


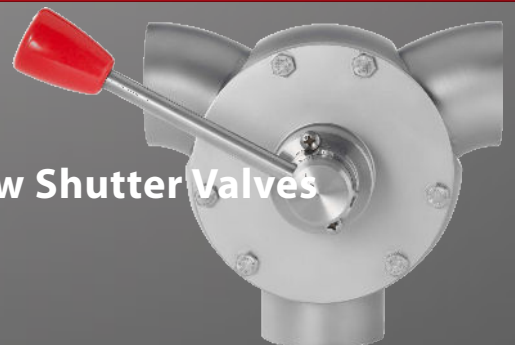


LIAG®

LAUFER VALVE TECHNOLOGY

Sanitary Multi-Port Free Flow Shutter Valves
for hygienic processes


51-01



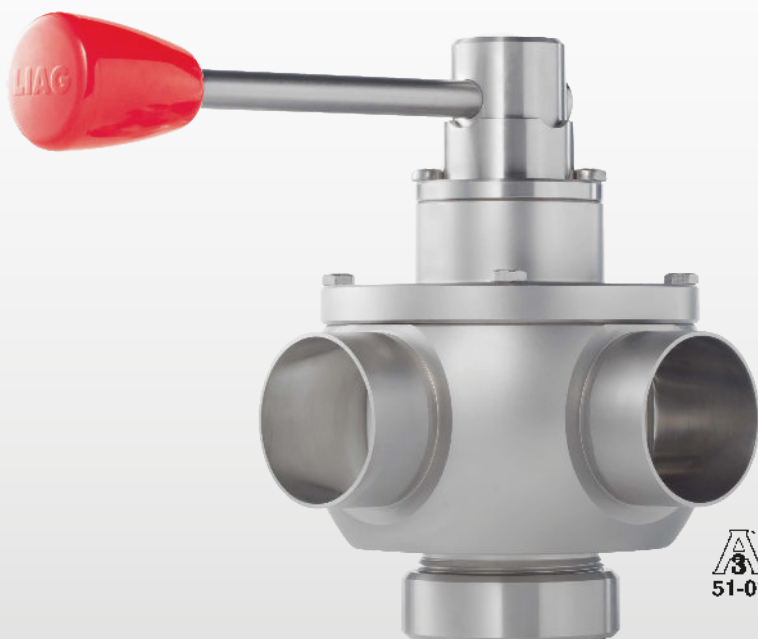
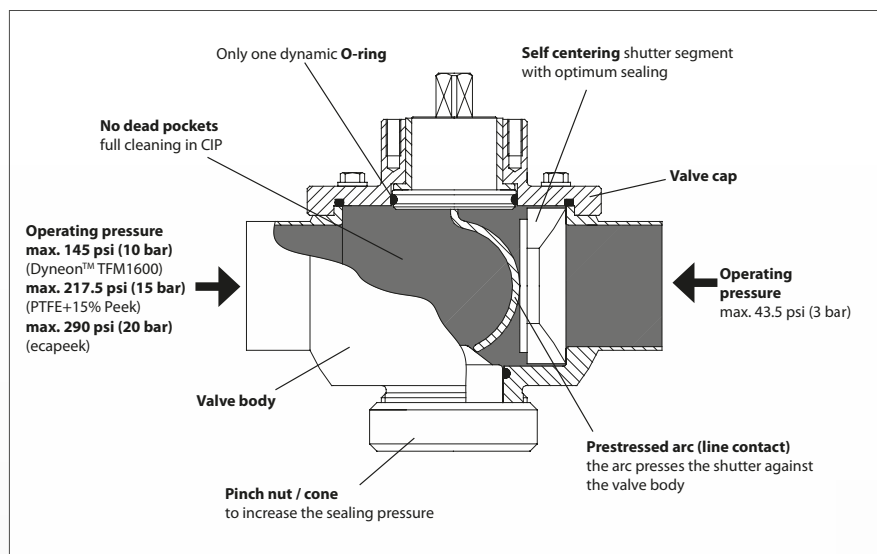
LIAG® Multi-Port Free Flow Shutter Valves

for highly viscous, fast hardening media and hygienic pigging processes

The hygienic alternative to ball valves

LIAG® free flow shutter valves have been designed according to hygienic design guidelines to meet the high demands of process engineering applications. LIAG® valves are particularly suited for viscous/pasty products and fluids containing solid particles on account of a totally clear passage, as well as easy and thorough cleaning in place.

This valve series thus provides optimum conditions for a wide variety of pigging system applications. By virtue of their simplicity of design and minimum number of components and wearing parts, LIAG® valves are characterized by maximum hygiene, low maintenance and safe operation.



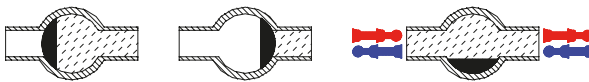
Made with Know How

Features

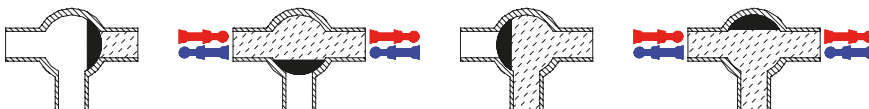
- No dead pockets
- CIP/SIP capability (hygienic design)
- Totally clear passage – no pressure loss
- No product remainders or sticking of solid particles
- Designed to be passed with DMV lip pigs
- Minimum number of components and wearing parts
- Can be completely dismantled even when welded in place
- 3-A 51-01 and FDA compliance
- CRN

Operating positions

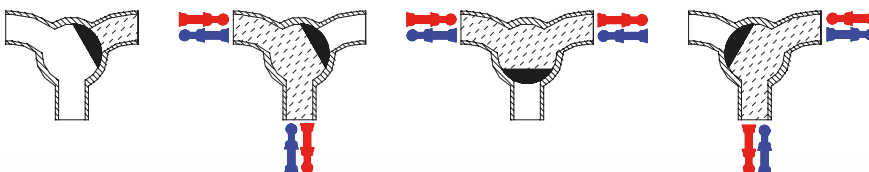
2-way shutter valve



3-way shutter valve



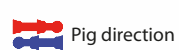
Pig diverter shutter valve 90°/120°



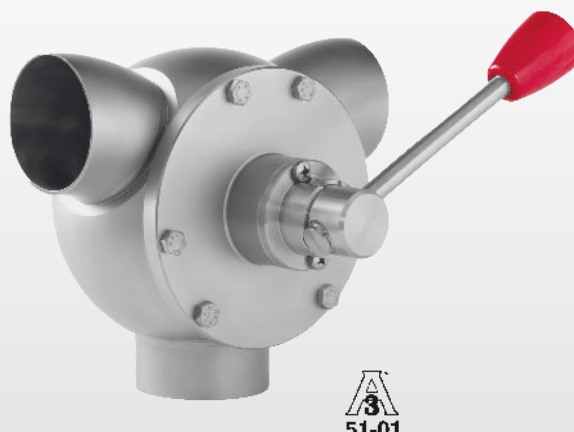
Product area



Shutter



Pig direction



Hygienic – Modular – Efficient

	2- / 3-way shutter valve	Pig diverter shutter valve 90° / 120°
Nominal sizes		
Inch:	1" / 1.5" / 2" / 2.5" / 3" / 4" / 6"	1.5" / 2" / 2.5" / 3" / 4"
DIN:	25 / 40 / 50 / 65 / 80 / 100 / 150	40 / 50 / 65 / 80 / 100
Materials		
Inox parts in contact with product:	AISI 316L (1.4404 / 1.4435)	AISI 316L (1.4404 / 1.4435)
Other inox parts:	AISI 304 (1.4301)	AISI 304 (1.4301)
O-ring seals:	EPDM, FKM (Viton®), FEP, other grades upon request	EPDM, FKM (Viton®), FEP, other grades upon request
Shutter:	Dyneon™ TFM1600	Dyneon™ TFM1600
Surfaces		
In contact with product:	Ra ≤ 32µin (Ra ≤ 0.8µm)	Ra ≤ 32µin (Ra ≤ 0.8µm)
Temperature		
Operating temperature:	230°F (110°C)	230°F (110°C)
Short-term:	284°F (140°C) – optionally up to 392°F (200°C)	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)	145 psi (10 bar) – optionally up to 290.1 psi (20 bar)
Pressure against arc:	43.5 psi (3 bar)	43.5 psi (3 bar)
Versions	2-way / 3-way	3-way (3 x 120°)
Operation		
Manual:	with handle (4 locking positions)	with handle (3 locking positions)
Pneumatic:	• Vertical pneumatic actuator (AISI 304) • Horizontal pneumatic actuator (aluminium housing)	• Horizontal pneumatic actuator (aluminium housing)
Valve connection		
Clamp connection:	Tri-Clamp	Tri-Clamp
Welded ends:	Inch, DIN	Inch, DIN
Male ends:	DIN 11851	DIN 11851
Further options / Certificates	<ul style="list-style-type: none"> • 4-way version • Shutter material; alternatively: Tecapeek®, PTFE+15% Peek • Heated version • Leakage control of moving O-ring seal / steam barrier with ball-bearing supported selector shaft • Combination of different types of connection • Delivery and adaptation to actuators of different manufacture per Namur NE14 and DIN EN ISO5211 • CIP/SIP capability (hygienic design) • 3-A 51-01 and FDA compliance • CRN 	

LAUFER Valve Technology Inc., 2300 Walnut Ave, Suite Q-R, Signal Hill, CA 90755

T: +1.562.232.4777 – F: +1.844.802.1610 – sales@laufer-valve.com – www.laufer-valve.com

