Overfill Prevention Devices

Mod. 442 - 442 PTFE - 442 SS

APPLICATION

It's a Safety Device in according with Directives ATEX 2014/34/EU, EN ISO 13616-1:2016, EN ISO 80079-36:2016, Technical Norm Fire Prevention 41/256 31/10/2019, d.P.R. 10/520 19/03/1955 and subsequent amendments.
Valve is used to prevent any possible overfill during charging hazardous or dangerous fluids.
- Application: petrochemical, pharmaceutical & more.
- Valve opens and closes automatically.
- No residual liquid in pipe at the end of loading process.
- The operator cannot leave the pump during the refueling process.

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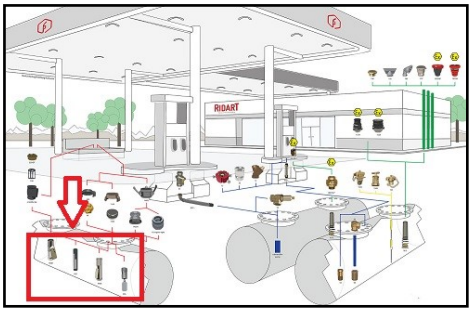
ATTENTION

* Flow and Turbolence should modify initial and final closure level by ±20%.
The best performances allowed by the new regulation:
- Max operational pressure 8 bar for pressure filling.
- Loading process needs operator supervisor.



CHEMICAL SUITABILITY

- Standard model is for traditional fuel without additives.
- "PTFE" coated model is for special fuel, non-aggresive solvents or chemical products.
- "SS" model is for aggressive solvents, acids or bases (ON DEMAND).

DIMENSIONS and DETAILS

PRODUCT	442	442	442
CODE	442-80 AL	442-80 AL PTFE	442-80 SS
INSTALLATION	VERTICAL	VERTICAL	VERTICAL
THREAD UP	3"F BSPP	3"F BSPP	3"F BSPP
THREAD DOWN	3"F BSPP	3"F BSPP	(2"F BSPP on demand)
HEIGHT BODY	500 mm	500 mm	490 mm
TYPE OF FILLING	GRAVITY or PUMP	GRAVITY or PUMP	GRAVITY or PUMP
INITIAL CLOSURE LEVEL*	240 mm below the valve top	240 mm below the valve top	270 mm below the valve top
FINAL CLOSURE LEVEL*	120 mm below the valve top	120 mm below the valve top	150 mm below the valve top
MIN FLOW l/min (230 mbar)	60 norm requested	60 norm requested	60 norm requested
MAX FLOW l/min (8 bar)	900 norm requested	900 norm requested	900 norm requested
BODY	ALUMINIUM	AL + PTFE CARBON COATING	STAINLESS STEEL
SCREW	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
POPPET	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
SEALS	TEFLON® + CARBON	TEFLON® + CARBON	TEFLON® + CARBON
FLOATING	PP HD + CARBON	PP HD + CARBON	PP HD + CARBON
SUPPORT	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
SPRING	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

RIDART s.r.l. via Adua, 17 - 21045 Gazzada Schianno (VA) ITALY P.IVA/C.F. IT 01454770122
www.ridart.it info@ridart.it +39 0332 463301

FUTURES

- Gravity or pumped filling*
- Remote or direct filling*
- Two stage positive shut off
- No risk of fire or fuel leaking
- No need to dismantle the manhole
- Easy installation with drop and riser pipe (delivered on request)

* FACTORY TESTED

IDENTIFICATION PLATE

- Fix identification plate next to unloading plant

INSTALLATION

- Protection System is unidirectional and only for vertical installation.
- For correct installation follow the Directives and product User Manual.
- For custom application or maintenance write to: quality@ridart.it.
- Declaration of Conformity and User Manuals are available on:
  www.ridart.it/support.

Before proceeding with installation be sure that valve model is in compliance with local/national laws which regulate this specific device in relation to tank capacity requirements, normally 90%.
The valve can be installed under the manhole lid of the tank in an existent 4" riser pipe, there is no need to remove the manlid. The valve can be pre-assembled in factory with aluminum drop tube, normally 150cm long, and/or riser pipe of the length according to the customer request. For detailed installation procedure consult our user manual.
In order to prevent product spillage from the storage tank, forecourt workers must be trained and managed to inspect the loading adaptors and hoses for damaged or missing components. When loading equipment is not properly maintained or connections between adaptors and elbows or drain hose are not correctly performed fuel spills may result causing environmental contamination and explosion risk.

MAINTENANCE

- Periodically check the device is necessary to remove possible dirty.
- The overfill prevention valve must be properly stored, handled and kept in good condition to prevent the entry of particles or the deposit of dust in the moving parts
- Any maintenance activities must be carried out solely by specialized staff and according to the procedures defined by the general instruction manual and only with tools in conformity with the provisions of Appendix A of the EN 1127-1 or by ensuring the absence of an explosive atmosphere
- In case of tampering warranty expires and safety protection is not guaranteed.

442—80 SS

YOU MAY ALSO BE INTERESTED IN:

ODE	DESCRIPTION	
442B-80 AL	Overfill prevention valve 3" Mod. 442B	
442B-100 AL	Overfill prevention valve 4" Mod. 442B	
446-80 AL	Overfill prevention valve 3" Mod. 446	
442S-80 AL	Overfill prevention valve Short 3" Mod. 442S	
4420R-80 AL	Overfill prevention valve horizontal 3" Mod. 4420R	

To choose the correct overfilling valve, scan QRcode and fill in the form:

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