

# Metering Stations PN 25 / PN 16

made of brass, cast iron or stainless steel  
DN 15...800



Metering stations are installed in the pipelines of hot water central heating systems as well as cooling systems and enable the hydronic balancing of the pipelines with each other. It can be used both in the supply and the return pipe. They are installed either upstream or downstream of a double regulating valve or a shutoff valve or a butterfly valve. In conjunction with Oventrop valves, they can be installed tightly coupled to a double regulating valve or shutoff valve to form a complete set.

Balancing of the pipeline is done by adjusting the double regulating valve during pressure loss measurement at the metering station. This means that the change in flow rate values is independent of the presetting values of the valve, so that the flow rate can be read directly when the presetting is changed. For example, when using the Oventrop OV-DMC 3 measuring system.

Metering stations are available in threaded or intermediate flange versions and are equipped with Classic measuring valves.

## Features

- + Ease of use
- + Flow determination by differential pressure measurement
- + Flow characteristic lines stored in the Oventrop OV-DMC 3 measuring system



# Product Details

## Metering Stations PN 25, DN 15...50

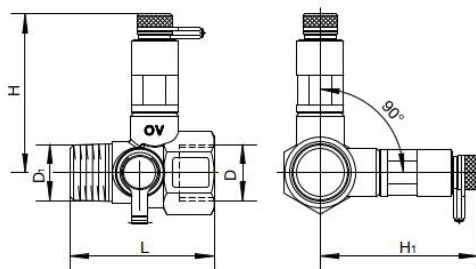
made of brass with internal thread/external thread according to EN 10226

### Technical Data

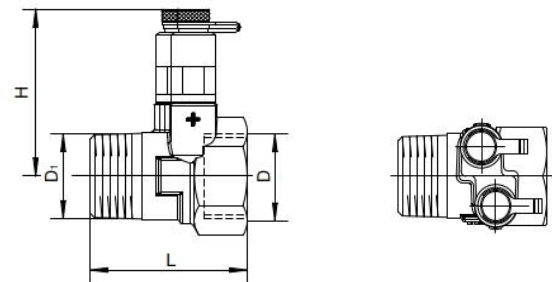
Nominal sizes	DN 15...50
Operating temperature	-20...150 °C
Operating pressure	25 bar / PN 25
Medium	Heating or cooling water according to VDI 2035 or ÖNORM 5195 Water-glycol mixture with max. 50 % glycol content
Kvs values	0.55...48



### Dimensions and Item Numbers



DN 15...20

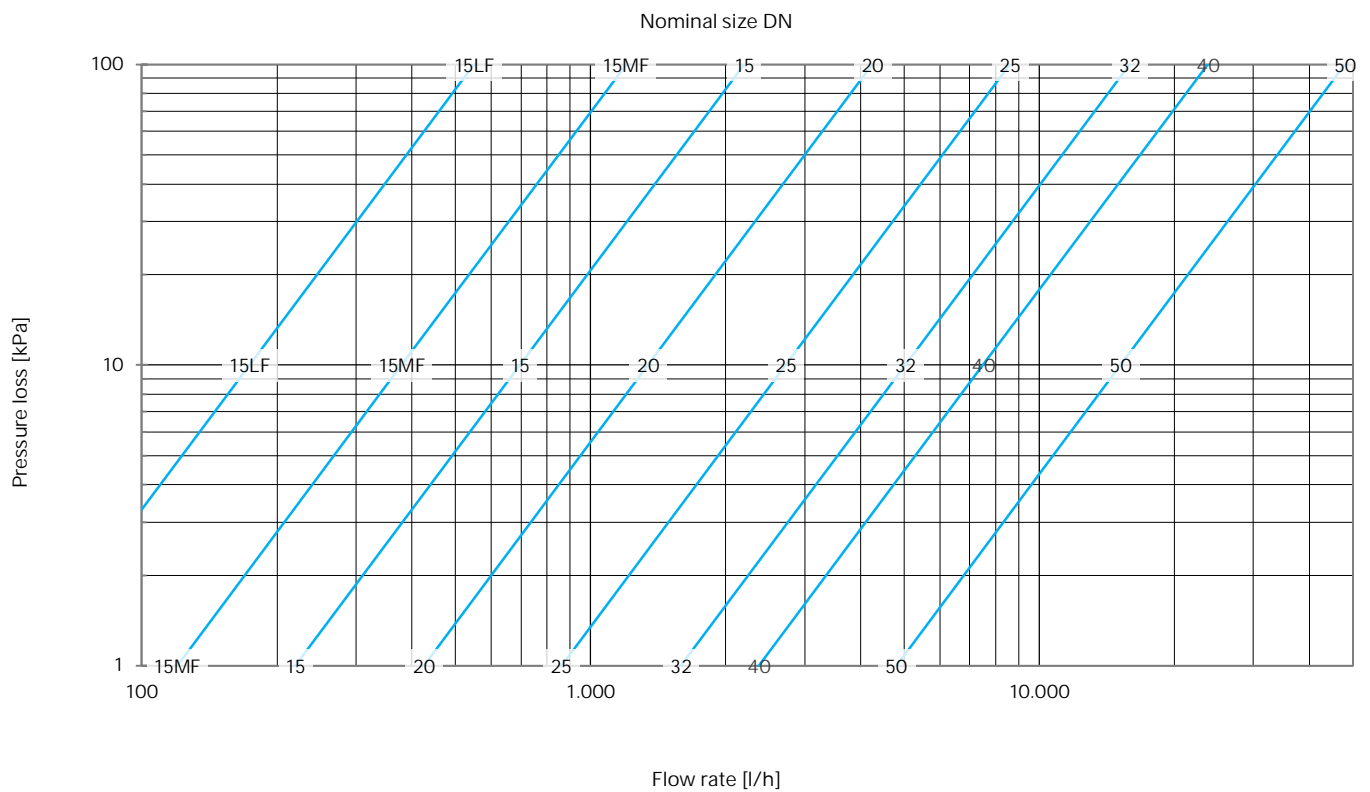


DN 25...50

DN	Kvs	D	D1	L	H	H1	Item No.
15 LF	0.55	Rp ½	R ½	54	60	60	1060644
15 MF	1.20	Rp ½	R ½	54	60	60	1060634
15	2.20	Rp ½	R ½	54	60	60	1060604
20	4.25	Rp ¾	R ¾	55	62	62	1060606
25	8.60	Rp 1	R 1	62	66	—	1060608
32	15.9	Rp 1 ¼	R 1 ¼	69	70.5	—	1060610
40	23.7	Rp 1 ½	R 1 ½	69	76	—	1060612
50	48.0	Rp 2	R 2	80	81	—	1060616

Metering stations PN 25, DN 15...50 made of brass with internal thread/external thread according to EN 10226

## Flow chart



## Kvs values

Nominal size	DN 15 LF	DN 15 MF	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
Kvs value	0.55	1.20	2.20	4.25	8.60	15.9	23.7	48.0

# Metering stations PN 16, DN 65...800

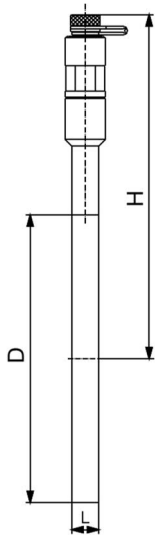
made of stainless steel for flanges according to EN 1092 PN 16

## Technical Data

Nominal sizes	DN 65...800
Operating temperature	-20...150 °C
Operating pressure	16 bar / PN 16
Medium	Heating or cooling water according to VDI 2035 or ÖNORM 5195 Water-glycol mixtures with max. 50 % glycol content
Kvs values	102...14,000



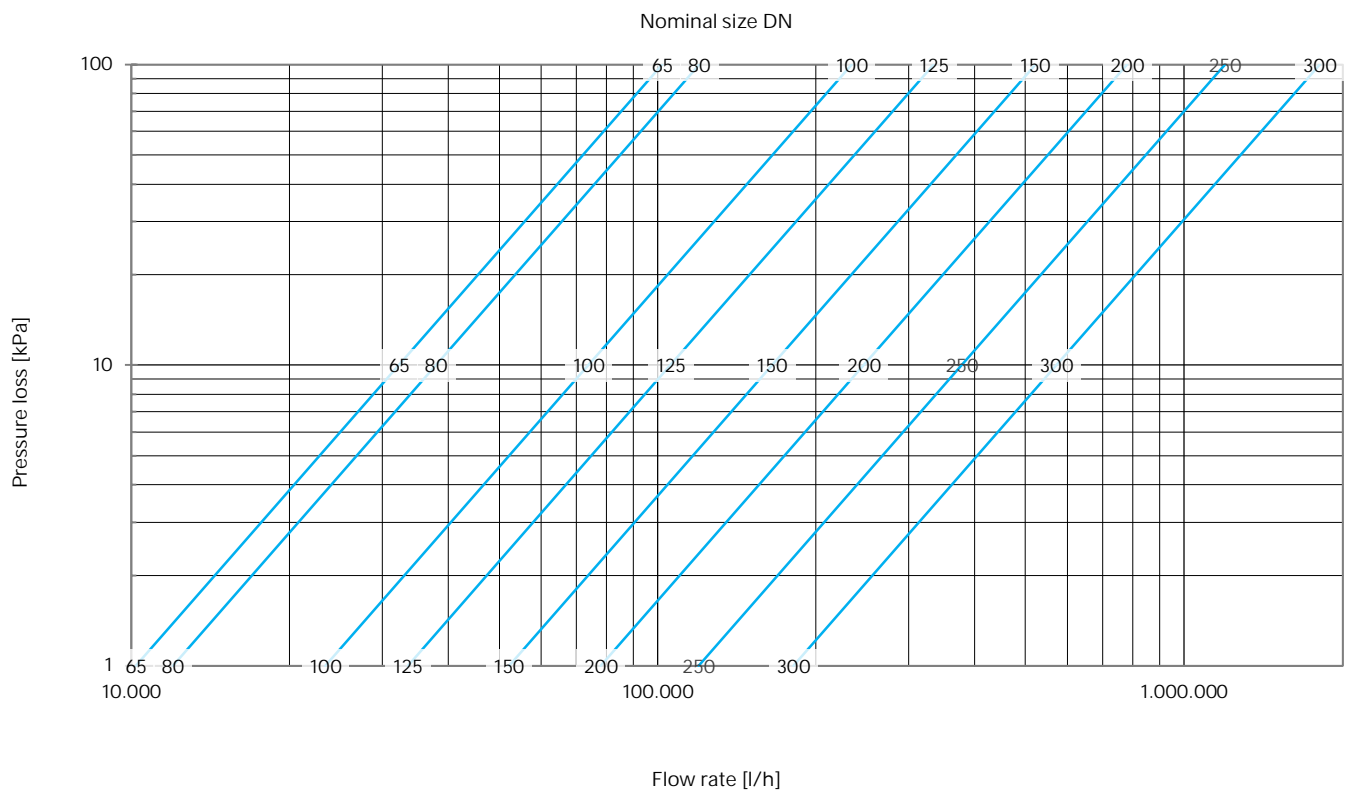
## Dimensions and Item Numbers



DN	Kvs	L	D	H	Item no.
<b>65</b>	102	12	127	201	1060751
<b>80</b>	120	12	142	208	1060752
<b>100</b>	234	12	162	218	1060753
<b>125</b>	335	12	192	233	1060754
<b>150</b>	522	12	218	246	1060755
<b>200</b>	780	12	273	274	1060756
<b>250</b>	1,197	12	329	302	1060757
<b>300</b>	1,810	12	384	330	1060758
<b>350</b>	2,050	12	444	409	1060759
<b>400</b>	2,650	12	495	435	1060760
<b>450</b>	3,400	12	555	465	1060761
<b>500</b>	4,200	12	617	496	1060762
<b>600</b>	6,250	12	734	554	1060763
<b>700</b>	10,690	12	804	590	1060764
<b>800</b>	14,000	12	911	643	1060765

Metering stations PN 16, DN 65...800 made of stainless steel for flanges according to EN 1092 PN 16

Flow chart DN 65...300

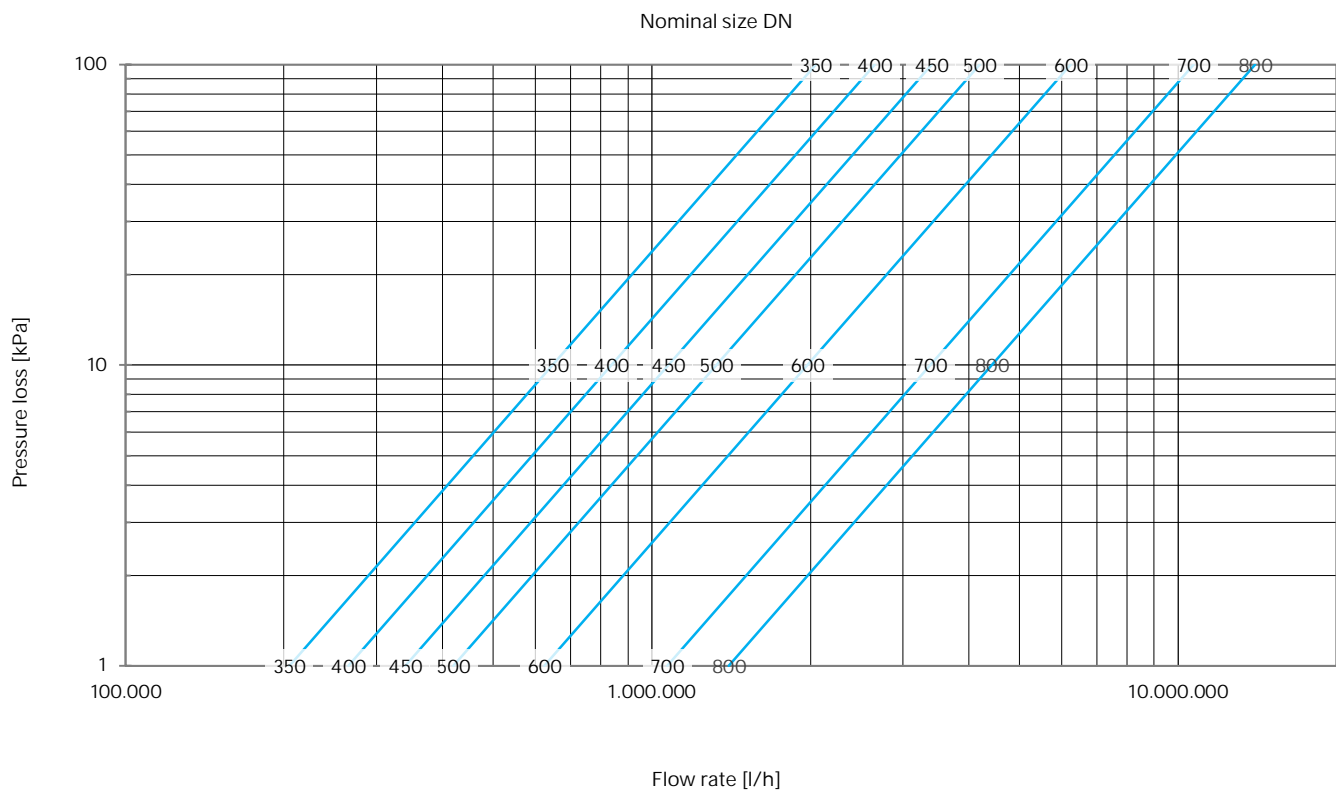


Kvs values DN 65...300

Nominal size	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
Kvs value	102	120	234	335	522	780	1,197	1,810

Metering stations PN 16, DN 65...800 made of stainless steel for flanges according to EN 1092 PN 16

Flow chart DN 350...800



Kvs values DN 350...800

Nominal size	DN 350	DN 400	DN 450	DN 500	DN 600	DN 700	DN 800
Kvs value	2,050	2,650	3,400	4,200	6,250	10,690	14,000

# Metering stations PN 16, DN 65...300

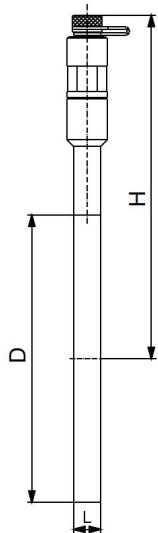
made of cast iron for flanges according to EN 1092 PN 16

## Technical Data

Nominal sizes	DN 65...300
Operating temperature	-10...120 °C
Operating pressure	16 bar / PN 16
Medium	Heating and cooling water according to VDI 2035 or ÖNORM 5195 Water-glycol mixtures with max. 50 % glycol content
Kvs values	93...2,400



## Dimensions and Item Numbers



DN	Kvs	L	D	H	Item no.
<b>65</b>	93	20	127	127	1060771
<b>80</b>	126	20	142	134	1060772
<b>100</b>	244	20	162	144	1060773
<b>125</b>	415	20	192	159	1060774
<b>150</b>	540	20	218	172	1060775
<b>200</b>	1,020	20	273	200	1060776
<b>250</b>	1,450	20	329	228	1060777
<b>300</b>	2,400	20	384	255	1060778

## Measuring valves with extension

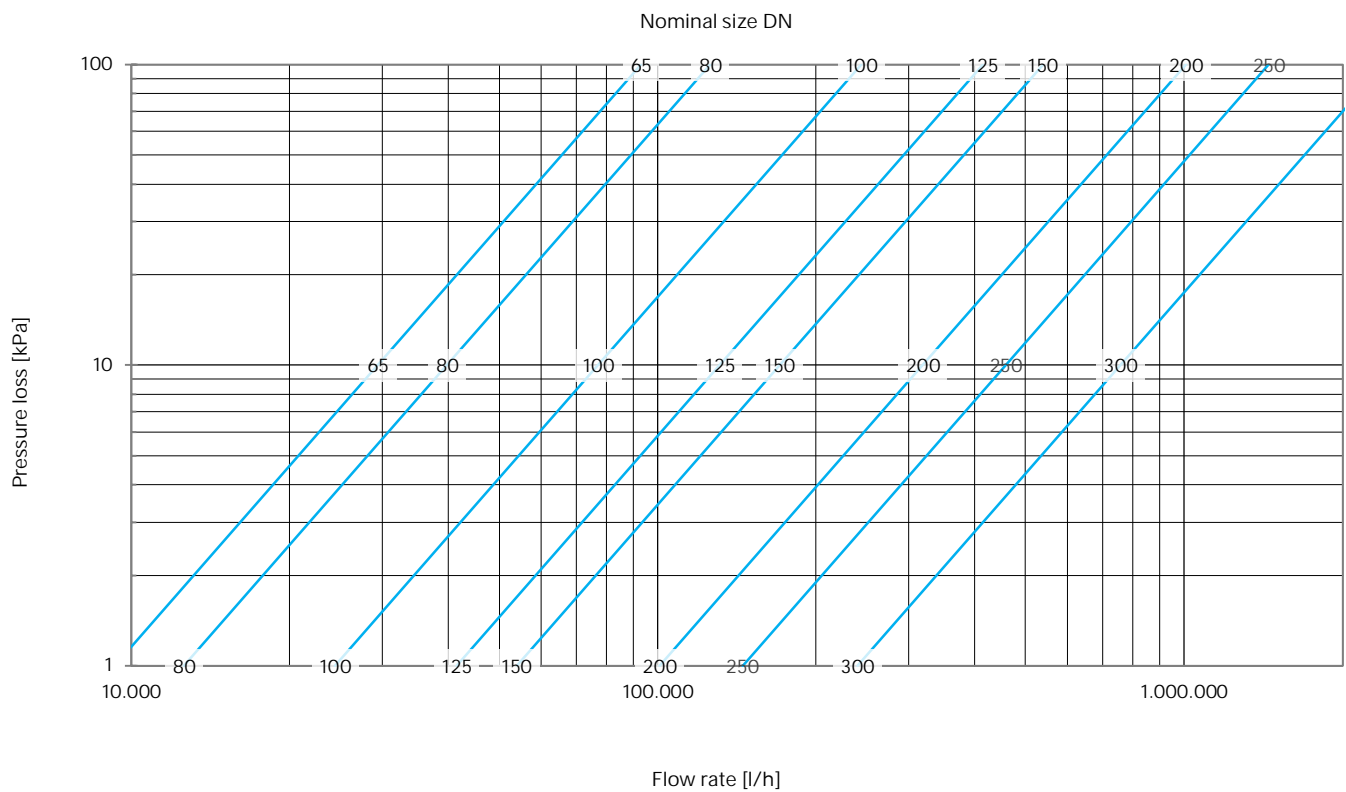


2 measuring valves G 1/4 with extension for cast iron metering stations for intermediate flanges

Length	Suitable for	Item no.
L = 80 mm	Item no. 1060771...78	1688291

## Metering stations PN 16, DN 65...300 made of cast iron for flanges according to EN 1092 PN 16

## Flow chart



## Kvs values

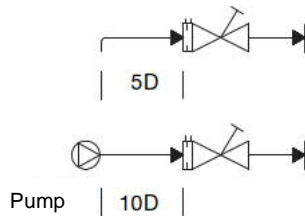
Nominal size	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300
Kvs value	93	126	244	415	540	1,010	1,450	2,400



## Installation instructions

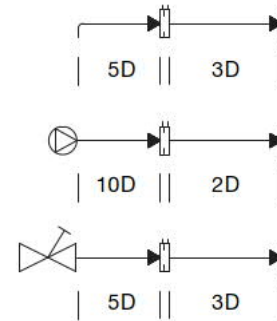
We recommend installing a straight pipe with a minimum length of 5 times the diameter at the inlet of the metering station without any other elements between the metering station and the downstream fitting. When installing, ensure that the metering stations are aligned centrally to the adjacent flange axes.

### Calming sections



D = Inner pipe diameter

Recommended calming sections for installation directly upstream of an Oventrop double regulating valve



Recommended calming sections for installation upstream of other components

## Accessories

### OV-DMC 3



System for flow measurement at valves and for regulation of heating and cooling systems. For use with all Oventrop products equipped with Classic or Eco measuring valves or HydroPort auxiliary valves: HydroControl, HydroCom, Cocon, Hycoccon and metering stations.

With interfaces for communication with commercially available smartphones and tablets using the Oventrop app for convenient measuring and logging. The data determined with the OVplan and OVselect calculation programmes can be accessed.

After entering the valve data and the desired flow rate, a calculation of the presetting for Oventrop double regulating valves is possible. The permanent recording of differential pressure and flow rate is also possible. The optional connection of two temperature sensors, for example for supply and return, enables direct performance calculation. The OV-DMC 3 is supplied in a sturdy case with all necessary adapters for connection to Oventrop valves.

Smartphone or tablet are not included in the scope of delivery.

Suitable for

All variants, all nominal sizes

Item no.

1069278

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