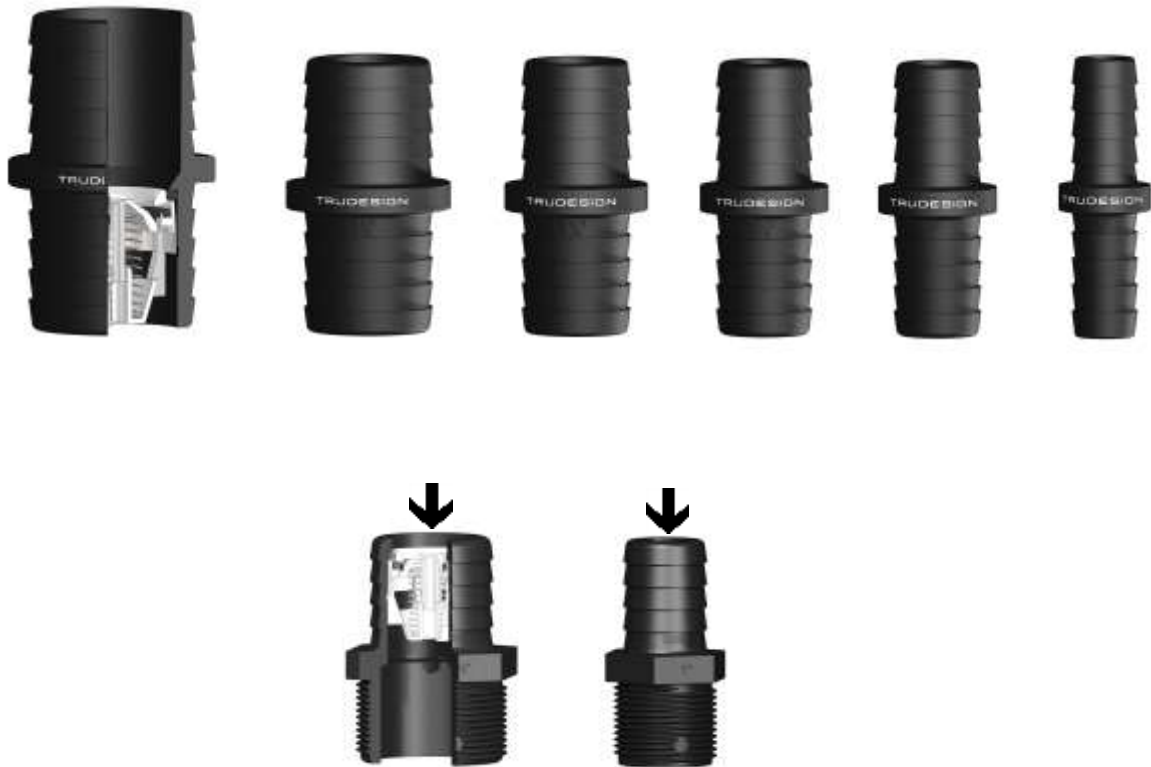


## Non-Return Valves (Check Valves)

TRUDESIGN Non-Return Valves (Check Valves) are used in-line to prevent water backflow or siphoning and are available in 6 sizes (in-line) and two sizes (threaded) in BSP or NPS.



### Part Numbers:

Model / Size	Part Number	Part Number PKG
Non-Return Valve ¾"	90804	90845
Non-Return Valve 1"	90805	90846
Non-Return Valve 1 ⅛"	90950	90951
Non-Return Valve 1 ¼"	90806	90847
Non-Return Valve 1 ½"	90807	90848
Non-Return Valve 2"	90812	90849
Model / Size	Part Number	Part Number PKG
Non-Return Valve Tail 25mm 1" BSP	90990	91037
Non-Return Valve Tail 38mm 1½" BSP	90980	91039
Check Valve - 1" Barb, 1" NPS	91291	91292
Check Valve - 1½" Barb, 1½" NPS	91293	91294

## 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 Litr/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 (Check 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.
- It is recommended for dirty water situations that the valve be cleaned once per annum to dislodge debris.

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