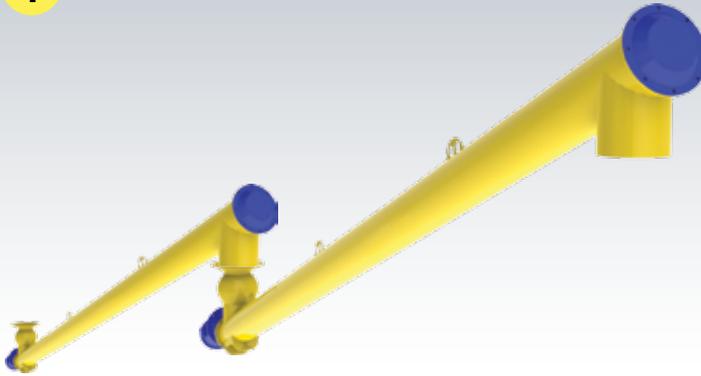


# Asphalt Mixing

## Hot Filler Dust Screw Feeders THF



1



### Description ▼

THF Screw Feeders are manufactured in carbon steel with a suitable surface finishing. They are made up from a tubular trough equipped with at least one inlet and outlet spout, a welded flange at each tube end, helicoid screw flighting welded on a centre pipe with a coupling bush at each end, two end bearing assemblies complete with self-adjusting shaft seal suitable for filler dust. This type of screw, which comes without intermediate bearings, is equipped with a gear motor that suits the application.

### Function ▼

THF Screw Feeders and Conveyors for Filler Dust are designed to match the main requirements of the asphalt industry in feeding and conveying hot filler dust in stationary asphalt plants, from the central dust filter and from the weigh hopper of the mixing plant. Wide spans are reached in a piggyback configuration. Thanks to the modular structure of the screws, various solutions are possible in terms of performance and component configuration.



### Application ▼

THF-type Screw Feeders feed hot filler dust from the filter to a bucket elevator in a piggyback configuration.

### Benefits ▼

- ✓ Reduced overall dimensions;
- ✓ Easy assembly;
- ✓ Maintenance-friendly design;
- ✓ All components for standard configuration available from stock.

# Asphalt Mixing

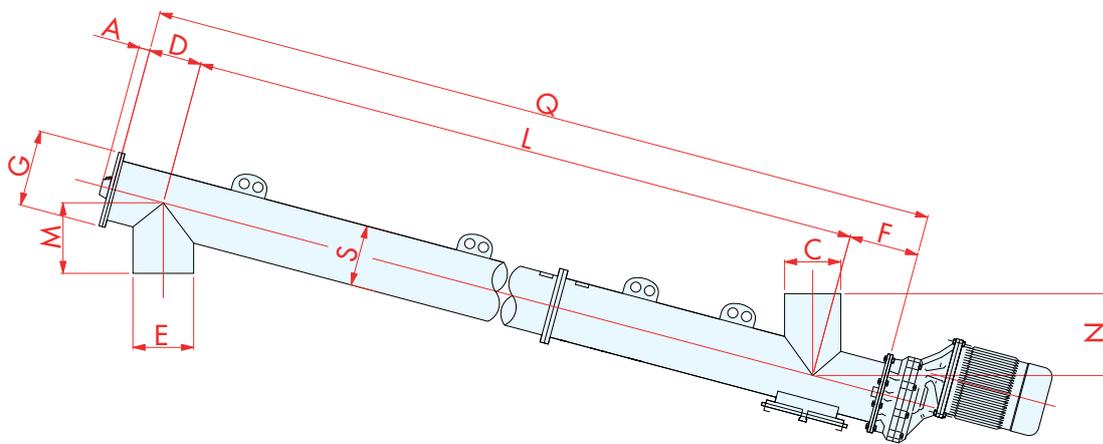
## Hot Filler Dust Screw Feeders THF



### Technical Features / Performance ▼

- ▶ Outside tube Ø: from 168 mm to 323 mm
- ▶ Universal inlet/outlet spouts with optimised height measurement
- ▶ Absence of intermediate bearings
- ▶ Chain coupling power transmission where needed
- ▶ Greased seals for hot/cold filler dust

### Overall Dimensions ▼



Ø	168	193	219	273	323
A	40	40	40	40	40
C	on request				
D	140	150	160	180	220
E	on request				
F	160	170	180	220	220
L	on request				
G	250	250	275	330	405
M	see WAM® - standard				
N	see WAM® - standard				
Q	L + D + E				

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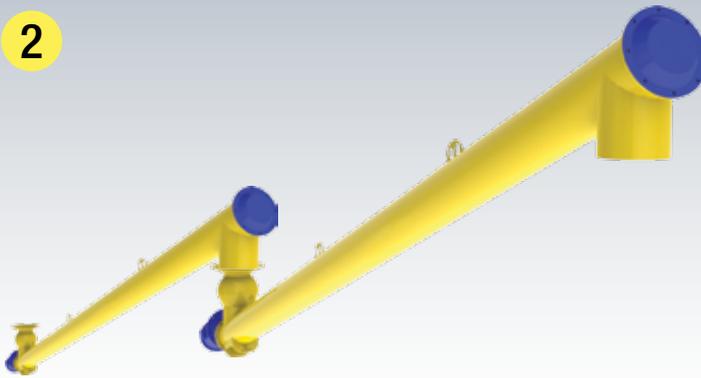
DS.13001.THE GEN October 2014.R00

# Asphalt Mixing

## Cold Filler Dust Screw Feeders TCF



2



### Description ▼

TCF Screw Feeders are manufactured in carbon steel with a suitable surface finishing. They are made up from a tubular trough equipped with at least one inlet and outlet spout, a welded flange at each tube end, helicoid screw flighting welded on a centre pipe with a coupling bush at each end, two end bearing assemblies complete with self-adjusting shaft seal suitable for filler dust. This type of screw, which comes without intermediate bearings, is equipped with a gear motor that suits the application.

### Function ▼

TCF Screw Feeders and Conveyors for Filler Dust are designed to match the main requirements of the asphalt industry in feeding and conveying cold filler dust in stationary asphalt plants, from the storage silos to the weigh hopper of the mixing plant. Wide spans are reached in a piggyback configuration. Thanks to the modular structure of the screws, various solutions are possible in terms of performance and component configuration.

### Application ▼

To feed cold filler from a silo into a separate weigh hopper or to feed tankers from a cold filler storage silo present in plants with a high output of filler dust.



### Benefits ▼

- ✓ **Reduced overall dimensions;**
- ✓ **Easy assembly;**
- ✓ **Maintenance-friendly design;**
- ✓ **All components for standard configuration available from stock.**

# Asphalt Mixing

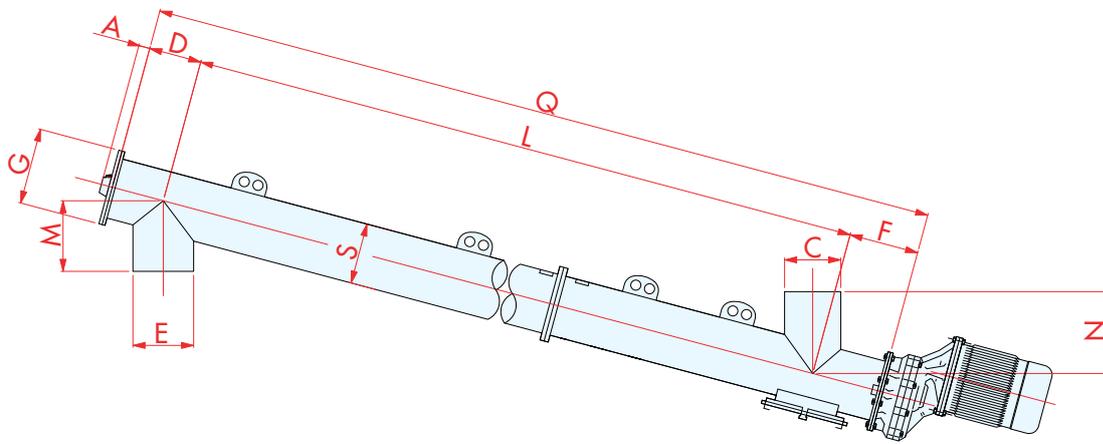
## Cold Filler Dust Screw Feeders TCF



### Technical Features / Performance ▼

- ▶ Outside tube Ø: from 168 mm to 323 mm
- ▶ Universal inlet/outlet spouts with optimised height measurement
- ▶ Absence of intermediate bearings
- ▶ Chain coupling power transmission where needed
- ▶ Greased seals for hot/cold filler dust

### Overall Dimensions ▼



Ø	168	193	219	273	323
A	40	40	40	40	40
C	on request				
D	140	150	160	180	220
E	on request				
F	160	170	180	220	220
L	on request				
G	250	250	275	330	405
M	see WAM® - standard				
N	see WAM® - standard				
Q	L + D + E				

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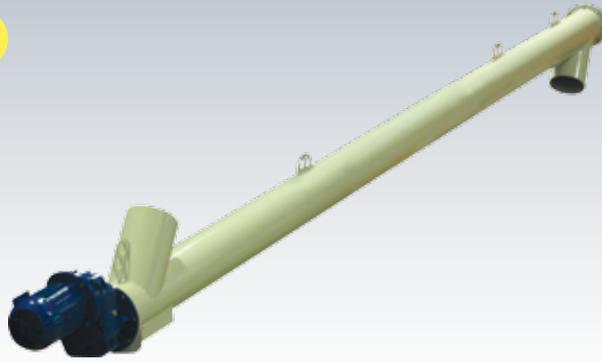
DS.1300.TCFEN.October 2014.R00

# Asphalt Mixing

## Filler Dust Screw Feeders TU



3



### Description ▼

TU Screw Feeders are manufactured in carbon steel with a suitable surface finishing. They are made up from a tubular trough that is equipped with at least one inlet and one outlet spout, a welded flange at each tube end, helicoid screw flighting welded on a centre pipe with a coupling bush at each end, two end bearing assemblies complete with self-adjusting shaft sealing unit. Furthermore, TU Tubular Screw Feeders are equipped with a gear motor that suits the application.

### Function ▼

TU Tubular Screw Feeders are highly versatile and offer a variety of standard solutions for handling powdery materials. Depending on the characteristics of the material, different feeder models are available in asphalt plants for handling filler dust or additives.

### Application ▼

To inject a mixture of cold and hot filler from the filler weigh hopper into the twin shaft mixer, the TU-type Screw Feeder should be installed next to or in front of the mixer. It has to feed the mixer quickly and homogeneously with filler to guarantee a high quality of the asphalt.



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### Benefits ▼

- ✓ **Modular design offers a great variety of options suitable for numerous applications;**
- ✓ **Durable under extreme conditions;**
- ✓ **High feeding accuracy;**
- ✓ **Vast range of options and accessories;**
- ✓ **Attractive price.**

# Asphalt Mixing

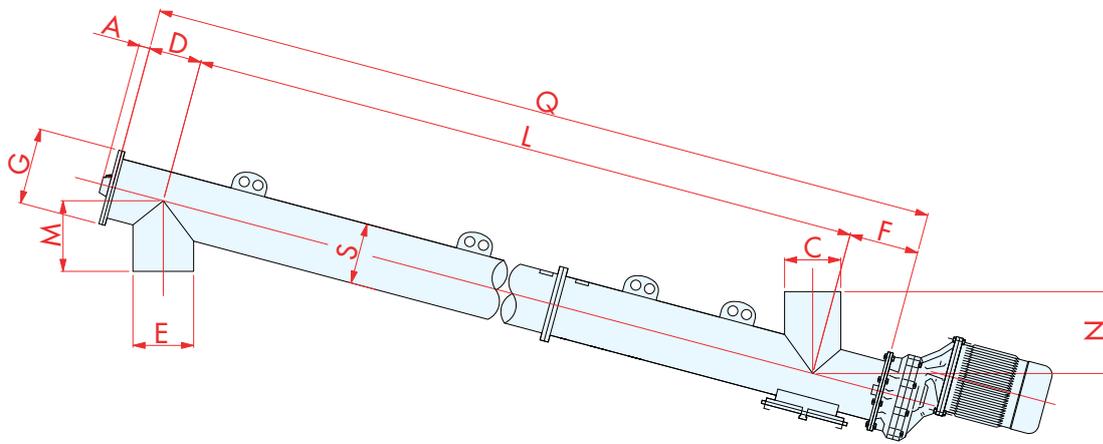
## Filler Dust Screw Feeders TU



### Technical Features / Performance ▼

- ▶ Outside tube Ø: from 168 mm to 323 mm
- ▶ High speed of emptying
- ▶ Absence of intermediate bearings
- ▶ Direct M-type drive
- ▶ Greased seals for hot/cold filler dust

### Overall Dimensions ▼



Ø	168	193	219	273	323
A	40	40	40	40	40
C	on request				
D	140	150	160	180	220
E	on request				
F	160	170	180	220	220
L	on request				
G	250	250	275	330	405
M	see WAM® - standard				
N	see WAM® - standard				
Q	L + D + E				

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DS.1300.TUEN.01 October 2014.000

# Asphalt Mixing

## Bucket Elevators EI



5



### Description ▼

The EI - series Bucket Elevators is entirely manufactured in hot dip galvanized mild steel. The machine consists of a head section with a rubber-coated pulley driven by a gear motor, a foot section with a squirrel cage pulley and screw tensioning system for the belt and a variable number of intermediate sections. The material is conveyed by means of mild steel buckets which are fixed to an abrasion/temperature resistant rubber belt running at 1,5m/s. Seals and rubbers suitable for high temperatures are used for the hot filler version.

### Function ▼

EI - series Bucket Elevators are designed for vertical conveying of hot and cold filler in asphalt plants. High temperature configurations are available for handling hot filler up to 180°C.



### Application ▼

EI - series Bucket Elevators for hot and cold filler conveying are used for feeding filler into the drum dryer and for loading filler silos in asphalt plants applications.

### Benefits ▼

- ✓ Solid, robust design;
- ✓ Easy installation thanks to modular components;
- ✓ Totally enclosed equipment, dust tight design;
- ✓ Low maintenance, compact arrangement;
- ✓ Outlet shape designed for high discharge efficiency;
- ✓ Complementary to other WAMGROUP® equipment.

# Asphalt Mixing

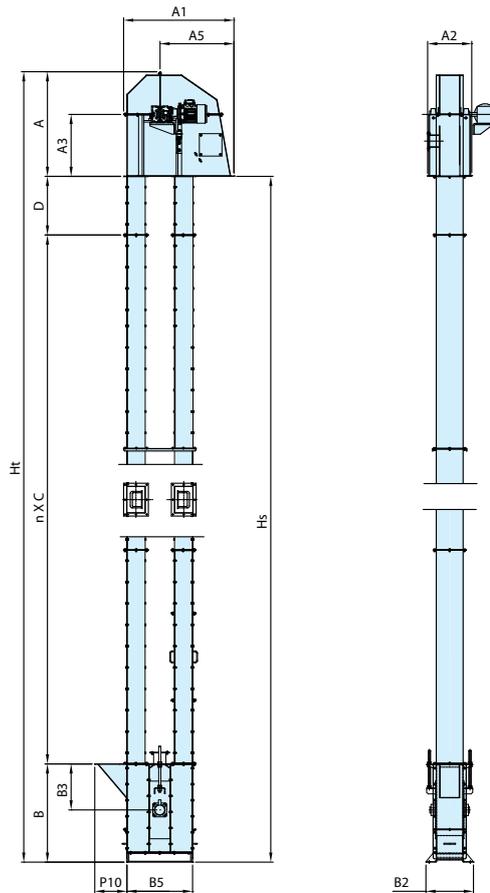
## Bucket Elevators EI



### Technical Features / Performance ▼

- ▶ Conveying capacity up to 174 m<sup>3</sup>/h;
- ▶ Discharge height up to 44 m
- ▶ Multiple inspection hatches on head and foot sections for comfortable cleaning operations and easy maintenance;
- ▶ Suitable for high temperatures up to 180°C

### Overall Dimensions ▼



Type	m <sup>3</sup> /h	Hs (min ~ max)	Casing section	A	A1	A2	A3	A5	B	B2	B3	B5	P10	C	D	N
EI08	4	3 ~ 45	145x145	765	822	345	460	548	753	310	370	484	273	2,000	500-1,500	Depending on Hs
EI09	8	3 ~ 45	145x145	765	822	345	460	548	753	310	370	484	273	2,000	500-1,500	
EI11	13	3 ~ 45	186x166	950	1028	390	580	687	923	384	430	610	329	2,000	500-1,500	
EI20	19	3 ~ 45	236x200	1,172	1,224	440	700	813	1,104	432	510	754	410	2,000	500-1,500	
EI21	27	3 ~ 45	236x200	1,172	1,224	440	700	813	1,104	432	510	754	410	2,000	500-1,500	
EI29	38	3 ~ 45	300x250	1,276	1,422	620	740	961	1,320	490	680	836	481	2,000	500-1,500	
EI30	52	3 ~ 45	300x250	1,276	1,422	620	740	961	1,320	490	680	836	481	2,000	500-1,500	
EI32	68	3 ~ 45	340x280	1,497	1,632	700	900	1,095	1,437	586	710	986	537	2,000	500-1,500	
EI39	87	4 ~ 45	430x340	1,730	1,896	810	1,020	1,299	1,670	700	860	1,110	598	2,000	500-1,500	
EI40	114	4 ~ 45	430x340	1,730	1,896	810	1,020	1,299	1,670	700	860	1,110	598	2,000	500-1,500	

Dimensions in mm

# Asphalt Mixing

## SILOTOP® R03 Silo Venting Filters



7



### Description ▼

SILOTOP® is a cylindrically shaped dust collector for venting pneumatically filled silos. The stainless steel body contains vertically mounted, POLYPLEAT® filter elements. The air jet cleaning system is integrated in the hinged weather protection cover.

### Function ▼

Dust separated from the air flow by special POLYPLEAT® filter elements drops back into the silo after an integrated automatic reverse air jet cleaning system inside the weather protection cover has removed it from the filter elements.

### Application ▼

With tens of thousands of units working worldwide, since first going into production back in 1998, SILOTOP® has become the world's favourite solution for silo venting. The latest model conserves the benefits of the previous version adding a few more such as the particularly flowdynamic polymer top cover.



### Benefits ▼

- ✓ **Robust, particularly maintenance-friendly design;**
- ✓ **Low dust emission;**
- ✓ **Compliant with latest EU health and safety standards;**
- ✓ **Complete replacement of filter media by only one person within a few minutes.**

# Asphalt Mixing

## SILOTOP® R03 Silo Venting Filters



### Technical Features / Performance ▼

- ▶ Compact 800 mm (30 in) diameter 304 SS body with bottom flange and 24.5 m<sup>2</sup> (264 sq ft) filter surface
- ▶ Maintenance height = 1,100 mm (3.6 ft)
- ▶ High filtration efficiency due to POLYPLEAT® filtering elements
- ▶ Low dust emission level due to B.I.A.-certified filter media
- ▶ Maintenance-free air jet cleaning unit integrated inside weather protection cover
- ▶ Safe weather protection cover with lockable snap hook

### Overall Dimensions ▼



BODY	FILTER SURFACE	MAX. HEIGHT WHEN CLOSED	MAX. HEIGHT WHEN OPEN	kg
Ø 800 mm	24.5 m <sup>2</sup>	1,100 mm	1,850 mm	79



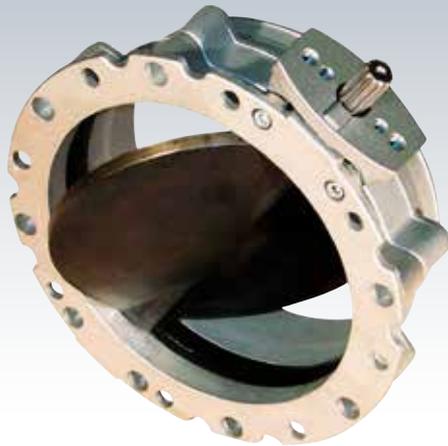
[www.wamgroup.com](http://www.wamgroup.com)

# Asphalt Mixing

## Butterfly Valves V.FS\_GBN



8



### Description ▼

VFS Butterfly Valves consist of two high-pressure die-cast semi-bodies manufactured from aluminium alloy, a swivel disc in cast iron, and a pre-stressed elastomer seal. While V1FS has a top flange and a beaded bottom section suitable for the attachment of a flexible sleeve, the V2FS comes with an identical top and bottom flange.

### Function ▼

For closing bins, hoppers and silos containing cold or hot filler dust, Butterfly Valves are among the most widely used equipment worldwide. What used to be custom-built items for specific applications, have been turned by WAM® into a mass-produced industrial product with features that allow extremely versatile use.

Material flow is intercepted by activating a manual lever or a pneumatic or electric actuator turning the valve disc 90 degrees, thus closing the valve hermetically.



### Application ▼

V.FS Butterfly Valves are used where interception of gravity-fed or pneumatically conveyed dry materials is required. They are fitted beneath hoppers, bins, silos, or screw feeder outlets. Due to their special design and to the engineering materials used, they represent a particularly cost-effective yet most efficient solution.

### Benefits ▼

- ✓ **Dust-tight;**
- ✓ **Quick fitting, retro-fitting or replacement;**
- ✓ **Excellent resistance to wear and abrasive powders;**
- ✓ **More durable thanks to special performance features.**

# Asphalt Mixing

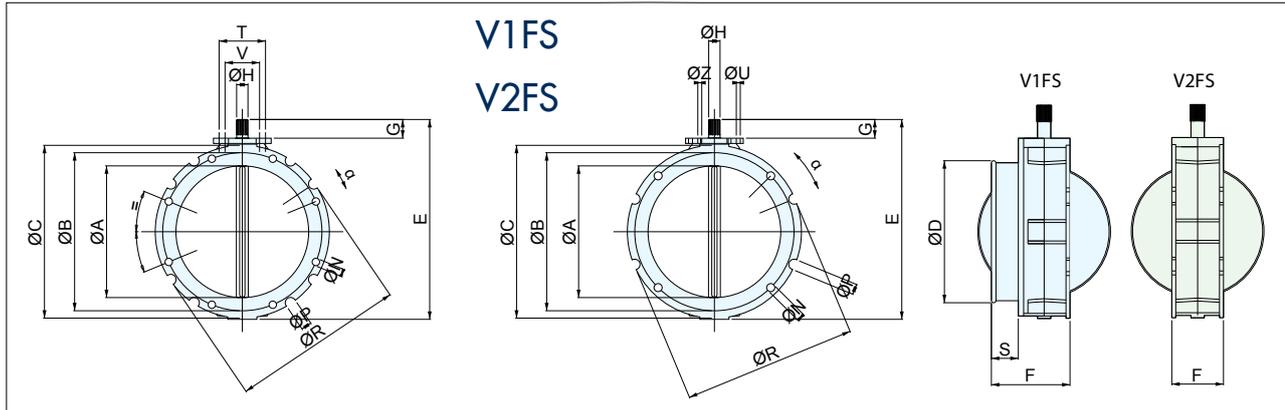
## Butterfly Valves V.FS\_GBN



### Technical Features / Performance ▼

- ▶ V1FS with top flange and beaded bottom section suitable for fixing of flexible sleeve from 100 to 400mm (4 to 16 in)
- ▶ V2FS with identical top and bottom flange from 100 to 400mm (4 to 16 in)
- ▶ Disc in cast iron
- ▶ Few components
- ▶ Easy part replacement

### Overall Dimensions ▼



TYPE	Ø A	Ø B	Ø C	Ø D	E	F	G	Ø H DIN 5482	N Drilling	P External grooves	Ø R	α	S	T	U	V	Z	kg
V1FS 100.	95	180	220	105	250	115	35	22x19	4 x Ø14	4 x Ø20	220	22°30'	40	80	M12	50	M10	4
V1FS 150.	150	200	228	163	290	115	35	22x19	4 x Ø14	4 x Ø20	228	22°30'	40	80	M12	50	M10	5
V1FS 200.	200	250	278	213	340	115	35	22x19	4 x Ø14	4 x Ø20	278	22°30'	40	80	M12	50	M10	6.5
V1FS 250.	250	300	328	263	390	115	35	22x19	8 x Ø14	8 x Ø20	325	11°15'	40	80	M12	50	M10	7.5
V1FS 300.	300	350	378	313	440	115	35	22x19	8 x Ø14	16 x Ø20	375	5°41'	40	80	M12	50	M10	9
V1FS 350.	350	400	440	363	530	123	50	28x25	8 x Ø14	8 x Ø20	440	10°	40	80	M12	-	-	16
V1FS 400.	400	470	530	413	580	123	50	28x25	8 x Ø14	16 x Ø20	530	4°30'	40	80	M12	-	-	20.5

Dimensions in mm

TYPE	Ø A	Ø B	Ø C	E	F	G	Ø H DIN 5482	N Drilling	P External grooves	Ø R	α	T	U	V	Z	kg
V2FS 100.	95	180	220	250	77	35	22x19	4 x Ø14	4 x Ø20	220	22°30'	80	M12	50	M10	4
V2FS 150.	150	200	228	290	77	35	22x19	4 x Ø14	4 x Ø20	228	22°30'	80	M12	50	M10	5
V2FS 200.	200	250	278	340	77	35	22x19	4 x Ø14	4 x Ø20	278	22°30'	80	M12	50	M10	6.5
V2FS 250.	250	300	328	390	77	35	22x19	8 x Ø14	8 x Ø20	325	11°15'	80	M12	50	M10	7.5
V2FS 300.	300	350	378	440	77	35	22x19	8 x Ø14	16 x Ø20	375	5°41'	80	M12	50	M10	9
V2FS 350.	350	400	440	530	85	50	28x25	8 x Ø14	8 x Ø20	440	10°	80	M12	-	-	16
V2FS 400.	400	470	530	580	85	50	28x25	8 x Ø14	16 x Ø20	530	4°30'	80	M12	-	-	20.5

Dimensions in mm

# Asphalt Mixing

## FIBC Dischargers SBB



9



### Description ▼

The SBB FIBC Discharger consists of a mild steel frame complete with material discharge hopper and an upper mobile cross bar for lifting of the filled up bag by forklift truck into the Discharger.

### Function ▼

The SBB is a modular system for discharging Flexible Intermediate Bulk Containers (Big Bags) in different configurations depending on the application. Easy introduction of the FIBC into the support frame and dust-free discharging along with a variety of options make the SBB extremely user-friendly.

The four loops of the FIBC are attached to the hooks of the detached cross bar that has previously been laid on top of the FIBC. The cross bar with the attached FIBC is then picked up by a forklift truck and introduced into the frame of the SBB Discharger. Once the FIBC has settled on the rubber seal of the discharge hopper the outlet closing rope of the FIBC can be pulled open through the inspection hatch of the discharge hopper. One-way bulk bags are cut open by a pyramid-shape cutting knife.



### Application ▼

SBB FIBC Dischargers are used to transfer additives contained in FIBCs to a twin shaft mixer which blends them together with the raw materials into the final asphalt mixture.

### Benefits ▼

- ✓ **Modular design;**
- ✓ **Compact shipping dimensions;**
- ✓ **Easy to install;**
- ✓ **Complete dust-free discharging from bag corners even with compressed powder.**



# Asphalt Mixing

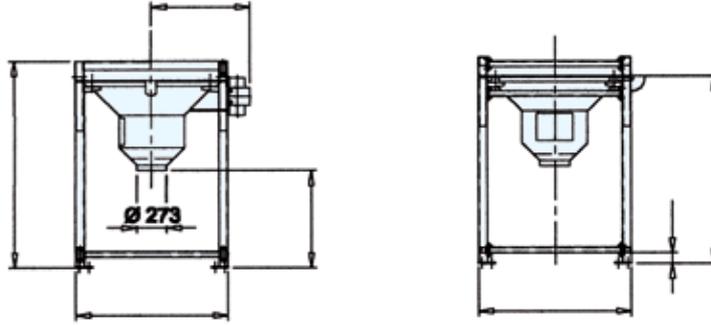
## FIBC Dischargers SBB



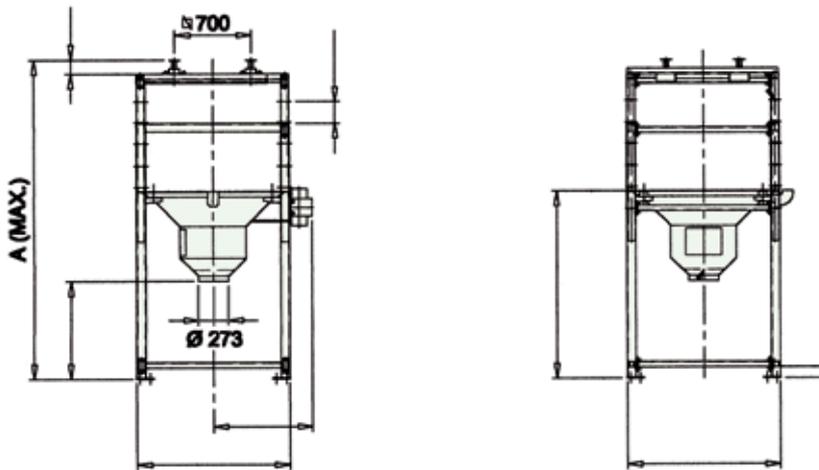
### Technical Features / Performance ▼

- ▶ Sturdy steel structure
- ▶ Vibrating outlet cone fitted with outlet opening hatchway

### Overall Dimensions ▼



TYPE	A	B	C	E	F
SBB. 125. C	1,914	1,400	832	100	1,734
SBB. 155. C	2,490	1,800	1,047	160	1,880



TYPE	A max.	B	C	D	E	F
SBB. 125. S	3,960	1,400	832	130	100	1,734
SBB. 150. S	4,307	1,800	1,047	180	160	1,800

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# Asphalt Mixing

## Tanker Loading Bellows ZG



10



### Description ▼

ZG Loading Bellows are used for efficient, dust-controlled loading of dry, dusty bulk solids into tankers. The spouts are provided with inner cones to contain the flow of material and an outer double bellows to provide for dust removal. At the lower end of the Loading Bellows, a polymer-coated SINT® cone with special sealing properties is provided for connection to the tanker.

### Function ▼

ZG Telescopic Loading Bellows are suitable for continuous loading with a maximum flow rate of 250 m<sup>3</sup>/h (147 cfm) of bulk material. The outlet can be equipped with an anti-spillage device which acts as a dustproof stopper as the Loading Bellows is being raised. The equipment features a manual or an electric winch. A spigot on the header can be connected on site to an external de-dusting filter. First the Loading Bellows is lowered from its stand-by position towards the inlet spout of the tanker. As soon as the bellows outlet cone has settled on the inlet spout of the tanker, the slack cable switch mounted outside the transmission box stops lowering of the bellows. The limit switch inside the transmission box stops both full extension and retraction of the bellows. Material loading is started by opening the silo outlet valve. During the filling of the tanker, the polymer SINT® coating of the outlet cone acts as a perfect dust seal. The slack cable switch activates further extension of the bellows as the tanker lowers under the increasing weight of the material. A level control device installed in the centre of the outlet cone signals maximum material level in the tanker compartment and orders immediate closing of the silo outlet valve. Contraction of the bellows back to stand-by position starts after a delay of approximately ten seconds in order to allow the external filter to evacuate the remaining dust. Once the bellows is fully retracted, the cable limit switch inside the transmission box stops operation.



### Application ▼

ZG Telescopic Loading Bellows are suitable for continuous loading of cold filler dust to be shipped in bulk.

### Benefits ▼

- ✓ Flexible chute in Neoprene covered by Hypalon® makes bellows weather-proof, highly abrasion and temperature-resistant and durable;
- ✓ Reverse cone with inside level indicator indicates when tanker is full, raises loading bellows gradually, thus improving material distribution inside the tanker;
- ✓ Outlet can be equipped with an anti-spillage device which acts as a dustproof stopper as the Loading Bellows is being raised and prevents loading area from being dusty;
- ✓ 2 lifting cables outside the material flow raise and lower the loading bellows without any cable wear due to material friction and obstruction to material flow.

# Asphalt Mixing

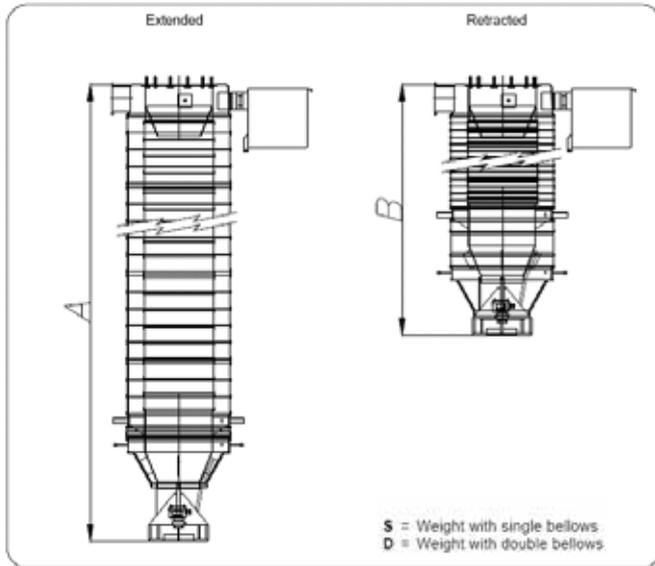
## Tanker Loading Bellows ZG



### Technical Features / Performance ▼

- ▶ Inlet diameter: 300mm (12 in)
- ▶ Maximum flow rate: 250 m<sup>3</sup>/h (147 cfm)
- ▶ Working temperature: - 20 °C up to 120 °C (- 4° F to 248° F)
- ▶ Hoisting system equipped with 0.55 kW electric motor and gear reducer with belt transmission.
- ▶ Upper/lower limit switch
- ▶ Slack cable limit switch
- ▶ Fabricated parts in carbon steel, stainless steel or anti-abrasive steel
- ▶ Bellows manufactured from Neoprene/Hypalon®
- ▶ Double bellows with optional internal steel cones for granules
- ▶ Rubber bottom outlet cone to ensure perfect sealing of tanker hatch
- ▶ Control panel with remote control for fully automatic operation
- ▶ Available with rotary level indicator or vibrating level indicator
- ▶ Anti-spillage device on outlet
- ▶ 2 external hoisting cables

### Overall Dimensions ▼



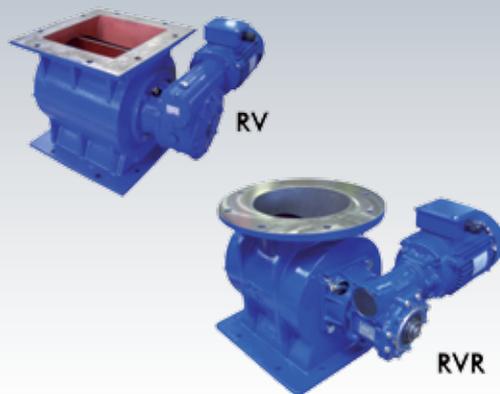
A <sub>max</sub> mm	B <sub>min</sub> mm	S kg	D kg
1,610	1,100	183	205
1,890	1,140	184	207
2,190	1,170	185	210
2,370	1,200	186	211
2,670	1,230	188	213
2,950	1,270	189	215
3,150	1,290	190	217
3,430	1,330	191	219
3,730	1,370	192	221
4,010	1,400	193	224
4,290	1,440	195	226
4,590	1,470	196	228
4,870	1,510	197	230
5,170	1,540	198	223
5,710	1,740	205	231
5,990	1,770	206	233
6,290	1,800	207	235
6,590	1,840	208	237
6,870	1,880	209	239
7,150	1,910	210	241
7,340	1,940	211	243
7,710	1,980	212	245
8,010	2,020	213	247

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# Asphalt Mixing

## Drop-Through Rotary Valves RV/RVR

11



### Description ▼

RV and RVR-type Drop-Through Rotary Valves consist of a tubular cast iron casing, a horizontally mounted rotor with a certain number of V-shaped cross section compartments, a drive unit and a casing cover opposite the drive end.

### Function ▼

RV/RVR Rotary Valves have been developed for maximum versatility in application. They are suitable for controlled discharging and feeding of powdery or granular materials from silos, hoppers, pneumatic conveying systems, cyclones or dust collectors.



### Application ▼

RV/RVR Rotary valves are fitted at the outlet of silos, bins or dust collectors for feeding the discharged material with high accuracy into the downstream process.

### Benefits ▼

- ✓ Square or round flanges ensure system compatibility and match with WAM® flanges;
- ✓ Cast iron, chrome-plated casing, as well as various rotor versions available to ensure the most appropriate configuration for application requirements;
- ✓ Quick integration into the process thanks to easy handling;
- ✓ Modular design and easy maintenance thanks to few components.

# Asphalt Mixing

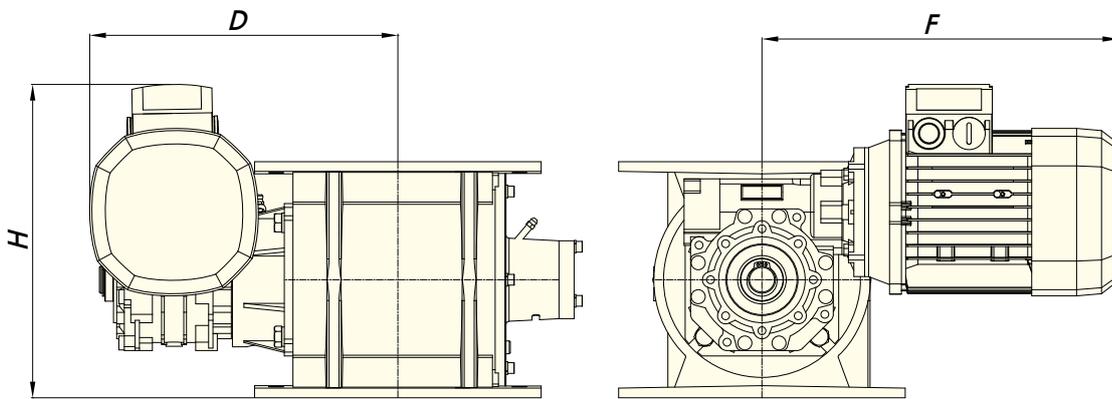
## Drop-Through Rotary Valves RV/RVR



### Technical Features / Performance ▼

- ▶ Capacity: 10.9 ~ 19.5 litres per revolution  
(0.38 ~ 0.7 cu ft per revolution)
- ▶ Working temperature: - 20° C ~ 150° C (- 4° F ~ 300° F)
- ▶ Maximum differential pressure: 0.3 bar (4.4 psi)
- ▶ Cast iron design
- ▶ Chrome-plated casing for abrasive materials available
- ▶ Rotor with beveled blades or replaceable tips available
- ▶ Sturdy compact structure
- ▶ Small footprint
- ▶ Drive unit mounted directly on shaft without further bearing assembly or coupling
- ▶ Square or round flanges and inlet spouts
- ▶ Compatibility with WAM® standard flanges on inlet and outlet

### Overall Dimensions ▼



TYPE	D*	F*	H*	kW
RV/RVR 10 30 rpm	364	394	425	1.1
RV/RVR 10 20 rpm				0.75
RV/RVR 20 30 rpm	392	419	472	1.5
RV/RVR 20 20 rpm				1.1

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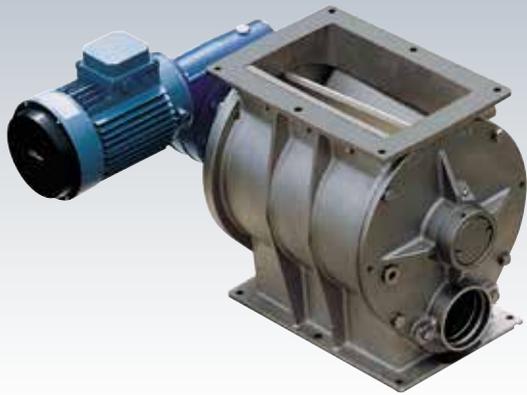
D.S.1300.RV/RVR EN October 2014.R00

# Asphalt Mixing

## Blow-Through Rotary Valves RVS



12



### Description ▼

RVS Blow-Through Rotary Valves consist of a tubular cast iron casing, a horizontally mounted rotor with a certain number of oblique V-shaped cross section compartments, a drive unit and a casing cover at each end.

### Function ▼

Two compartments at a time of the continuously turning rotor are filled up with material through the inlet at the top of the Rotary Valve. After less than half a turn the material falls through the bottom opening into an air stream passing through a pneumatic conveying duct connected with the bottom part of the Rotary Valve.



### Application ▼

RVS Blow-Through Rotary Valves are usually fitted at the outlet of a hopper upstream of a pneumatic conveying duct into which the additive is accurately fed into the weigh hopper on top of the twin shaft mixer.

### Benefits ▼

- ✓ **Material: cast iron, chromed body and various rotor versions available;**
- ✓ **Pipe connections included simplifying unit installation and removal.**

# Asphalt Mixing

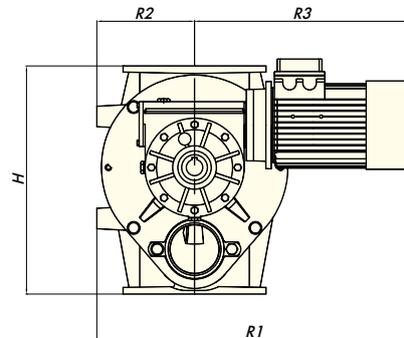
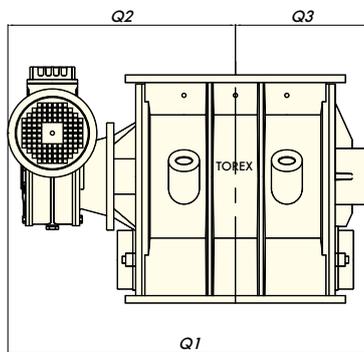
## Blow-Through Rotary Valves RVS



### Technical Features / Performance ▼

- ▶ Feed rates: 9, 14, 20, 38, litres per revolution  
(0.3, 0.5, 0.7, 1.3, cu ft per revolution)
- ▶ Working temperature: -20 °C ~ 220 °C (-4° F ~ 428° F)
- ▶ Maximum differential pressure: 0.8 bar (11.6 psi)
- ▶ Cast iron
- ▶ Rotor with beveled blades
- ▶ Chrome-plated casing for abrasive materials
- ▶ Sturdy compact structure
- ▶ Small footprint
- ▶ Drive unit mounted directly on shaft without any further bearing assembly or coupling
- ▶ Rectangular inlet flanges
- ▶ Counterflanges to be welded on pneumatic conveying duct
- ▶ Blade scraper installed inside the inlet to ease rotor movement

### Overall Dimensions ▼



30 RPM	TYPE	Dimensions in mm							Electric Motor	
		Q1	Q2	Q3	R1	R2	R3	H	kW	min <sup>-1</sup>
	RVS/C 10	572	372	200	560	140	420	339	0.75	1,400
RVS/C 15	605	390	215	588	162	426	399	1.1	1,400	
RVS/C 20	705	444	261	608	181	426	447	1.5	1,400	
RVS/C 35	890	558	332	740	217	523	530	2.2	1,400	

20 RPM	TYPE	Dimensions in mm							Electric Motor	
		Q1	Q2	Q3	R1	R2	R3	H	kW	min <sup>-1</sup>
	RVS/C 10	572	372	200	560	140	420	339	0.55	900
RVS/C 15	605	390	215	588	162	426	399	0.75	900	
RVS/C 20	705	444	261	608	181	426	447	1.1	900	
RVS/C 35	890	558	332	740	217	523	530	1.5	900	

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# Asphalt Mixing

## Rotary Level Indicators ILT



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### Description ▼

ILT-type Bin Level Indicators are designed for electric signalling by rotary action of minimum or maximum material level inside bins, hoppers or silos.

### Function ▼

As long as material is present, the paddle of the ILT Bin Level Indicator does not rotate. As soon as the material level sinks below the paddle radius, rotation restarts activating other system components. The top or side-mounted indicators are commonly used for materials having a bulk density ranging between  $0.5t/m^3$  (0.02 lb per cu in) and  $2t/m^3$  (0.08 lb per cu in).



### Application ▼

Typically ILT Rotary Level Indicators are fitted on the cylindrical part of a silo at the desired maximum or minimum level.

Equipped with an extension rod, they can also be mounted vertically into the roof plate.

### Benefits ▼

- ✓ No material contact with the casing;
- ✓ Adjustable via reset of force spring in 3 positions;
- ✓ Double threaded fitting ensures system compatibility;
- ✓ Use with different materials in one single configuration;
- ✓ Easy and quick installation and replacement;
- ✓ Compact overall dimensions;
- ✓ Lightweight due to casing in aluminium alloy;
- ✓ Maintenance-free;
- ✓ Cost-effective.

# Asphalt Mixing

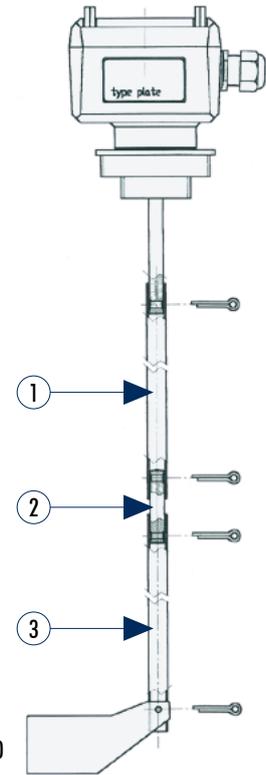
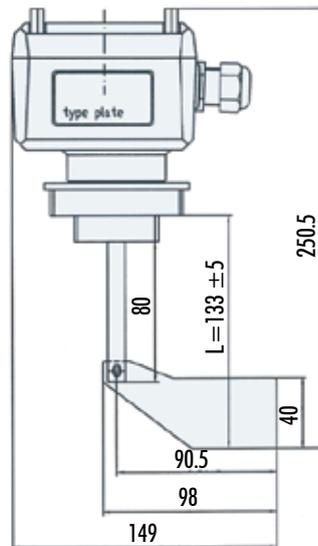
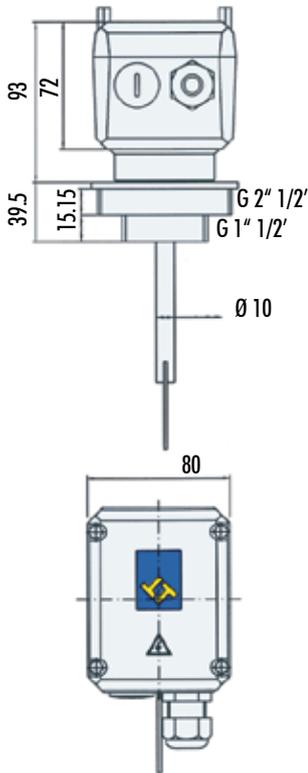
## Rotary Level Indicators ILT



### Technical Features / Performance

- ▶ Voltages available: 24 V – 48 V (AC), 50-60 Hz;  
110 V – 230 V (AC), 50-60 Hz; 24 V (DC)
- ▶ Signal output: Floating microswitch AC max. 250 V, 2 A
- ▶ Standard connection: thread G 1 1/2" – G 2 1/2"
- ▶ Enclosure: IP 66
- ▶ Working temperature inside vessel:  
- 20 °C to 80 °C (- 4° F to 178° F)
- ▶ Vessel maximum pressure: max. 0.8 bar (12 PSI)
- ▶ Threaded fittings material: Plastic
- ▶ Rotating shaft and measuring paddle material:  
304 stainless steel
- ▶ Casing material: Aluminium alloy
- ▶ Speed of measuring paddle: 1 rpm
- ▶ Friction clutch protection of the gearing of from impact  
on the measuring paddle
- ▶ Flanged connection as option
- ▶ Modular shaft extension up to 3 metres (10 ft)
- ▶ External light

### Overall Dimensions



# Asphalt Mixing

## Silo Safety System KCS



15

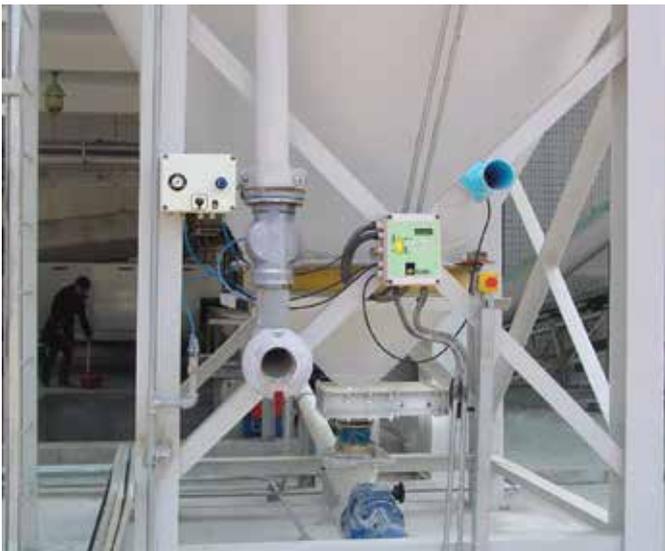


### Description ▼

The KCS Silo Safety System for the safeguarding of silos consists of a central electronic monitoring and control unit which manages a series of silos and a component kit including, in the basic version one power panel for each silo, a silo pipe connection, a pinch valve, a tanker coupling to the filling pipe, a maximum level indicator, a differential pressure switch or electronic pressure meter, a pressure gauge for the venting filter, a pressure relief valve, and an audible alarm.

### Function ▼

The KCS Silo Safety System can be used for silos which are filled by tanker with powdery materials. Damage to the silo or its accessories is most likely during the operation of tanker filling. This is due to the risk of overfilling or excess pressurisation. The KCS system, supplied in component form, prevents both overfilling and excess pressurisation, thus avoiding damage to the silo, to the venting filter or other accessories, as well as reducing the risk of dust emission into the atmosphere.



### Application ▼

In asphalt mixing plants it is essential that the filler silo is equipped with the safety components described. The control panel should be installed in the central control room from where the plant operator can monitor the silo.

### Benefits ▼

- ✓ Avoids harm to people and damage to the silo and its accessories;
- ✓ Reduces risk of air pollution;
- ✓ Eliminates risk of filling the wrong silo;
- ✓ Starts and stops filter cleaning automatically;
- ✓ Perfect dust emission control.

# Asphalt Mixing

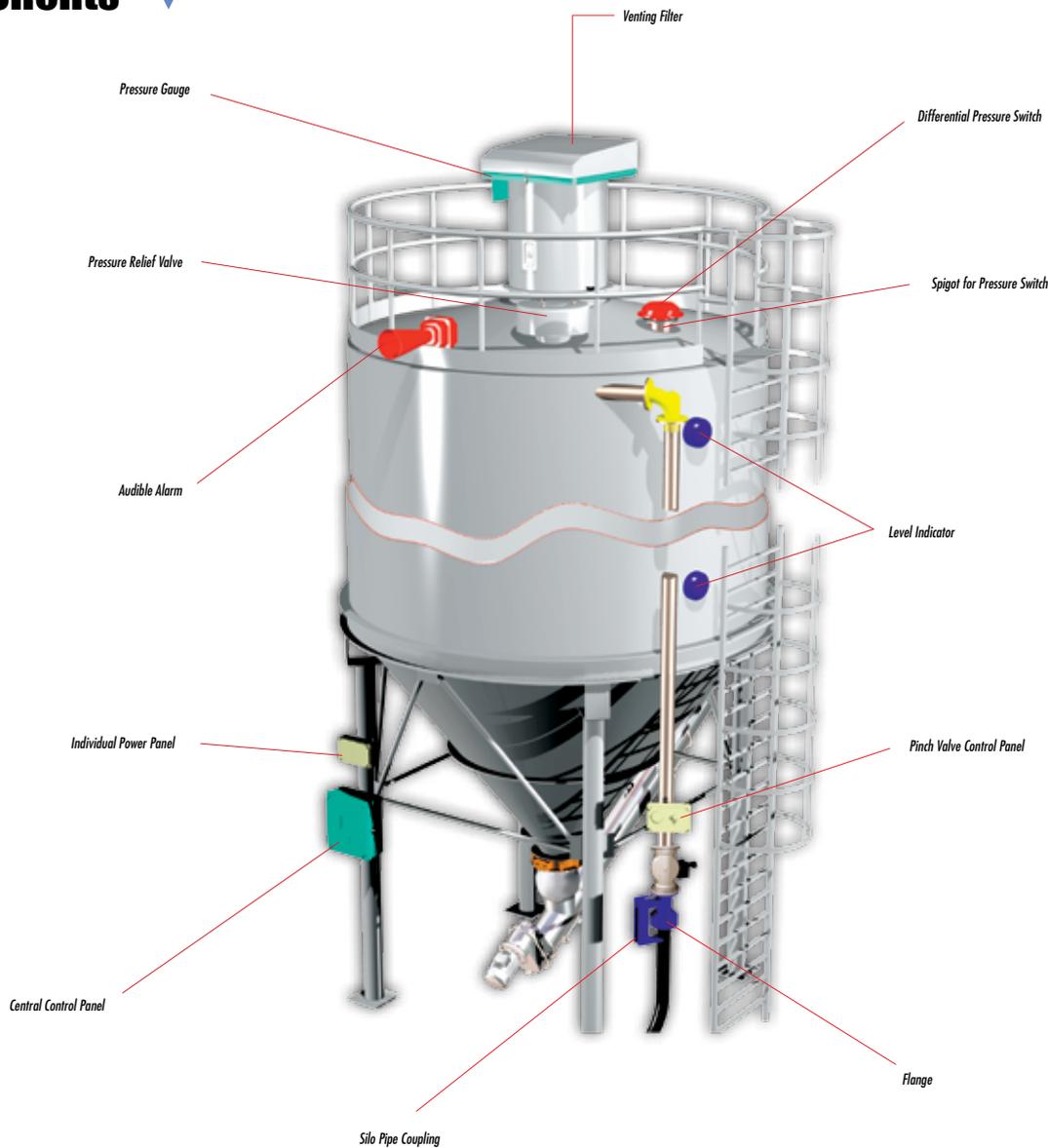
## Silo Safety System KCS



### Technical Features / Performance ▼

- ▶ To avoid damage to silo and accessories
- ▶ To reduce risk of air pollution
- ▶ To eliminate risk of filling wrong silo
- ▶ To start and stop filter cleaning automatically
- ▶ To receive indication from pressure gauge whether filter may need attention
- ▶ To benefit from control panel monitoring of:
  - Internal pressure of any silo;
  - Maximum level indicator free;
  - Presence of compressed air to venting filter (if air jet filter is used);
  - Presence of compressed air to pinch valve.

### Components ▼



DS 13000.KCS.BI. October 2014.R00  
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# Asphalt Mixing

## Membrane Pressure Relief Valves VHS



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### Description ▼

VHS Pressure Relief Valves consist of a cylindrically shaped body with flanged connection spigot to the silo, an exhaust outlet spout for duct connection, an elastic diaphragm able to re-establish pressure balance instantaneously, a counterweight kit to keep the valve closed under normal conditions, and a weather protection cover.

### Function ▼

The counterweight-loaded VHS-type Pressure Relief Valve has one decisive advantage over the spring-loaded type. Due to the moment of inertia of the helical springs on the latter, pressure balance is re-established extremely quickly but not instantaneously. The VHS, on the other hand, does the job in real time. Through an interplay of pressure on different surface areas on both sides of a membrane fitted inside the valve casing, perfect pressure balance is achieved. In the event of excess pressure this interaction enables air from inside the silo to flow back into the atmosphere. In case of suction pressure the air penetrates from the atmosphere into the silo.



### Application ▼

VHS Pressure Relief Valves are the last resort if abnormal pressure conditions endanger the silo structure. This is why sudden excess or suction pressure inside the silo must be dealt with instantaneously. Even though ideally a Pressure Relief Valve should never have to go into action, it must be efficient and reliable when needed. With thousands of units installed worldwide, VHS Pressure Relief Valves have given evidence of being totally reliable under the most different conditions.

### Benefits ▼

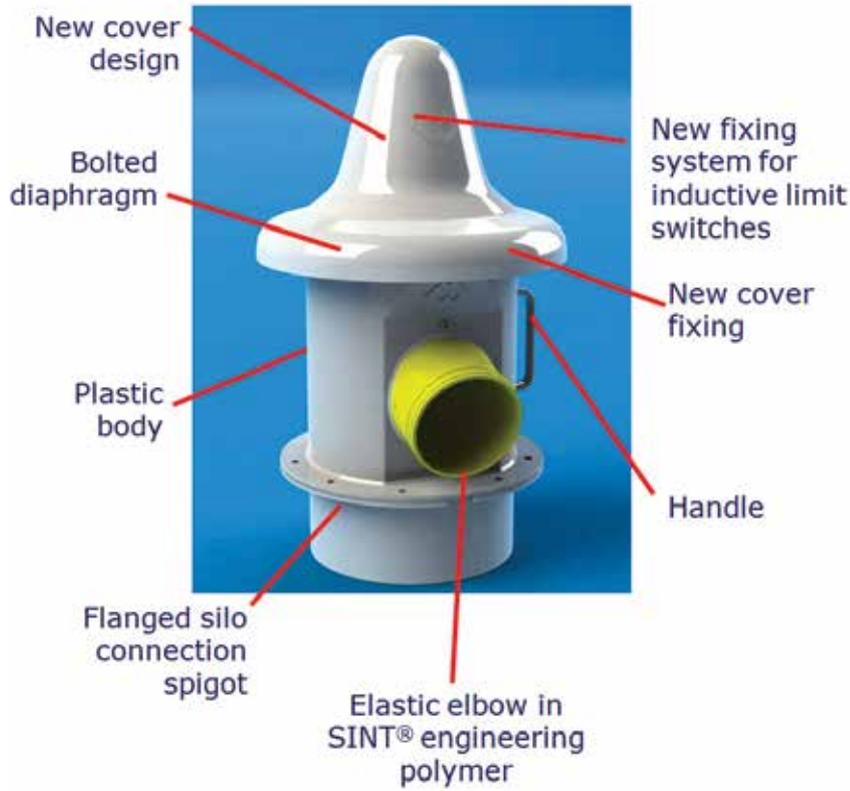
- ✓ Safety for people, plant and environment;
- ✓ Compliance with existing regulations;
- ✓ Maximum efficiency and minimum operating costs;
- ✓ Quick and easy maintenance;
- ✓ Attractive price.

# Asphalt Mixing

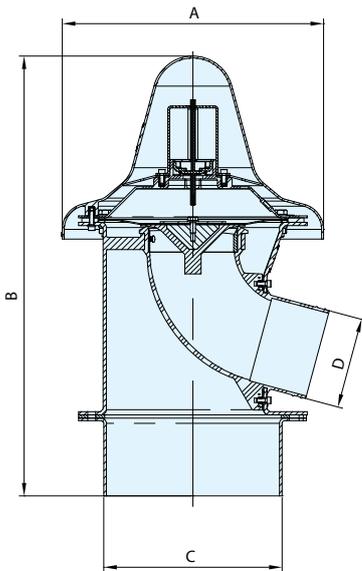
## Membrane Pressure Relief Valves VHS



### Technical Features / Performance ▼



### Overall Dimensions ▼



VHS273	Excess Pressure	Negative Pressure	kg
Standard	500 mm H <sub>2</sub> O	-50 mm H <sub>2</sub> O*	8.0
Option	300 ~ 1,000 mm H <sub>2</sub> O*	-50 mm H <sub>2</sub> O*	

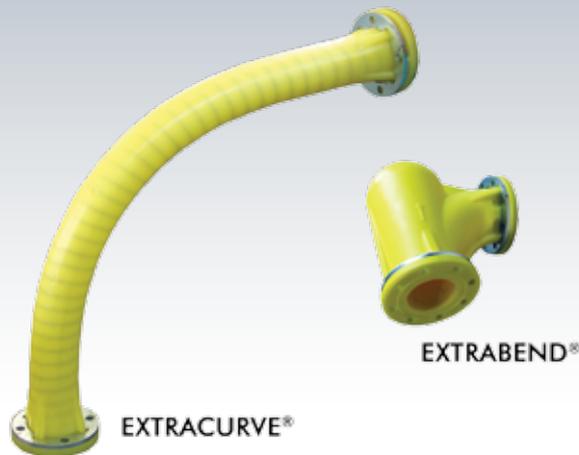
A	B	C	D
Ø 366 mm	557 mm	Ø 273 mm	Ø 140 mm

# Asphalt Mixing

## EXTRABEND® and EXTRACURVE® Pipe Elbows



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### Description ▼

Short-radius EXTRABEND® and wide-radius EXTRACURVE® Pipe Elbows are inserted as a link in pneumatic silo filling pipes. Both models are manufactured from a one-piece SINT™ engineering polymer cast.

Wear-resistant EXTRABEND® and EXTRACURVE® Pipe Elbows deflect incoming, filler dust minimising material degradation and elbow wear, avoiding at the same time any clogging or plugging.

### Function ▼

The EXTRABEND® short-radius Pipe Elbow offers a substantially innovative geometry suitable to reduce wear during operation.

The body cavity next to the point of diversion generates an internal material turbulence which protects the elbow from wear caused by the material travelling through the duct.

The EXTRACURVE® represents the latest evolution in the development of wide angle pipe elbows. Due to its flexibility and adaptability installation has become quicker while durability is dramatically increased.



### Application ▼

EXTRABEND® and EXTRACURVE® Elbows are used as a link in silo filling pipes and in ductworks of pneumatic conveying systems. They excel through their particular resistance to wear with abrasive materials.

### Benefits ▼

- ✓ Long-life elbow with abrasive materials thanks to anti-wear SINT™ engineering polymer material;
- ✓ Reduced installation costs thanks to elastic properties (no extra work for connection on site is needed);
- ✓ Reduced installation and maintenance time because EB/EW are easy to handle thanks to lightweight design;
- ✓ Reduced costs for plant designing thanks to elastic properties (elastic elbows fit for different plant layouts);
- ✓ Considerable reduction of flow resistance, consequently energy saving pneumatic conveying.

# Asphalt Mixing

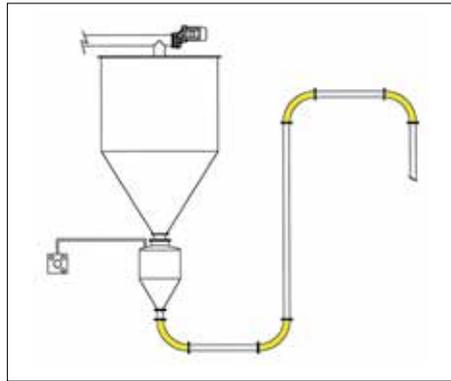
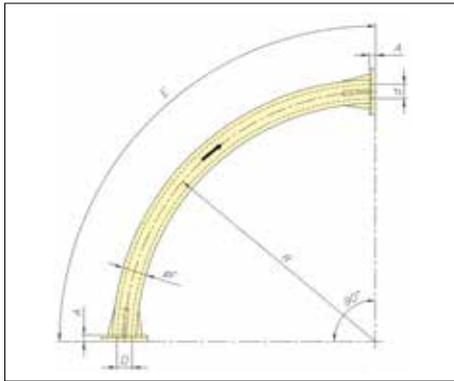
## EXTRABEND® and EXTRACURVE® Pipe Elbows



### Technical Features / Performance ▼

- ▶ SINT™ engineering polymer
- ▶ Range from 2" to 4"
- ▶ PN-type connecting flanges
- ▶ Up to 1.5 bar (22 PSI) in lean phase
- ▶ Max temperature : 80° C (176° F)
- ▶ Flexible and elastic
- ▶ Lightweight and easy to handle
- ▶ Reduced noise level

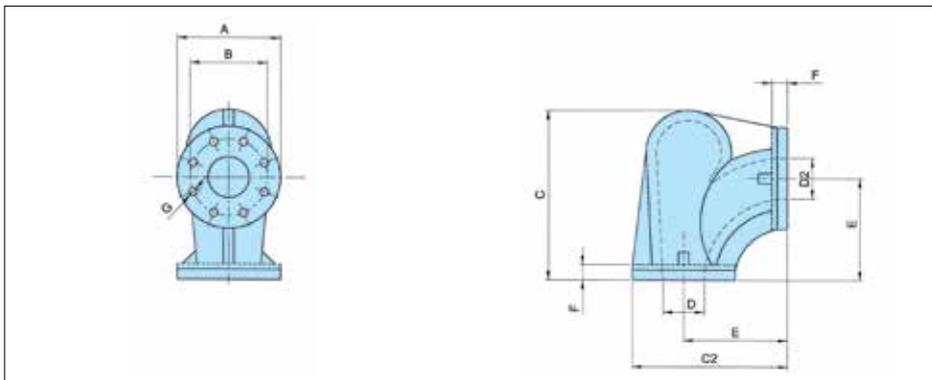
### Overall Dimensions ▼



**EXTRACURVE®**

EW	A	Ød	ØD	E	ØF	R	kg
2"	23	52	55	1,400	85	900	7.3
3"	30	80	83	1,400	110	900	9.6
4"	30	105	108	1,400	140	900	13.4

Dimensions in mm



**EXTRABEND®**

Type	Ø Pipe	A	B	C	C2	Ø D	Ø D2	E	F	Ø G	Flange Drillings	kg
EB 2	2"	165	125	232	220	55	52	140	23	18	4	2
EB 3	3"	200	160	330	300	85	80	200	30	18	4	5
EB 4	4"	220	180	435	373	108	105	263	30	18	8	7

Dimension in mm

# Asphalt Mixing

## Pinch Valves VM / Pipe Connections KAT

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### Description ▼

The casing of the VM Pinch Valve is manufactured from aluminium alloy. Sleeves are made from fabric-reinforced NR. The sleeve support bushes are either made from aluminium alloy or 304/316 stainless steel.

### Function ▼

VM-type Pinch Valves are used for interception of the material flow in pneumatic conveying systems or other pipelines. They can be installed as a locking device for silo filling pipes, too. In the open position the internal cross section of the valve is identical with the connecting pipe diameter. By introducing compressed air through the threaded bore into the interior of the valve, the internal flexible sleeve is reshaped in such a way as to hermetically seal the passage.



### Application ▼

VM Pinch Valves are mounted between the bottom end of the silo filling pipe and the KAT Pipe Connection for tanker filling. Should any abnormal conditions occur, such as excess pressure inside the silo or overfilling of the latter, the VM Pinch Valve receives command for instantaneous closure, thus safeguarding the silo from any further filling or overpressurization.

### Benefits ▼

- ✓ Full bore-through passage without any pressure loss and stagnation points;
- ✓ Low air consumption;
- ✓ Easy and quick sleeve and bush replacement;
- ✓ Sleeves in fabric-reinforced NR;
- ✓ Compact overall dimensions;
- ✓ Lightweight due to valve body in aluminium alloy;
- ✓ No maintenance required except for periodic replacement of the sleeve and bushes.

# Asphalt Mixing

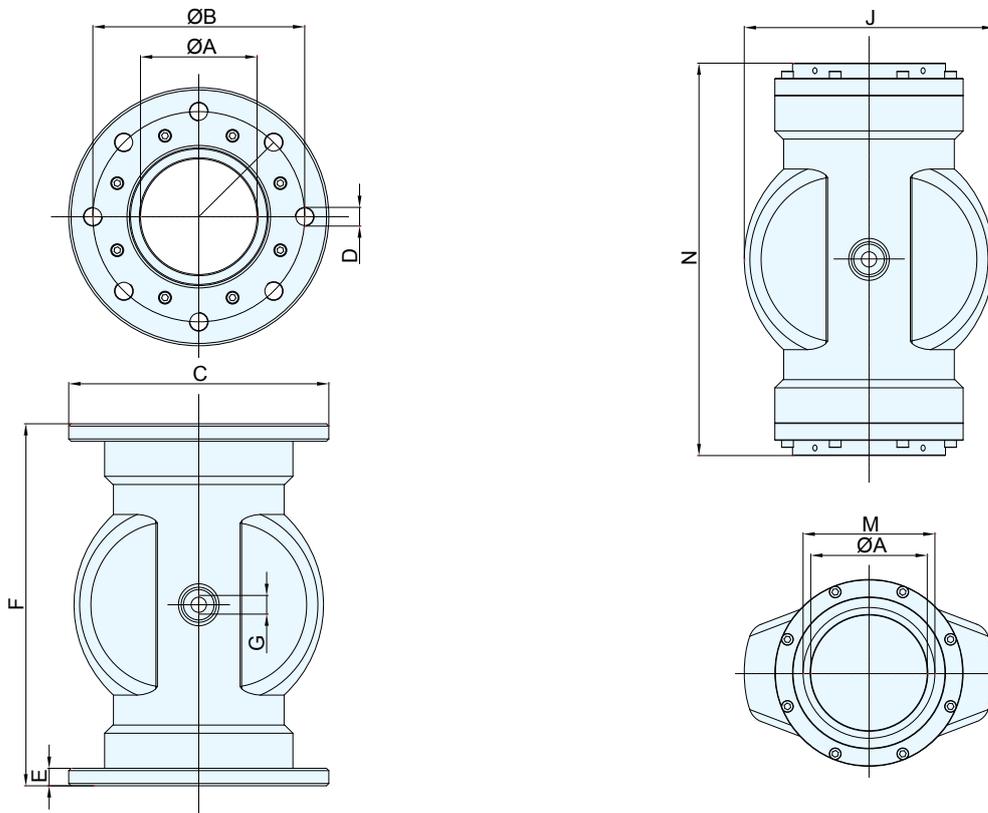
## Pinch Valves VM / Pipe Connections KAT



### Technical Features / Performance ▼

- ▶ Passage diameter 80mm or 100mm (3 or 4 in)
- ▶ Maximum working pressure: 3.5 bar (52 PSI)
- ▶ Maximum inflation pressure: 6.0 bar (90 PSI)
- ▶ Recommended maximum differential pressure: 2.5 bar (37 PSI)
- ▶ Sleeve material: NR
- ▶ Bush material: Aluminium alloy

### Overall Dimensions ▼



TYPE	A	B	C	D		E	F	G	H	J	L	M	N	kg
				Ø	Qty.									
VM080	80	160	200	M 16	4	15	270	1/4"		180		3"	294	5.40
VM0100	100	180	220	M 16	8	15	310	1/4"		214		4"	334	7.60

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# Asphalt Mixing

## External Electric Vibrators MVE

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### Description ▼

The range of “MVE” External Electric Motovibrators is the result of more than 50 years of experience in vibration technology for various industrial applications worldwide. OLI® External Electric Vibrators afford a guarantee of long-term durability reflecting the care taken over selection of components and the high level of precision adopted in manufacture.

### Function ▼

In asphalt plants “MVE” External Electric Motovibrators are used for aiding aggregate flow from hoppers and silos to the drier drum, as well as additives from FIBC dischargers.



### Application ▼

“MVE” External Electric Motovibrators are used in asphalt mixing plants where flow aids are required. Typical applications are as discharge aids for aggregates and subsequent cleaning of the aggregate hoppers.

Fitted on the hopper of an SBB-type FIBC Discharger, the MVE Electric Motovibrator ensures complete emptying of the additive from the bulk bag.

### Benefits ▼

- ✓ Oversized SKF bearings;
- ✓ 2-years-warranty including electric components;
- ✓ Ex-stock delivery;
- ✓ Certificates available: Ex/CE/ETL/GOST/Baseefa/IEC/IECEx.



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# Asphalt Mixing

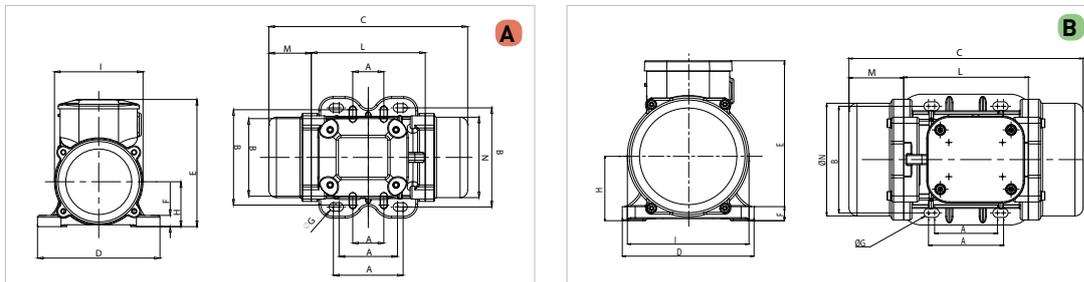
## External Electric Vibrators MVE



### Technical Features / Performance

- ▶ Aluminium casing up to size 50 (included), cast iron from size 60
- ▶ SKF bearings
- ▶ Operating temperature: -20° C to 40° C (-4° F to 104° F)
- ▶ Multiple voltages: 220-240/380-415 V, 50 Hz
- ▶ 750 - 1,000 - 1,500 - 3,000 R.P.M. (900 – 1,200 – 1,800 – 3,000 R.P.M.)
- ▶ Multiple fixing bores
- ▶ Motor protection: IP 66-NEMA 4
- ▶ Continuous duty: S1
- ▶ Insulation class: F
- ▶ Standard: ATEX Ex II 3D CERTIFIED
- ▶ Standard: ETL (UL-CSA) Class II Div.2
- ▶ ATEX Exe II 2 GD increased safety range available
- ▶ Explosion-proof range available

### Overall Dimensions



3 Phase		1 Phase		Overall dimension																											
Type 50 / 60 Hz	U.S. Market 60 Hz	Type 50 / 60 Hz	Drawing	Size	c		m		a		b		ø g		N° Holes	d		e		f		h		i		l		n		Weight	
(mm)	(inch)	(mm)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)		(mm)	(inch)	(Kg)	(Lb)												
MVE 60/3	MVE 160/2	MVE 60/3M	A	10	211	8.31	45	1.77	62-74	2.44-2.91	106	4.17	9	0.35	4	130	5.12	136	5.35	12	0.47	48	1.89	94	3.70	121	4.76	85	3.35	4.2	9.3
MVE 100/3	MVE 220/2	MVE 100/3M	A	10	231	9.09	54	2.13	62-74	2.44-2.91	106	4.17	9	0.35	4	131	5.16	159	6.26	15	0.59	64	2.52	121	4.76	123	4.84	112	4.41	7.0	15.4

### MVE 3 Phase Series

3 Phase		Mechanical Features								Electric Features															
		Working moment (*)				FC				Power		Current		Power Factor				Ia/In		Class II 2D		Cable Type		Cable Gland	
		Kg*cm		in*Lb		Kg		Lb		Kw	Hp	A max (Y)		50Hz		60Hz		Temp. Class	Temp. Class	Type	U.S. Market				
Type 50 / 60 Hz	U.S. Market 60 Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50 Hz	60 Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	T	Temp. Class	Temp. Class	Class Temp.	Type: AWG (SOW) Class Temp.	Class Temp.
MVE 60/3	MVE 160/2	1.3	0.9	1.1	0.9	66	71	145.5	156.5	0.08	0.09	0.11	0.12	0.16	0.18	0.74	0.82	3	3	T4	100	461.5	18-4c	M16	
MVE 100/3	MVE 220/2	1.9	1.3	1.7	1.1	98	95	216	209.4	0.1	0.11	0.13	0.15	0.19	0.18	0.76	0.85	3	3	T4	100	462.5	16-4c	M20	
MVE 200/3	MVE 440/2	3.7	2.6	3.2	2.3	187	189	412.3	416.7	0.18	0.21	0.24	0.28	0.35	0.35	0.78	0.87	3.3	3.30	T4	100				
MVE 202/3	MVE 444/2	3.7	2.6	3.2	2.3	187	189	412.3	416.7	0.18	0.21	0.24	0.28	0.35	0.35	0.78	0.87	3.3	3.30	T4	100				
MVE 300/3	MVE 690/2	6.4	4.5	5.5	3.9	321	323	708	712.1	0.27	0.28	0.36	0.38	0.52	0.45	0.84	0.89	3.60	3.50	T4	100				
MVE 400/3	MVE 890/2	7.9	5.7	6.9	4.9	407	411	897	906.1	0.30	0.36	0.40	0.48	0.58	0.60	0.88	0.88	3.50	3.50	T4	100				
MVE 500/3	MVE 1200/2	10.3	7.4	8.9	6.4	530	534	1168.4	1177.3	0.50	0.58	0.67	0.78	0.96	0.97	0.84	0.87	4.00	4.20	T4	100				
MVE 700/3	MVE 1700/2	14.9	10.6	12.9	9.2	758	765	1671.1	1686.5	0.66	0.75	0.89	1.01	1.25	1.24	0.83	0.88	4.30	5.00	T4	100				
MVE 800/3	MVE 1800/2	15.7	11.1	13.6	9.6	794	800	1750.5	1763.7	0.75	0.90	1.01	1.21	1.45	1.50	0.79	0.84	3.80	3.80	T4	100				

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DS.1300/MVE-EN October 2014, 000



# Asphalt Mixing

## External Electric Vibrators MVE

22



### Description ▼

The range of “MVE” External Electric Motovibrators is the result of more than 50 years of experience in vibration technology for various industrial applications worldwide. OLI® External Electric Vibrators afford a guarantee of long-term durability reflecting the care taken over selection of components and the high level of precision adopted in manufacture.

### Function ▼

In asphalt plants “MVE” External Electric Motovibrators are fitted on the so-called “hot screen” in both stationary and mobile plants.



### Application ▼

The hot screen is a multideck classifying screen receiving dry and hot aggregate mix from the burner and the elevation tower. It is used to classify aggregates according to particle size: each deck of the hot screen holds a specific particle size and discharges it to a dedicated output port for further storage inside the mixing tower. Usually two 6-poles MVE Motovibrators are used on each hot screen to achieve linear motion, improving screening efficiency.

### Benefits ▼

- ✓ First quality roller bearings;
- ✓ Reliable electric motor;
- ✓ Ex-stock delivery;
- ✓ 2 years warranty.



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# Asphalt Mixing

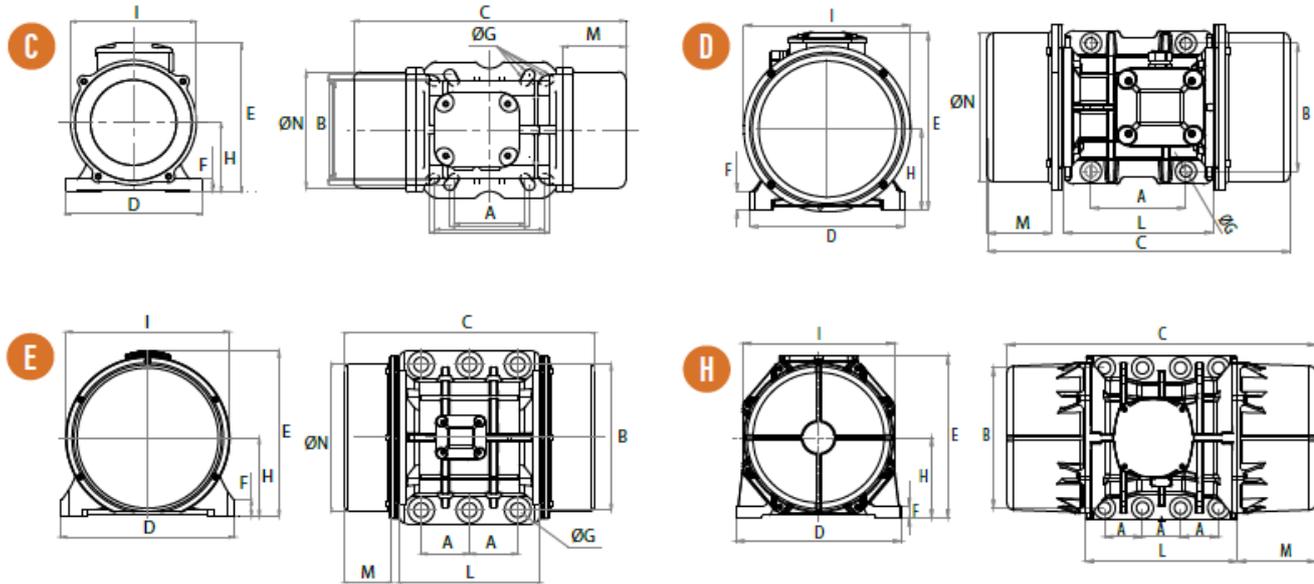
## External Electric Vibrators MVE



### Technical Features / Performance

- ▶ Strong FMEA designed cast iron body
- ▶ Fully and easily adjustable centrifugal force
- ▶ Reliable vacuum impregnated windings & classF materials
- ▶ Motor enclosure: IP66 – NEMA4
- ▶ Operating temperature -20/+40°C
- ▶ Centrifugal force up to 25.000kg
- ▶ Multiple voltages always available
- ▶ Atex certification: ExII3D as standard, Increased safety available.
- ▶ ETL certification: Class II, Div.2, group F,G as standard
- ▶ Suitable to be used with VFD devices

### Overall Dimensions



Model		Drawing	Size	DIMENSIONAL SPECIFICATIONS (mm)														
				C		M		A	B	ØG	Holes	D	E	F	H	I	L	N
50Hz	60Hz			50Hz	60Hz	50Hz	60Hz				N°							
MVE 8000/1	MVE 8000/12	D	85	788	688	210	160	200	320	28	4	378	411	49	200	424	325	378
MVE 9000/1	MVE 9000/12	D	85	788	688	210	160	200	320	39	4	378	411	49	200	424	325	378
MVE 10000/1	MVE 10000/12	E	90	826		210		125	380	39	6	452	430	44	204	422	367	378
MVE 13000/1	MVE 13000/12	E	90	926	826	260	210	125	380	39	6	452	430	44	204	422	367	378

Wm (kgcm)		Model		Centrifugal Force (kg)		Weight (kg)		ELECTRICAL SPECIFICATIONS						CERTIFICATE		
								Input Power (kW)		Nominal Current A max (Y)		Ia / In		Cable	Class II Div.2	Ex II3D
50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz (400V)	60Hz (460V)	50Hz	60Hz	Gland	Temp. Class	Temp. Class
1435.98	929.80	MVE 8000/1	MVE 8000/12	8018	7476	325.2	290	7.10	7.50	12.60	11.60	6.00	6.20	M32	T4	135°C
1600.39	1165.23	MVE 9000/1	MVE 9000/12	8936	9369	337.8	307.6	7.50	8.30	13.20	12.60	6.30	6.20	M32	T4	135°C
1788.44	1239.98	MVE 10000/1	MVE 10000/12	9986	9970	385.8	359.3	7.60	8.00	13.50	12.70	6.40	6.40	M32	T4	135°C
2329.84	1647.42	MVE 13000/1	MVE 13000/12	13009	13246	422.2	375.6	10.00	10.00	17.00	16.00	6.20	6.3	M32	T4	135°C



# Asphalt Mixing

## Aeration Pads I100

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### Description ▼

Due to the semi-convex shape of the durable polymer I100 Aeration Pads, air is given off at a wide emission angle across the entire white surface.

### Function ▼

Fluidisation or aeration equipment is used as a preventive measure. A variety of materials will show perfect mass flow as soon as a certain amount of air is added at regular intervals during discharging of the bin or silo and during storage. Aeration during storage prevents compaction or segregation. With I100 Aeration Pads the action is gentle (operating pressure of the pad = 0.2 bar). The air-enriched material gains the desired flowability. At the same time, possible tendencies of the product to bridge, rat-hole, agglomerate, or deposit are prevented. Long-term field experience with I100 Aeration Pads performing with partial pulse jet fluidisation (Pulse-Jet and Felder System) have shown that virtually all dust generating materials can be successfully fluidised.



### Application ▼

In a single row installation, I100 Aeration Pads are widely used. More sophisticated applications with alternately fed multiple rows are available where fluidisation is used not only during discharging of the silo but also to keep the material in motion during longer storage periods.

### Benefits ▼

- ✓ **Durable;**
- ✓ **Easy to install;**
- ✓ **Maintenance-free.**



# Asphalt Mixing

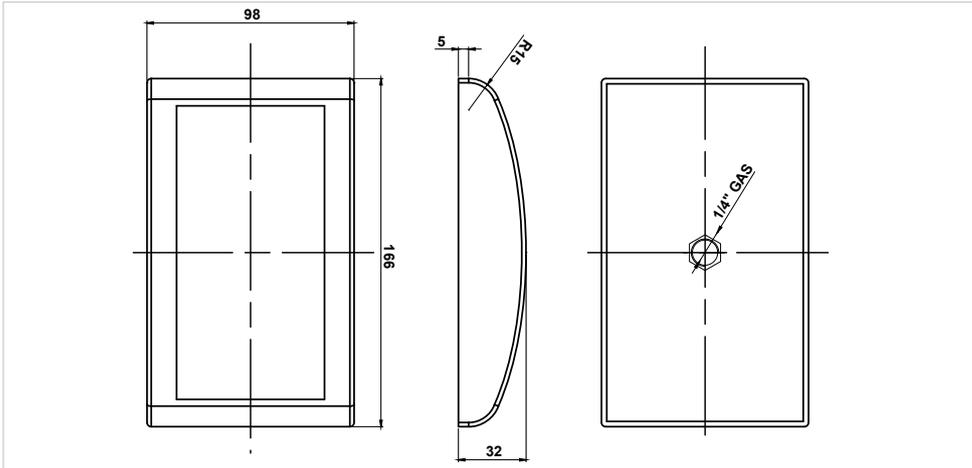
## Aeration Pads I100



### Technical Features / Performance ▼

- ▶ Operating pressure: 0.2 bar (3 PSI)
- ▶ Air consumption: 0.12 m<sup>3</sup>/h (0.07 cfm) at 0.2 bar (2.9 PSI) in continuous duty
- ▶ Weight including cardboard box: 250 g (0.55 lbs)

### Overall Dimensions ▼



I100	<b>Air consumption</b>	
	<b>0.2 bar (2.9 psi)</b>	
	<b>l/min</b>	<b>Cfm</b>
	2	0.07

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# Asphalt Mixing

**PATENTED**

## Vibrating Bin Aerators VBS-Type



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### Description ▼

Vibrating Bin Aerator types VBS combine product aeration under operating pressure reaching 4 bar (58 PSI) with an additional slight vibration on the silo wall. Due to their design damage of the silo is impossible even with abrasive materials. An additional backstop valve is not required as, due to the work pressure ranging from 0.8 to 4 bar (12-58 PSI), no material can enter the zone beneath the elastic lip. VBS-type Vibrating Bin Aerators are used for the improvement of mass flow with powders and granular materials.

VBS can be used with compressed air or, in some cases, inert gases such as CO<sub>2</sub> as a preventive measure.



### Function ▼

Compressed air is introduced into the stored material through the silicon lip which adheres to the inside silo wall. By varying the work pressure within a range between 0.8 and 4 bar (12 to 58 PSI) the intensity of vibration of the elastic silicon lip can be changed. Due to interval operation and a maximum operation time of five seconds air consumption is very low. TRAMONTANA™ disc: the Venturi style disc cavity of the VBS boosts air flow in the direction of the discharge point reducing load-out time and air consumption.

### Application ▼

VBS Vibrating Bin Aerators are used in all types of powder processing plants where flow aids are required.

Typical application is fluidisation of filler dust and additives in storage silos and hoppers. They are fitted on storage silos or weigh or feed hoppers, as well as fluidisers for dry bulk trailers.

### Benefits ▼

- ✓ 2 combined effects: vibration and aeration;
- ✓ No damage to the structure of the bin;
- ✓ Suitable for powdery or granular materials (non hygroscopic);
- ✓ Self-cleaning;
- ✓ Abrasion-resistant;
- ✓ Durable;
- ✓ Easy to fit;
- ✓ Maintenance-free;
- ✓ Suitable for external mounting.



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# Asphalt Mixing

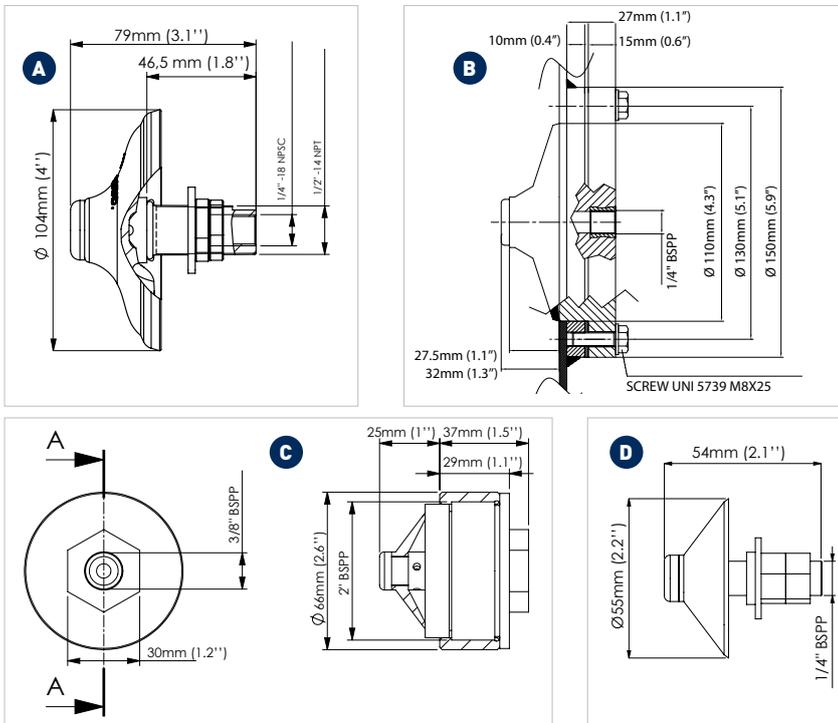
## Vibrating Bin Aerators VBS-Type



### Technical Features / Performance ▼

- ▶ Aluminum "anticorodal" shaft (stainless steel on request – VBI-Type)
- ▶ Vibrating silicon membrane
- ▶ Continuous or discontinuous duty cycle
- ▶ Work temperature: -40° ~ 235°C (-40° F ~ 455° F)
- ▶ Work pressure: 0.8 ~ 4 bar (12 ~ 58 psi)

### Overall Dimensions ▼



PRODUCT	DRAWING	MEMBRANE COLOUR	STEM MATERIAL	Air consumption						Working temperature			
				0.8 bar (11.6 psi)		2 bar (29 psi)		4 bar (58 psi)		°C		°F	
				l/min	Cfm	l/min	Cfm	l/min	Cfm	Min.	Max.	Min.	Max.
VBS	A	White	Aluminium	600	20	800	28	1150	40	-40	170	-40	338
VBSI	A	White	Stainless steel	600	20	800	28	1150	40	-40	170	-40	338
VBE	B	White	Nylon	-	-	-	-	1150	40	-40	80	-40	176
VBSME	C	White	Nylon	100	3.5	150	5	-	-	-40	80	-40	176
VBSM	D	White	Aluminium	100	3.5	150	5	-	-	-40	170	-40	338
VBSMI	D	White	Stainless steel	100	3.5	150	5	-	-	-40	170	-40	338

# Asphalt Mixing

## DUSTFIX® Dust Conditioners



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### Description ▼

DUSTFIX® Dust Conditioners consist of a carbon steel tubular casing with SINT® engineering polymer liner, a combined feeder screw/mixing shaft entirely manufactured from SINT® engineering polymer, one vertical inlet and a flush outlet in SINT®, a liquid supply point in the conditioning section, a drive unit with integrated adjustable shaft sealing unit.

### Function ▼

In terms of function and economy, the DUSTFIX® Dust Conditioner is a machine for moistening / conditioning and disposal of filler dust and avoid environmental pollution. Due to its particular technical features, the use of innovative SINT® engineering polymers and extremely short processing time, DUSTFIX® is suitable for continuous duty.



### Application ▼

The DUSTFIX® conditioning system for asphalt mixing plants ensures dust-free disposal on open truck or belt conveyor.

### Benefits ▼

- ✓ Quick return on investment;
- ✓ High-speed conditioning;
- ✓ Minimum wear;
- ✓ Easy to install;
- ✓ Low maintenance;
- ✓ Attractive price.

# Asphalt Mixing

## DUSTFIX® Dust Conditioners

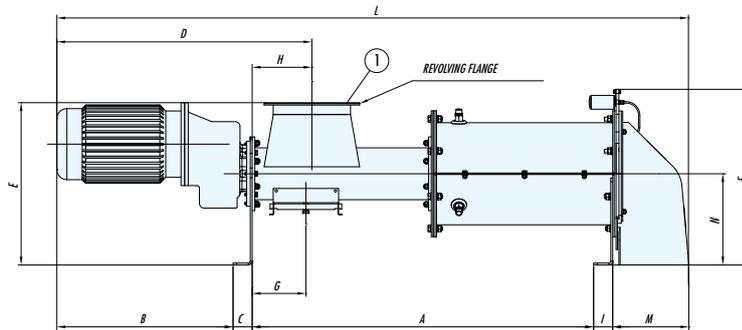


### Technical Features / Performance ▼

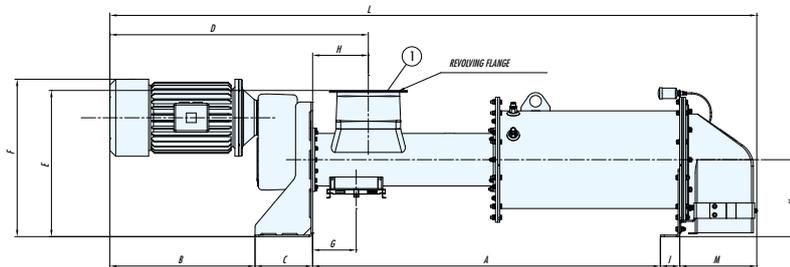
- ▶ From 20 up to 80 m<sup>3</sup>/h
- ▶ Electric control panel
- ▶ Water supply panel
- ▶ Antiwear materials

### Overall Dimensions ▼

**DUSTFIX® 20 / DUSTFIX® 40**



**DUSTFIX® 80**



TYPE	A	B	C	D	E	F	G	H	I	L	M	N	kW	kg	m <sup>3</sup> /h
DUSTFIX 20	1,023.5	584	83	900	570	559	225	250	83	2045,5	258	300	5.5-7.5-9.2	265	20
DUSTFIX 40	1430	738	80	1,068	685	741	225	250	80	2,645	319	385	15-22	490	40
DUSTFIX 80	1,794.5	749	297	1,333.5	760	774	225	287.5	100	3,338	380	400	30	850	80

*Dimensions in mm*

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