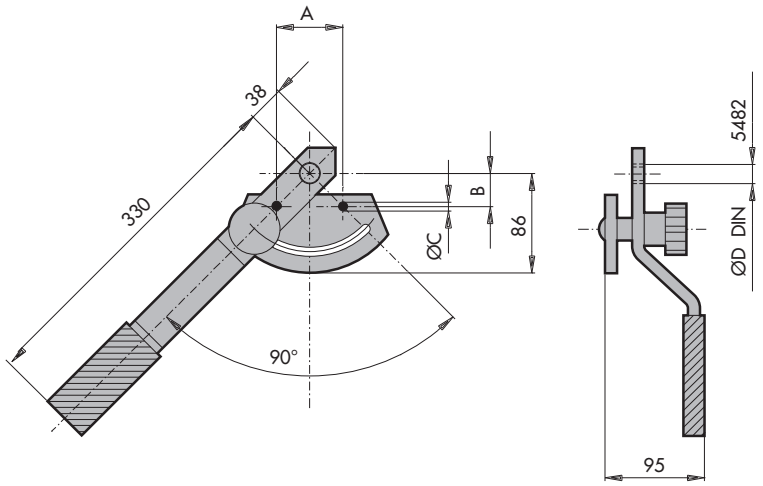
Actuators Butterfly Valve

RAB [ ] C

Manual actuator

Size
22 - 28

TYPE	A	B	C	D	kg	SVA
RAB22C	65	27	8,5	22 X 18 DIN 5482	1,7	100 - 300
RAB28C	68	30	10,5	28 X 25 DIN 5482	2	350 - 400



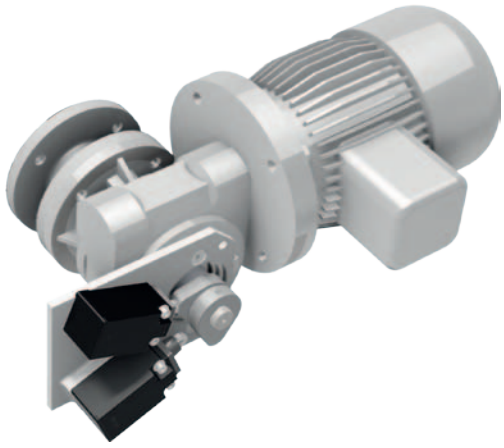
RAM C [ ] N

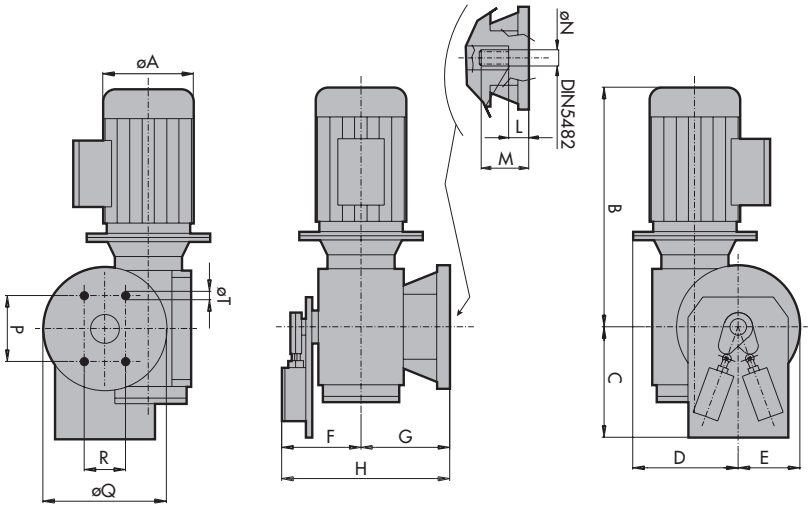
INTERNAL ASSEMBLY CODE MIX	
HAM10	RAM with SVAH100 ÷ 400

Size
22 - 28

Qty of limit switches mod. FR515
2: limit switch
3: limit switch

Geared motor actuator
Only available for NON-ATEX version





TYPE	A	B	C	D	E	F	G	H	L	M	N	P	Q	R	T	kW	Nm*	kg	SVA
RAM22C.N	125	255	115	115	55	95	110	205	16	37	22X19 DIN 5482	65	110	54	8,5	0,20	100	10	100÷300
RAM28C.N	140	300	115	120	70	105	120	225	16	37	28X25 DIN 5482	68	120	60	10,5	0,37	150	18	350÷400

* The torque value refers to the available starting torque for a maximum duration of 2".

RAP C

Double acting pneumatic actuator

Cylinder diameter
080 - 100 - 125

Cover
A: high
B: low

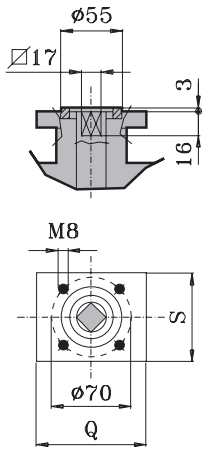
Conditions of sale
P: Packed singularly
M: mounted to the .-SVA*
*see p.9

Identification
N: Standard
A: Atex II 3D Ex h IIIB T100°C Dc X

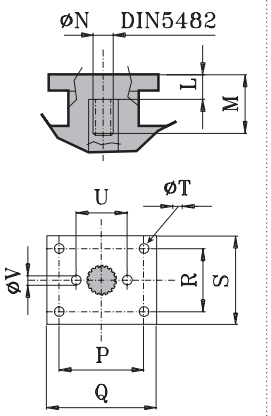
Shaft coupling
S: ISO 5211 square drive coupling
X: DIN 5482 splined drive coupling

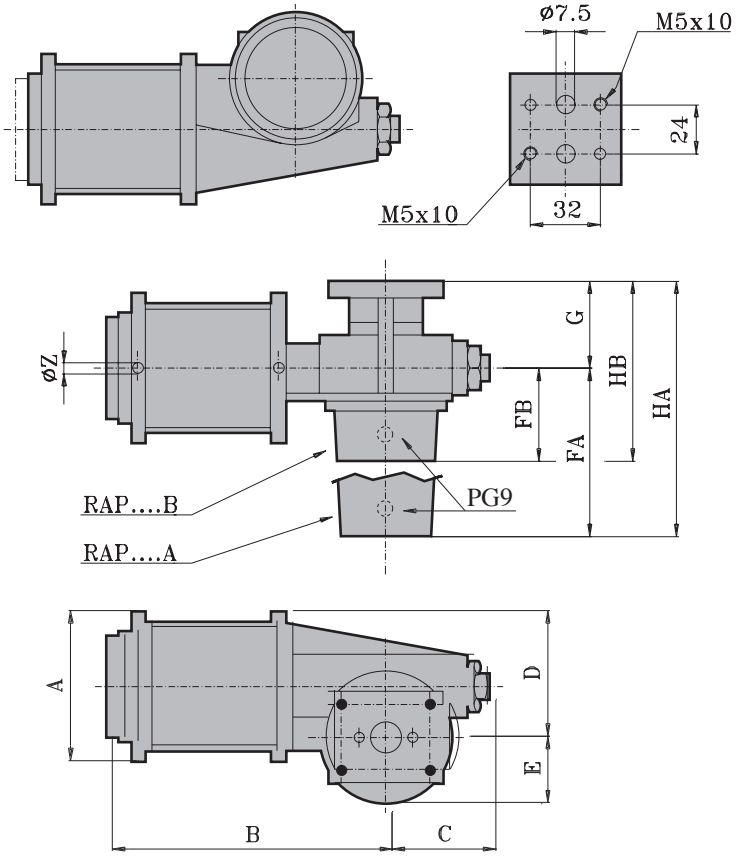
COMBINATION TABLE	
ISO 5211	DIN 5482
.-RAPC080S.	.-RAPC080X.
.-RAPC100S.	.-RAPC100X.
	.-RAPC125XA.

S: ISO 5211

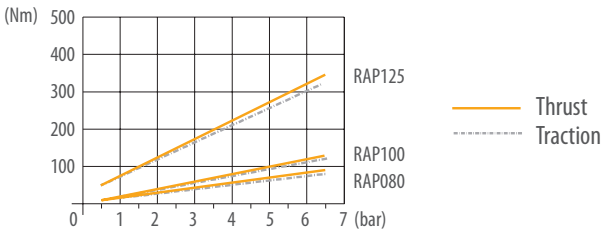


X: DIN 5482





TYPE	Air consumption for operation	Operation time @ 6 bar
.-RAPC080	1,8 Nl	~ 0,5 s
.-RAPC100	2,8 Nl	
.-RAPC125	7,6 Nl	

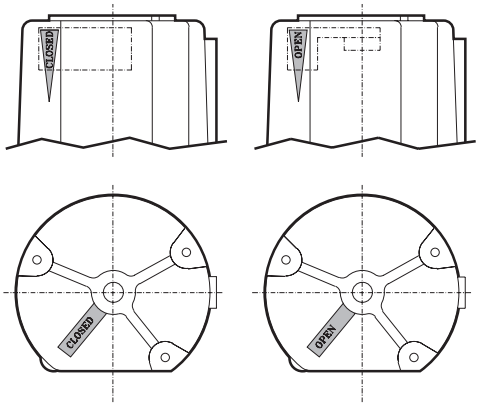


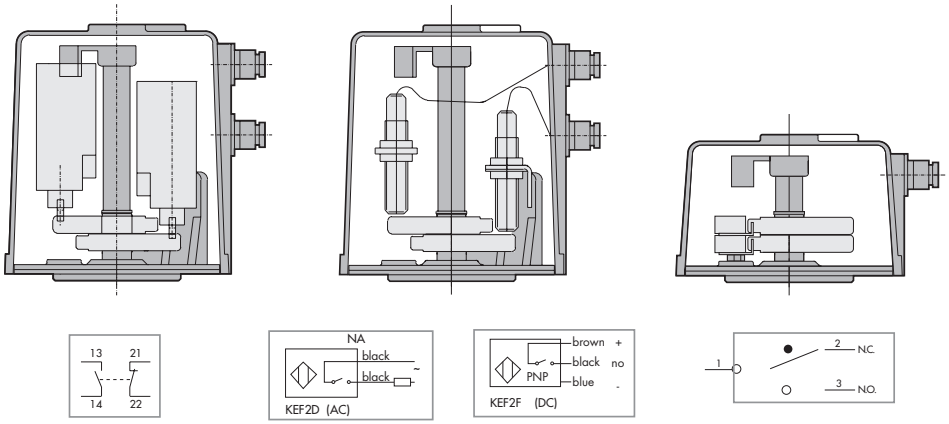
TYPE	A	B	C	D	E	FA	FB	G	HA	HB	L	M	N	P	Q	R	S	T	U	V	Z	kg	SVA
.-RAPC080	90	200	100	84	58	150	75	62	212	137	19	37	22X19 DIN 5482	65	90	54	75	9	50	11	1/8"	3,5	100÷300
.-RAPC100	110	210	100	94	58	150	75	62	212	137	19	37	22X19 DIN 5482	65	90	54	75	9	50	11	1/8"	4,5	300
.-RAPC125	137	275	170	124	72	165	90	96,5	262	187	20	52	28X25 DIN 5482	68	106	60	84	10,5	/	/	1/4"	10	350÷400

Accessories for actuators

LIMIT SWITCH

The transparent cover of the limit switches allows to check the position of the actuator (OPEN - CLOSED) from outside.



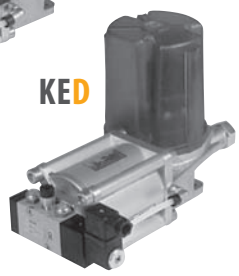


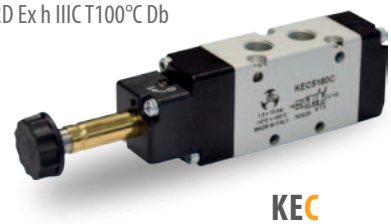
	MECHANICS	INDUCTIVE		MICRO MECHANICS
STANDARD	KEF2C	KEF2D	KEF2F	KEF2E
ATEX	KEH2C	KEH2D	KEH2F	KEH2E*
VOLTAGE	6A - 120V ÷ 3A - 400V AC 2,5A - 24V ÷ 0,25A - 250V DC	20V ÷ 240V AC	5V ÷ 40V DC Type PNP	6A – 125V ÷ 250V AC 6A - 30V DC
SUPPLY (fixing hardware included)				

* only available for A-RAP...XB

ELECTRO-VALVE

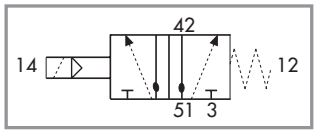
	KE		51				
Identification /: Standard (without silencers) A: ATEX (including 2 silencers) II 2G Ex h IIB T5 Gb II 2D Ex h IIIC T100°C Db		**Type** C = in line D = namur		**Dimension** 4 = 1/4" 8 = 1/8"	**Actuator** 1 = RAPC080 RAPC100 4 = RAPC125	**Type** C = Standard D = ATEX	





KEC

KED



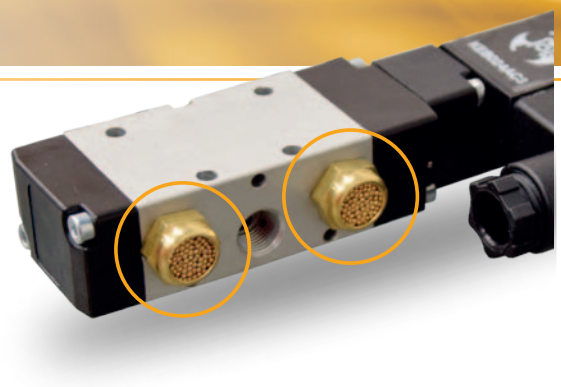
COMBINATION TABLE		
.-RAP	STANDARD	ATEX
080	KEC 5181C - KED 5141C	A-KEC 5181D - A-KED 5141D
100	KEC 5181C - KED 5141C	A-KEC 5181D - A-KED 5141D
125	KEC 5144C - KED 5144C	A-KEC 5144D - A-KED 5144D

Monostabile electro-valve - 5 ways - spring device

SILENCER STD

70H3H24 [ ]

TYPE
1 = KEC5181 - 1/8"
3 = KEC5144 - 1/4"
KED5141 - 1/4"
KED5144 - 1/4"



SOLENOID COIL

KEB [ ] [ ] 3

Voltage
024 = 24 V
048 = 48 V
115 = 115 V
230 = 230 V

Frequency
DC: Direct current DC
AC: Alternating current AC 50/60 Hz

COMBINATION TABLE	
KEB 024 DC 3	KEB 024 AC 3
KEB 048 DC 3	KEB 048 AC 3
	KEB 115 AC 3
	KEB 230 AC 3

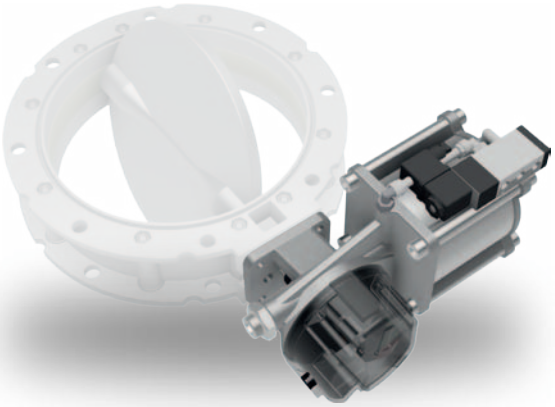
SOLENOID COIL ATEX*

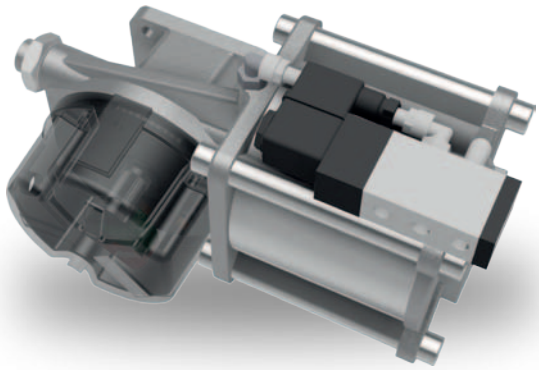
CODE	POWER SUPPLY	PROTECTION LEVEL	CERTIFICATION
12A01358	24V DC	IP65	II 3G Ex nA IIC Tx Gc II 3D Ex tc IIIC Tx Dc
12A01352	24V AC		
12A01354	115V AC		

* suitable for conductive and non-conductive powders

ASSEMBLY IN MIX

STANDARD	ATEX	INTERNAL ASSEMBLY CODE MIX
HAR10	A-HAR10	.-RAP 80 ÷ 100 with .-SVAH100 ÷ 300
HAR20	A-HAR20	.-RAP125 with .-SVAH350 ÷ 400
HAE10	A-HAE10	Electro-valve .-KEC in line with .-RAP
HAE20	A-HAE20	Electro-valve .-KED Namur with .-RAP
HAF10	A-HAF10	Mechanical limit switch with .-RAP
HAF20	A-HAF20	Inductive limit switch with .-RAP
HAF30	A-HAF30	Micro limit switch with .-RAP





Slide Valves Combination table

[ ] - SGA [ ] [ ] A [ ] [ ] [ ]

Handling screw

Size ⍁
150 - 200 - 250 - 300 - 350
400 - 500 - 600 - 700 - 800

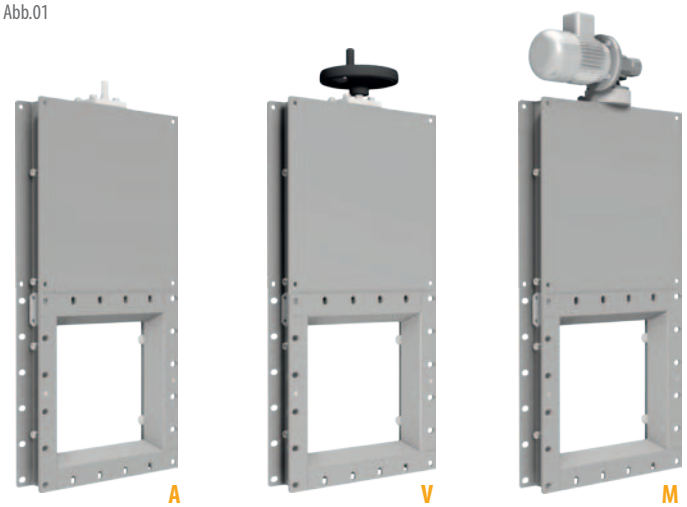
Costruction material
1: Carbon steel
2: Stainless steel AISI 304

Classification MSD
H: partly finished machinery
E: not machinery

Identification
N: Standard
A: ATEX II 2/3D Ex h IIIB T135°C Db/Dc X
(marking for version with motor M)
T: Version suitable for explosive atmosphere
(for versions with bare shaft A and handwheel V)

ACTUATOR COMBINATION TABLE			
A	free	00	Bare Shaft
V	manual handwheel	20	SGAE150 ÷ 350
		25	SGAE400 ÷ 800
M	gear motor	04	SGAH150 ÷ 350 = 0,37kW 230/400V 50Hz IP55 CL F
		08	SGAH400 ÷ 800 = 0,75kW 230/400V 50Hz IP55 CL F

Abb.01



COMBINATION TABLE		
.-SGAE150A.A00	.-SGAE150A.V20	.-SGAH150A.M04
.-SGAE200A.A00	.-SGAE200A.V20	.-SGAH200A.M04
.-SGAE250A.A00	.-SGAE250A.V20	.-SGAH250A.M04
.-SGAE300A.A00	.-SGAE300A.V20	.-SGAH300A.M04
.-SGAE350A.A00	.-SGAE350A.V20	.-SGAH350A.M04
.-SGAE400A.A00	.-SGAE400A.V25	.-SGAH400A.M08
.-SGAE500A.A00	.-SGAE500A.V25	.-SGAH500A.M08
.-SGAE600A.A00	.-SGAE600A.V25	.-SGAH600A.M08
.-SGAE700A.A00	.-SGAE700A.V25	.-SGAH700A.M08
.-SGAE800A.A00	.-SGAE800A.V25	.-SGAH800A.M08

[ ] - SGB H [ ] A [ ] [ ]

Identification
N: Standard
A: ATEX II 2/3D Ex h IIIB T135°C Db/Dc X

Pneumatic cylinder

Size ⍁
150 - 200 - 250 - 300 - 350
400 - 500 - 600 - 700 - 800

Construction material
1: Carbon steel
2: Stainless steel AISI 304

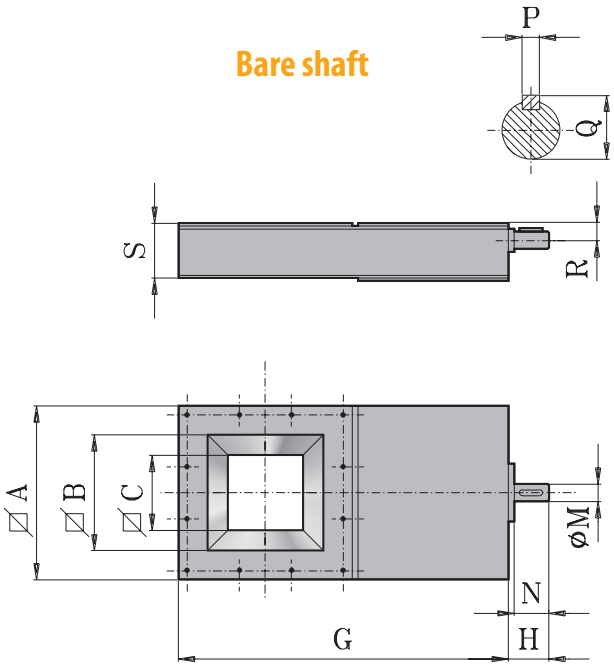
Cylinder size
063: ø 63
080: ø 80
100: ø 100
125: ø 125

COMBINATION TALBE			
Small series		Big series	
.-SGBH150A.063	/	.-SGBH400A.100	.-SGBH400A.125
.-SGBH200A.063	/	.-SGBH500A.100	.-SGBH500A.125
.-SGBH250A.063	.-SGBH250A.080	.-SGBH600A.100	.-SGBH600A.125
.-SGBH300A.063	.-SGBH300A.080	.-SGBH700A.100	.-SGBH700A.125
.-SGBH350A.063	.-SGBH350A.080	.-SGBH800A.100	.-SGBH800A.125

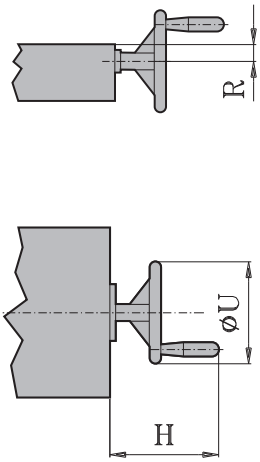
Dimensions

.-SGA...A.A.. / .-SGA...A.V.. / .-SGA...A.M..

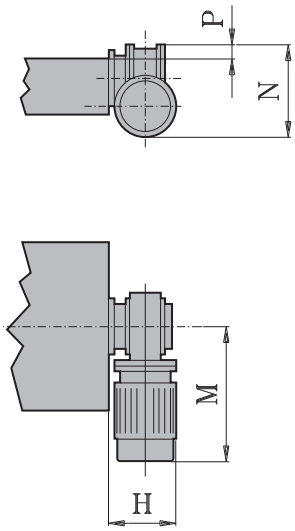
Bare shaft



Manual control



Motor Control



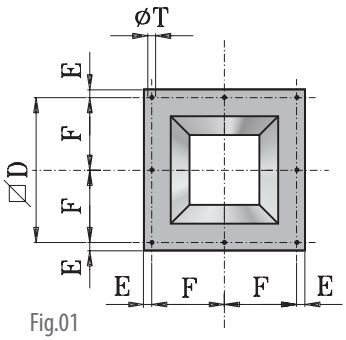


Fig.01

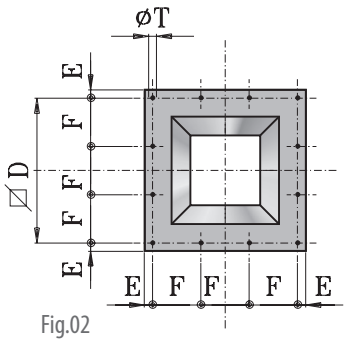


Fig.02

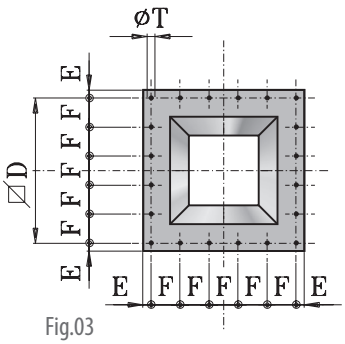


Fig.03

		.-SGA....A.									A..							V..				M..						
TYPE	Fig.	A	B	C	D	E	F	G	S	T	H	M	N	P	Q	R	kg	H	R	U	kg	H	M	N	P	kW	*	kg
.-SGA.150A....	1	261	175	120	230	15,5	115	540	93	12,5	56	19	41	6	21,5	30	16	150	30	200	18,8	180	300	200	30	0,37	19	24
.-SGA.200A....	2	311	225	170	280	15,5	93,3	640	93	12,5	56	19	41	6	21,5	30	19	150	30	200	22,5	180	300	200	30	0,37	26	27
.-SGA.250A....	2	361	275	220	330	15,5	110	740	93	12,5	56	19	41	6	21,5	30	25,5	150	30	200	27,5	180	300	200	30	0,37	32	32
.-SGA.300A....	2	431	325	270	385	23	128,3	860	93	12,5	56	19	41	6	21,5	30	32,5	150	30	200	35	180	300	200	30	0,37	39	39
.-SGA.350A....	3	481	375	320	445	18	89	960	93	12,5	56	19	41	6	21,5	30	38,5	150	30	200	42	180	300	200	30	0,37	45	52
.-SGA.400A....	3	533	425	350	500	16,5	100	1090	133	12,5	85	24	41	8	27	45	62,5	190	45	250	69,5	220	340	225	30	0,75	43	96
.-SGA.500A....	3	653	525	450	600	26,5	120	1300	133	15	85	24	41	8	27	45	85	190	45	250	92	220	340	225	30	0,75	54	128
.-SGA.600A....	3	753	625	550	700	26,5	140	1500	133	15	85	24	41	8	27	45	117	190	45	250	125	220	340	225	30	0,75	65	143
.-SGA.700A....	3	895	725	650	825	35	165	1720	133	15	85	24	41	8	27	45	147	190	45	250	150	220	340	225	30	0,75	75	173
.-SGA.800A....	3	995	825	750	925	35	185	1920	133	15	85	24	41	8	27	45	192	190	45	250	195	220	340	225	30	0,75	86	218

* Duration in seconds for one single opening or closing

Dimensions

.-SGB...A....

Pneumatic control

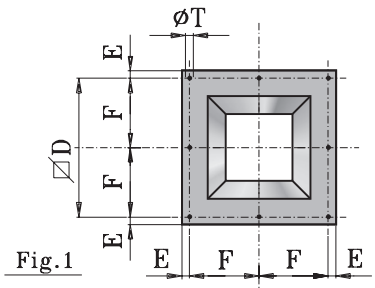


Fig.1

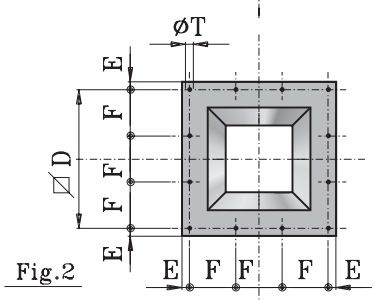


Fig.2

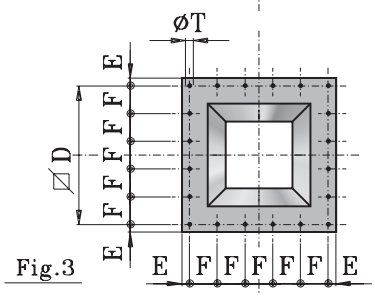
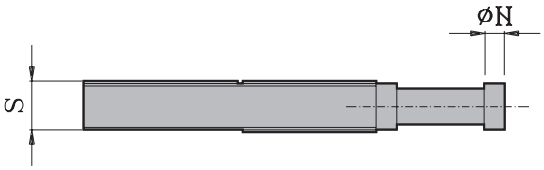
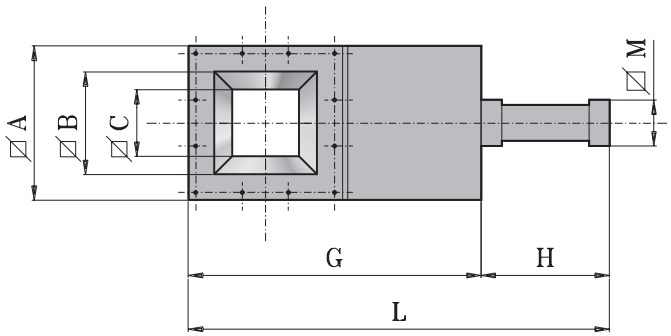


Fig.3





TYPE	Fig.	A	B	C	D	E	F	G	H	L	M	**	N	***	S	T	kg
.-SGBH150A.063	1	261	175	120	230	15,5	115	540	275	815	75	Ø 63X150	3/8"	2,8	93	12,5	18
.-SGBH200A.063	2	311	225	170	280	15,5	93,3	640	325	965	75	Ø 63X200	3/8"	3,7	93	12,5	21,5
.-SGBH250A.063	2	361	275	220	330	15,5	110	740	375	1115	75	Ø 63X250	3/8"	4,7	93	12,5	26,5
.-SGBH250A.080	2	361	275	220	330	15,5	110	740	412	1152	95	Ø 80X250	3/8"	7,5	93	12,5	28,5
.-SGBH300A.063	2	431	325	270	385	23	128,3	860	425	1285	75	Ø 63X300	3/8"	5,6	93	12,5	34,5
.-SGBH300A.080	2	431	325	270	385	23	128,3	860	462	1322	95	Ø 80X300	3/8"	9	93	12,5	38
.-SGBH350A.063	3	481	375	320	445	18	89	960	475	1435	75	Ø 63X350	3/8"	6,5	93	12,5	42
.-SGBH350A.080	3	481	375	320	445	18	89	960	512	1472	95	Ø 80X350	3/8"	10,3	93	12,5	44
.-SGBH400A.100	3	533	425	350	500	16,5	100	1090	545	1635	120	Ø 100X400	1/2"	18,8	133	12,5	70
.-SGBH400A.125	3	533	425	350	500	16,5	100	1090	595	1685	150	Ø 125X400	1/2"	29,4	133	12,5	76
.-SGBH500A.100	3	653	525	450	600	26,5	120	1300	645	1945	120	Ø 100X500	1/2"	23,6	133	15	90
.-SGBH500A.125	3	653	525	450	600	26,5	120	1300	695	1995	150	Ø 125X500	1/2"	36,8	133	15	97
.-SGBH600A.100	3	753	625	550	700	26,5	140	1500	745	2245	120	Ø 100X600	1/2"	28,3	133	15	122
.-SGBH600A.125	3	753	625	550	700	26,5	140	1500	795	2295	150	Ø 125X600	1/2"	44,2	133	15	128
.-SGBH700A.100	3	895	725	650	825	35	165	1720	845	2565	120	Ø 100X700	1/2"	33	133	15	158
.-SGBH700A.125	3	895	725	650	825	35	165	1720	895	2615	150	Ø 125X700	1/2"	51,5	133	15	169
.-SGBH800A.100	3	995	825	750	925	35	185	1920	945	2865	120	Ø 100X800	1/2"	37,7	133	15	204
.-SGBH800A.125	3	995	825	750	925	35	185	1920	995	2915	150	Ø 125X800	1/2"	58,9	133	15	216

** Diameter and lenght of the pneumatic cylinder ISO 15552, up to size 350 delivered mounted - starting from size 400 delivered unmounted .
*** Air consumption (Nl) at 6 bar for each operation.

Accessories

KEC 51 2

Identification
/: Standard (without silencers)
A: Atex (without silencers)
II 2G Ex h IIB T5 Gb
II 2D Ex h IIIC T100°C Db

Monostabile electro-valve
5 ways - spring device

Size
8 = 1/8"
4 = 1/4"

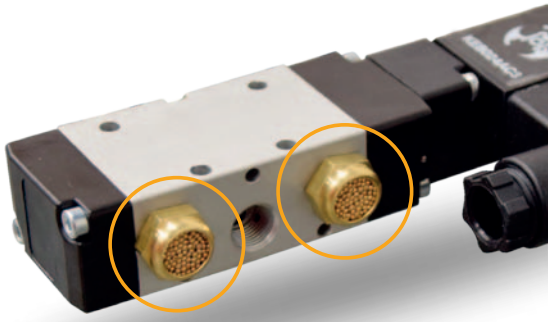
Type
C = Standard
D = Atex

COMBINATION TABLE		
Ø CYLINDER	STANDARD	ATEX
Ø 63	KEC5182C	A-KEC5182D
Ø 80	KEC5182C	A-KEC5182D
Ø 100	KEC5142C	A-KEC5142D
Ø 125	KEC5142C	A-KEC5142D

SILENCER

70H3H24

STANDARD
1 = KEC5182C - 1/8"
3 = KEC5142C - 1/4"



SOLENOID COIL

KEB 3

Solenoid coil and

Voltage
024 = 24 V
048 = 48 V
115 = 115 V
230 = 230 V

Frequency
DC: Direct current DC
AC: Alternating current AC 50/60 Hz

COMBINATION TABLE	
KEB 024 DC 3	KEB 024 AC 3
KEB 048 DC 3	KEB 048 AC 3
	KEB 115 AC 3
	KEB 230 AC 3

SOLENOID COIL ATEX*

CODE	POWER SUPPLY	PROTECTION LEVEL	CERTIFICATION
12A01358	24V DC	IP65	II 3G Ex nA IIC Tx Gc II 3D Ex tc IIIC Tx Dc
12A01352	24V AC		
12A01354	115V AC		

* suitable for conductive and non-conductive powders

Accessories

LIMIT SWITCH IP67

KEF **2** ☐

Dimension
R1 (magnetic) = **SGB 150÷800** (20V÷220V AC)
(20V÷220V DC)
P (inductive) = **SGA 150** (20V÷220V AC) NO
Q (inductive) = **SGA 200÷800** (20V-220V AC) NO
S (inductive) = **SGA 150** (10V÷30V D.C.) PNP-NO
T (inductive) = **SGA 200÷800** (10V÷30V DC) PNP-NO

LIMIT SWITCH ATEX IP67

A-KEF **2** ☐

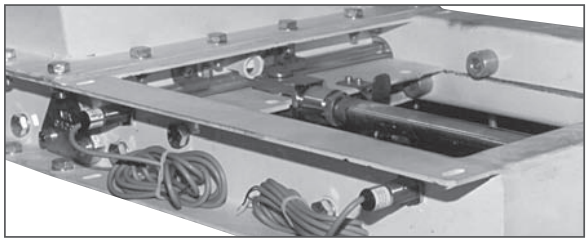
Dimension
R (magnetic) = **A-SGB 150÷800** (10V÷110V AC / DC)
II 3G Ex nC IIC T4 Gc / II 3D Ex tc IIIC 110°C Dc

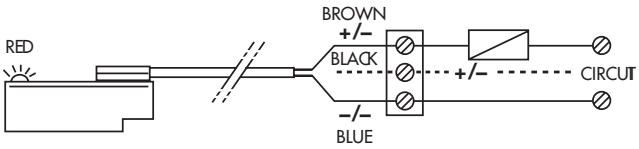
S (inductive) = **A-SGA / A-SGB 150** (20V DC) PNP-NO
II 3G Ex nAc IIC T6 X / II 3D Ex tc IIIC T80°C X

T (inductive) = **A-SGA / A-SGB 200÷800** (24V DC) PNP-NO
II 3G Ex nAc IIC T6 X / II 3D Ex tc IIIC T80°C X

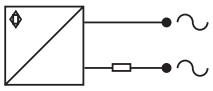
MAGNETIC

INDUCTIVE

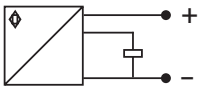




R1 - R



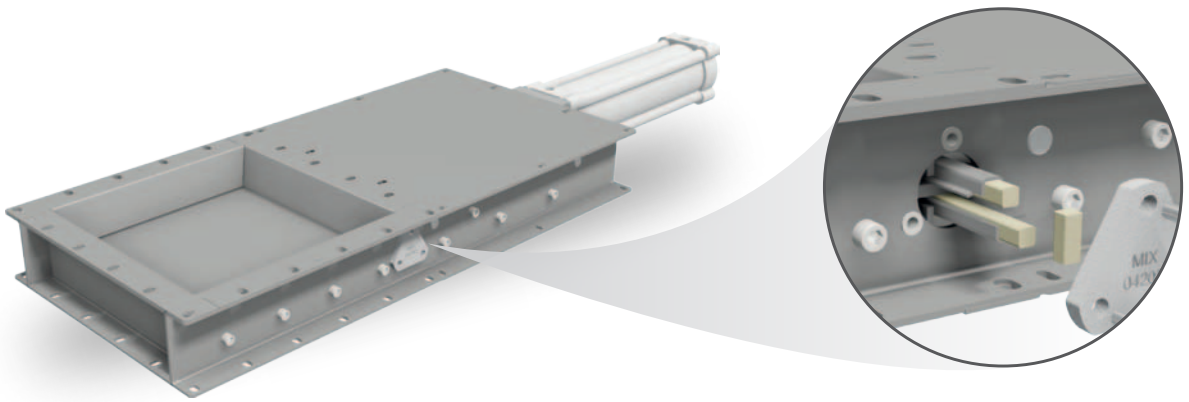
P - Q



S - T

SEAL SGA - SGB

The MIX packing box consists of two self-centering aluminium flanges which hold two shaped stainless steel profiles containing two square packings in a compressed adjustable position, which is also accessible when the valve is already installed. From size 250 onwards, the slide valve is equipped with screws, which allow to adjust the packing seal compression.



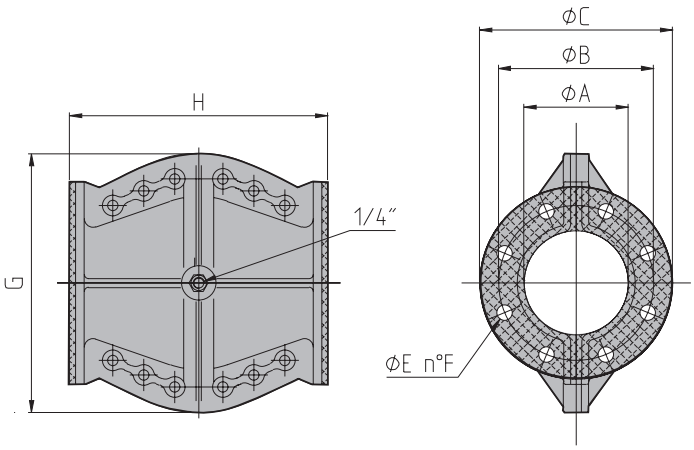
Pinch Valve Combination table

SMA [ ] **A** **1**

Nominal diameter
080 = 80 mm
100 = 100 mm

Material for the seal
Anti-abrasive rubber

Construction material
Body and flange in aluminium alloy



TYPE	A	B	C	E	F	G	H	kg
SMA 080	80	160	200	18	4	254	252	5,8
SMA 100	100	180	220	18	8	302	300	8,6

DATA SHEET

Working pressure: max. 3 bar
Control pressure: 2 bar higher than the working pressure
Temperature: min. -10°C / max. +80°C

ELECTRO-VALVE

KEC **51** **8** **7** **C**

Monostabile electro-valve
5 ways - spring device

Dimension
8 = 1/8"

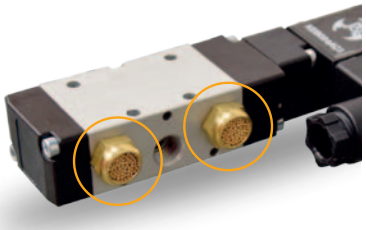
Standard

INTERNAL ASSEMBLY CODE MIX	
HSE10	KEC with SMA

SILENCER

70H3H24 **1**

TYPE
1 = KEC5181 - 1/8"



SOLENOID COIL

KEB [ ] [ ] **3**

Solenoid coil and

Voltage
024 = 24 V
048 = 48 V
115 = 115 V
230 = 230 V

Frequency
DC: Direct current DC
AC: Alternating current AC 50/60 Hz

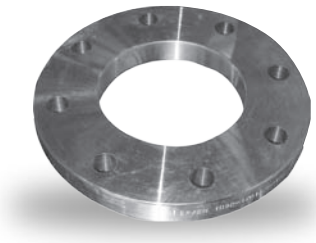
COMBINATION TABLE	
KEB 024 DC 3	KEB 024 AC 3
KEB 048 DC 3	KEB 048 AC 3
	KEB 115 AC 3
	KEB 230 AC 3

Accessories

ROUND FLANGE FOR SMA

This flange is welded on the inlet feeding pipe of silo and the pinch valve is bolted to this flange.

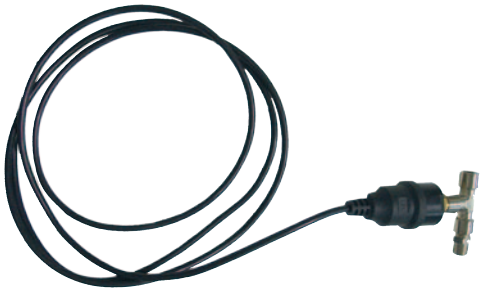
KFT		D	
Round flange	**Nominal diameter** 080 = 80 mm 100 = 100 mm	D = UNI PN10	**Construction material** 1 = Carbon steel 2 = Stainless steel AISI 304



PRESSURE SWITCH

It is used to control the air circuit of the pinch valve's control solenoid valve. It controls the compressed air pressure, making sure that it is higher than the minimum set point of 4 bar

SSP	2	4	A	1
Pressure switch	**Type of contact NC/NO**	**Dimension** Fittings 1/4"	**Voltage** 24 - 230V AC	**Equipment** Standard with cable



TECHNICAL DATA						
Protection level	Working temperature	Voltage	Max applicable pressure	Pre-settled pressure	Current of NC Contact (resistive load / inductive load)	Current of NO Contact (resistive load / inductive load)
IP56	-20°C +70°C	Max 250V AC	10bar	4bar	15 A / 1,5 A	9 A / 0,9 A

PRESSURE REDUCER

This unit, supplied together with a gauge and dehumidifying filter, makes it possible: to adapt system pressure to the correct operating pressure of either pinch valve whilst reducing the consumption of air; to increase the life of the pinch valve seal thanks to working with the correct pressure.

SKR	4	E	5	B
Pressure reducer	**Fitting dimension** 4 = 1/4"	**Working pressure** 0 ,5÷ 8,5 bar	**Components** Pressure reducer, gauge, dehumidifying filter	**Fittings used** With fittings for the SMA valve

TECHNICAL DATA					
Discharge of condensate	Weight	Fitting	Condensate separation	Working temperature	Vessel capacity
Semi-automatic	0,12 kg	G1/4"	> 90%	Max: +50°C	12 cm3

Valves for Silos Combination table

SV			C2	C	1	1

Connection flange
Q: Squared connection made of carbon steel
T: Round connection made of carbon steel
Fig.01

Size
250 - 300

Splined drive shaft
DIN 5482
Fig.02

Standard powder seal in atmospheric pressure

Material of body and pivoting
1: Carbon steel painted RAL 9006

Material of seal
1: NBR quality seal for continuos operation (- 15°C+100°C)

Fig.01

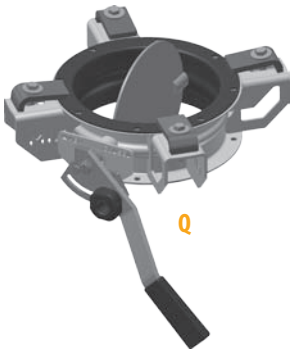
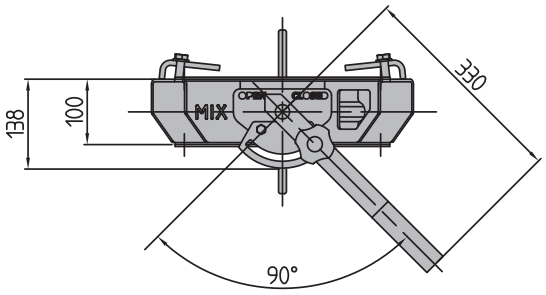
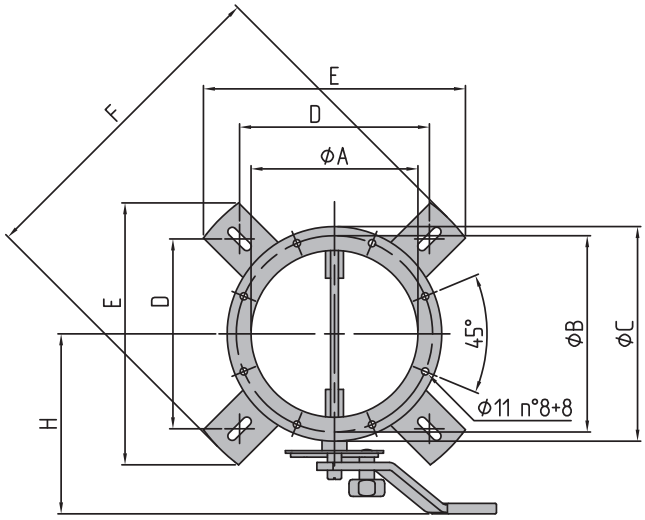


Fig.02

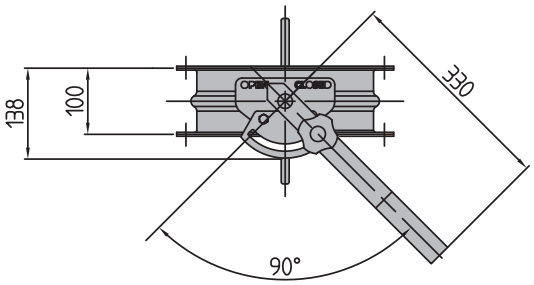
SVQ

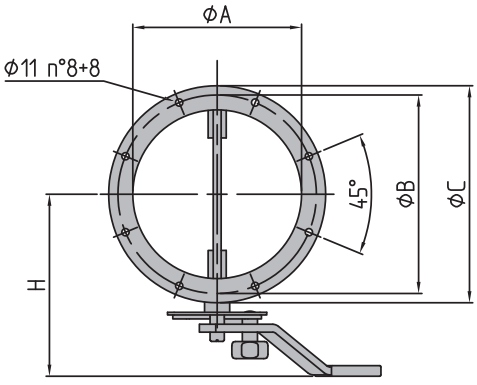




TYPE	A	B	C	D	E	F	H	kg
SVQ250	250	300	328	290	400	500	275	14,2
SVQ300	300	350	378	350	490	620	300	16,7

SVT





TYPE	A	B	C	D	E	F	H	kg
SVT250	250	300	328	-	-	-	275	9,4
SVT300	300	350	378	-	-	-	300	11,2

NOTE

NOTE

INTERCEPTION SYSTEMS AND COMPONENTS FOR PLANTS

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