DRY-BREAK AWAY SAFETY VALVE

Series ERC 100

Technical specifications

Liquid Transfer Srl

DOC: ERC100_01_EN **REV:** 01-09/2017

MADE IN ITALY

The SILEA Safety Break-away Valve series ERC 100 is used on bottom loading arms to avoid leakage of dangerous fluids or vapours in case of departure of the truck during loading. Generally the valve is mounted on bottom loading bays. The ERC works through the breakage of three screws regulated at a specific load (force) that allows the valve to split in two parts.

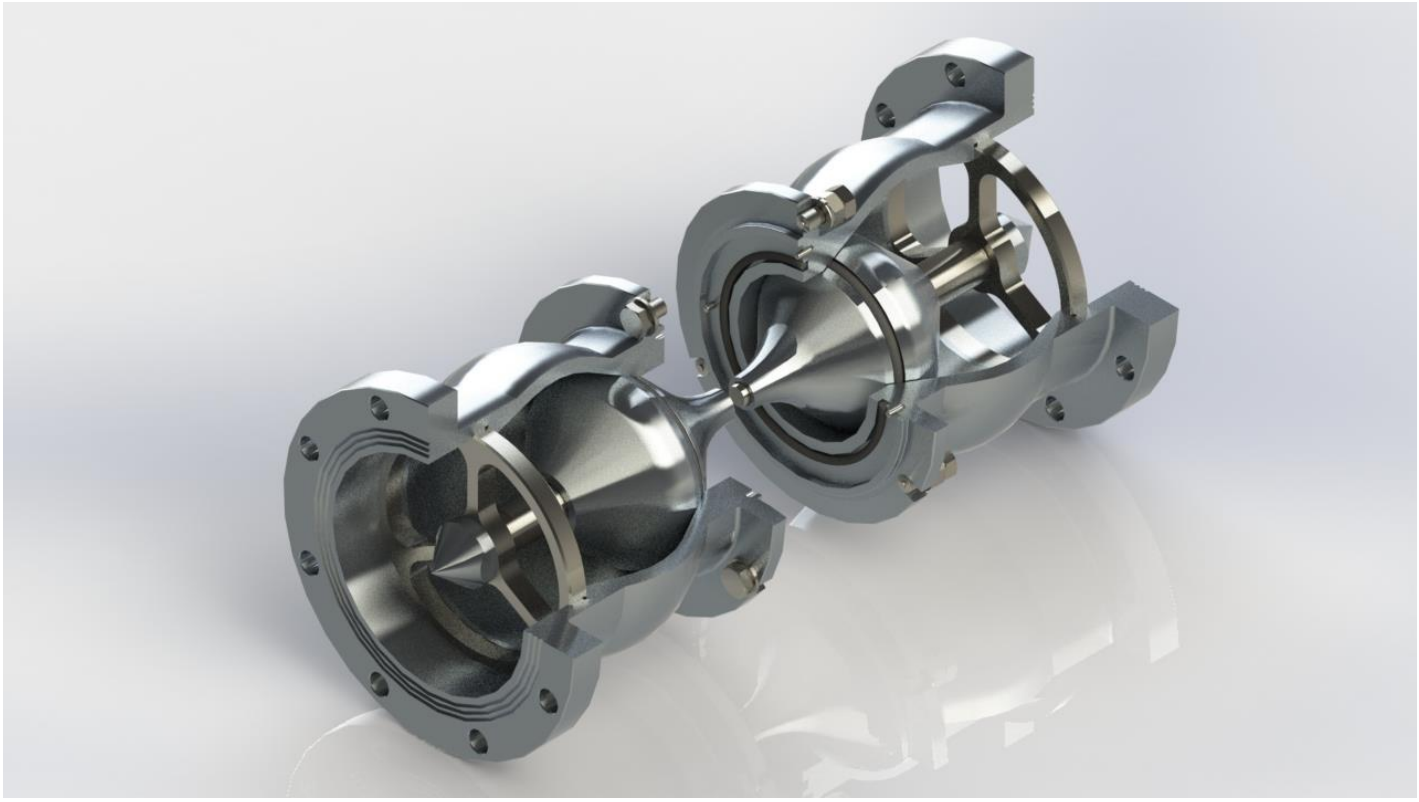
Technical features		
Nominal diameter/ Coupling	Flange TTMA 4''	
Body material	Aluminium	
Seals material	FPM-NT (Viton®)	
Design pressure	10 bar	
Test pressure	15 bar	
Max load on the valve in vertical position	1250 kg	
Valve breakage in vertical postion	2500 kg	
Valve breakage moment	200 kgm	
Design temperature	-15°C / +65°C	
Nominal flow rate [flow speed: 4.5 m/s]	120 m^3/h	2000 l/min
Max flow rate	150 m^3/h	2500 l/min
Load loss	0.17 bar at 2500 l/min	
Breaking screw fixing moment	4 Nm (dry)	

Standards and Regulations

- Conformity Declaration of current Directive **PED** for Pressure Equipment
- Conformity Declaration of current Directive **ATEX** for Equipment used in Potentially explosive atmospheres
- Customs Declaration of certification for Russia, Kazakhstan, Belarus, **EAC certification**.
- Standard **API-ASTM-ANSI-TTMA.**

Options:			
Seals material	Main applications	Design temperatures	Codes
HNBR NBR hydrogenated	Bio fuels	-40/+65 °C	ERC100-B
FFKM perfluoroelastomer	Aggressive fluids	-13/+65 °C	ERC100-K

Maintenance kit codes		
Seals material	Complete KIT	Gaskets KIT
HNBR NBR hydrogenated	KMERC100B	KGERC100B
FFKM perfluoroelastomer	KMERC100K	KGERC100K
FPM-NT (Viton®)	KMERC100V	KGERC100V



Standard documentation

- Declaration of conformity to regulations
- Declaration of material conformities and functional test (CCC)
- Manual of use and maintenance (MUM)

Documentation on request

- **Materials specifications map (MIM):**
  - Certification 3.1 EN 10204 for steel
  - Certification 2.2 EN 10204 for aluminium

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