

# TRV Series

Thermostat-adaptable valves

## Technical Data Sheet



## Description

**378TRV, 379TRV, 1378TRV and 1379TRV Series** thermostat-adaptable valves **without pre-setting**, and **388TRV, 389TRV, 1388TRV and 1389TRV** thermostat-adaptable valves **with pre-setting** are used as shut-off and control devices for heat emitters (radiators, fan coils, radiant panels, etc.) in heating and air conditioning systems.

The valves 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 connected to the heat emitter by means of an O-Ring-sealed straight tailpiece, using a hex wrench.

### 378TRV



Nickel-plated thermostat-adaptable valve. Right-angle body. Connection for iron pipe.

**Straight tailpiece with O-Ring.** ABS handwheel with moving stem.

Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
378TRV	378TRV38	3/8"	3/8"	1.35	180
378TRV	378TRV12	1/2"	1/2"	1.42	220
378TRV	378TRV34	3/4"	3/4"	1.70	320

### 379TRV



Nickel-plated thermostat-adaptable valve. Straight body. Connection for iron pipe.

**Straight tailpiece with O-Ring.** ABS handwheel with moving stem.

Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
379TRV	379TRV38	3/8"	3/8"	0.95	180
379TRV	379TRV12	1/2"	1/2"	1.08	220
379TRV	379TRV34	3/4"	3/4"	1.35	320

### 1378TRV



Nickel-plated thermostat-adaptable valve. Right-angle body. 1/2"M or M24x1,5 connection for copper or plastic pipe. **Straight tailpiece with O-Ring.** ABS handwheel with moving stem. Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
1378TRV	1378TRV38	3/8"	1/2"	1.35	170
1378TRV	1378TRV38-12	3/8"	1/2" (large internal diameter)	1.35	170
1378TRV	1378TRV38-24	3/8"	24mmx1,5	1.35	170
1378TRV	1378TRV12	1/2"	1/2"	1.42	200
1378TRV	1378TRV12-12	1/2"	1/2" (large internal diameter)	1.42	200
1378TRV	1378TRV12-24	1/2"	24mmx1,5	1.42	200

### 1379TRV



Nickel-plated thermostat-adaptable valve. Straight body. 1/2"M or M24x1,5 connection for copper or plastic pipe. **Straight tailpiece with O-Ring.** ABS handwheel with moving stem. Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
1379TRV	1379TRV38	3/8"	1/2"	0.95	180
1379TRV	1379TRV38-12	3/8"	1/2" (large internal diameter)	0.95	180
1379TRV	1379TRV38-24	3/8"	24mmx1,5	0.95	180
1379TRV	1379TRV12	1/2"	1/2"	1.08	220
1379TRV	1379TRV12-12	1/2"	1/2" (large internal diameter)	1.08	220
1379TRV	1379TRV12-24	1/2"	24mmx1,5	1.08	220



### 388TRV

Nickel-plated thermostat-adaptable valve **with pre-setting**. Right-angle body. Connection for iron pipe. **Straight tailpiece with O-Ring**. ABS handwheel with moving stem.

Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
388TRV	388TRV38	3/8"	3/8"	1.25	180
388TRV	388TRV12	1/2"	1/2"	1.32	220
388TRV	378TRV34	3/4"	3/4"	1.38	320



### 389TRV

Nickel-plated thermostat-adaptable valve **with pre-setting**. Straight body. Connection for iron pipe. **Straight tailpiece with O-Ring**. ABS handwheel with moving stem.

Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
389TRV	389TRV38	3/8"	3/8"	0.90	180
389TRV	389TRV12	1/2"	1/2"	1.00	220
389TRV	389TRV34	3/4"	3/4"	1.13	320



### 1388TRV

Nickel-plated thermostat-adaptable valve **with pre-setting**. Right-angle body. 1/2"M or M24x1,5 connection for copper or plastic pipe. **Straight tailpiece with O-Ring**. ABS handwheel with moving stem. Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
1388TRV	1388TRV38	3/8"	1/2"	1.25	170
1388TRV	1388TRV38-12	3/8"	1/2" (large internal diameter)	1.25	170
1388TRV	1388TRV38-24	3/8"	24mmx1,5	1.25	170
1388TRV	1388TRV12	1/2"	1/2"	1.32	200
1388TRV	1388TRV12-12	1/2"	1/2" (large internal diameter)	1.32	200
1388TRV	1388TRV12-24	1/2"	24mmx1,5	1.32	200



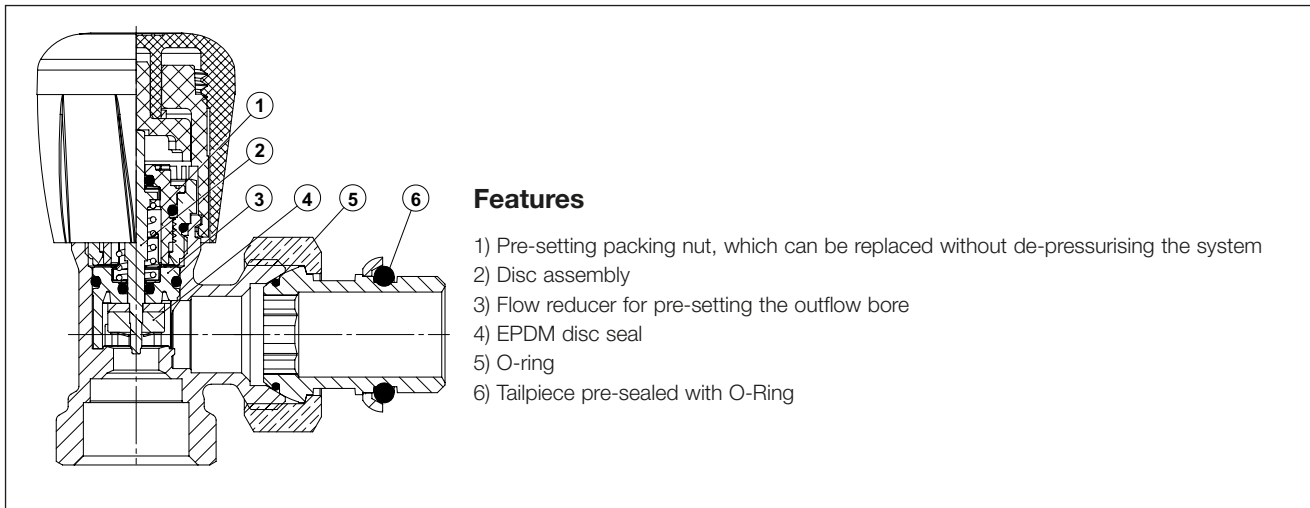
### 1389TRV

Nickel-plated thermostat-adaptable valve **with pre-setting**. Straight body. 1/2"M or M24x1,5 connection for copper or plastic pipe. **Straight tailpiece with O-Ring**. ABS handwheel with moving stem. Compatible with **148 and 148A Series** thermostatic actuators, BT-TH02 RF Series electronic thermostatic actuators and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators.

Type	Part No.	DN body	DN pipe	Kvs	Weight (g)
1389TRV	1389TRV38	3/8"	1/2"	0.90	180
1389TRV	1389TRV38-12	3/8"	1/2" (large internal diameter)	0.90	180
1389TRV	1389TRV38-24	3/8"	24mmx1,5	0.90	180
1389TRV	1389TRV12	1/2"	1/2"	1.00	220
1389TRV	1389TRV12-12	1/2"	1/2" (large internal diameter)	1.00	220
1389TRV	1389TRV12-24	1/2"	24mmx1,5	1.00	220

Technical and design features	
Valve body	CW617N brass
Cap	ABS
O-Ring	EPDM
Tailpiece	CW614N brass
Nominal pressure	10 bar
Max. temperature	110°C
Usable fluids	Water, including with glycol ≤50%

Max ΔP in reverse flow installation 0.8 bar



## Application

These valves are designed for manual room temperature control, or automatic room temperature control if used in conjunction with **148, 148A and 148SD Series** thermostatic actuators or **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. The use of thermostatic valves makes it possible to install metering systems as required by Italian law 10/91 art. 26.

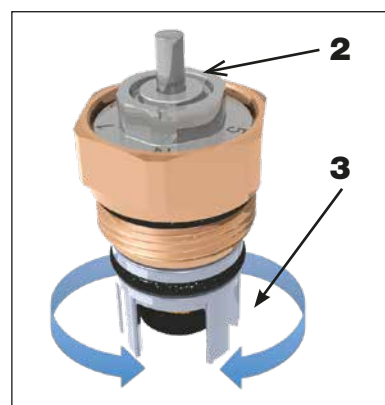
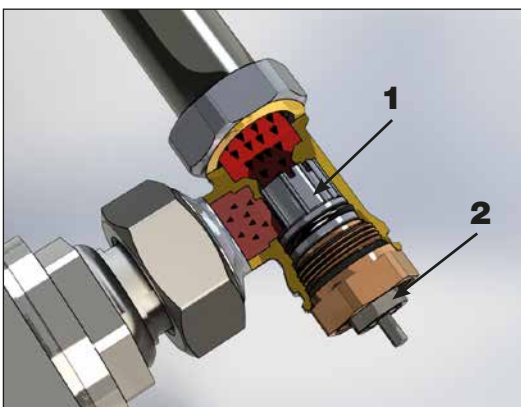
## Operation

Valve operation is controlled by manual or automatic movement of the disc (1) that shuts off the heat carrier fluid. The fluid flow rate and pressure drop of the valves can be determined from the appropriate flow curves. In thermostatic mode, however, they assume the characteristics of the device in question.

### Pre-setting for 388TRV, 389TRV, 1388TRV and 1389TRV Series

The valves are equipped with active-memory pre-setting (3), to allow precise balancing of the system when used with thermostatic or electrothermal actuators. To balance the system, turn the ring-nut under the handwheel (2), to adjust the outflow bore. In particular, in the event of removal of the handwheel for thermostatic control of the system, the active-memory pre-setting permanently retains the set balance.

The reliability of **378TRV, 379TRV, 1378TRV, 1379TRV, 388TRV, 389TRV, 1388TRV and 1389TRV Series** thermostat-adaptable valves is guaranteed by the fact that every single product undergoes testing.



## Charts

### STRAIGHT THERMOSTATIC VALVES DN15 FLOW RATES $q_m$ -kv

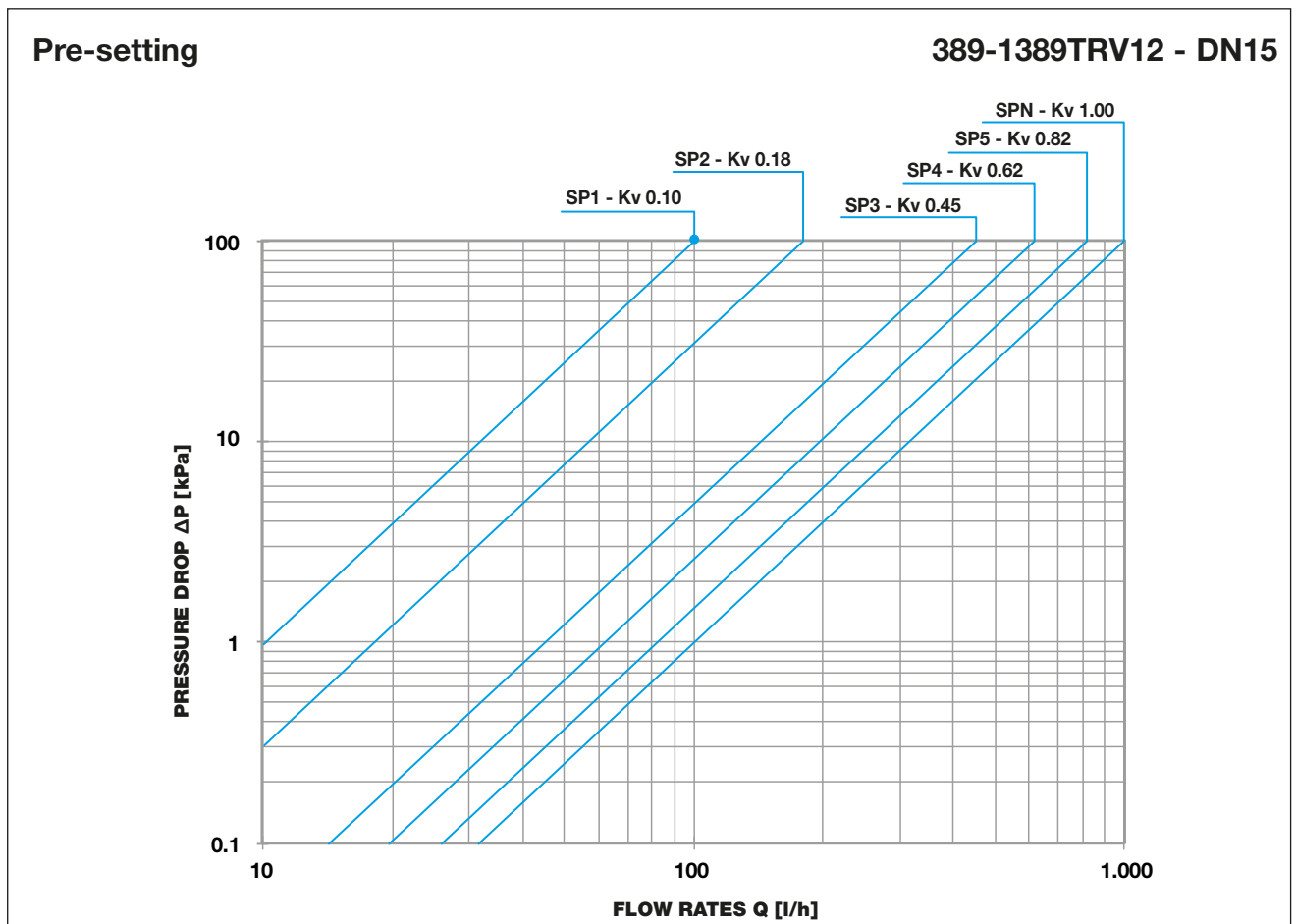
SERIES	TYPE	DN	Kv					Kvs	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
389-1389TRV12	STR	15	0.10	0.18	0.45	0.62	0.82	1.00	-
379-1379TRV12			-	-	-	-	-	-	1.08
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

SERIES	TYPE	DN	$q_{ms}$ -l/h					$q_{mN}$ -l/h	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
389-1389TRV12	STR	15	26	50	94	116	155	160	-
379-1379TRV12			-	-	-	-	-	-	160
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

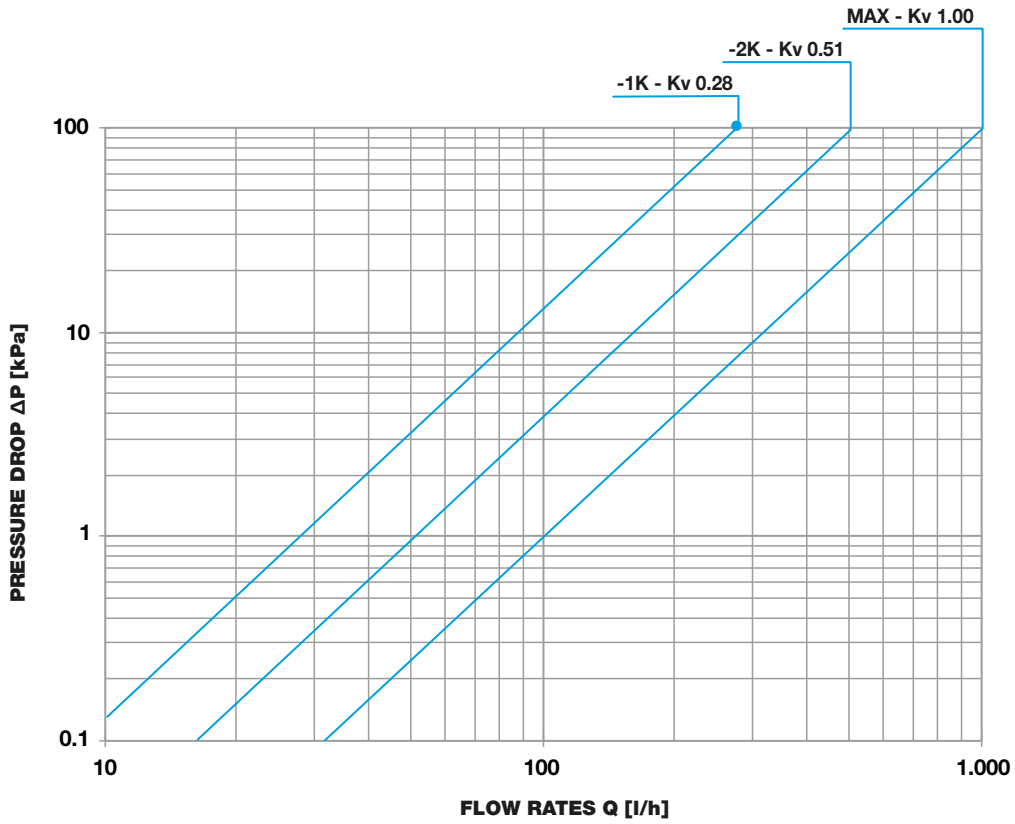
$q_{ms}$  = nominal flow rate in the pre-setting positions, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

$q_{mN}$  = maximum nominal flow rate, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$



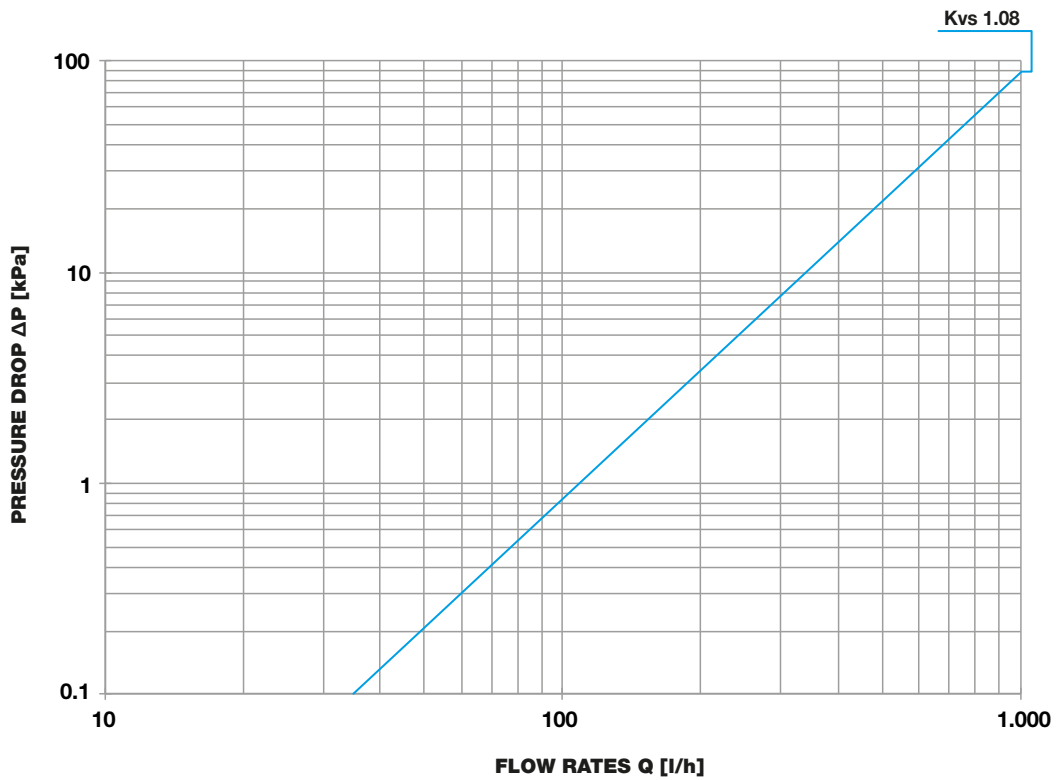
Pre-setting SP N

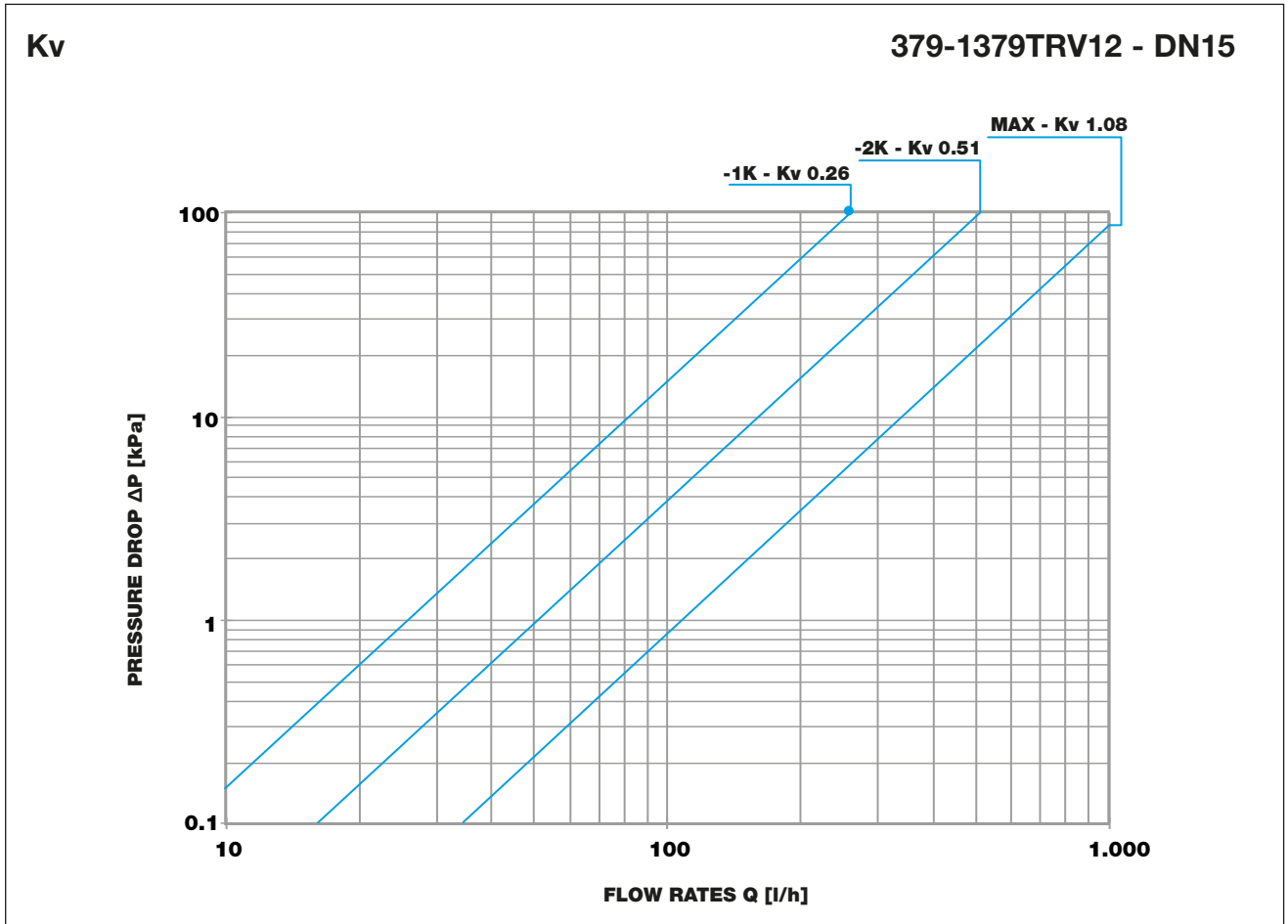
389-1389TRV12 - DN15



Kvs

379-1379TRV12 - DN15





**RIGHT-ANGLE THERMOSTATIC VALVES DN15**  
FLOW RATES  $q_m$ -kv

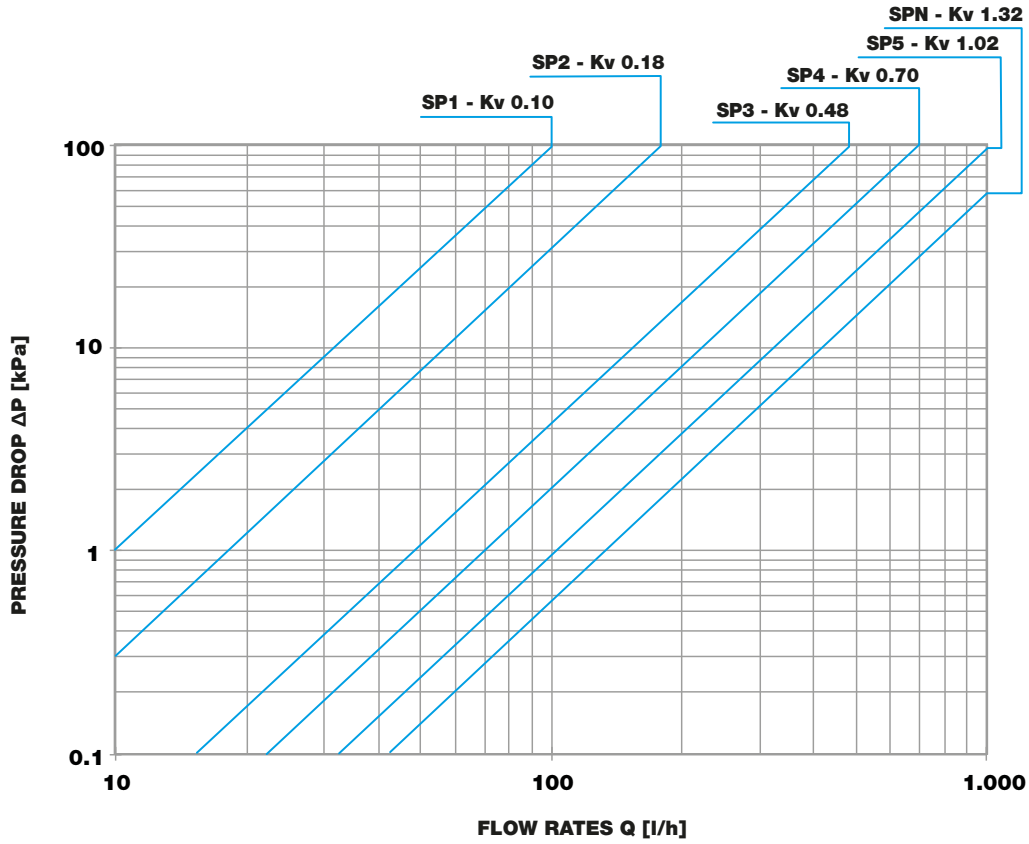
SERIES	TYPE	DN	Kv					Kvs	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
388-1388TRV12	ANG	15	0.10	0.18	0.48	0.70	1.02	1.32	-
378-1378TRV12			-	-	-	-	-	-	1.42
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%
			$q_{ms}$ -l/h					$q_{mN}$ -l/h	
SERIES	TYPE	DN	SP1	SP2	SP3	SP4	SP5	SPN	max.
388-1388TRV12	ANG	15	26	52	96	122	162	170	-
378-1378TRV12			-	-	-	-	-	-	165
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

$q_{ms}$  = nominal flow rate in the pre-setting positions, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

$q_{mN}$  = maximum nominal flow rate, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

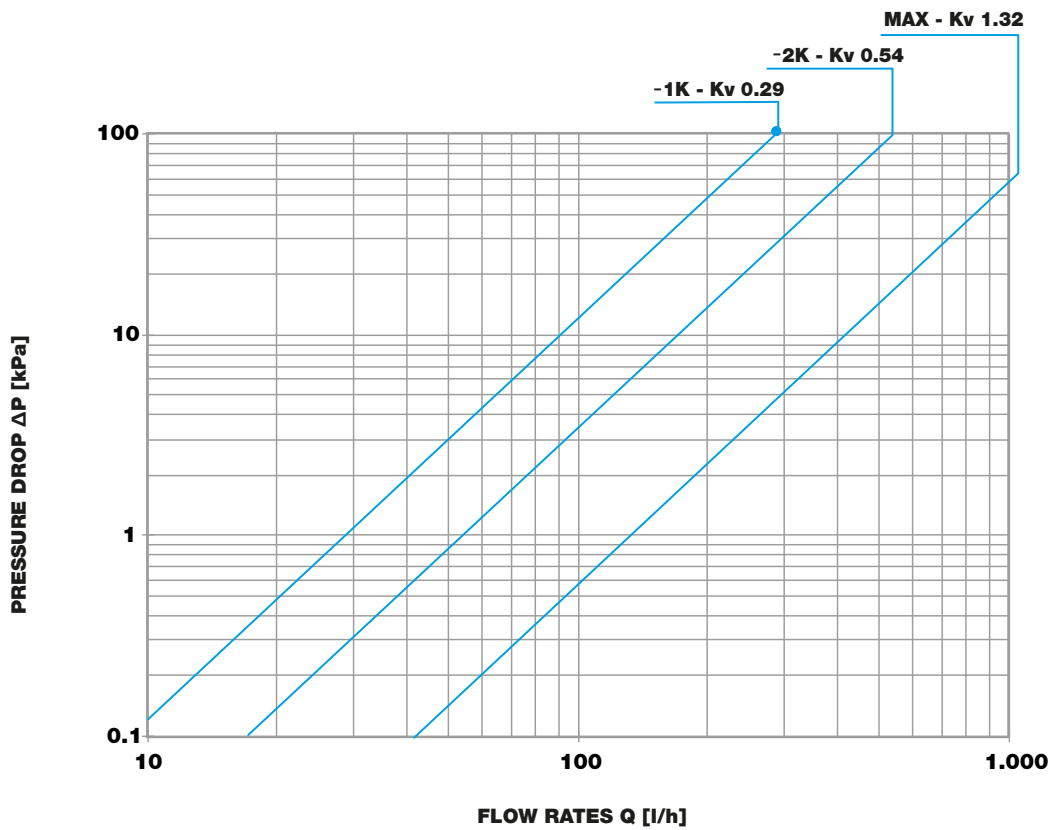
Pre-setting

388-1388TRV12 - DN15



Pre-setting SP N

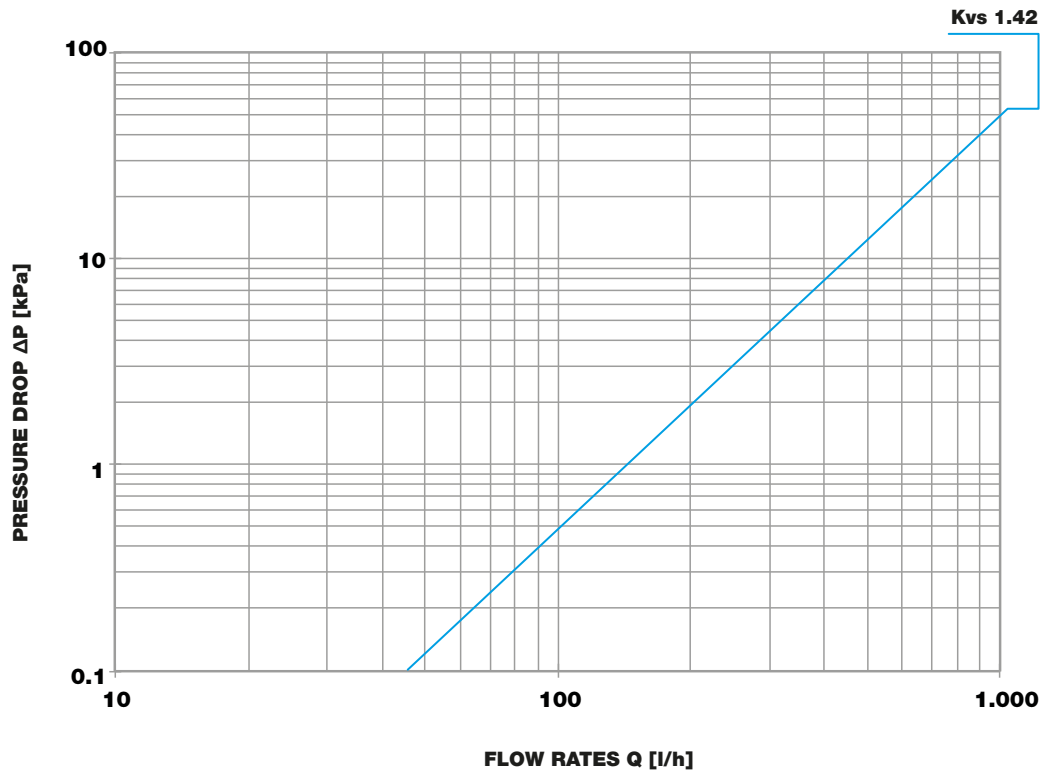
388-1388TRV12 - DN15





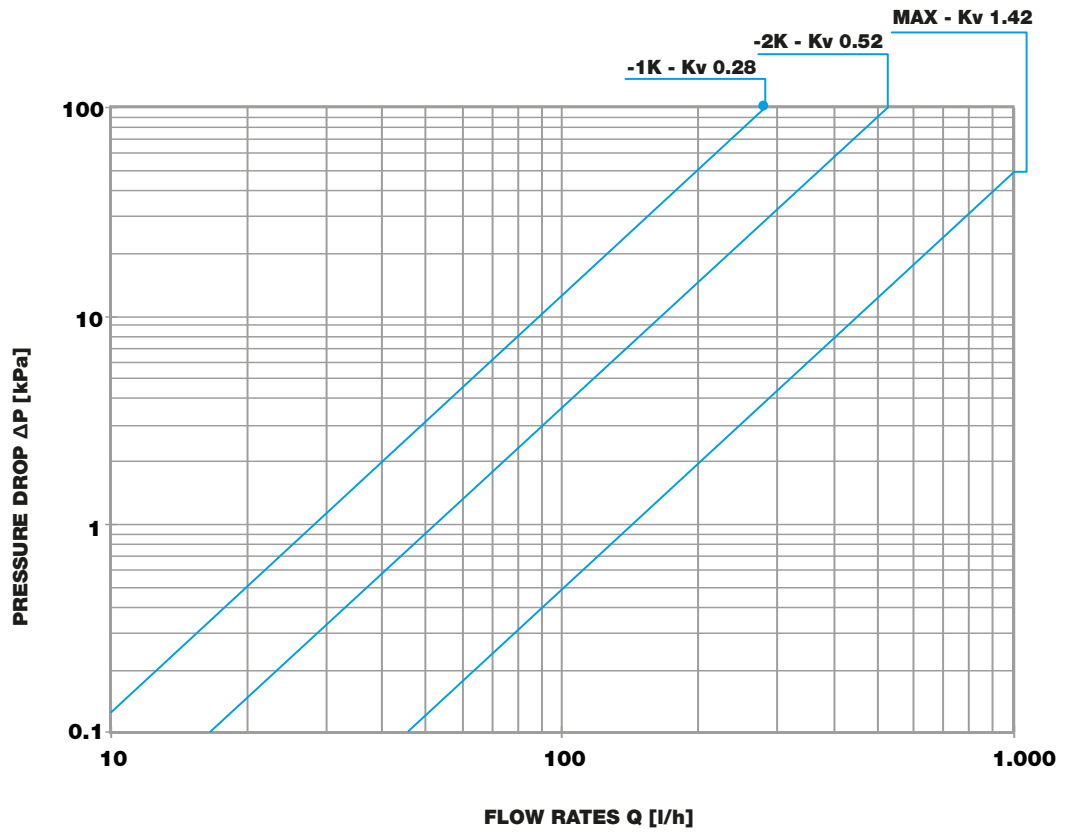
Kvs

378-1378TRV12 - DN15



Kv

378-1378TRV12 - DN15



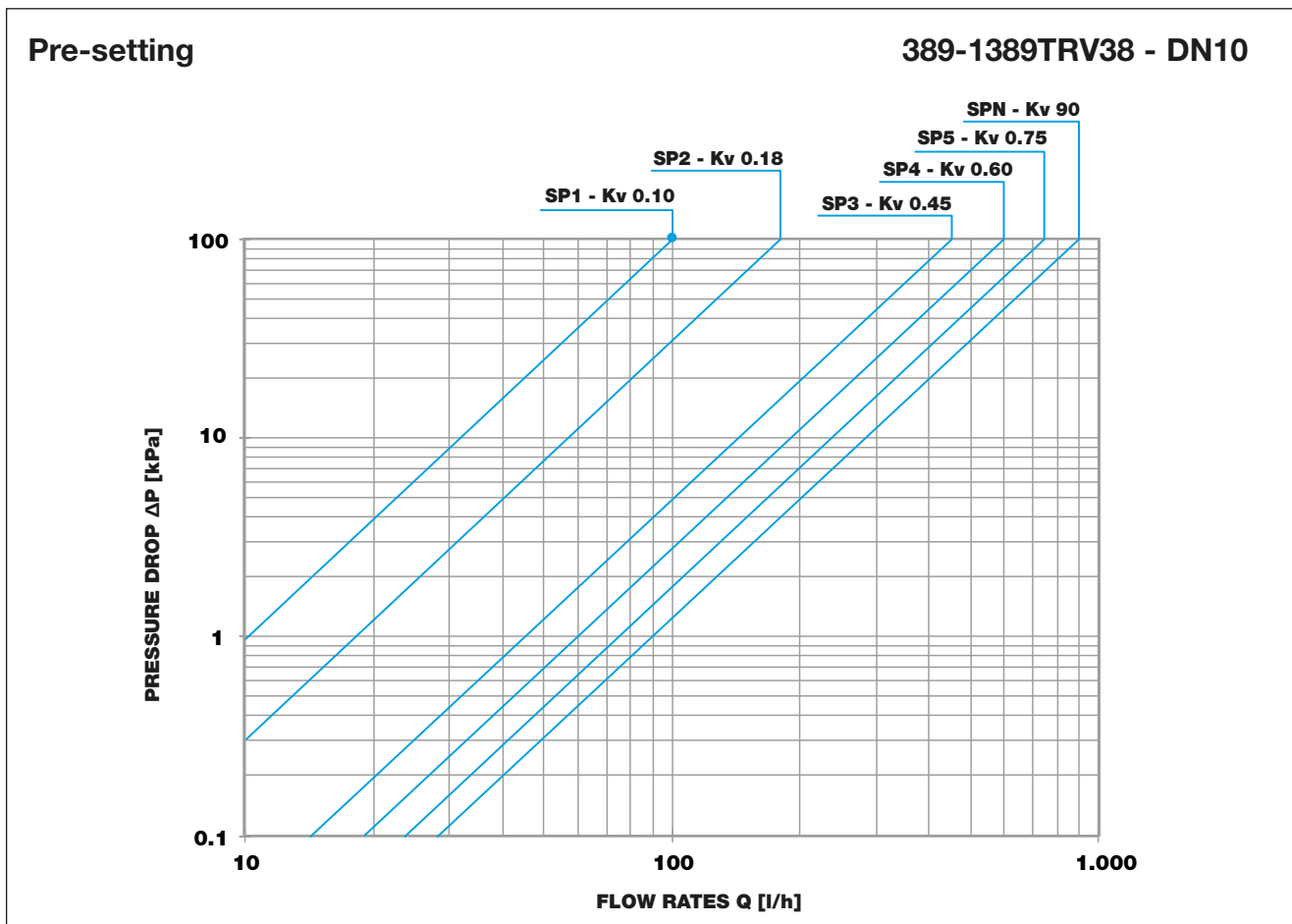
STRAIGHT THERMOSTATIC VALVES DN10

FLOW RATES  $q_m$ -kv

SERIES	TYPE	DN	Kv					Kvs	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
389-1389TRV38	STR	10	0.10	0.18	0.45	0.60	0.75	0.90	-
379-1379TRV38			-	-	-	-	-	-	0.95
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%
			$q_{mS}$ -l/h					$q_{mN}$ -l/h	
SERIES	TYPE	DN	SP1	SP2	SP3	SP4	SP5	SPN	max.
389-1389TRV38	STR	10	26	50	94	115	152	158	-
379-1379TRV38			-	-	-	-	-	-	158
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

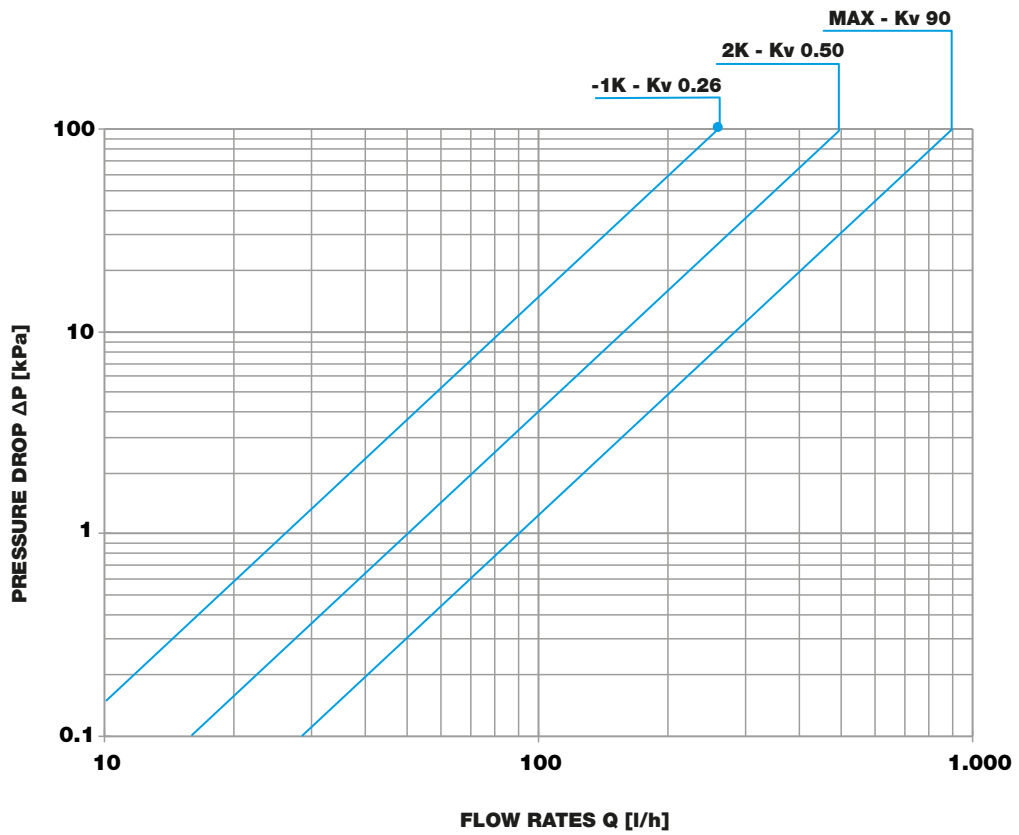
$q_{mS}$  = nominal flow rate in the pre-setting positions, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10kPa$

$q_{mN}$  = maximum nominal flow rate, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10kPa$



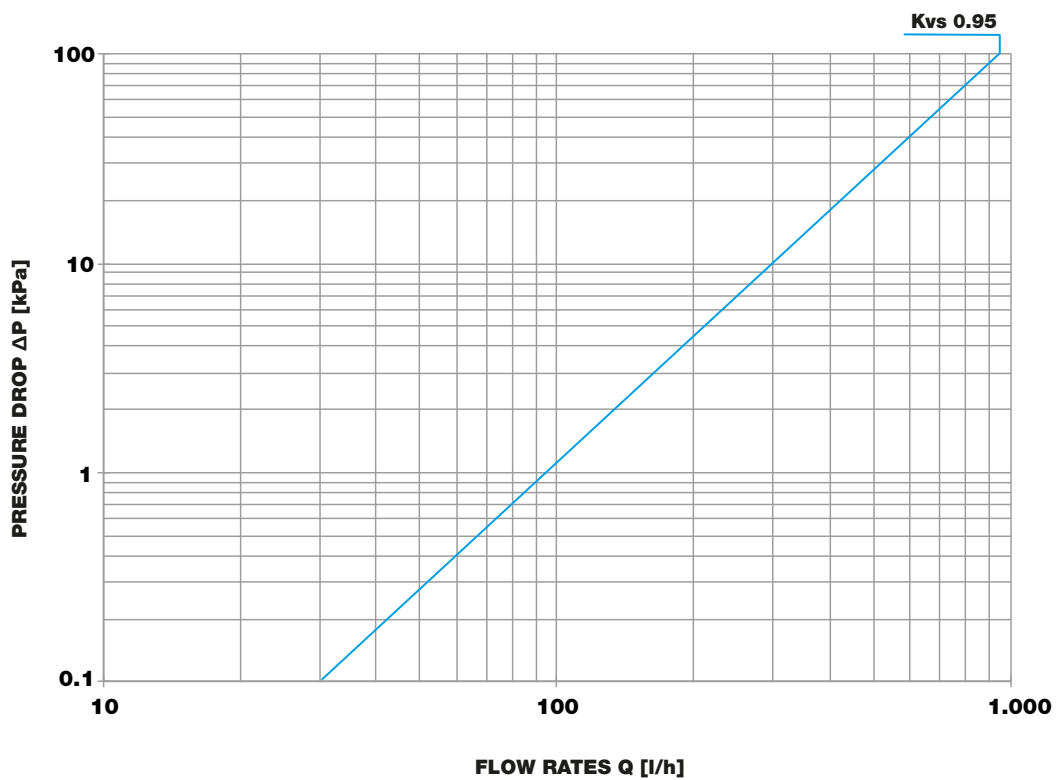
Pre-setting SP N

389-1389TRV38 - DN10



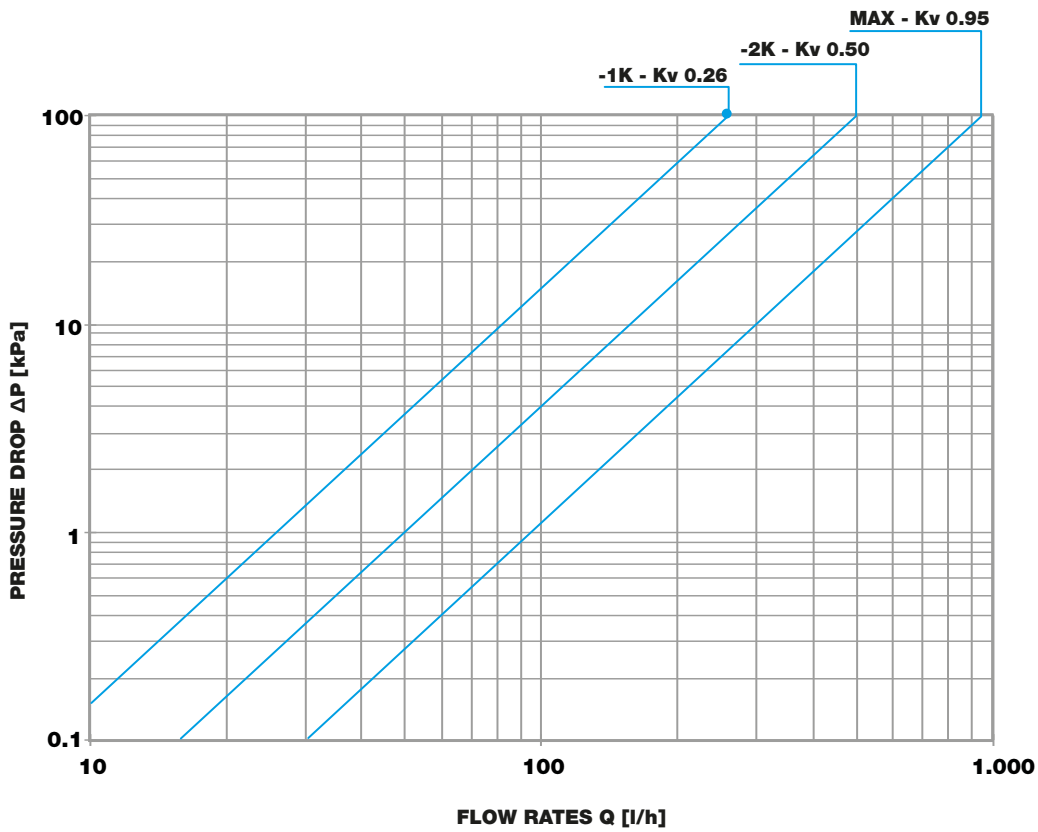
Kvs

379-1379TRV38 - DN10



### 379-1379TRV38 - DN10

Kv



### RIGHT-ANGLE THERMOSTATIC VALVES DN10

FLOW RATES  $q_m$ -kv

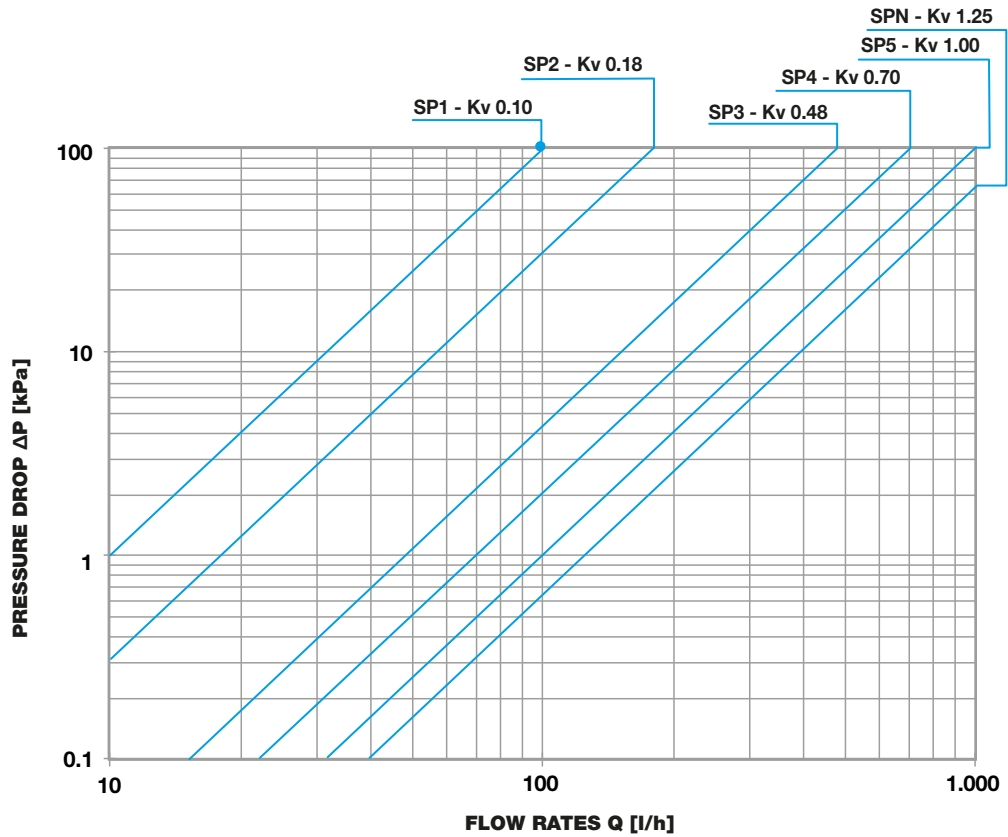
SERIES	TYPE	DN	Kv					Kvs	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
388-1388TRV38	ANG	10	0.10	0.18	0.48	0.70	1.00	1.25	-
378-1378TRV38			-	-	-	-	-	-	1.35
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%
			$q_{ms}$ -l/h					$q_{mN}$ -l/h	
SERIES	TYPE	DN	SP1	SP2	SP3	SP4	SP5	SPN	max.
388-1388TRV38	ANG	10	26	52	96	122	162	170	-
378-1378TRV38			-	-	-	-	-	-	-
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

$q_{ms}$  = nominal flow rate in the pre-setting positions, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

$q_{mN}$  = maximum nominal flow rate, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

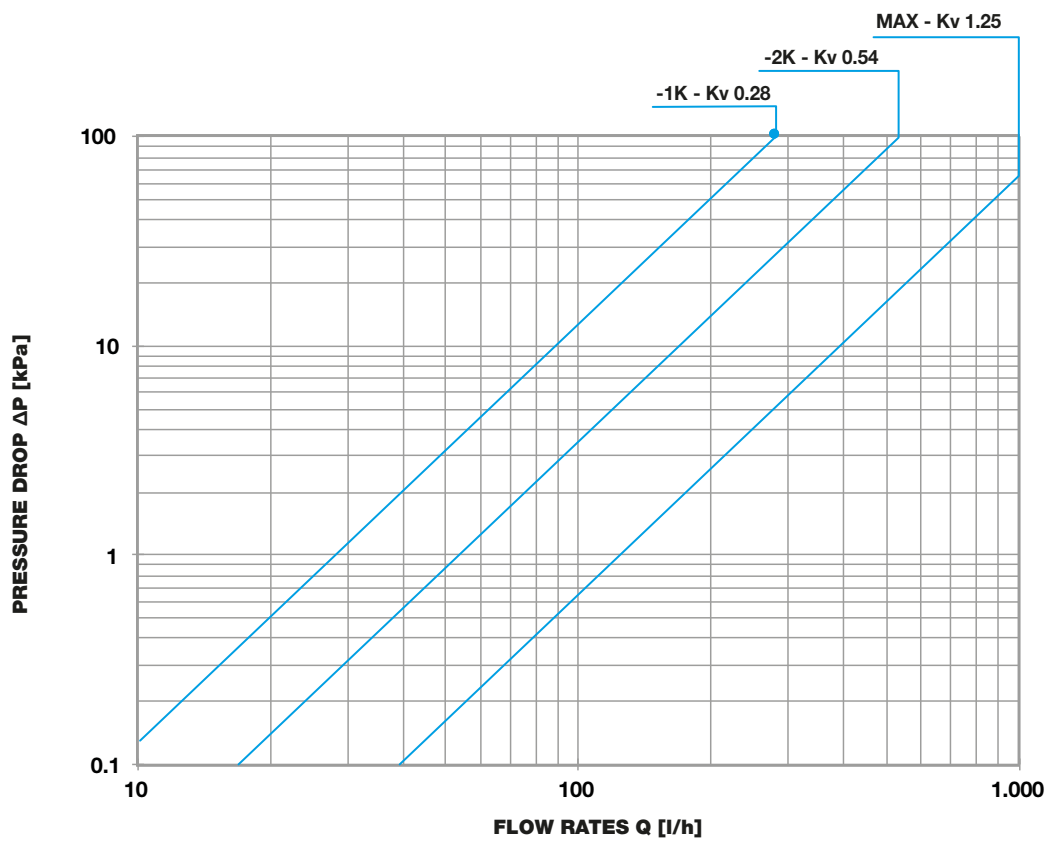
Pre-setting

388-1388TRV38 - DN10



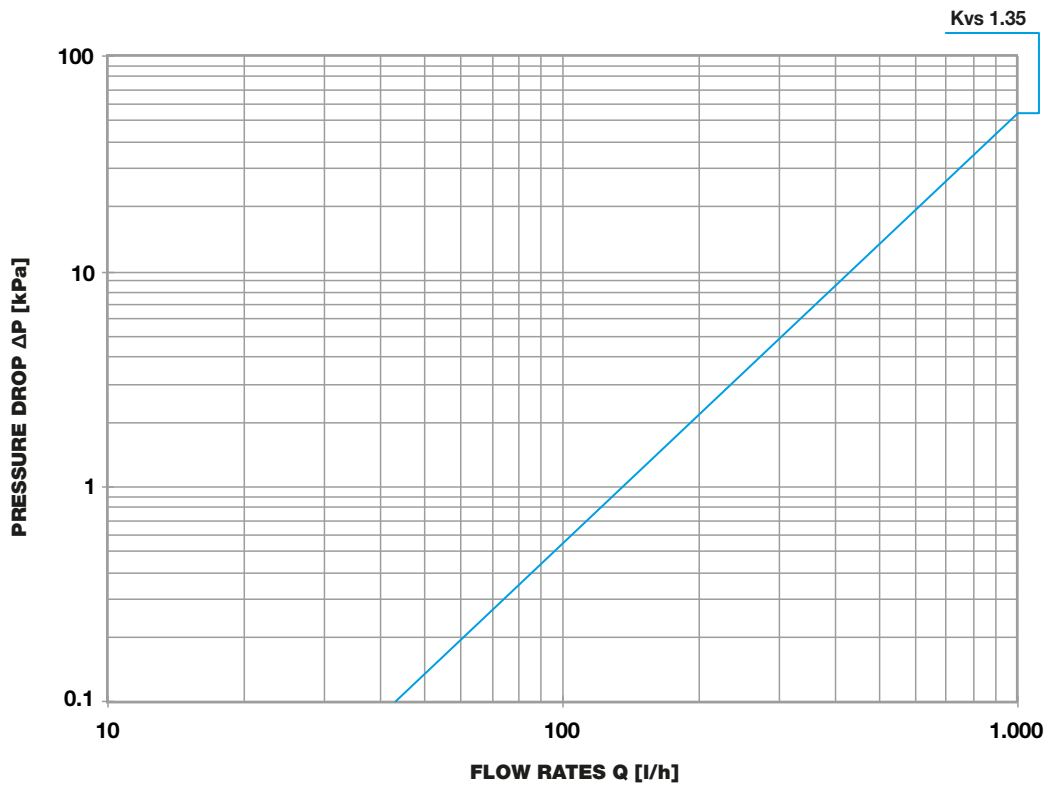
Pre-setting SP N

388-1388TRV38 - DN10



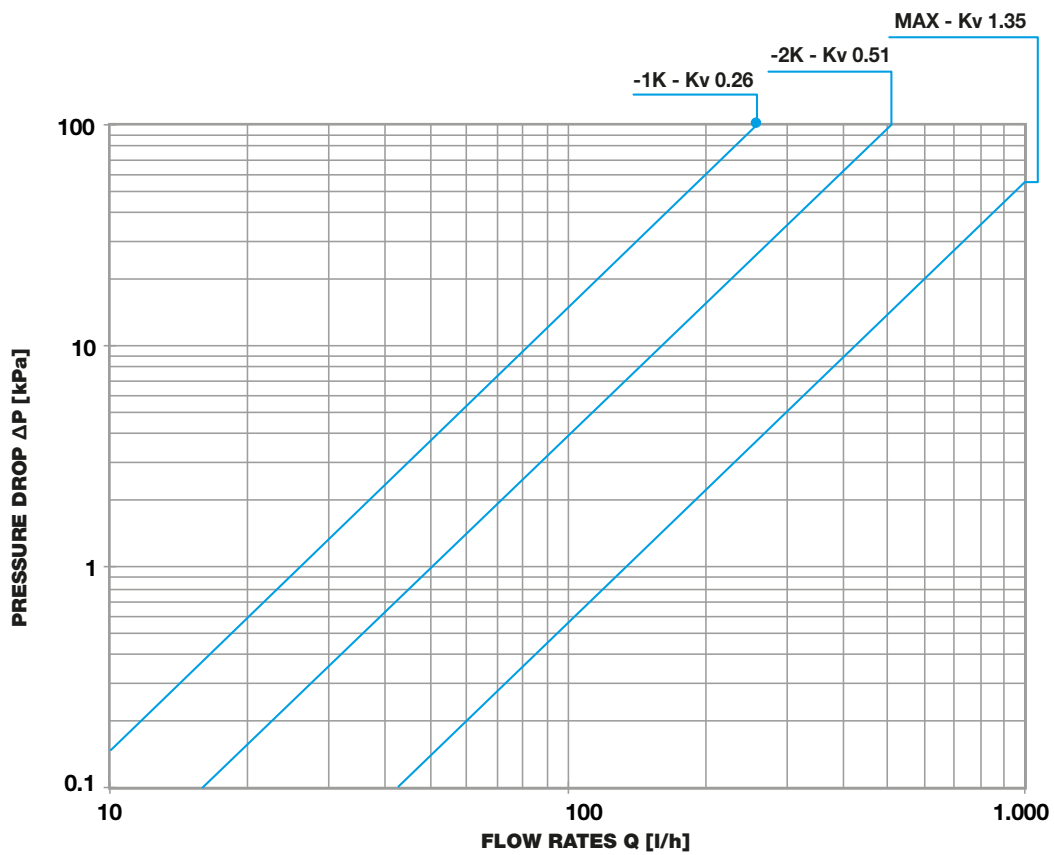
378-1378TRV38 - DN10

Kvs



378-1378TRV38 - DN10

Kv



**STRAIGHT THERMOSTATIC VALVES DN20**  
**FLOW RATES  $q_m$ -kv**

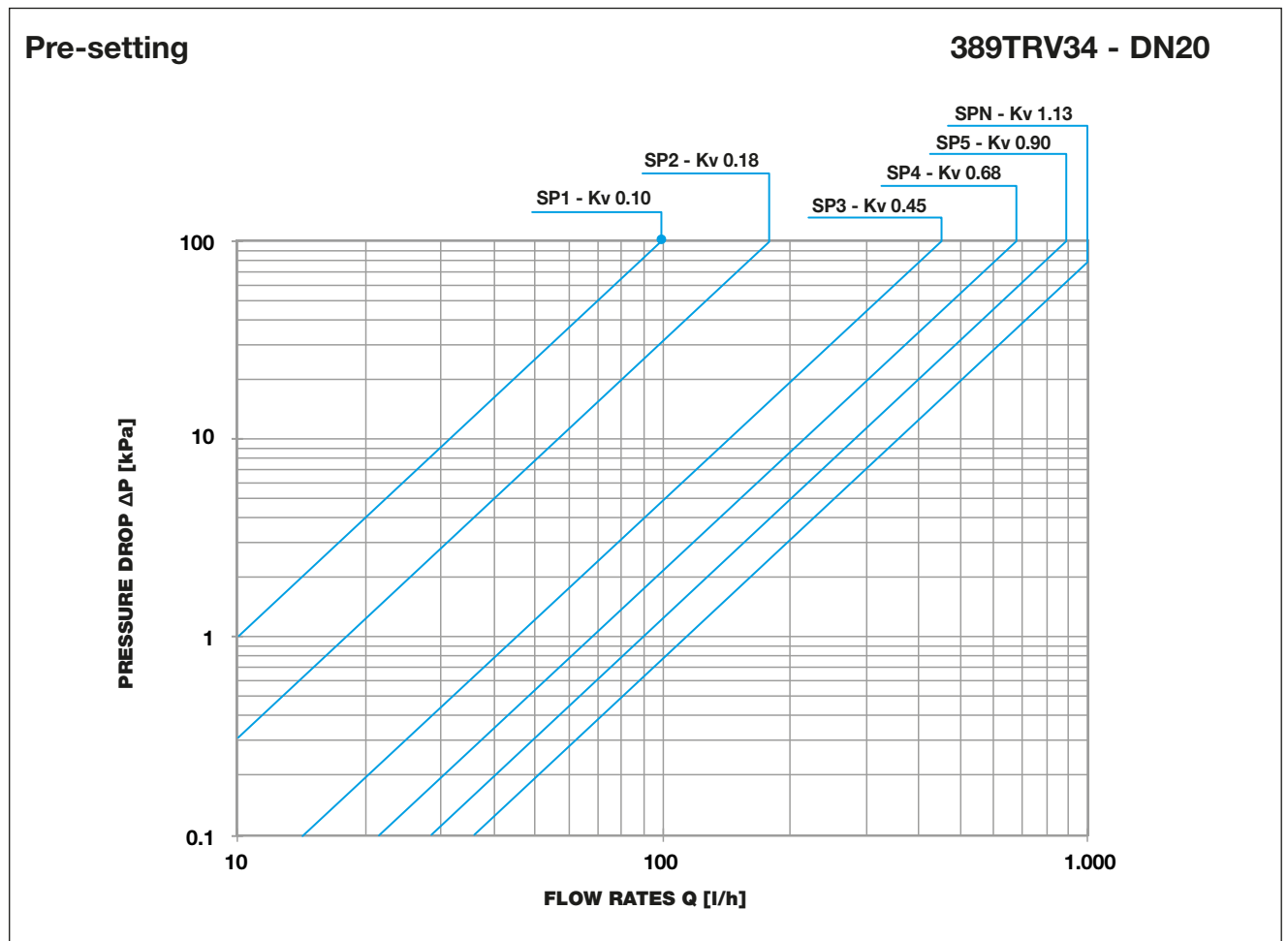
SERIES	TYPE	DN	Kv					Kvs	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
389TRV34	STR	20	0.10	0.18	0.45	0.68	0.90	1.13	-
379TRV34			-	-	-	-	-	-	1.35
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

SERIES	TYPE	DN	$q_{mS}$ -l/h					$q_{mN}$ -l/h	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
389TRV34	STR	20	26	50	96	116	157	162	-
379TRV34			-	-	-	-	-	-	160
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	

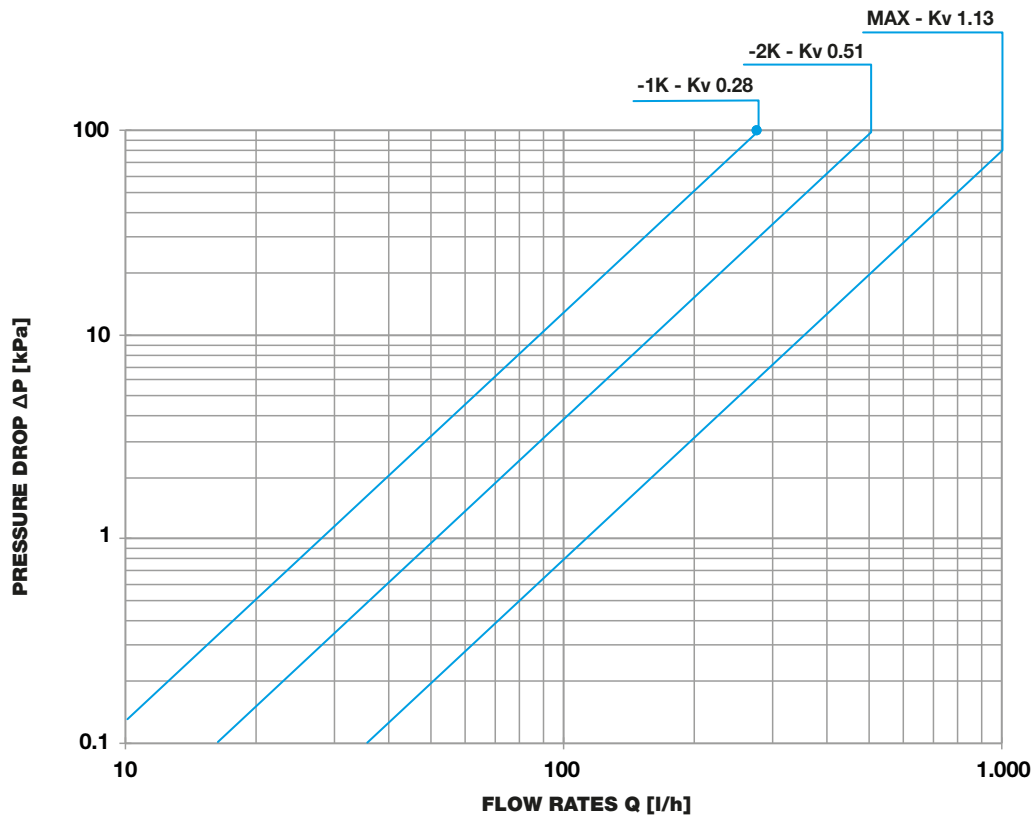
$q_{mS}$  = nominal flow rate in the pre-setting positions, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

$q_{mN}$  = maximum nominal flow rate, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$



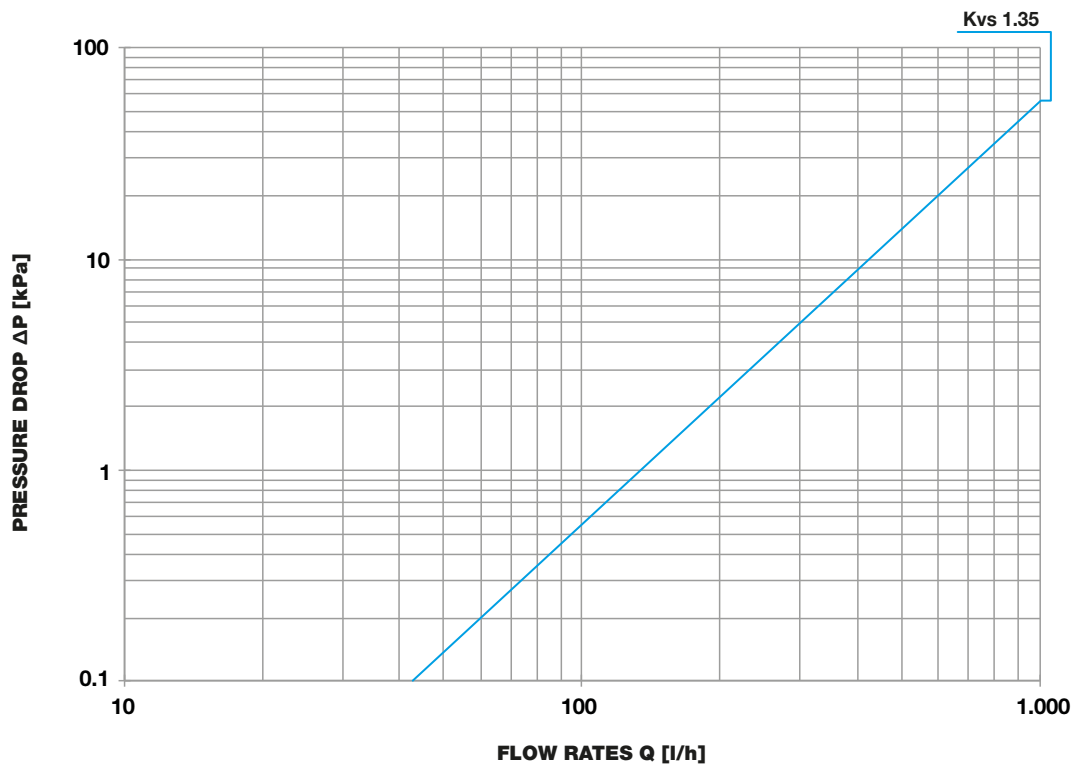
Pre-setting SP N

389TRV34 - DN20

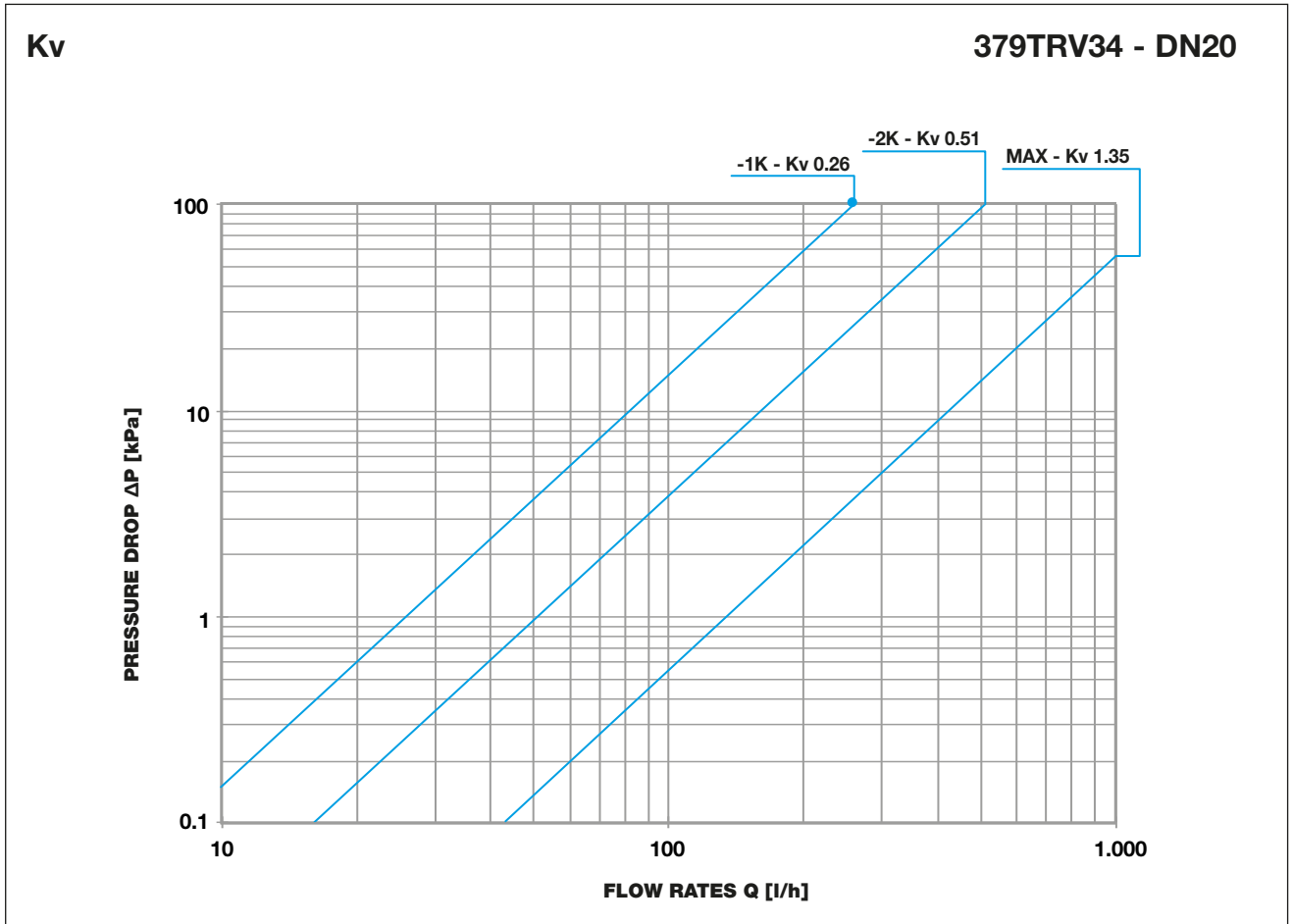


Kvs

379TRV34 - DN20







**RIGHT-ANGLE THERMOSTATIC VALVES DN20**

**FLOW RATES  $q_m$ -kv**

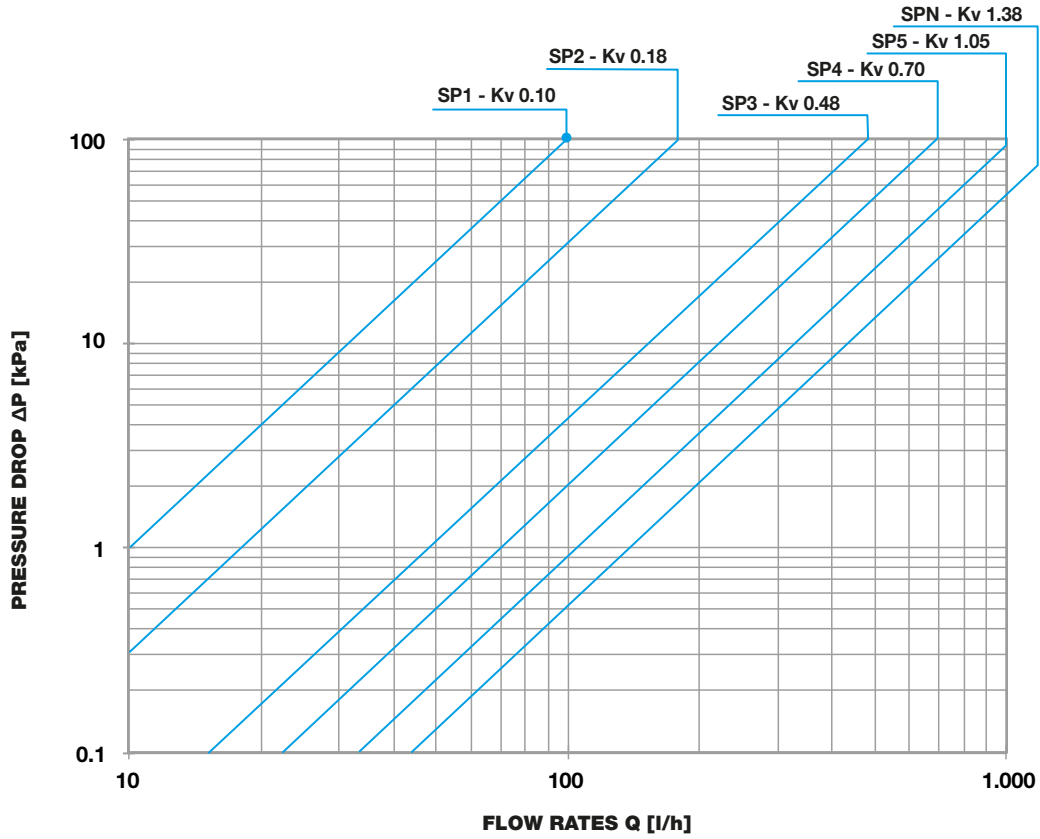
SERIES	TYPE	DN	Kv					Kvs	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
388TRV34	ANG	20	0.10	0.18	0.48	0.70	1.05	1.38	-
378TRV34			-	-	-	-	-	-	1.7
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%
SERIES	TYPE	DN	$q_{ms}$ -l/h					$q_{mN}$ -l/h	
			SP1	SP2	SP3	SP4	SP5	SPN	max.
388TRV34	ANG	20	26	52	96	122	162	170	-
378TRV34			-	-	-	-	-	-	170
Tolerance $\pm$			60%	30%	20%	10%	10%	10%	10%

$q_{ms}$  = nominal flow rate in the pre-setting positions, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

$q_{mN}$  = maximum nominal flow rate, with 148 and 148A Series thermostatic actuators, for a pressure differential of  $\Delta p=10\text{kPa}$

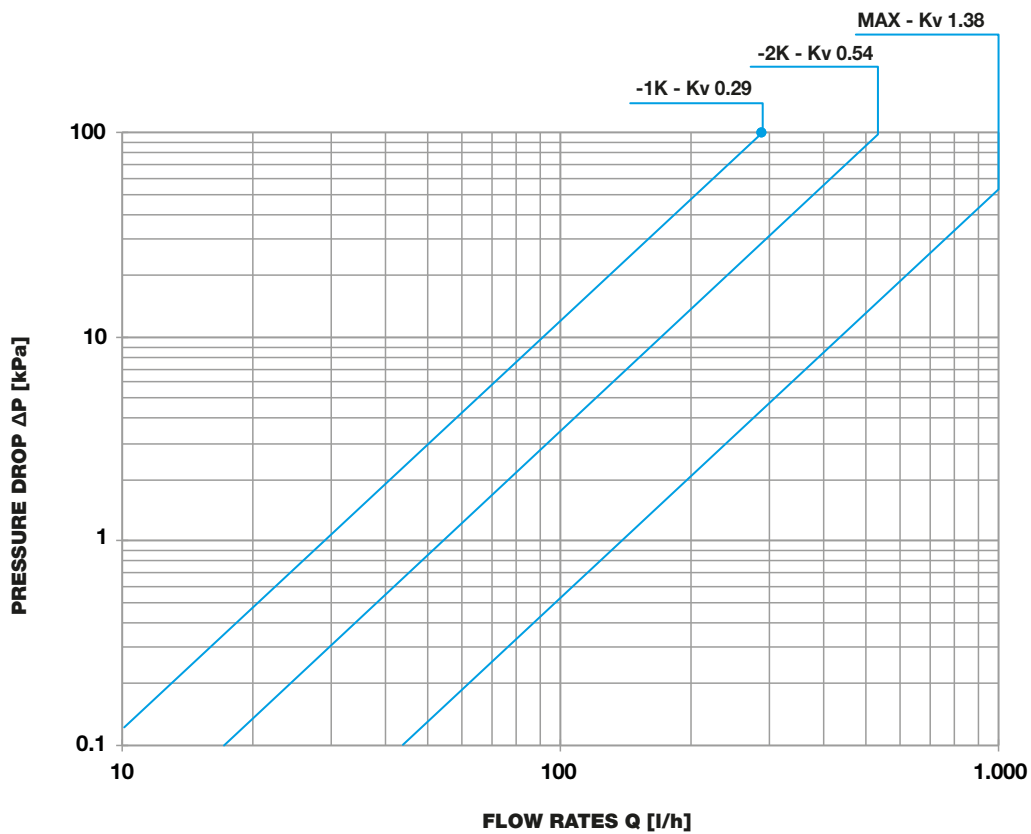
Pre-setting

388TRV34 - DN20



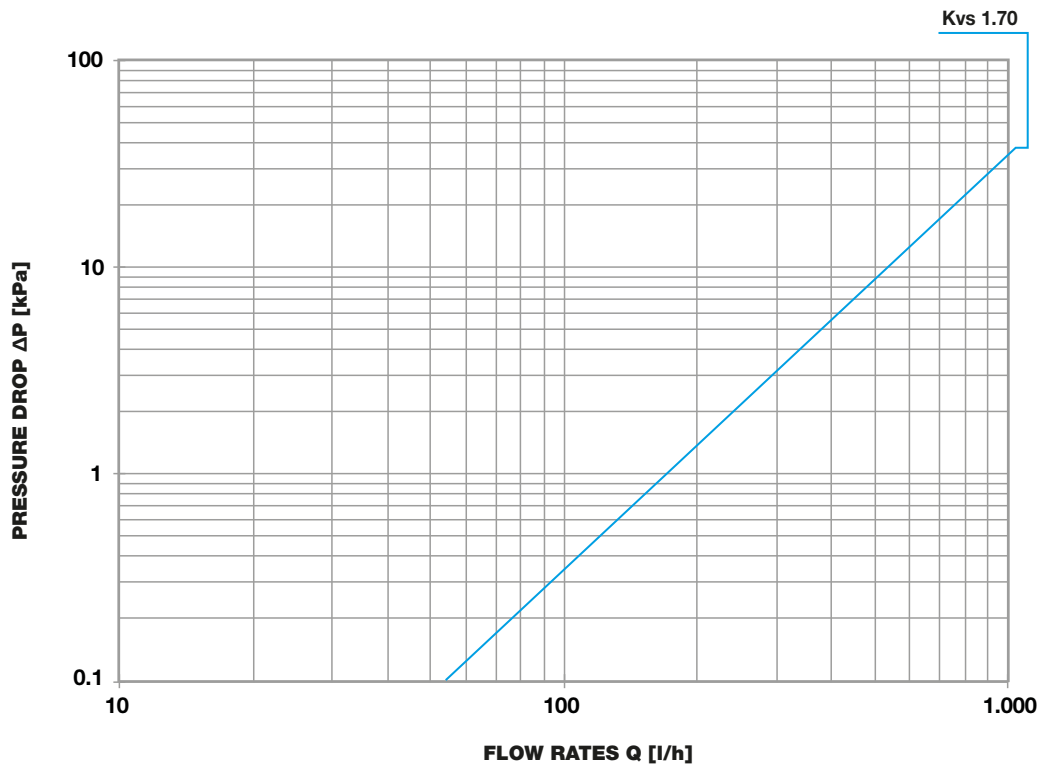
Pre-setting SP N

388TRV34 - DN20



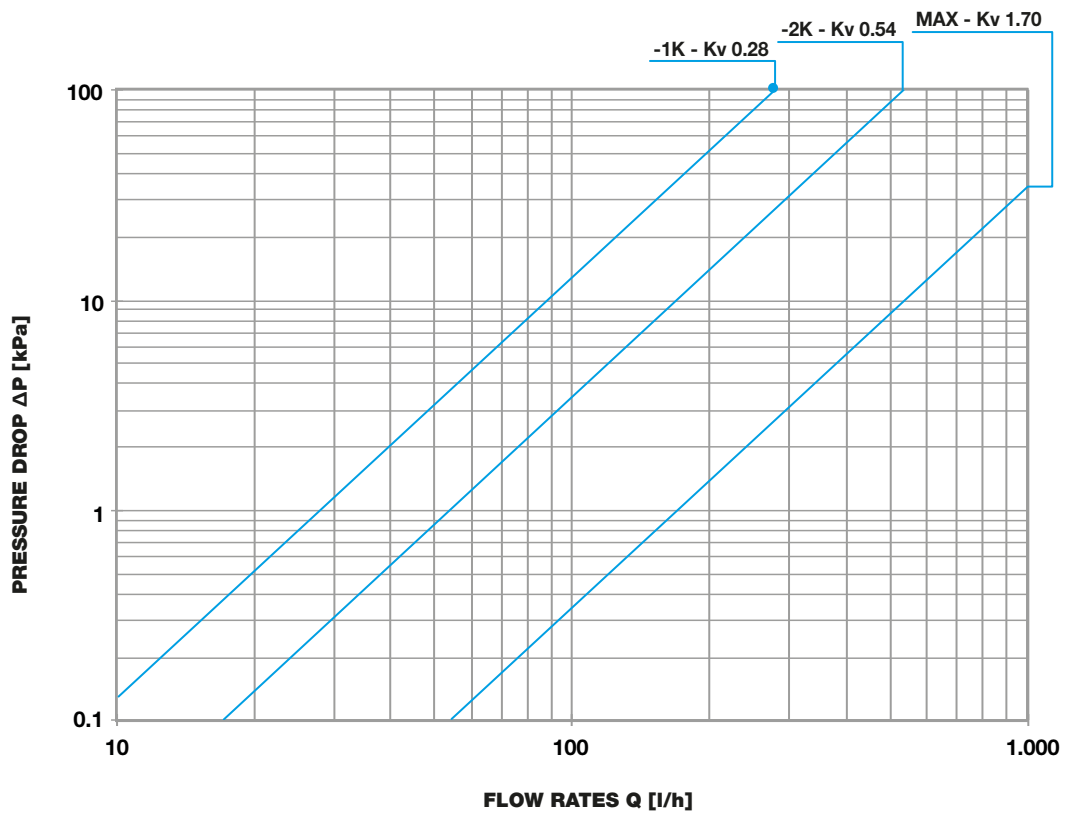
**Kvs**

**378TRV34 - DN20**



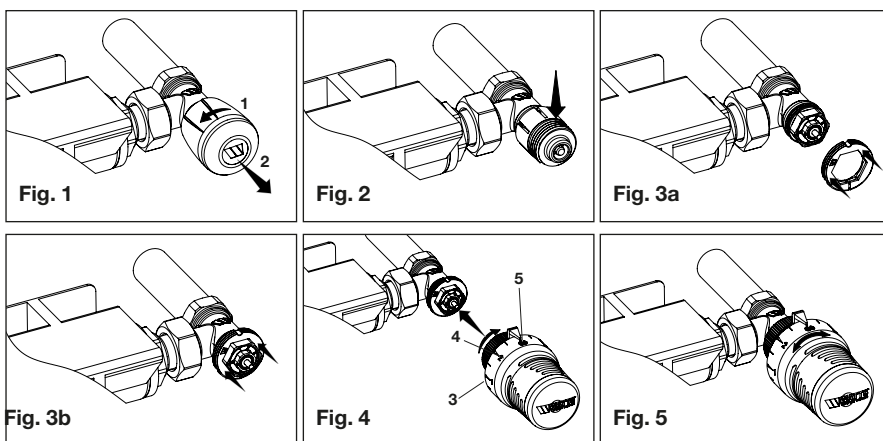
**Kv**

**378TRV34 - DN20**



## Installation

Valve and lockshield selection is based on the size of the connection to the radiator and the size of the connecting pipe. **378TRV, 379TRV, 1378TRV and 1379TRV Series** manual thermostat-adaptable valves **without pre-setting**, and **388TRV, 389TRV, 1388TRV and 1389TRV Series** thermostat-adaptable valves **with pre-setting** can be installed on heat emitters supplied by iron, copper or plastic pipes, in conjunction with **395TRV, 396TRV, 1395TRV and 1396TRV Series** lockshields. If you want to equip the system with temperature control, simply remove the control handwheel unit and replace it with a thermostatic or electrothermal actuator by installing the adapter (supplied with actuator 148A) and fastening it with the ring-nut on the adapter. All this can be done without any plumbing work and with the system running.



### Installing the thermostatic actuator

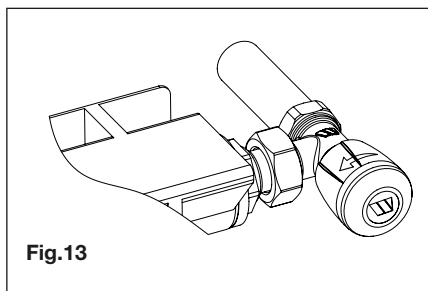
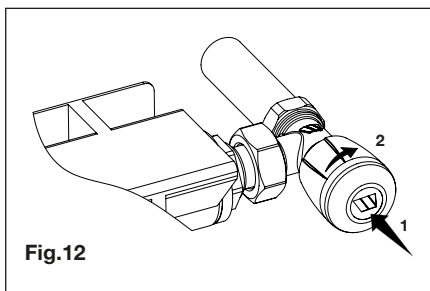
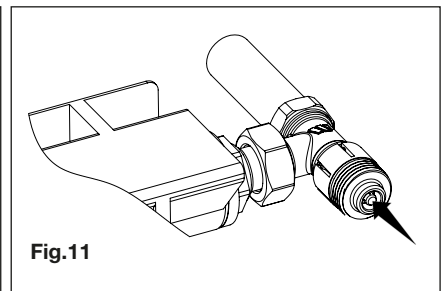
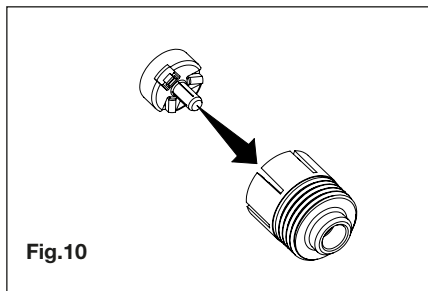
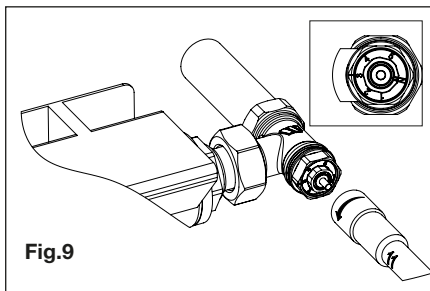
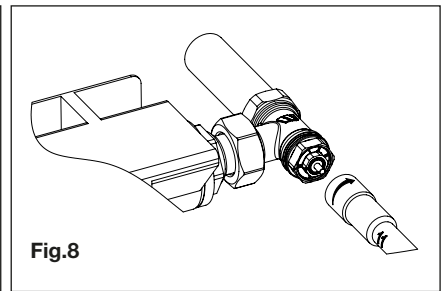
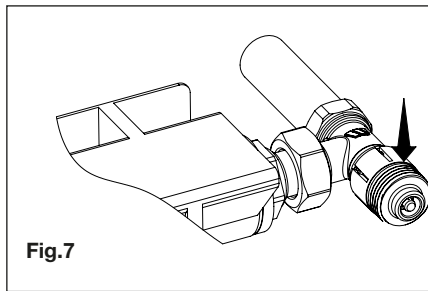
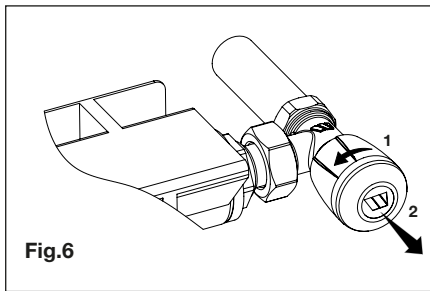
- 1 - Unscrew and remove the handwheel (Fig.1).
- 2 - Remove the snap-ring, releasing the teeth (Fig.2).
- 3 - Clip the supplied snap-adapter to the valve (Fig.3a - 3b).
- 4 - Fasten the actuator to the adapter with the ring-nut (Fig.4).
- 5 - Set the desired temperature by turning the thermostatic head to the corresponding position (Fig.5).

To ensure correct operation of thermostatic valves, the surrounding area must be free from obstructions (enclosures, curtains) that might prevent the thermostatic actuator from reading the room temperature correctly.



## Pre-setting for 388TRV, 389TRV, 1388TRV and 1389TRV Series

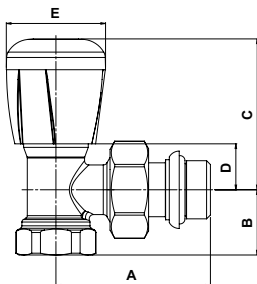
- Unscrew and remove the handwheel (Fig.6);
- Remove the snap-ring, releasing the teeth (Fig.7);
- Fully close the pre-setting ring-nut (manually or with a size 11 wrench) (Fig.8);
- Open to the desired position by lining up the number with the reference notch (Fig.9);
- Fit the clear insert in the snap-ring (Fig.10);
- Fasten the snap-ring (Fig.11);
- Fully tighten the handwheel (valve closed), by pressing it (Fig.12);
- Unscrew the handwheel to the desired point (Fig.13).



Kv values of the valve bodies only, in the various pre-setting positions						
Setting positions	388TRV12 1388TRV12	388TRV38 1388TRV38	388TRV34	389TRV12 1389TRV12	389TRV38 1389TRV38	389TRV34
N	1.32	1.25	1.38	1.00	0.90	1.13
5	1.02	1.00	1.05	0.82	0.75	0.90
4	0.70	0.70	0.70	0.62	0.60	0.68
3	0.48	0.48	0.48	0.45	0.45	0.45
2	0.18	0.18	0.18	0.18	0.18	0.18
1	0.10	0.10	0.10	0.10	0.10	0.10
Opening	388TRV12 1388TRV12	388TRV38 1388TRV38	388TRV34	389TRV12 1389TRV12	389TRV38 1389TRV38	389TRV34
Max	1.42	1.35	1.70	1.08	0.95	1.35

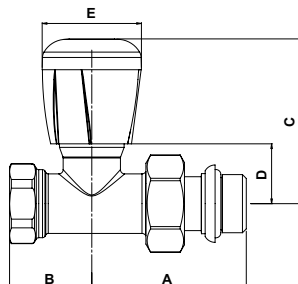
## Overall dimensions (mm)

### 378TRV



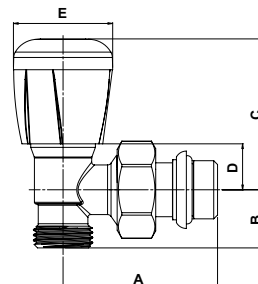
DN	A	B	C	D	E
3/8"	51	20	53	16	35
1/2"	55	23	53	16	35
3/4"	63	28	53	16	35

### 379TRV



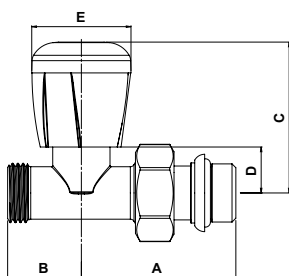
DN	A	B	C	D	E
3/8"	51	26	57	20	35
1/2"	55	29	57	20	35
3/4"	63	34	57	20	35

### 1378TRV



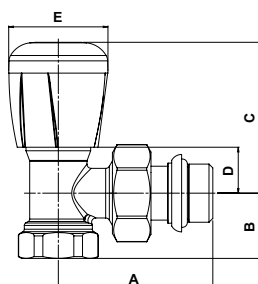
DN	A	B	C	D	E
1/2"x 3/8"	51	20,5	53	16	35
1/2"x 3/8"	49	20,5	53	16	35
M24(x1,5) x 3/8"	49	20,5	53	16	35
1/2"x 1/2"	55	20,5	53	16	35
1/2"x 1/2"	55	20,5	53	16	35
M24(x1,5) x 1/2"	55	20,5	53	16	35

### 1379TRV



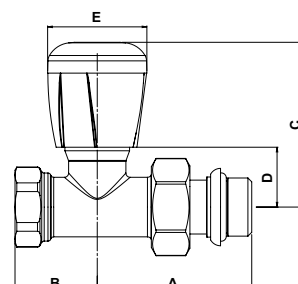
DN	A	B	C	D	E
1/2"x 3/8"	51	26	57	20	35
1/2"x 3/8"	49	26	57	20	35
M24(x1,5) x 3/8"	49	26	57	20	35
1/2"x 1/2"	55	26	57	20	35
1/2"x 1/2"	55	26	57	20	35
M24(x1,5) x 1/2"	55	26	57	20	35

### 388TRV



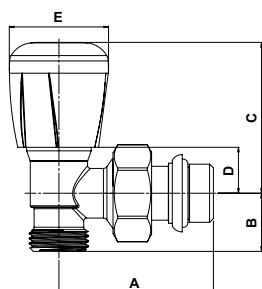
DN	A	B	C	D	E
3/8"	51	20	53	16	35
1/2"	55	23	53	16	35
3/4"	63	28	53	16	35

### 389TRV



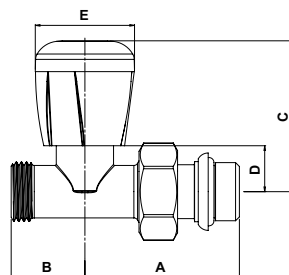
DN	A	B	C	D	E
3/8"	51	26	57	20	35
1/2"	55	29	57	20	35
3/4"	63	34	57	20	35

### 1388TRV



DN	A	B	C	D	E
1/2"x 3/8"	51	20,5	53	16	35
1/2"x 3/8"	49	20,5	53	16	35
M24(x1,5) x 3/8"	49	20,5	53	16	35
1/2"x 1/2"	55	20,5	53	16	35
1/2"x 1/2"	55	20,5	53	16	35
M24(x1,5) x 1/2"	55	20,5	53	16	35

### 1389TRV



DN	A	B	C	D	E
1/2"x 3/8"	51	26	57	20	35
1/2"x 3/8"	49	26	58	21	35
M24(x1,5) x 3/8"	49	26	58	21	35
1/2"x 1/2"	55	26	57	20	35
1/2"x 1/2"	55	26	58	21	35
M24(x1,5) x 1/2"	55	26	58	21	35

## Specification text

**Series 378TRV** - Thermostat-adaptable valve without pre-setting **Series 378TRV**, WATTS brand. Right-angle body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-Ring and finishing washer. Max. operating temperature: 110°C. Maximum operating pressure: 10 bar. Connection for iron pipe: 3/8"F-1/2"F-3/4"F. Kvs: 1.30 (3/8"), 1.40 (1/2"), 1.45 (3/4"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 379TRV** - Thermostat-adaptable valve without pre-setting **Series 379TRV**, WATTS brand. Straight body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-Ring and finishing washer. Max. operating temperature: 110°C. Maximum operating pressure: 10 bar. Connection for iron pipe: 3/8"F-1/2"F-3/4"F. Kvs: 1.00 (3/8"), 1.10 (1/2"), 1.15 (3/4"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 1378TRV** - Thermostat-adaptable valve without pre-setting **Series 1378TRV**, WATTS brand. Right-angle body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-Ring and finishing washer. Maximum operating temperature: 110°C. Maximum operating pressure: 10 bar. Body connection: 3/8"M-1/2"M. Connection for copper or plastic/multi-layer pipe: 1/2"M and M24x1,5. Kvs: 1.30 (3/8"), 1.40 (1/2"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 1379TRV** - Thermostat-adaptable valve without pre-setting **Series 1379TRV**, WATTS brand. Straight body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-Ring and finishing washer. Maximum operating temperature: 110°C. Maximum operating pressure: 10 bar. Body connection: 3/8"M-1/2"M. Connection for copper or plastic/multi-layer pipe: 1/2"M and M24x1,5. Kvs: 1.00 (3/8"), 1.10 (1/2"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 388TRV** - Thermostat-adaptable valve with pre-setting **Series 388TRV**, WATTS brand. Right-angle body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-Ring and finishing washer. Maximum operating temperature: 110°C. Maximum operating pressure: 10 bar. Connection for iron pipe: 3/8"F-1/2"F-3/4"F. Kvs: 1.30 (3/8"), 1.40 (1/2"), 1.45 (3/4"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 389TRV** - Thermostat-adaptable valve with pre-setting **Series 389TRV**, WATTS brand. Straight body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-ring and finishing washer. Max. operating temperature: 110°C. Maximum operating pressure: 10 bar. Connection for iron pipe: 3/8"F-1/2"F-3/4"F. Kvs: 1.0 (3/8"), 1.10 (1/2"), 1.15 (3/4"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 1388TRV** – Thermostat-adaptable valve with pre-setting **Series 1388TRV**, WATTS brand. Right-angle body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-Ring and finishing washer. Maximum operating temperature: 110°C. Maximum operating pressure: 10 bar. Body connection: 3/8"M-1/2"M. Connection for copper or plastic/multi-layer pipe: 1/2"M and M24x1,5. Kvs: 1.30 (3/8"), 1.40 (1/2"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.

**Series 1389TRV** – Thermostat-adaptable valve with pre-setting **Series 1389TRV**, WATTS brand. Straight body in pressed nickel-plated brass. Disc assembly can be replaced without draining the system, with EPDM seal. Manual ABS handwheel with moving stem. Straight tailpiece with O-ring and finishing washer. Max. operating temperature: 110°C. Maximum operating pressure: 10 bar. Body connection: 3/8"M-1/2"M. Connection for copper or plastic/multi-layer pipe: 1/2"M and M24x1,5. Kvs: 1.00 (3/8"), 1.10 (1/2"). Compatible with **148,148A,148SD and 148CD Series** thermostatic actuators with liquid-filled elements, and **22C, 22CX, 22CX5 and 26LC Series** electrothermal actuators. No special tools are required for assembly, which can be undertaken with the system running.



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