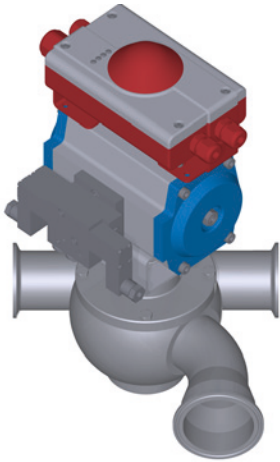
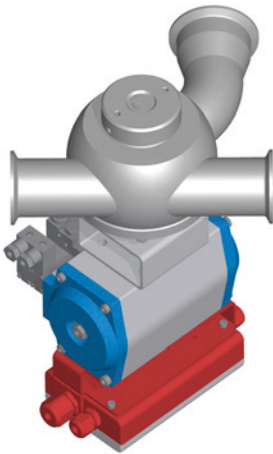


4.2 Venturi Powder Control Valve

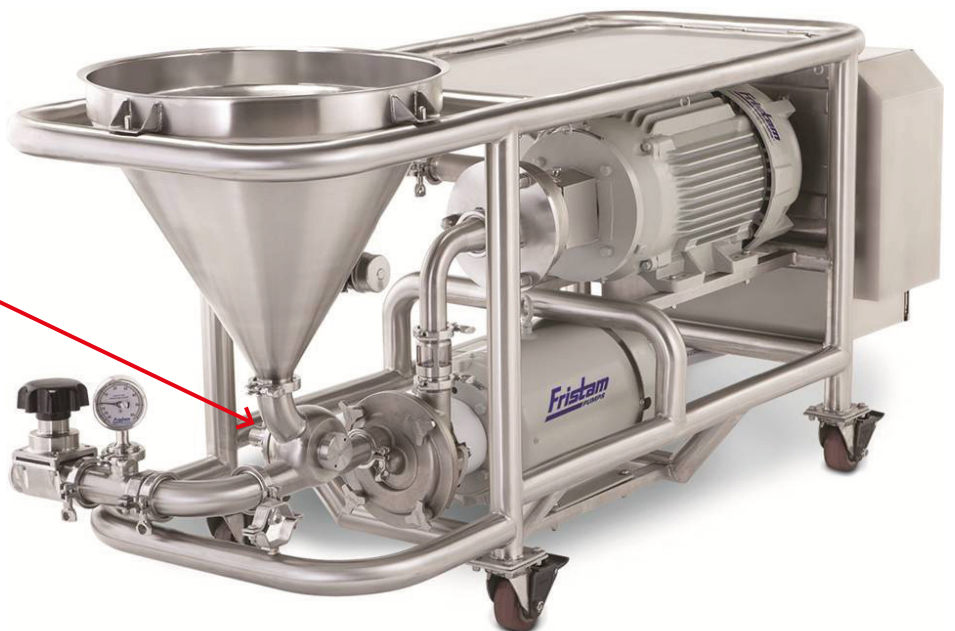
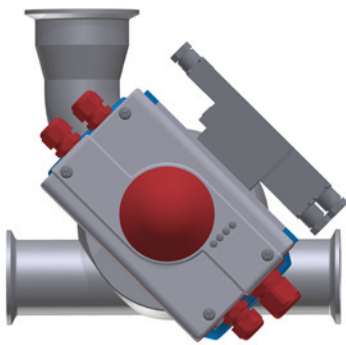


LAUFER Venturi powder control valves are designed to enable smooth flow of powder through the valve, the middle port is orientated at a 135°/45° angle to the straight through passage. The Y-arrangement of the inlet creates the ideal flow and vacuum exhaust characteristics for proportioning and dosing. This allows for a complete full bore without reducing the nominal diameter as often experienced with the use of a butterfly valve. Furthermore the Venturi powder control valve can substitute up to two butterfly valves, which improves the operating control of the unit.



Features

- Totally clear passage - no pressure loss
- No dead pockets
- No product retention or sticking of solid particles
- Can be completely dismantled for easy service even when welded in place
- Identical wearing and spare parts as shutter valves



Technical Data Overview

Nominal sizes	
Inch:	1.5" / 2" / 2.5" / 3"
DIN:	40 / 50 / 65 / 80
Materials	
Inox parts in contact with product:	AISI 316L (1.4404 / 1.4435)
Other inox parts:	AISI 304 (1.4301)
O-ring seals:	EPDM, FKM (Viton®), FEP, other grades upon request
Shutter:	Dyneon™ TFM1600
Surfaces	
In contact with product:	Ra ≤ 32µin (Ra ≤ 0.8µm)
Temperature	
Operating temperature:	230°F (110°C)
Short-term:	284°F (140°C) – optionally up to 392°F (200°C)
Operating pressure	
Pressure behind arc:	145 psi (10 bar) – optionally up to 290.1 psi (20 bar)
Pressure against arc:	43.5 psi (3 bar)
Version	3-way
Operation	
Manual:	with handle
Pneumatic:	Electro-pneumatic control unit consisting of: <ul style="list-style-type: none"> • Pneumatic actuator 0°-90° • Positioner Positurn 4-20mA (0-10V), 24V DC, IP65
Valve connection	
Clamp connection:	Tri-Clamp
Welded ends:	Inch, DIN
Male ends:	DIN 11851
Further options	
<ul style="list-style-type: none"> • Shutter material; alternatively glass-fiber reinforced Teflon (GL25), Tecapeek® • Combination of different types of connection • Delivery and adaptation to actuators of different manufacture per Namur NE14 and DIN EN ISO 5211 	