442B
OVERFILL PREVENTION VALVE

II 1G Ex h IIB T6 Ga

The Overfill Prevention Valve Ridart 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.

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.

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 3" model valve.
- Max operational pressure 6 bar for pressure filling 4" model valve.
- Loading process needs operator supervisor.

Chemical Suitability

- Aluminium standard model is for traditional fuel without additives.
- PTFE" coated model is for special fuel, non-aggresive solvents or chemical products.

Features

- Gravity or pumped filling
- Two levels of closure
- Remote or direct filling
- No risk of fire or fuel leaking
- Easy installation with drop and riser pipe (delivered on request)

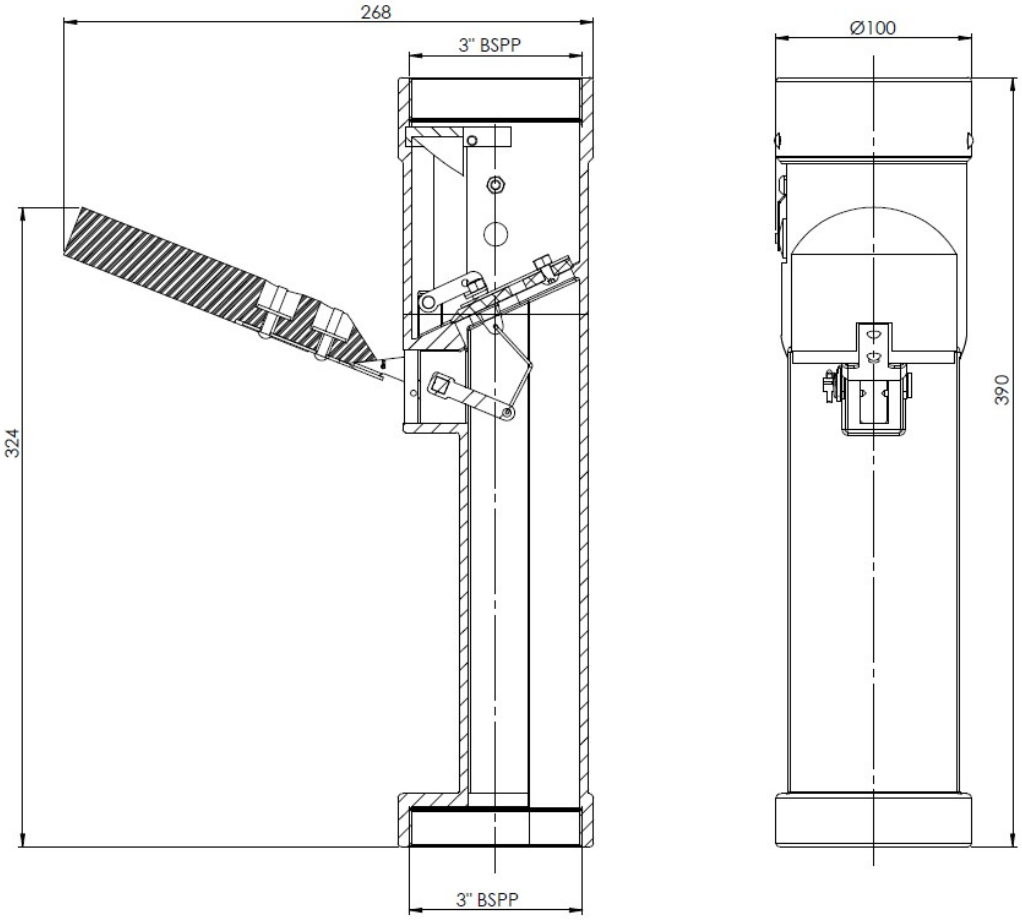
Specification

PRODUCT	442B 3”	442B 4”	442B 4”
CODE	442B-80 AL	442B-100 AL	442B-100 PTFE
INSTALLATION	VERTICAL	VERTICAL	VERTICAL
THREAD UP	3”F BSPP	4”F BSPP	4”F BSPP
THREAD DOWN	3”F BSPP	4”F BSPP	4”F BSPP
HEIGHT BODY	390 mm	453 mm	453 mm
TYPE OF FILLING	GRAVITY or PUMP	GRAVITY or PUMP	GRAVITY or PUMP
INITIAL CLOSURE LEVEL*	250 mm	250 mm	250 mm
FINAL CLOSURE LEVEL*	135 mm	145 mm	145 mm
MIN FLOW l/min (230 mbar)	60 Required by standard	90 Required by standard	90 Required by standard
MAX FLOW l/min	(8 bar) 900 l/min Required by standard	(6 bar) 1400 l/min Required by standard	(6 bar) 1400 l/min Required by standard
BODY	ALUMINIUM	ALUMINIUM	AL+PTFE COATED
SCREWS	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
POPPET	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
SEALS	PTFE + CARBON	PTFE + CARBON	PTFE + CARBON
FLOAT	PU + Aluminium Sputtering	PU + Aluminium Sputtering	PU + Aluminium Sputtering
SUPPORT	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
SPRING	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

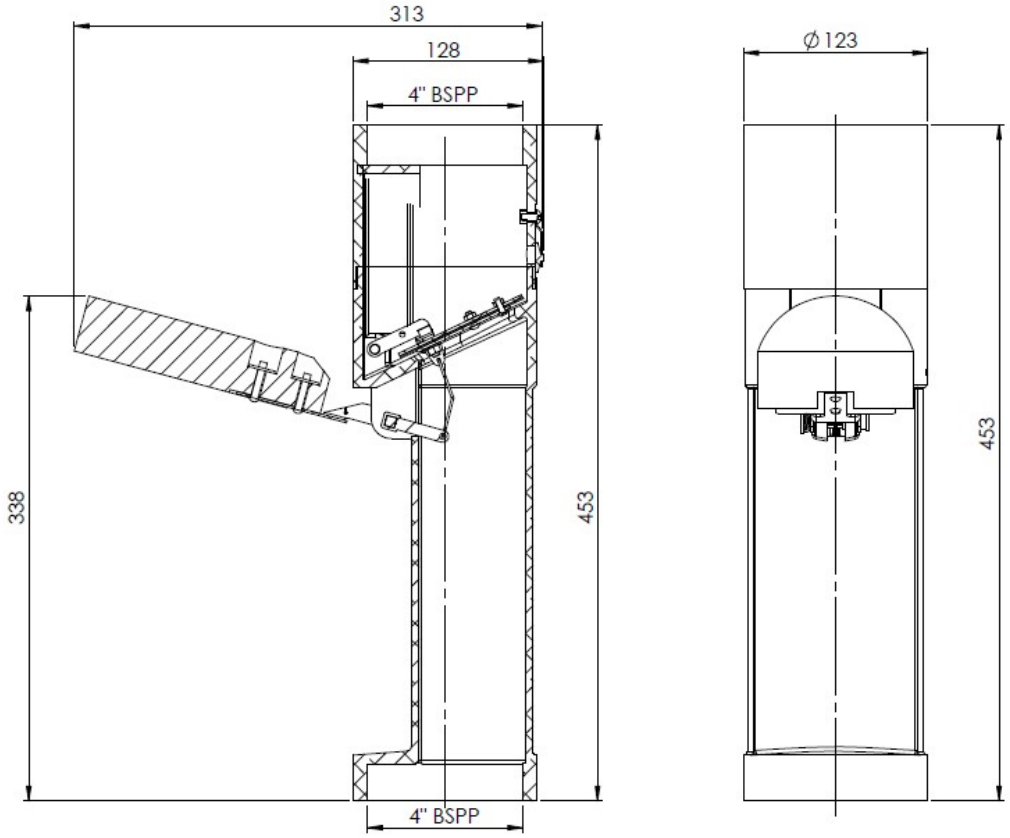
Identification Plate

- Fix identification plate next to unloading plant

Dimensions: 3” Code 442B-80 AL



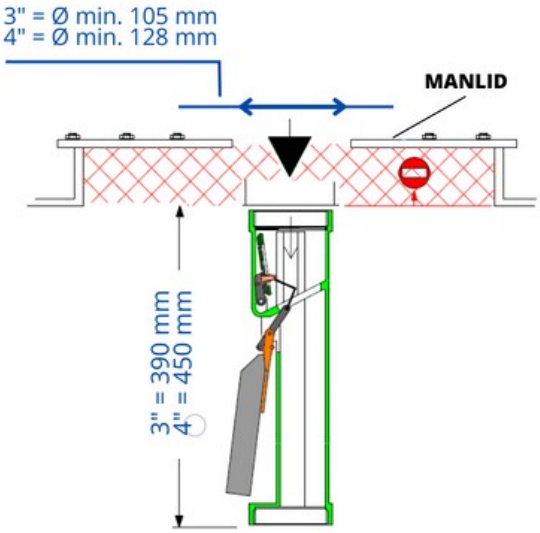
Dimensions: 4” Code 442B-100 AL

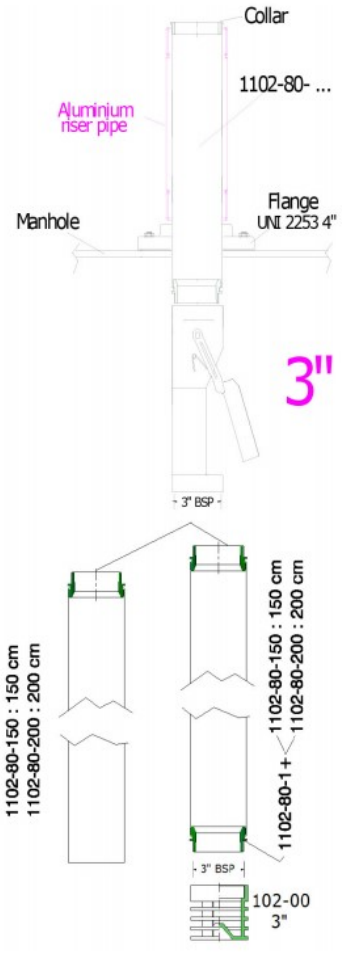


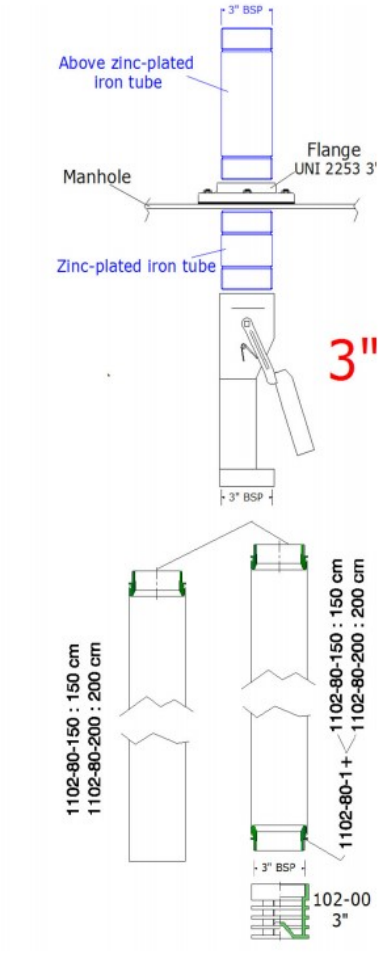
Installation Schema

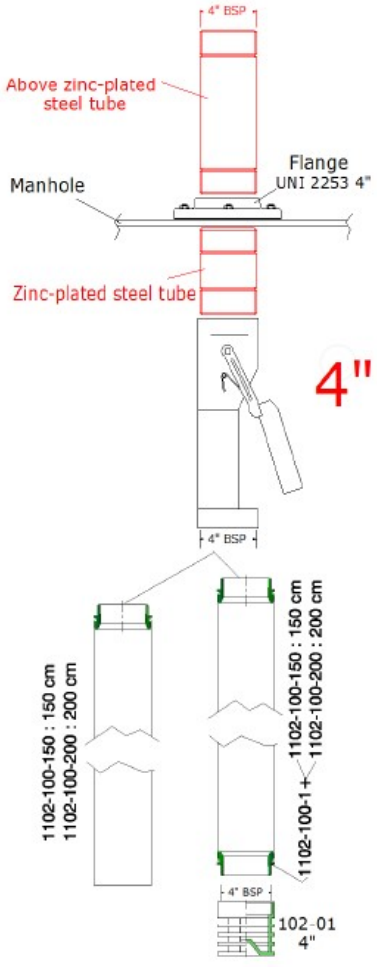
INSTALLATION AREA NOT RECOMMENDED

DANGER OF REACHING LEVEL 2



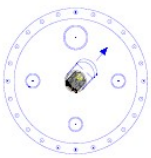






ORIENTATE DEVICE SO THAT THE FLOAT DOES NOT INTERFERE WITH OTHERS INTERNAL PIPES

DANGER OF REACHING L2



CORRECT POSITIONS

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 150 cm 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.

Scan the QR code
and select the appropriate
Overfill Prevention Valve

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