SK™ V2 - diverter valve of the future

Higher efficiency, less maintenance

- New leaner profile
- Streamlined parts
- Lower weight
- Standard and ATEX 20 designs
- Direct mount actuators: hand, air, motor
- One piece replaceable seat cartridge
- Service in place via oversized hinged access port
- Diverter/Converger duty
- Drop-in replacement for previous SK designs
- Interchangeable right/left hand
- Control and indication in actuator

FLSmidth’s SK™ V2 two-way diverter/converger valve is the latest version of our traditional valve designed for positive switching of material flow in pressure or vacuum conveying systems. Engineered for 50 psig and 400°F maximum temperature, this rugged valve is well-suited for various abrasive materials such as cement, limestone, bentonite, fly ash, copper concentrate, baryte and other pulverized or granular materials. The SK V2 valve is compatible in dilute-, two-phase or dense-phase applications. Three different actuators are available: Motor, air cylinder and manual lever.

Specifications

General - The SK™ V2 two-way valve is available in five sizes: 6", 8", 10", 12" and 14", and matches the i.d. of standard schedule 30 pipe. Flanges are available in ANSI or DIN designs, 45° divert port is standard.

Housing - Durable cast iron construction, precision machined.

Internals - The internal mechanism working on the sliding disc and port principal. Replaceable and hardened one-piece seat cartridge with hardened disc are ground and lapped to maintain a positive seal at the closed port.

Access - Internal parts are readily accessible through a large hinged and bolted access port.

Versatility - The SK V2 valve is available for right or left hand operation. Actuators are easily changed to the opposite hand without the need for customized parts.

Actuators - Precision electric motor, air cylinder or hand lever actuators with integral limit switches for dependable positioning of the disc with seats.

Special applications - ATEX 20 design for pulverized fuel handling. Various voltages available.

Superior value

- Designed for precise operation, the SK V2 valve provides improved alignment of the disk and a longer operating life.
- The large access port presents easy access for maintenance, and uses a hinged panel for improved safety.
- The SK V2 valve has the versatility to be re-purposed from right-hand to left-hand on site, saving valuable maintenance hours.
- The valve uses traditional actuators for easy connections to controls and wiring.
- Minimal adjustments are required, reducing installation hours and saving you money.
- No linkages or guards are needed for this valve, resulting in safer operation and less risk for maintenance staff.

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### SK™ V2 two-way diverter valve

#### Dimensions

**Air cylinder actuated**

<table>
<thead>
<tr>
<th>Size</th>
<th>Metric</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Working Pressure</th>
<th>Flow Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>150mm</td>
<td>256 kg</td>
<td>1146</td>
<td>736.5</td>
<td>273</td>
<td>603</td>
<td>53</td>
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<tr>
<td>200mm</td>
<td>236 kg</td>
<td>1255</td>
<td>914</td>
<td>348</td>
<td>571</td>
<td>101</td>
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<tr>
<td>250mm</td>
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<td>1524</td>
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**Electric motor actuated**

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**Hand lever (manual) actuated**

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**Image Descriptions**

- **Electric motor actuated**: Diagram showing the motor connection and valve structure.
- **Air cylinder actuated**: Diagram showing the cylinder connection and valve structure.
- **Hand lever actuated**: Diagram showing the lever connection and valve structure.
SK™ V2 two-way diverter valve

All basic SK V2 diverter valves include:

- Cast and flanged actuator port, bolted for easy change-over to opposite side
- Bolted and hinged access cover
- Dual shaft seals per side with grease lubrication fittings
- Dual bushing type bearings
- One-piece hardened seat plate, 575 BHN with O-ring seals
- Cast hardened disc, 550 BHN
- 45º divert port
- Assembled for choice of direct mounted actuators: electric, air cylinder or hand lever