

FORECOURT PRODUCT BROCHURE 2017





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RIS-SHEAR Vapour Shear Valves

Specifications:

Operating pressures:

-5 mbar - +35 mbar

Operating flow range: 0 l/m - 150 l/m

Isolator valve opens: 20 mbar

Break forces: *

Tensile - 3920 N (400 kgF) Shear - 3920 N (400 kgF) Bending moment - 50 Nm

* If upper and lower halves are rigidly mounted



RIS-SHEAR-G2 shown

Prevents leakage of saturated vapour onto the forecourt at low level if the dispenser is knocked over or impacted. Also prevents vapour from tank farm returning to forecourt. The integral isolator valve allows maintenance staff to safely replace the main valve once it is damaged.

- Full flow low pressure drop design, normally open
- · Avoids partial break interference and leak condition with dual opposed piston design
- Seals upstream and downstream on impact
- · Cylindrical body fits through and allows sealing with standard membrane seals
- SIRA Certification: II 1/2 G SIRA 06ATEX9258U
- Includes brackets, bolts, isolator valve and instructions
- 3920 N (400 kgF) break force
- Patented design (UK: GB2342709, US: 6,802,332, EU: EP1,222,423,B1)

Materials:

Brass
Anodised Aluminium
Viton A (FKM)
Delrin (polyacetal)
Stainless Steel

Suitable for:

Petroleum Spirit Diesel

Document Ref: DATA-RIS-SHEAR-G2-121219

Related Documents:

INS-RIS-SHEAR-G2



RIS-SHEAR-ADBLUE-MK2 Shear Valve

Quality Engineering Solutions UPGRADED

Specifications:

Max Operating Pressure: +10.0 bar Operating Flow Range: 0 I/min to 50 I/min Internal Non Return Valve: Opens at 20 mbar Break Forces: Note requires both halves to be

rigidly mounted Tensile: 22.5 kN Shear: 14.7 kN

Bending Moment: 415 Nm

Operating Temperature Range: -20 deg C to

+40 deg C

Fluid Contact Material: All stainless steel



Optional Under Pump Valve for quick and easy access to isolate or test the line (shown below):

- **RIS-UPV-TEST-SS** Stainless Steel Under Pump Valve.
- **TF10MSS** 1" Stainless Steel Under Pump Valve Flange.



RIS-SHEAR-ADBLUE valves prevent leakage of Adblue product onto the forecourt when the dispenser is knocked over or impacted. The INTEGRAL one-way valve helps retain line prime. OPTIONAL Under Pump Valves allows isolation and line testing.

- Full flow low pressure drop design
- Design allows full shut-off with minimal bending or shear movement
- Seals upstream and downstream on impact
- Tested shut-off activation force = 415 Nm bending moment
- Cylindrical body fits through and allows sealing with standard membrane seals
- Includes brackets, bolts and instructions
- OPTIONAL stainless steel under pump valve, for quick and easy isolation/line testing above and below the shear valve.

Materials:

Viton A (FKM) Stainless Steel Anodised Aluminium Clamps

Suitable for:

Adblue product lines

Fittings:

Male 1" BSP(T) / Female 1" BSP(P) dependent on model

Document Ref:

DATA-RIS-SHEAR-ADBLUE-MK2-161101

Related Documents

MAINT-RIS-SHEAR-ADBLUE

Patented design (UK:GB2342709, US: 6,802,332, EU: EP1,222,423,B1)



Quality Engineering Solutions

Specifications:

Max pressure: +25 Bar

Operating flow range: 0 l/m - 40 l/m

One-way valve: Opens at 20 mbar

Break forces: *

Bending Moment - 420 Nm
* If upper and lower halves
rigidly mounted

Operating temperature range:

-20 to +40° C



RIS-SHEAR-LPG1 with 1"NPT M X F end fittings RIS-SHEAR-LPG075 with 3/4" end fittings

RIS-SHEAR-LPG1 shear valves prevent leakage of pressurised product onto the forecourt when the dispenser is knocked over or impacted.

- Full flow low pressure drop design
- Avoids partial break interference and leak condition with displaced ball design
- Seals upstream and downstream on impact
- Consistent 420 Nm bending moment break
- 25 Bar pressure rating with 12:1 Safety factor
- Includes brackets, bolts and instructions
- Non-spark brass construction, nitrile seals
- Optional end fittings and mounting kits available including isolator valves

SIRA Certified to ATEX and EN 14678-1 II 2 G

Patented design (UK: GB2342709, US: 6,802,332, EU: EP1,222,423,B1)

Materials:

Nitrile
Stainless Steel
Anodised aluminium clamps
Brass

Suitable for:

Liquid Petroleum Gas product lines (LPG, GPL, LP Gas, Autogas)

Fittings:

I" NPT female / maleI" BSP female / male

Document Ref:

DATA-RIS-SHEAR-LPG1-160811

Installation Instructions

INS-RIS-SHEAR-LPG



2" Anti-Syphon Valve

NEW PRODUCT

An innovative and very cost effective new 2" Anti-Syphon Valve brings better flow and performance to above ground storage tank applications.

- High flow rate up to 180 litres/minute
- Suitable for head pressures of 6.5m (0.6 bar)
- Can be adapted to 1.5 inch pipework
- 2 inch pecat 4 bolt flange allows for easy fitting
- Includes stainless steel inlet screen
- Installed at base of tank or dispenser in place of elbow fittings
- Hydraulic valve damper and progressive flow opening minimise 'hunting'



The Risbridger Anti-Syphon Valve meets the requirements of standard and high-flow fuel dispensers connected to above ground storage tanks with 50mm (2 inch) pipework.

Providing anti-syphon protection, the valve is capable of flow rates of up to 180 litres per minute. The diaphragm servo assisted operating method allows high flow and low vacuum pressure loading of the dispenser pump - unlike spring resistance type designs.

Hydraulic valve damper and progressive flow opening minimise 'hunting' flow modulation problems over a wide flow and head pressure range.

Patent applied for: 1606281.2

Materials:

Anodised aluminium Viton Stainless steel Delrin

Suitable for:

Petrol
Diesel
(including bio-fuel blends)

Head pressures up to 6.5m (0.6 bar)

Document Ref:

DATA-RIS-ASV-160608

Related Documents

INS-RIS-ASV



RIS-FLANGE2 - Shut Off Test Modules

Quality Engineering Solutions



RIS-FLANGE2-SO-SUCTION-R2-MK2 2" female threaded base module for use on threaded tank lid ports.

RIS-FLANGE2-SO-VENT-R2-MK2 2" female threaded base module for use on threaded tank lid ports.











AVAILABLE CONFIGURATIONS: RIS-FLANGE2-SO-SUCTION-15

1.5" female threaded base and outlet for use on threaded tank lid ports. Includes threaded outlet flange.

Also available with 2" base and outlet: RIS-FLANGE2-SO-SUCTION-20

RIS-FLANGE2-SO-VENT-15

1.5" female threaded base and outlet for use on threaded tank lid ports. Includes threaded outlet flange.

Also available with 2" base and outlet: RIS-FLANGE2-SO-VENT-20

These are part of the RIS-FLANGE Tanklid System. This a comprehensive series of products to populate either suction or pressure system tank lids with high quality, efficient fittings that are easy to install, maintain and test. This system also allows simple disassembly and reconfiguration of layout on tank lids using only hand tools.

- Lower installation costs can be fitted to tanks in the factory or on site
- Easy to fit to the tank lid, allows 360° rotation of modules to align with pipework entry
- Available with 'Shut-Off' test fitting capability or plain 'elbow' style
- Suitable for use with Bio-Fuel blends up to 90%
- Eliminates leak paths with blind hole tappings on lid
- Compatible with all pipe work brands
- Flexible connectors available: makes fitting easy and remove stress from pipe work

Materials:

Anodised Aluminium Viton A (FKM) Delrin (Polyacetal) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel/FAME Blends

Document Ref:

DATA-RIS-FLANGE2-SO-MODULES-150218

Installation Instructions **INS-RIS-FLANGE2-SUCTION**

Maintenance/Servicing

Instructions

MAINT-RIS-FLANGE2-SUCTION





Quality Engineering Solutions



RIS-FLANGE2-SUCTION-MK2-LT 2" non shut-off suction module without suction tube.

RIS-FLANGE2-SO-SUCTION-MK2Complete module with suction tube and flip over test feature.



RIS-FLANGE2-SO-SUCTION-R2-MK2

Module for use on threaded tank lid ports.

AVAILABLE CONFIGURATIONS:

Inlet Flange:

PECAT fittings to suit all pipework systems.

Base Flange:

Swivel RIS-FLANGE base to allow alignment - fits to 2" flange port on RIS-FLANGE lids (or to 4" port with use of 4 to 2 adaptor plates.

Also available:

RIS-FLANGE2-SO-SUCTION-MK2-LT 2" shut-off suction module without suction tube.



Flexible connectors available.

Part of the RIS-FLANGE Tanklid System, a comprehensive series of products to populate either suction or pressure system tank lids with high quality, efficient fittings that are easy to install, maintain and test. This system also allows simple disassembly and reconfiguration of layout on tank lids using only hand tools.

- Lower installation costs can be fitted to tanks in the factory or on site.
- Easy to fit to the tank lid, allows 360° rotation of modules to align with pipework entry.
- Available with 'shut-off' test fitting capability or plain 'elbow' style.
- Suitable for use with Bio-Fuel blends up to 90%.
- Eliminates leak paths with blind hole tappings on lid.
- · Compatible with all pipework brands.
- Video of system available from our website.
- Flexible connectors available which make fitting and servicing easier and remove stress from pipework.

Materials:

Anodised Aluminium Viton A (FKM) Delrin (Polyacetal) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel/FAME Blends

Document Ref:

DATA-RIS-FLANGE2-SUCTION-160118

Installation Instructions

INS-RIS-FLANGE2-SUCTION

Maintenance/Servicing Instructions

MAINT-RIS-FLANGE2-SUCTION

RIS-FLANGE - 4 inch Fill Tees

Quality Engineering Solutions

Specifications:

Outlet Flange:

PCat fittings to suit all pipework systems.

Base Flange:

4 inch flanged base to suit RIS-FLANGE tanklids flanged ports



RIS-FLANGE4-TEE-MK2 Flanged base to suit RIS-FLANGE Tanklids, and flanged inlet face

RIS-FLANGE4-TEE-R2-MK2 Threaded base to suit traditional tank lids, and Flanged inlet face.

Line Testing bung available for both models

Part of the RIS-FLANGE Range of Products, a comprehensive series of products to populate either Suction or Pressure system tank lids with high quality, efficient fittings that are easy to install, maintain and test. This system also allows simple dis-assembly and reconfiguration of layout on tanklids using only hand tools.

- High Quality machined bodies, ensure sealing and concentric base and top access.
- Lower installation costs can be fitted to tanks in the factory or on site.
- Easy to fit to the tank lid, leak free fit to pipework.
- Suitable for use with Bio-Fuel blends up to 90%.
- Flange fitting on inlet (side) port minimises leak paths.
- Assembly includes gasket bolts and integral cage to secure drop tube and OPD.
- Compatible with all pipe-work brands.
- Flexible connectors available: make fitting/servicing easier, removing stress from pipework.

Materials:

Anodised Aluminium Viton A (FKM) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends

Document Ref:

DATA-RIS-FLANGE4-TEE-MK2-150909

Related Documents

INS-RIS-FLANGE4-TEE



FLANGED 1.5" and 2" ACV's

Available Configurations:

RIS-FLANGE2-15ACV 1.5" inlet and outlet

RIS-FLANGE2-20ACV 2" inlet and outlet

ITEMS relating to this Product:

SERVICE KITS SPRINGS



RIS-FLANGE2-20ACV

These valves are fitted in the suction line between the storage tank and dispenser, to prevent drainage and loss of suction. Easily maintained via screwed cap, and to install springs to gain head ratings for above ground tanks.

- Angled suction line check valves
- Available in 1.5"BSPT (f) RIS-FLANGE2-15ACV and 2" BSPT (f) RIS-FLANGE2-20ACV
- · Can be fitted with springs to provide head ratings for above ground tanks
- Spring available: 3psi / 4psi / 5 psi / 7.5 psi / 11 psi (allow 1psi per 2 feet of head)
- Service kits available
- All fully leak tested before despatch

Materials:

BODY: Anodised aluminium CAP: Anodised aluminium POPPET: Stainless steel POPPET SEAL: Viton CAP SEAL: Viton O ring

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends In UK:

In UK:
Not for use on Retail UST tanks

Document Ref:

DATA-RIS-FLANGE2-ACV-121113

Weights:

15ACV = 1.36kg 20AC = 1.21kg

RIS-FLANGE4-SP-RISER Sub-pump Riser

Quality Engineering Solutions

Specifications:

Overall Height: 360mm Internal Bore: 4"

Top thread: 4" NPT Rotatable Flange

Plate: 4"

Includes:

Riser, flange plate, flange gasket and bolts and spring washers



Sub-pump shown fitted to Riser and with outlet kit and drain kit (connecting hose not shown

Part of the RIS-FLANGE Tanklid System, a comprehensive series of products allowing easy configuration of Pressure (Submersible Pump) system tank lids with high quality, efficient fittings that are easy to install, maintain and test. This system also allows simple dis-assembly and reconfiguration of layout on tanklids using only hand tools.

- Accessory to allow easy fitment of sub-pumps to the tank lid
- Allows 360 degree rotation of modules, aids alignment of bulky sub-pumps
- Suitable for use with Bio-Fuel Blends up to 90%
- Can be fitted to Tanks in the factory or on site
- Flange fitting reduces threaded joints
- · Video of full pressure system available from our Website

Materials:

Anodised Aluminium
Zinc passivated mild steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

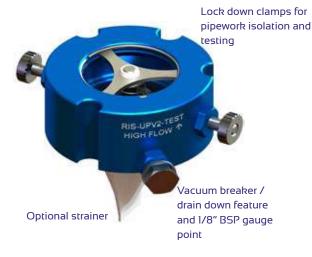
DATA-RIS-FLANGE4-SP-RISER-121213

Installation instructions:

INS-RIS-FLANGE4-SP-RISER

High Flow Testable Under Pump Valve

Quality Engineering Solutions

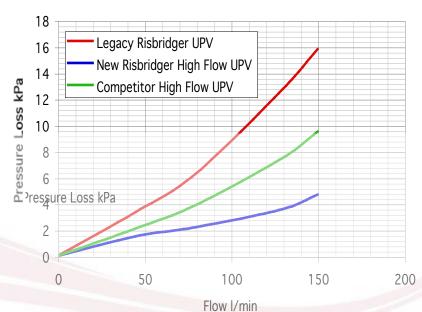


H



fits to oval two bolt flange or triangular three bolt flange

Pressure Loss (kPa) against Flow (I/min)



Comparison chart of our new High Flow Under Pump Valve against our old model and a competitors High Flow model.

RIS-UPV2-TEST-HF Dimensions:

76mm diameter, 36mm thick.

Fits both 'Oval' 2 bolt flanges AND 'Triangular' 3 bolt flanges.

Operating flow range: 0 l/m - 130 l/m

Operating Temperature:

- 20 to +90 C

High flow, low pressure drop, valve allowing flexible fitting arrangements, suitable for fitting to both 2 bolt and 3 bolt flanges:

- High flow capacity: 130 I/m
- Includes vacuum breaker, drain down feature and 1/8" BSP guage point
- Testable includes above features AND poppet lock down clamps
- · Allows isolation and testing of pipework without disassembly of suction lines
- · Compatible with all pipe-work brands
- Flexible connectors available: make fitting/servicing easier, removes pipework stress

Materials:

Anodised aluminium Viton A (FKM) Delrin Stainless Steel

Suitable for:

Diesel BioDiesel Petroleum Spirit Ethanol Blended Petroleum

Document Ref:

DATA-RIS-UPV2-TEST-HF-121129

Installation Instructions
DOC.RIS_UPV_TEST.002.pdf
Maintenance Instructions
MAINT-RIS-UPV



INNOVENT Rain Proof Vent Caps

NEW PRODUCT

Completely rain proof, these vent caps are part of the INNOVENT range of venting products, which aim to prevent water contamination in tanks, and make it easy to test and maintain crucial venting systems.



AVAILABLE CONFIGURATIONS

INNOVENT-2-CAP-FA
Petrol vent cap with integral flame arrestor

INNOVENT-2-CAP
Diesel vent cap (no gauze)

During our tests we found it impossible to get water into the vent caps. The petrol model with integral flame arrestor, is fully tested and certified to ATEX and EN ISO 16852:2010.

- · High Quality machined aluminium bodies, stainless steel flame arrestor element
- Petrol version with flame arrestor to ATEX and EN ISO 16852:2010
- INNOVENT-2-CAP-FA Suitable for use with Bio-Fuel blends up to 90%
- 2" BSP female fitting to attach to vent pipe can be used with 2" 3" adaptor

Patent applied for: GB 1505584.1, PCT/GB2016/150913 Certified: ISO 16852 CML 16ATEX6163X

Materials:

Anodised aluminium Viton Stainless steel fasteners Stainless steel flame arrestor

Suitable for:

INNOVENT-2-CAP-FA Petroleum INNOVENT-2-CAP Diesel and heating oils

Document Ref:

DATA-INNOVENT-2-CAP&CAP-FA-161025

Related Documents
INS-INNOVENT-2-CAP-FA





Quality Engineering Solutions

Specifications:

Relief Settings:

8oz per square inch (+35mbar) 0.5 oz per square inch (-2mbar)

Pressure Flow rate: 0-5000l/min

Vacuum flow rate: 0-1500 I/

minute

N.B: Must not be used where there is a risk of stabilised burning or where subject to possible impact damage



RIS-VENT2 Plain screw on version



RIS-VENT2QR

RIS-VENT3QR

RIS-VENT2QR-OV

Quick Release Versions Available

A high quality Pressure Vacuum Vent valve for Stage IB and Stage II Vapour Recovery Sites

- Dead weight poppet provides accurate relief characteristics, retains calibration
- Linear Teflon coated bearing design
- Minimal contact area for low breakout force in sub-zero temperatures
- Drained seat detail prevents ice build up
- · Reliable vacuum valve proven design and materials
- Delrin TM (polyacetal) poppet seat for best sealing, fuel compatibility and service life
- Environmentally friendly upward discharge of vapour and minimal operating noise
- · Heavy duty construction with anodised finish for long life in extreme environments
- Double layer gauze, seated in groove
- ATEX approved, certificate number SIRA 06ATEX9193X EN16852:2010 /EN13463-1:2009
- 100% tested in Factory. Manufactured in compliance with Article 8 of 94/9/EC

Materials:

Anodised Aluminium Viton A (FKM) Delrin (polyacetal) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-RIS-VENT-130111
Installation Instructions
INS-RIS-VENT
Maintenance Instructions
MAINT-RIS-VENT

Service Kits available



Specifications:

Relief Settings:

Pressure 1 kPa (10 mbar) Vacuum -2 kPa (-20 mbar)

Pressure Flow rate: 0-5000 I/minute

Vacuum flow rate: 0-1500 I/minute

N.B: Must not be used where there is a risk of stabilised burning or where subject to possible impact damage









RIS-VENT3QR-OV-10 this version has a 10mm orifice in the pressure poppet

A high quality Pressure Vacuum Vent valve for Stage IB and Stage II Vapour Recovery Sites

- Dead weight poppet provides accurate relief characteristics, retains calibration
- Linear Teflon coated bearing design
- Minimal contact area for low breakout force in sub-zero temperatures
- Drained seat detail prevents ice build up
- · Reliable vacuum valve proven design and materials
- Delrin TM (polyacetal) poppet seat for best sealing, fuel compatibility and service life
- Environmentally friendly upward discharge of vapour and minimal operating noise
- · Heavy duty construction with anodised finish for long life in extreme environments
- Double layer gauze, seated in groove
- ATEX approved, certificate number SIRA 06ATEX9193X EN16852:2010 /EN13463-1:2009
- 100% tested in Factory. Manufactured in compliance with Article 8 of 94/9/EC

Materials:

Anodised Aluminium Viton A (FKM) Delrin (polyacetal) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-RIS-VENT-AU-140515
Installation Instructions
INS-RIS-VENT
Maintenance Instructions
MAINT-RIS-VENT

Service Kits available



Quality Engineering Solutions

AVAILABLE CONFIGURATIONS:

Ultra compact Vapour Recovery Adaptor, with retaining chain, cap retaining clip, captive flat Viton A seal and tamper proof operating key.

Overall height 173mm

The smallest combined VR Adaptor and Flame Arrestor available



RIS-FLOW-3-FA-MK2 with optional cap

Retain vapour in your tanks, and protect the site vapour connection point with our new low profile Vapour Adaptor, Flame Arrestor and Cap to promote retention of vapour and prevent dangerous vapour around VR connection points. Securely attached high quality flat Viton A seal allows perfect sealing without risk of losing seal.

- Simple cam locking mechanism with tamperproof access key
- Save cost on lost caps features integral chain and clip
- Extremely low profile adaptor, flame arrestor and cap, overall height 173mm.
- No padlock to seize up
- Integral EN ISO 16852 Flame Arrestor
- Cap includes a captive Viton A flat seal for perfect sealing
- 3" BSP(P) threaded fitting with leather seal

Materials:

Aluminium
Viton A (FKM)
316 Stainless Steel
Low friction coating on valve

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends

Document Ref:

DATA-RIS-FLOW-3-FA-MK2-140730

Installation Instructions INS-RIS-FLOW-3-FA-MK2

Maintenance / Servicing Instructions MAINT-RIS-FLOW-3-FA-MK2



RIS-STOP 4" (gravity) OPD

Quality Engineering Solutions

This product family is part of the RIS-FLANGE tanklid fittings range, designed to make Forecourts easier and quicker to install, as well as improving standards, decreasing the probability of leaks, and making testing and maintenance easy and safe.

RIS-STOP-3GF-F223 Full 4" bore drop tube

IMPORTANT NOTE:

The RIS-STOP family of valves are not suitable alternatives for true "shut off valves" and must not be used in continuously pressurised systems.

For more information on available configurations please ask to see our Part Number Matrix.

The only fail-safe, normally closed and testable mechanical valve available. This valve is part of our RIS-STOP range of above and below ground tank overfill prevention valves.

- · Lower installation costs, can be assembled into tanks at factory
- Reduce vapour growth, fuel aeration and turbulence with optional Diffuser and Air Transfer Valve
- Normally closed valve, suitable for gravity fill installations
- The ONLY fail-safe mechanical valve available the ONLY in-situ testable valve available
- High gravity flow rates up to 1025 litres per minute
- The ONLY valve operating effectively at very low flow rates (10 litres / minute)
- Normal operating pressure: 0.3 Bar. Flow operating range: 10 1025 litres / minute)
- Operating temperature range: -25°C to +60°C
- SIRA certification: ATEX / SIRA 08ATEX9345 TYPE A1 EN13616:2004
- Manufactured in compliance with Article 8 of Directive 94/9/EC

Materials:

Anodised Aluminium Viton A (FKM) Delrin (polyacetal) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-RIS-STOP-3GF-160905

Maintenance Instructions

MAINT-RIS-STOP-GF
Installation Instructions

INS-FLOAT-KIT
and INS-RIS-STOP-3GF

RIS-STOP-3P (pressure) OPD

Quality Engineering Solutions

This product is part of the RIS-FLANGE Tanklid fittings range, designed to make Forecourts easier and quicker to install, as well as improving standards, decreasing the probability of leaks, and making testing and maintenance easy and safe.

Suitable for:

Pressure Fill

Effective at low flow rates Flow operating range: 10 - 1500 Litres/ minute Normal operating pressure: +4 Bar (Tested to 8 Bar)

IMPORTANT NOTE:

The RIS-STOP family of valves are not suitable alternatives for true "Shut off valves" and must not be used in continuously pressurised systems.

For more information on available configurations please ask to see our Part Number Matrix.



The only fail-safe, normally closed and testable mechanical valve available. This valve is part of our RIS-STOP range of above and below ground tank overfill prevention valves.

- Lower installation costs, can be assembled into tanks at factory
- Reduce vapour growth with optional Diffuser and Air Transfer Valve
- Normally closed valve, suitable for pressure fill installations
- The ONLY fail-safe mechanical valve available the ONLY testable valve available
- High flow rates up to 1500 litres per minute
- The ONLY valve operating effectively at low flow rates (10 litres / minute)
- Operating pressure range: 0.15 5 Bar, Flow operating range 10 1500 litres / minute)
- Operating temperature range: -25° C to +60° C
- SIRA certification: ATEX / SIRA 07ATEX9165 TYPE A2. EN13616:2004. EN13463-1:2001.
- Manufactured in compliance with Article 8 of Directive 94/9/EC

Materials:

Anodised Aluminium Viton A (FKM) Delrin (polyacetal) Stainless Steel HDPE Closed cell foam

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-RIS-STOP-3P-160308

Maintenance Instructions

MAINT-RIS-STOP-3P

Installation Instructions

INS-FLOAT-KIT
and INS-RIS-STOP-3P



quality Engineering Solutions

Specifications:

Flow Rates:

10-1500 litres per minute (pressure fill)

Pressure range:

Effective at up to 8 bar maximum Normal operating pressure 4 bar **Fluid Viscosity:**

Effective with fuel / oil viscosity of ASE10 or lower



Available in threaded or flange fit options, the flange fit version is with a 4" Pcat flange

IMPORTANT NOTE:

The RIS-STOP family of valves are not suitable alternatives for true "Shut off valves" and must not be used in continuously pressurised systems.

Suitable for above ground commercial diesel pressure delivery storage installations.

Incorporates many proven RIS-STOP features and includes a compact 4-bolt flanged inlet on the body allowing greater maximum tank fluid levels.

- Cartridge construction for easy installation and access via the 3" tank lid flange supplied
- High flow capacity
- Effective at low flow rates (10-600 l/m) Pressure delivery up to 8 bar maximum
- On-site inspection and testing via access cap without pipework dis-assembly
- No dynamic seals promoting long service life
- Acts as anti-syphon valve in normally closed position
- Suitable for fuels of SAE10 or lower (other models available for higher viscosity)
- Compatible with all pipe-work brands
- Flexible connectors available: make fitting/servicing easier, remove stress from pipework

Materials:

Anodised Aluminium Viton A (FKM) Delrin (polyacetal) Stainless Steel HDPE closed cell foam

Suitable for:

Diesel BioDiesel / FAME Blends

Document Ref:

DATA-RIS-STOP-3SF-160308 Installation Instructions INS-RIS-STOP-3SF



Quality Engineering Solutions

Specifications:

Flow Rates:

10 - 600 litres per minute

Pressure range:

Effective at up to 8 bar

maximum

Fluid Viscosity:

Effective with fuel / oil viscosity of ASE10 or lower for



The RIS-STOP family of valves are not suitable alternatives for true "Shut off valves" and must not be used in continuously pressurised systems.



Suitable for above ground commercial diesel storage installations, and pressure deliveries. It incorporates many proven RIS-STOP features and now includes a more compact 4-bolt flanged inlet on the body allowing greater maximum tank fluid levels.

- Cartridge construction for easy installation and access via the 2" tank lid socket supplied
- Very high flow capacity (50% greater than some competitive products)
- Effective at low flow rates (10-600 I/m) Pressure delivery up to 8 bar maximum
- Two-stage shut off giving warning of complete closure over last 15mm of level change
- On-site inspection and testing via access cap without pipework dis-assembly
- No dynamic seals promoting long service life
- Acts as anti-syphon valve in normally closed position
- Suitable for fuels of SAE10 or lower (other models available for higher viscosity)
- Compatible with all pipe-work brands
- Flexible connectors available: make fitting/servicing easier, remove stress from pipework

Materials:

Anodised Aluminium Viton A (FKM) Stainless Steel HDPE closed cell foam

Suitable for:

Diesel BioDiesel / FAME Blends

Document Ref:

DATA-RIS-STOP-2SF-R-160308
Installation Instructions
INS-RIS-STOP-2SF-R
Maintenance / Servicing Instructions
MAINT-RIS-STOP-2SF-R

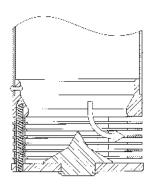


Calm Fuel Deliveries

Quality Engineering Solutions



RIS-DIFFUSER-4



Diffuser cross-section showing laminar flow



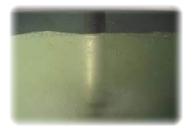
Air Transfer Valve



With a plain drop tube



With a diffuser



With a Diffuser and ATV

Function - provides horizontal laminar flow of fuel as it is discharged through the drop tube, when used in conjunction with an Air Transfer Valve exceptional reduction of disturbance and vapour growth can be achieved.

- Reduces turbulence, aeration and waves in fuel in storage tanks
- Reduces vapour creation
- Reduces fuel contamination by directing flow away from debris on tank bottom
- Assembles to standard drop tube with rivets, installation template supplied
- Unrestricted flow path through vane stack
- When used with an Air Transfer Valve (ATV) substantial vapour savings can be achieved

Materials:

Anodised Aluminium Stainless Steel Brass

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-CALM-FUEL-DELIVERIES-140901

Installation Instructions:

INS-RIS-DIFFUSER-3
INS-RIS-DIFFUSER-4

RIS-DIFFUSER 4" and 3"

Quality Engineering Solutions







RIS-DIFFUSER-3

RIS-DIFFUSER-4

Related Product:

DATA-SUCTION-DEFLECTOR-4171
Suction plate deflector shown included in a modular suction assembly (above left) and unassembled (above right)

AVAILABLE CONFIGURATIONS

RIS-DIFFUSER-3 - For 3" Aluminium drop tubes RIS-DIFFUSER-4 - For 4" Aluminium drop tubes

DIMENSIONS

RIS-DIFFUSER-3: 75mm (h) x 82.5mm (w) RIS-DIFFUSER-4: 92mm (h) x 94.6mm (w)

Designed to prevent debris from being disturbed in the storage tank, and then being dispensed to vehicles on the forecourt. The Diffuser and Air Transfer Valve when used together produce calmer tank contents, less aeration and turbulence: Calmer deliveries - less vapour growth and foaming

- Reduce the amount of debris stirred up during deliveries
- Reduce the changing or cleaning of dispenser and check valve filters
- For best results use with Air Transfer Valve (RIS-ATV) and SUCTION DEFLECTOR
- RIS-DIFFUSER and Air Transfer Valve (RIS-ATV) prevent aeration and vapour growth

Materials:

Anodised Aluminium Stainless Steel Brass

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-RIS-DIFFUSER-140520

Installation Instructions:

INS-RIS-DIFFUSER-3
INS-RIS-DIFFUSER-4

RIS-ATV Air Transfer Valve

Quality Engineering Solutions

The Air Transfer valve allows the slug of air trapped in the fill line between the delivery tanker and submerged drop tube exit to escape into the tank ullage, instead of being pressurised and forced through the stored product in the tank.



ADVANTAGES:

- Reduced creation of vapour
- Reduces turbulence of fuel in the storage tank
- Faster delivery cycle
- Reduced risk of fill line lock-ups and blow-backs
- Prevents aeration of suction lines and loss of pump prime

The Patented RIS-ATV can be easily installed on site, with new or existing removable drop tubes. RIS-ATV valves are compatible with both RIS-STOP and other makes of Overfill Prevention Devices.

Materials:

Anodised Aluminium Stainless Steel Viton

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel **Document Ref:** DATA-RIS-ATV-140812

Suction Deflector - 4171





RIS-DIFFUSER-4 fits to fill tube to calm deliveries into



Suction Deflector 4171



Shown fitted to a suction pipe

A one piece assembly fitted to the bottom of suction tubes, with stainless steel rivets, to prevent debris from being pulled from tank bottom by the suction system

This product is a standard part of the RIS-FLANGE Tanklid fittings range, and is fitted to our standard Suction Modules. Can also be retrofitted to existing suction pipes, providing access to them is available. Designed to prevent the debris on tank bottoms from being pulled directly into the suction system, so protecting dispenser pumps and ancilliary check valves etc.

- · Reduce the amount of debris pulled from the tank by the suction system
- Reduce the changing or cleaning of dispenser and check valve filters
- For best results use with RIS-DIFFUSER and Air Transfer Valve (RIS-ATV)
- RIS-DIFFUSER and Air Transfer Valve (RIS-ATV) prevent aeration and turbulence in the tank during tanker deliveries.

Materials:

Anodised Aluminium

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-SUCTION-DEFLECTOR-4171-121210



RIS-DONUT Cable Gland fitting

Quality Engineering Solutions

AVAILABLE CONFIGURATIONS:

5 port Do-nuts:

RIS-DONUT-5-20-25 Body diameter 99mm $3 \times M20 \text{ ports}$, $2 \times M25 \text{ ports}$ $5 \times M20 \text{ ports}$ (without glands)

RIS-DONUT-5-20 Body diameter 99mm (without glands)



RIS-DONUT-9-20 shown above with optional cable glands



RIS-DONUT-5-20 shown above

6 port Do-nuts:

RIS-DONUT-6-20-25 Body diameter 99mm 3 x M20 ports, 3 x M25 ports (without glands)

9 port Do-nuts:

RIS-DONUT-9-20 Body diameter 99mm 9 x M20 ports (without glands)

12 port Do-nuts

RIS-DONUT-133-12-20 Body diameter 133mm 12 x M20 ports (without glands)

Designed to prevent escape of vapour from access chambers into cable ducts, whilst making routing of cables neat and easy with the use of IP68 rated cable glands. M20/M25 threaded ports for IP rated cable glands.

- Simple to use and easy to seal cable gland 'Do-nut'
- Prevents vapour escaping into cable ducts
- 99mm diameter models available
- 133mm diameter model available with 12 x M20 ports
- Available with integral IP68 rated gland fittings on request
- To be used with proprietory cable duct seals
- Complies with Directive 94/9/EC

Materials:

Anodised aluminium

Suitable for:

IP68 rated gland fittings

Fittings:

(according to model - seeabove) M20 M25

Document Ref:

DATA-CABLE-GLAND-DONUT-140807



UPV Companion Flanges

AVAILABLE CONFIGURATIONS

1719: 'TRIANGULAR': 1.5" BSPT Female 3 x 9.5mm holes drilled on 3.0625 PCD diameter 1.5" BSPT (taper) female thread. Overall thickness - 17.5mm.

RIS-GF50: '2-BOLT': 2" BSPT Female 2 x 12mm holes drilled on 100mm centres 2" BSPT (taper) female thread. Overall thickness - 26.5mm.



RIS-GF50 2-BOLT flange shown with RIS-UPV2-HF-TEST



1719TRIANGULAR flange shown with RIS-UPV2-HF-TEST

This tri-bolt companion flange allows easy connection to the under pump valve, and suction pipe-work riser.

Used by many installers as the interface between suction pipe risers and our under dispenser check valves

- · enables easy installation
- cleaning of filters is simple
- · various kits available with gaskets and bolts please enquire
- flexible connectors available to make fitting and alignment easier and remove stress from pipework

Materials: Mild Steel **Suitable for:** Retail fuels

Document Ref:

DATA-COMPANION-FLANGES-130820

Related PRODUCTS

RIS-UPV Family of products

Risbridger RIS-PRESSURE-DIP Water finding

Quality Engineering Solutions



RIS-PRESSURE-DIP assembled with a dip-rod showing (dip-rod not supplied by Risbridger) special tamper proof key showing

RIS-PRESSURE-DIP shown with upper and lower dip tubes (not supplied by Risbridger)

Available configurations:

2" RIS-FLANGE:

Swivel base to allow easy alignment - fits to 2" flange port on RIS-FLANGE lids (or to 4" port with use of 4 to 2 Adaptor plate)

THREADED VERSION:

RIS-FLANGE threade base adaptor

Part of the RIS-FLANGE Tanklid System, or configured for standard threaded tank lids, this item is designed to allow dip testing for water contamination of tanks on Stage II Vapour Recovery sites. It is specifically designed to prevent release of high volumes of vapour to the atmosphere, by means of a liquid sealed dipping tube.

- Two level position prevents the dip rod from resting on tank floor when not in use
- Secure locking key prevents un-authorised use or access to the dip cap assembly
- Suitable for use with Bio-Fuel Blends up to 90%
- Can be fitted to any RIS-FLANGE tank lids or standard threaded lids
- Dip rod drilling jig available for installation contractors

Materials:

Anodised Aluminium Viton A (FKM) Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Bio Diesel / FAME Blends

Document Ref:

DATA-RIS-PRESSURE-DIP-150909 **Maintenance Instructions** MAINT-RIS-PRESSURE-DIP Installation Instructions **INS-PRESSURE-DIP**



RIS-RISER

Quality Engineering Solutions

RIS-RISER-3F-MK2 (shown on right)

- Flanged top, flanged bottom
- RIS-RISER height (less cap) is 500mm flange face to flange face

RIS-RISER-3F-BSP-MK2

- Flanged top, threaded bottom
- 3" BSPT threaded base, which allows fitment to traditional threaded port tank lids

RIS-RISER-3T

- Flanged top, threaded adaptor
- RIS-RISER cap assembly to fit to your own riser, with 3" BSPP female fitting

RIS-RISER-R4-3F

- Flanged top, flanged bottom, plus 4" BSPT retrofit male fitting
- RIS-RISER height (less cap) is 500mm flange face to flange face



- These units are designed to mount electric level cartridges of up to 80mm OD,
 by other manufacturers, directly to a RIS-FLANGE™ Tanklid System
- The flanged swivel cap assembly allows the cable to exit the RIS-RISER in a horizontal plane to any required orientation
- The ATEX approved and IP68 rated metal cable gland supplied comes with a standard 4.0 8.0mm bush

Materials:

Anodised Aluminium Zinc Passivated Mild Steel Stainless Steel

Suitable for:

Petroleum Spirit (including Ethanol Blends up to 90%) Diesel Bio Diesel / FAME Blends AvGas and Jetfuel

Document Ref:

DATA-RIS-RISER-151012

Installation instructions:

INS-RIS-RISER-151012



CONTENTS

- 1. DATA-RIS-SHEAR-G2
- 2. DATA-RIS-SHEAR-ADBLUE-MK2 (UPGRADED)
- 3. DATA-RIS-SHEAR-LPGI
- 4. DATA-ANTI-SYPHON-VALVE (NEW PRODUCT)
- 5. DATA-RIS-FLANGE2-SO-MODULES
- 6. DATA-RIS-FLANGE2-SUCTION
- 7. DATA-RIS-FLANGE4-TEE-MK2
- 8. DATA-RIS-FLANGE2-ACV
- 9. DATA-RIS-FLANGE4-SP-RISER
- 10. DATA-RIS-UPV2-TEST-HF
- 11. DATA-INNOVENT-2-CAP&CAP-FA (NEW PRODUCT)
- 12. DATA-RIS-VENT
- 13. DATA-RIS-VENT-AU
- 14. DATA-RIS-FLOW-3-FA-MK2
- 15. DATA-RIS-STOP-3GF
- 16. DATA-RIS-STOP-3P
- 17. DATA-RIS-STOP-3SF
- 18. DATA-RIS-STOP-2SF-R
- 19. DATA-CALM-FUEL-DELIVERIES
- 20. DATA-RIS-DIFFUSER
- 21. DATA-RIS-ATV
- 22. DATA-SUCTION-DEFLECTOR-4171
- 23. DATA-CABLE-GLAND-DONUT
- 24. DATA-COMPANION-FLANGES
- 25. DATA-RIS-PRESSURE-DIP
- 26. DATA-RIS-RISER





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