Plastics Processing

VL Slide Valves

Description

VL-type Slide Valves consist of a two-piece carbon or stainless steel frame, which is partly coated with WAM®'s unique SINT® engineering polymer composite, and a sliding blade manufactured either from the same material or from carbon or stainless steel. The use of SINT® engineering polymer composites considerably increases resistance to abrasion compared to traditional valves.

Function

VL Slides Valves are used where flow of a bulk solid caused by gravity or transport has to be intercepted. Valves may be fitted to hopper or silo outlets, to the inlets and outlets of mechanical conveyors and to the inlet of telescopic loading spouts.

Applications

The special geometry of the VL Slide Valves and the different options of blade design enable their application in virtually every type of powder, flakes or granular materials processing plants where interception of gravity-fed or pneumatically conveyed dry materials is required.
Typical applications are compounding, masterbatch, coating, extrusion or blow moulding lines.
They are fitted beneath hoppers, bins, silos, screw or other type conveyors.
Due to their special design and to the engineering materials used, they represent a particularly cost-effective yet most efficient solution.

Benefits

- ✓ **No contamination due to metal steel blade and valve frame coated with polymer material;**
- ✓ **Dust and granule-proof thanks to components geometry;**
- ✓ **Used with different materials in the same configuration;**
- ✓ **Safety for OEM and user thanks to ATEX certification zone 22;**
- ✓ **Easy integration into the process thanks to its light weight and easy handling;**
- ✓ **Modular design and easy maintenance thanks to small numbers of components;**
- ✓ **High flexibility and time-saving maintenance thanks to interchangeable components;**
- ✓ **Better performance thanks to friction-free contact design (actuator torque is not wasted in order to win friction resistance).**

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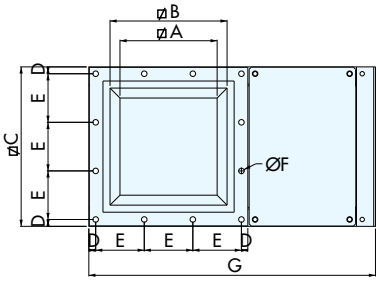
Technical Features / Performance

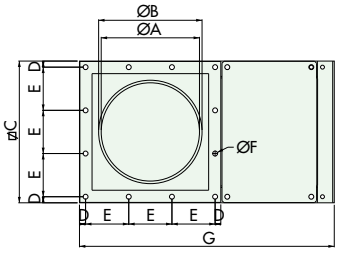
- Square (VLQ) or round (VLC) inlet from 150 to 400mm (6 to 16 in)
- Rectangular inlet for size 300mm (12 in)
- Dust and granular-proof and max. temperature of 80°C (176 F°)
- Blade and frame in carbon or stainless steel
- Absence of residue points
- Friction-free contact design
- Small number of components
- Easy part replacement
- Safe sealing with no additional measures due to the all-round dustproof seal lips incorporated in the polymer coating

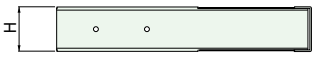
Overall Dimensions



VLQ

Type	A	B	C	D	E	N°E	Ø F	Bolts	G	H	kg
VLQ0150..	120	175	261	15.5	115.0	2	12.5	M10	455	113	14
VLQ0200..	170	225	311	15.5	93.3	3	12.5	M10	555	113	18
VLQ0250..	220	275	361	15.5	110.0	3	12.5	M10	650	113	22
VLQ0300..	270	325	431	23.0	128.3	3	12.5	M10	765	113	30
VLQ0350..	320	375	481	18.0	89.0	5	12.5	M10	900	125	40
VLQ0400..	370	425	531	15.5	100.0	5	12.5	M10	1,000	125	46





VLC

Type	A	Ø B	Ø C	D	E	N°E	Ø F	Screw	G	H	kg
VLC0150..	150	165	261	15.5	115.0	2	12.5	M10	455	113	14
VLC0200..	200	215	311	15.5	93.3	3	12.5	M10	555	113	18
VLC0250..	250	265	361	15.5	110.0	3	12.5	M10	650	113	22
VLC0300..	300	315	431	23.0	128.3	3	12.5	M10	765	113	30
VLC0350..	350	365	481	18.0	89.0	5	12.5	M10	900	125	40
VLC0400..	400	415	531	15.5	100.0	5	12.5	M10	1,000	125	46

This datasheet might not show the complete range but only the models most suitable for the application.