

TRV Series

Lockshield valves

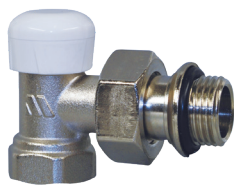
Technical Data Sheet



Description

395TRV, 396TRV, 1395TRV and 1396TRV Series lockshields are used as shut-off and control devices for heat emitters (radiators, fan coils, radiant panels, etc.) in heating and air conditioning systems. The lockshields are available in right-angle and straight configuration, with male or female thread, and must be installed on the flow side of the heat emitter. They are equipped with an O-ring-sealed straight tailpiece.

395TRV



Nickel-plated micrometric lockshield. Right-angle body. Connection for iron pipe. Straight tailpiece with O-ring. ABS cap.

Type	Part No.	DN	Kvs	Weight (g)
395TRV	395TRV38	3/8"	1.5	100
395TRV	395TRV12	1/2"	1.5	120
395TRV	395TRV34	3/4"	1.65	220

396TRV



Nickel-plated micrometric lockshield. Straight body. Connection for iron pipe. Straight tailpiece with O-ring. ABS cap.

Type	Part No.	DN	Kvs	Weight (g)
396TRV	396TRV38	3/8"	1.0	120
396TRV	396TRV12	1/2"	1.1	140
396TRV	396TRV34	3/4"	1.15	250

1395TRV



Nickel-plated micrometric lockshield. Right-angle body. 1/2" connection for copper or plastic pipe. Straight tailpiece with O-ring. ABS cap.

Type	Part No.	DN Body	DN Pipe	Kvs	Weight (g)
1395TRV	1395TRV38	3/8"	1/2"	1.5	90
1395TRV	1395TRV12	1/2"	1/2"	1.5	110

1396TRV

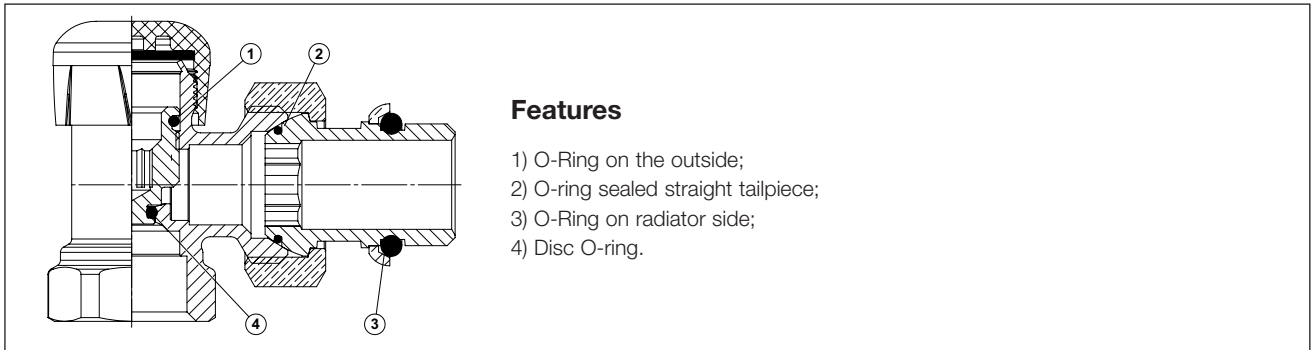


Nickel-plated micrometric lockshield. Straight body. 1/2" connection for copper or plastic pipe. Straight tailpiece with O-ring. ABS cap.

Type	Part No.	DN Body	DN Pipe	Kvs	Weight (g)
1396TRV	1396TRV38	3/8"	1/2"	1.0	110
1396TRV	1396TRV12	1/2"	1/2"	1.1	130

Technical and design features

Valve body	CW617N brass
Cap	ABS
O-Ring	EPDM
Tailpiece	CW617N brass
Nominal pressure	10 bar
Max. temperature	110°C
Usable fluids	Water, including with glycol ≤50%



The reliability of the **395TRV, 396TRV, 1395TRV and 1396TRV Series** lockshields is guaranteed by the fact that every single product is tested to ensure the outward pressure tightness of the valve body and its components, and the pressure tightness of the disc when it shuts off the flow.

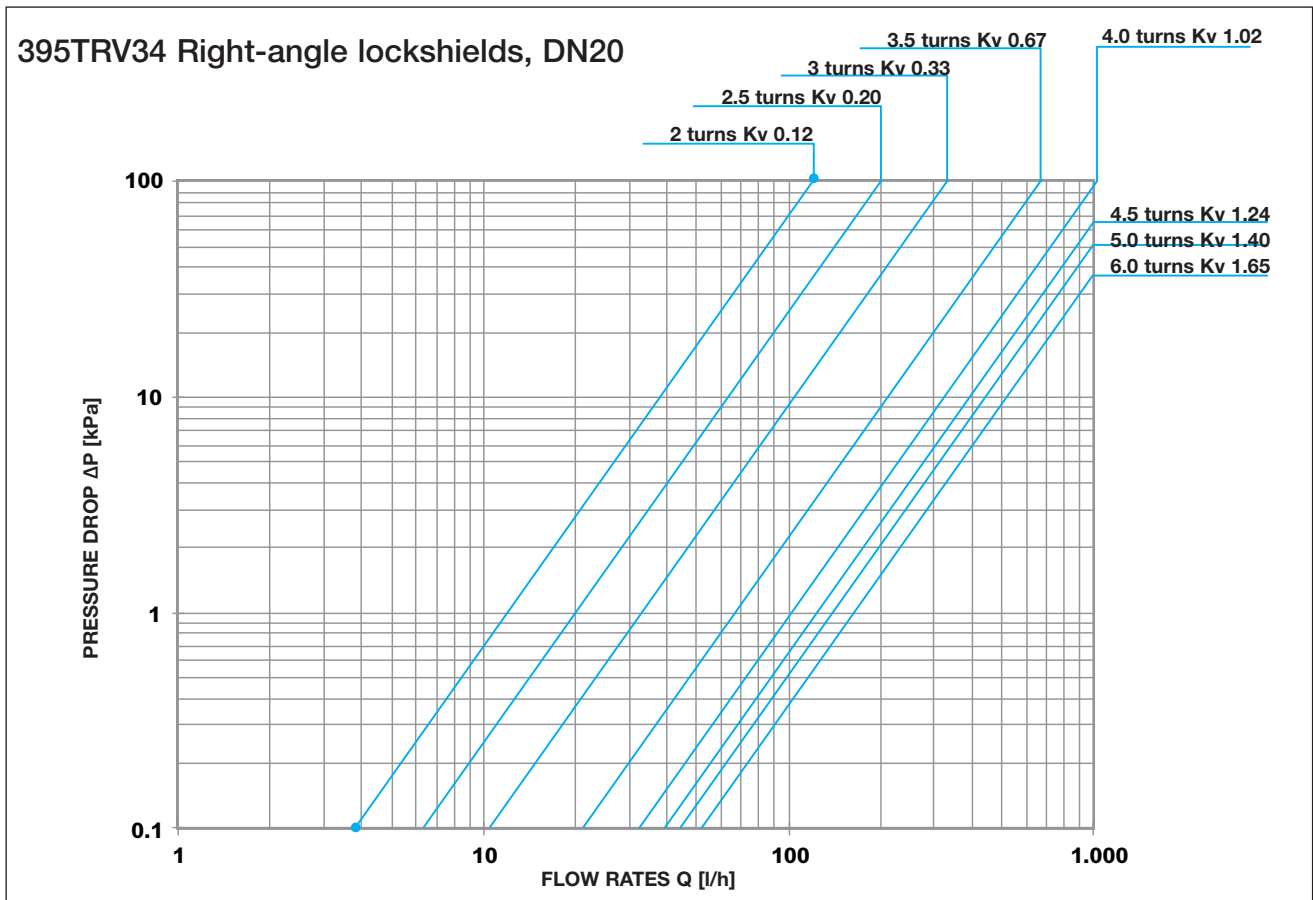
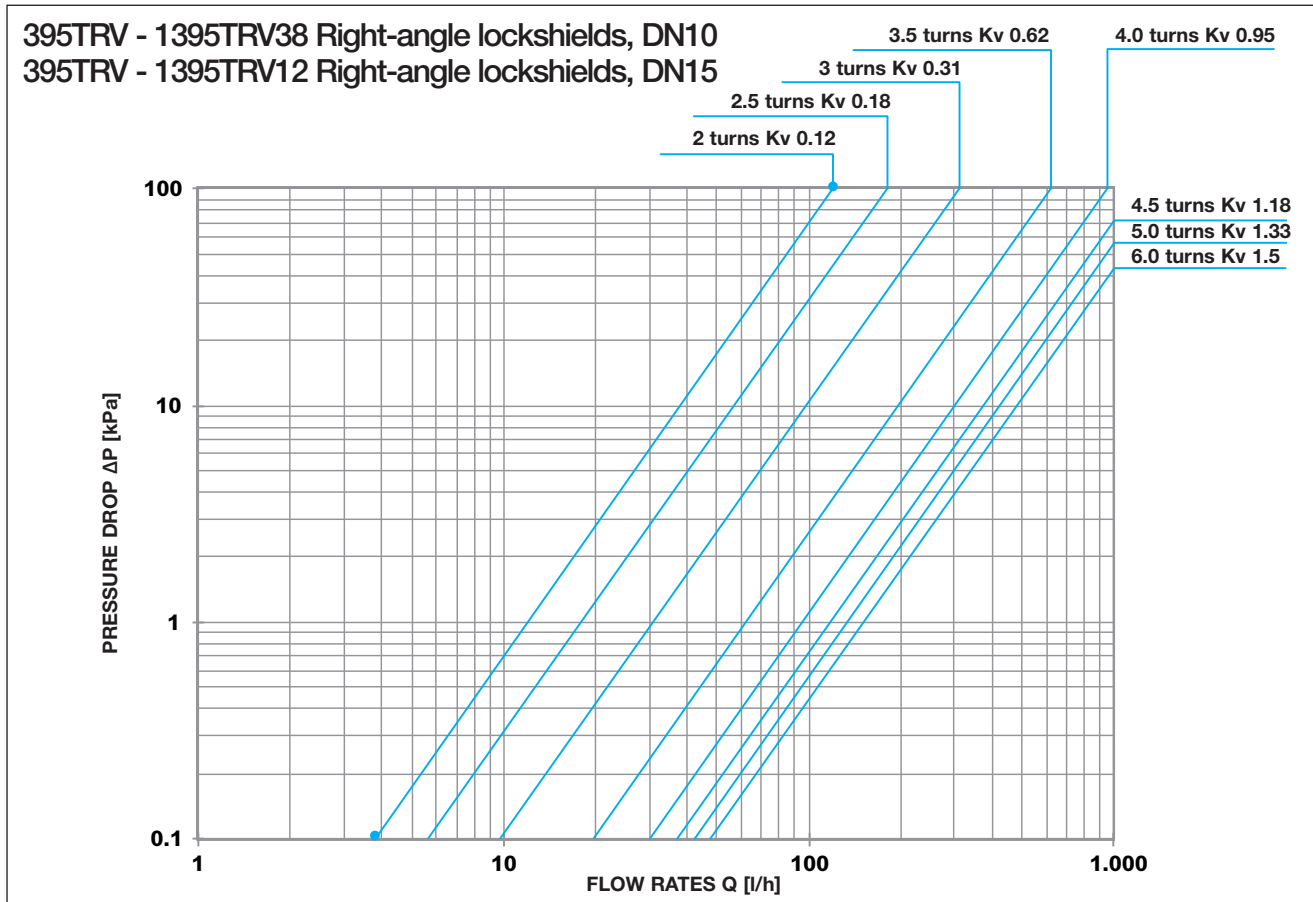
Application

Although not strictly setting devices, the lockshields can be used for hydraulic balancing of heat emitters by adjusting the disc stroke.

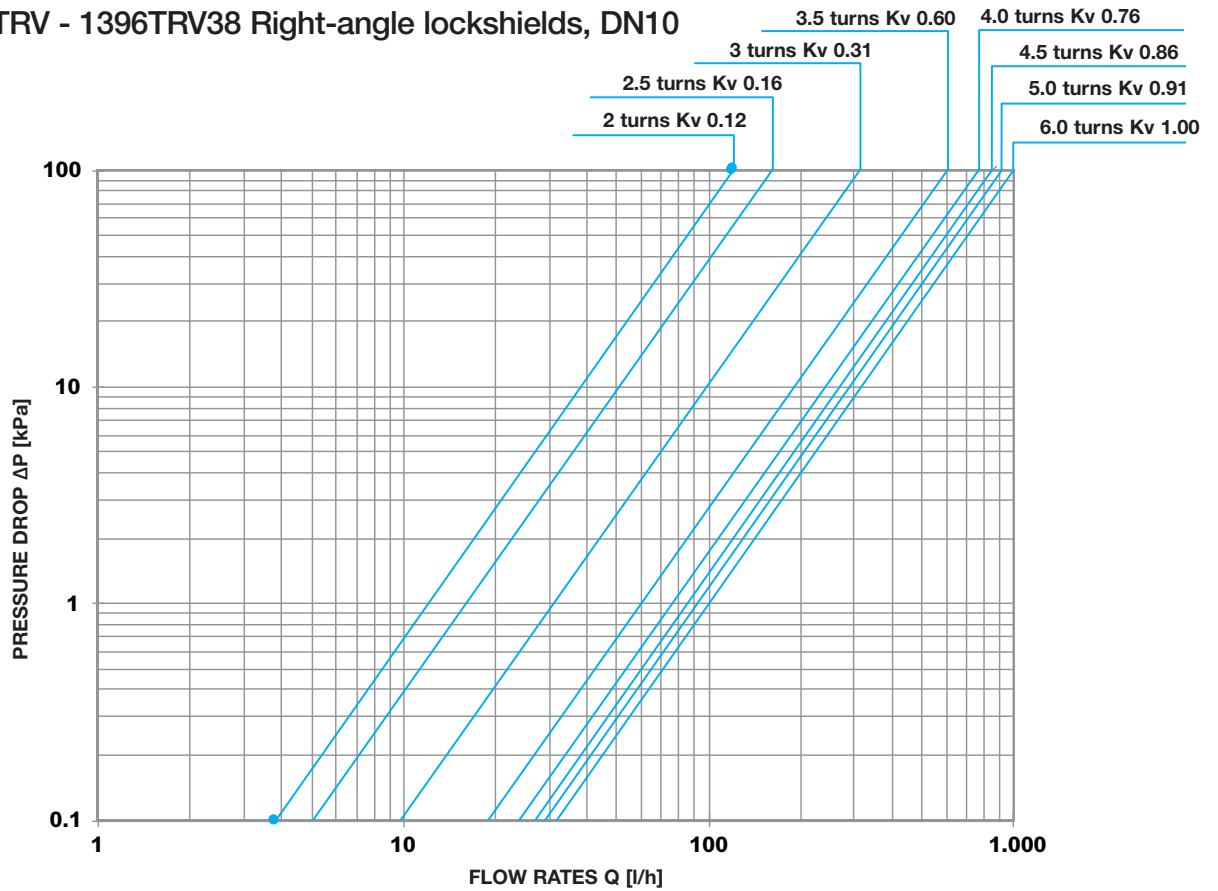
Operation

Operation is controlled by manual movement of the disc that shuts off the heat carrier fluid. The fluid flow rate and pressure drop can be determined from the relevant flow curves.

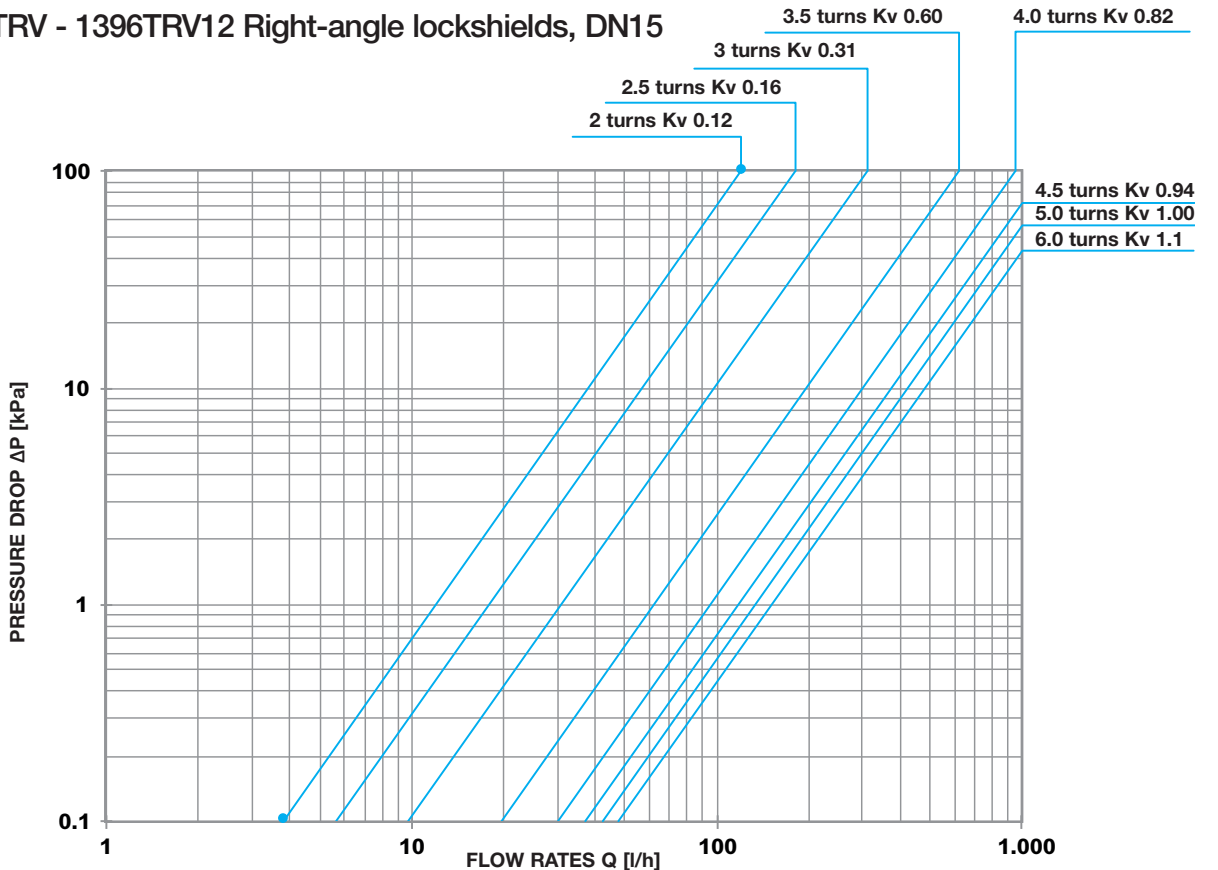
Charts



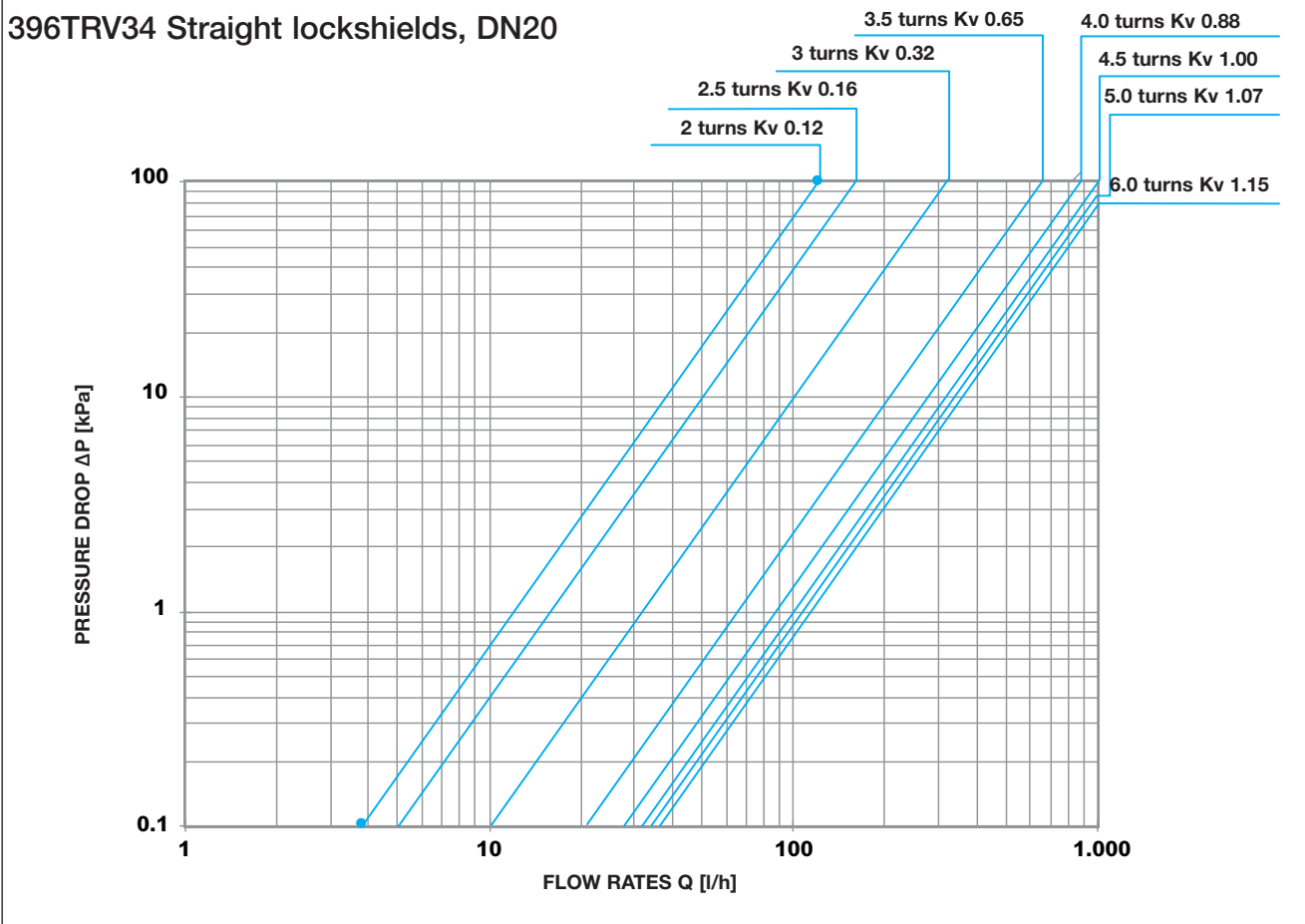
396TRV - 1396TRV38 Right-angle lockshields, DN10



396TRV - 1396TRV12 Right-angle lockshields, DN15



396TRV34 Straight lockshields, DN20



Installation

Lockshield selection is based on the size of the connection to the radiator and the size of the connecting pipe. **395TRV, 396TRV, 1395TRV and 1396TRV Series** lockshields can be installed on heat emitters supplied by either copper or plastic pipes.

To adjust the lockshield, remove the cap and turn the disc with a 6mm hex wrench.

The setting positions can be identified by the number of opening turns of the lockshield starting from the fully closed position (see table).

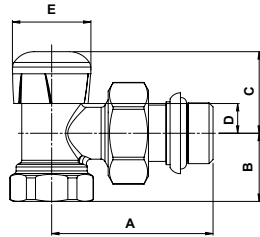
Lockshield Kv values in the various setting positions

Number of Turns	395TRV38 395TRV12 1395TRV38 1395TRV12	395TRV34	396TRV38 1396TRV38	396TRV12 1396TRV12	386TRV34
1.5	0	0	0	0	0
2	0.12	0.12	0.12	0.12	0.12
2.5	0.18	0.2	0.16	0.16	0.16
3	0.31	0.33	0.31	0.31	0.32
3.5	0.62	0.67	0.6	0.6	0.65
4	0.95	1.02	0.76	0.82	0.88
4.5	1.18	1.24	0.85	0.94	1
5	1.33	1.4	0.91	1	1.07
A	1.5	1.65	1	1.1	1.15

Kv values: the setting positions can be identified by the number of opening turns of the lockshield starting from the fully closed position.

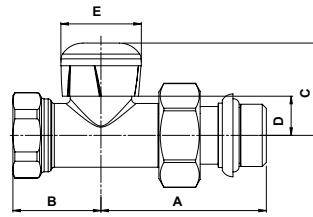
Overall dimensions (mm)

395TRV



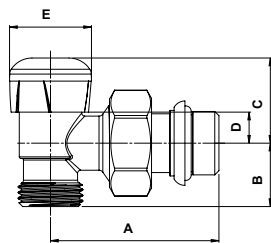
Type	Part	Dn	Kvs	L	H
V3GB		1/2" F	2,5	80	119
V3GB		3/4" F	4	80	119
V3GB		3/4" F	6	80	119

396TRV



Type	Part	Dn	Kvs	L	H
V3GB		1/2" F	2,5	80	119
V3GB		3/4" F	4	80	119
V3GB		3/4" F	6	80	119

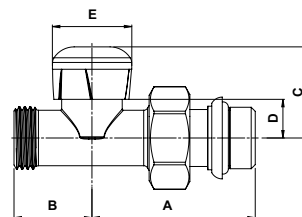
1395TRV



Type	Part	Dn	Kvs	L	H
V3GB		1/2" F	2,5	80	119
V3GB		3/4" F	4	80	119
V3GB		3/4" F	6	80	119

35

1396TRV



Type	Part	Dn	Kvs	L	H
V3GB		1/2" F	2,5	80	119
V3GB		3/4" F	4	80	119
V3GB		3/4" F	6	80	119

35

Specification text

395TRV Series

Micrometric control and shut-off lockshield **395TRV Series** – WATTS brand. Right-angle body in pressed nickel-plated brass. EPDM soft-seal disc. Stroke adjustment with 6mm hex wrench. ABS cap. Pre-sealed straight tailpiece with finishing washer. Max. operating temperature: 110°C. Max. operating pressure: 10 bar. Connection for iron pipe: 3/8"F-1/2"F-3/4"F. Kvs: 1.5 (3/8"); 1.5 (1/2"); 1.65 (3/4").

396TRV Series

Micrometric control and shut-off lockshield **396TRV Series** – WATTS brand. Straight body in pressed nickel-plated brass. EPDM soft-seal disc. Stroke adjustment with 6mm hex wrench. ABS cap. Pre-sealed straight tailpiece with finishing washer. Max. operating temperature: 110°C. Max. operating pressure: 10 bar. Connection for iron pipe: 3/8"F-1/2"F-3/4"F. Kvs: 1.0 (3/8"); 1.1 (1/2"); 1.15 (3/4").

1395TRV Series

Micrometric control and shut-off lockshield **1395TRV Series** – WATTS brand. Right-angle body in pressed nickel-plated brass. EPDM soft-seal disc. Stroke adjustment with 6mm hex wrench. ABS cap. Pre-sealed straight tailpiece with finishing washer. Max. operating temperature: 110°C. Max. operating pressure: 10 bar. Body connection: 3/8"M-1/2"M. Connection for copper or plastic/multi-layer pipe: 1/2"M. Kvs: 1.5.

1396TRV Series

Micrometric control and shut-off lockshield **1396TRV Series** – WATTS brand. Straight body in pressed nickel-plated brass. EPDM soft-seal disc. Stroke adjustment with 6mm hex wrench. ABS cap. Pre-sealed straight tailpiece with finishing washer. Max. operating temperature: 110°C. Max. operating pressure: 10 bar. Body connection: 3/8"M-1/2"M. Connection for copper or plastic/multi-layer pipe: 1/2"M. Kvs: 1.15; 3/8"M. Kvs: 1.0.

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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