

Non-Return Valves

TRUDESIGN® Non-Return Valves are used in line to prevent water backflow or siphoning and have a very low cracking (opening) pressure.

Available in 6 in line sizes and two sizes with BSP with Tail:



Part Numbers:

| Model / Size | Part Number | Part Number PKG |
|---------------------------------------|-------------|-----------------|
| Non-Return Valve 3/4" | 90804 | 90845 |
| Non-Return Valve 1" | 90805 | 90846 |
| Non-Return Valve 1 1/8" | 90950 | 90951 |
| Non-Return Valve 1 1/4" | 90806 | 90847 |
| Non-Return Valve 1 1/2" | 90807 | 90848 |
| Non-Return Valve 2" | 90812 | 90849 |
| | | |
| Non-Return Valve Tail 25mm 1" BSP | 90990 | 91037 |
| Non-Return Valve Tail 38mm 1 1/2" BSP | 90980 | 91039 |



Key Features:

| Feature: | Benefit: |
|---|--|
| Manufactured from a composite UV stabilized, glass-reinforced Nylon 6 | High strength, tough and light weight. Can be used in direct sunlight. |
| High impact and tensile strength | "Water hammer safe" and insensitive to pressure shocks in the pipeline |
| Stainless steel spring | No corrosion issues or risk of internal valve staying open |
| Low 'cracking' (opening) pressure | Minimal pressure required to open the valve with minimal restriction on flow-rates |
| In line fitting | Minimal installation room needed and no other fittings required |
| Printed white arrow (opposite logo side) | Quick and easy identification of water flow direction |

Specifications:

| Size: | ¾" (19mm) | 1" (25mm) | 1 ⅛" (28mm) | 1 ¼" (32mm) | 1 ½" (38mm) | 2" (50mm) |
|--------------------------------------|--------------------------------------|--|--|---|--|--|
| Weight | 21 g (0.7 oz) | 34 g (1.2 oz) | 46 g (1.6 oz) | 50 g (1.8 oz) | 67 g (2.4 oz) | 119 g (4.2 oz) |
| Temp. Service | 65°C | 65°C | 65°C | 65°C | 65°C | 65°C |
| Temp. Max | 93°C | 93°C | 93°C | 93°C | 93°C | 93°C |
| Pressure Service | 0 – 150 psi | 0 – 150 psi | 0 – 150 psi | 0 – 150 psi | 0 – 150 psi | 0 – 150 psi |
| Pressure Max | 230 psi | 230 psi | 230 psi | 230 psi | 230 psi | 230 psi |
| Cracking Pressure | ~ 0.41 psi | ~ 0.29 psi | ~ 0.29 psi | ~ 0.26 psi | ~ 0.23 psi | ~ 0.22 psi |
| Recommended for flow-rates between * | 15 – 42 Litre/min (4 – 11 gpm) | 25 – 79 Litre/min (6.5 – 21 gpm) | 25 – 79 Litre/min (6.5 – 21 gpm) | 32 – 117 Litre/min (8.5 – 31 gpm) | 61 – 193 Litre/min (16 – 51 gpm) | 87 – 322 Litre/min (23 – 85 gpm) |
| Pressure loss @ max flow-rate | 3.8 psi (262 mbar) | 3.8 psi (262 mbar) | 3.8 psi (262 mbar) | 2.8 psi (193 mbar) | 2.3 psi (159 mbar) | 2.9 psi (200 mbar) |

Installation:

- Ensure the Non-Return Valve is installed with the water flowing in the same direction as the white arrow.
- Use 2 hose clamps on each end (4 total), ensuring not to over-tighten.
- Recommend use of a filter or strainer in flow path, feed side of the Non-Return Valve. Disconnect piping and check for blockages every 6 months.
- For clear water use only.

The information contained in this information sheet is for general information purposes only. The information is provided by TRUDESIGN™ and while we endeavour to keep the information up to date and correct, we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability. Any reliance you place on such information is therefore strictly at your own risk.