

# DA 516, DAF 516



**Differential pressure controllers**  
Adjustable set-point



Engineering  
**GREAT** Solutions

# DA 516, DAF 516

These compact differential pressure controllers for heating and cooling systems are particularly effective in situations requiring high temperatures and/or pressure drop. They can be used both on the primary and secondary side in district heating and comfort cooling systems. Rust protection is assured thanks to the electrophoretically painted ductile iron body.



## Key features

- > **Inline design**  
Inline flow allows high pressure drops without noise.
- > **Adjustable set-point**  
Delivers desired differential pressure ensuring accurate balancing.
- > **Measuring point**  
Simplifies the balancing procedure, increases its accuracy and enables troubleshooting.

## Technical description

### Application:

Heating and cooling systems with variable flow.

DA 516: Installation in return pipe.

DAF 516: Installation in supply pipe.

### Functions:

Differential pressure control over the load.

### Dimensions:

DN 15-150

### Pressure class:

PN 25

DN 100-150: PN 16 and PN 25

### Max. differential pressure ( $\Delta p_V$ ):

1600 kPa = 16 bar

### Setting range:

*$\Delta p$  over the load is adjustable within:*

DN 15-125: 5-30 kPa, 10-60 kPa,

10-100 kPa or 60-150 kPa.

DN 150: 5-30 kPa, 10-60 kPa, 10-100 kPa, 60-150 kPa or 100-400 kPa.

*Delivery setting:*

DN 15-50: Maximum value (30, 60, 100 resp. 150 kPa).

DN 65-125: Midway min./max. value (~18, ~35, ~55, resp. ~105 kPa).

DN 150: Minimum value (5, 10, 10, 60 resp. 100 kPa).

### Temperature:

Max. working temperature:

- with measuring points: 120°C

- without measuring points: 150°C

Min. working temperature: -10°C

### Media:

Water and neutral fluids, water-glycol mixtures.

### Material:

Valve body: Ductile iron EN-GJS-400

Diaphragms and gaskets: EPDM

Adjustment ring: DN 15-50 Ryton PPS,

DN 65-125 R St 37-2 steel. (DN 150 has no adjustment ring)

### Surface treatment:

Electrophoretic painting.

### Marking:

TA, DN, PN, Material, Kvs,  $\Delta p$  and flow direction arrow.

### Threads:

DN 15-50: According to ISO 228.

### Flanges:

DN 15-50: According to EN-1092-2:1997, type 16.

DN 65-150: According to EN-1092-2:1997, type 21.

## Operating function

### DA 516 (DN 15-125)

The pressure upstream of the load acts through an external capillary pipe ( $\Delta p+$ ) on the plus side of the diaphragm (1) and attempts to close the valve.

The pressure downstream of the load acts via an internal capillary pipe in the valve body and attempts, together with the spring (3) force, to open the valve. In this way, the differential pressure over the load is kept constant on the set value.

The spring force can be adjusted by turning the adjustment ring (5). Adjustment can be fixed by tightening the fixing screw (4).

### DN 150

Valve DN 150 is a pilot controlled valve. It consists of a diaphragm and spring actuated inline main valve (3), an adjustable built-in two way differential pressure controlling pilot valve (7) and a built-in throttle (4). Various chambers in the main valve and pilot valve are interconnected with internal channels.

The main spring (2) opens the main valve, while differential pressure on the main diaphragm (1) closes it. The pilot spring (8) closes the pilot valve, while differential pressure on the pilot piston (9) opens it. The pilot valve reacts to sensed changes in controlled differential pressure ( $\Delta p$ ). By turning the adjustment

screw (6), force of the pilot spring is changed and the preset value of  $\Delta p$  is adjusted.

If  $\Delta p$  is equal to the preset value, both pilot and main valve are in equilibrium and stationary.

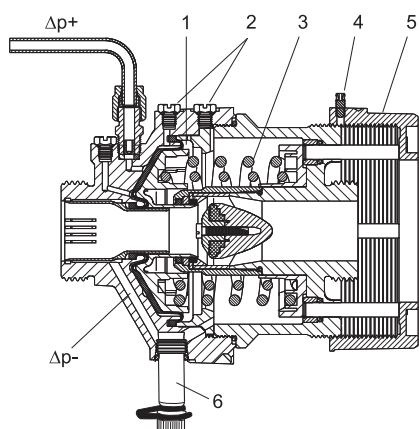
If  $\Delta p$  is higher than preset value, the pilot valve opens and increases the flow in bypass line (5). Increased bypass flow results in increased pressure drop on the throttle (4). This increased pressure drop on the throttle is led via internal channels onto the main diaphragm (1) and causes the main valve (3) to close. Flow in the main line decreases, and brings  $\Delta p$  back down to the preset value.

If  $\Delta p$  decreases, the pilot valve closes and decreases the flow in bypass line (5). Pressure drop on the throttle (4) decreases, so differential pressure on the main diaphragm (1) decreases and main valve (3) opens to bring  $\Delta p$  back up to the preset value.

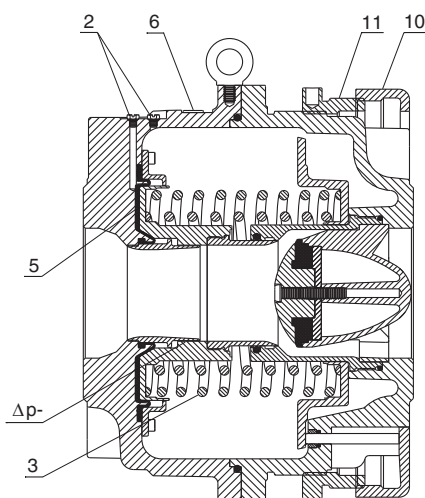
### DAF 516

Installation in the supply pipe. Function is the same as for DA 516, except that the pressure downstream the load acts through the another external copper impulse pipe ( $\Delta p-$ ) to the minus side of the diaphragm.

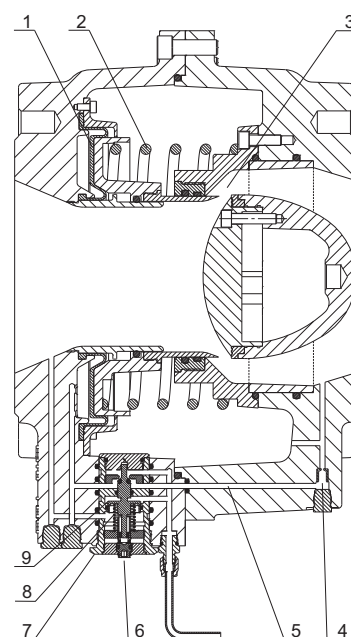
DN 15-50



DN 65-125



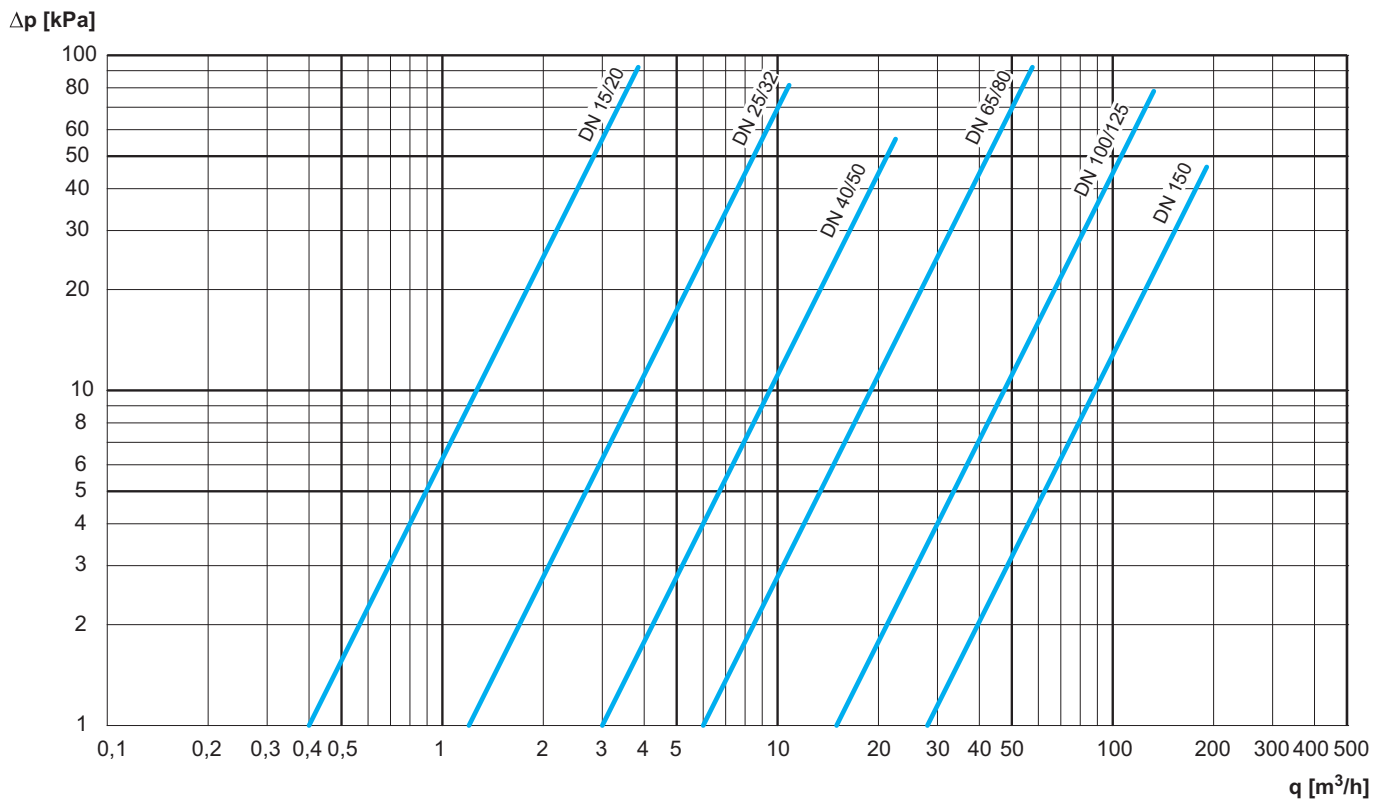
DN 150



## Sizing

1. Select the smallest size for the designed flow according to the diagram.
2. Check that the available  $\Delta p$  is bigger than the pressure drop of the valve at the designed flow.  
The pressure drop can be found in the diagram or calculated by the formula:

$$\Delta p = \left( \frac{q}{100 \times Kvs} \right)^2 \quad [\text{kPa, l/h}]$$





## Installation

### IMPORTANT: The valve body must not be disassembled.

By incorrect handling, the controller may not work properly and safety problems may occur.

The **DA 516** must be installed in the return pipe. The **DAF 516** can also be installed in the supply pipe. Flow direction is shown by the arrow (11) on the valve's identification plate (10). The best position is horizontal with the venting screws (2) pointing upwards. Installation of a strainer upstream of the valve is recommended.

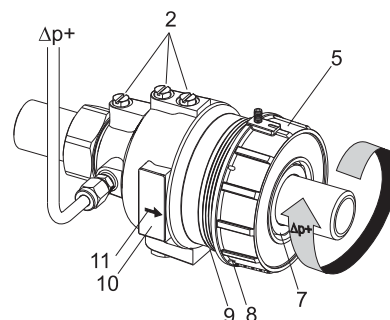
Connect capillary pipe ( $\Delta p+$ , copper  $\text{Ø}6 \times 1$ ), to the pipeline upstream of the load. In case of DAF 516, connect another capillary pipe downstream the load.

In case of a horizontal pipeline connect the capillary pipe laterally to prevent air and dirt from entering. When filling, vent the body by using the venting screws (2).

When welding the connections, the valve must be protected from too high a temperature.

In case of valves DN 15-50, turn the adjustment ring (5) clockwise until stop to make the nut (7) on the outlet side accessible.

If measuring point is mounted on the DA 516, the differential pressure over the load can be measured by using our measuring or balancing instruments.



### Capillary pipe

Before putting into operation, the capillary pipe must be installed. The other end of the capillary pipe is connected to the balancing valve STAD/STAF or other suitable point on the pipeline.

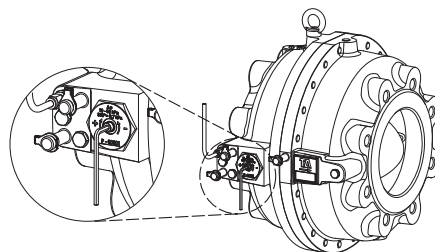
## Setting

### DN 15-125

The differential pressure can be adjusted by turning the adjustment ring (5). The preset value can be sealed through the holes (see (8) and (9) under Installation).

### DN 150

The differential pressure can be adjusted by turning the adjustment screw in the pilot valve, using 4 mm Allen key. Turn the adjustment screw clockwise to increase  $\Delta p$  and vice versa.

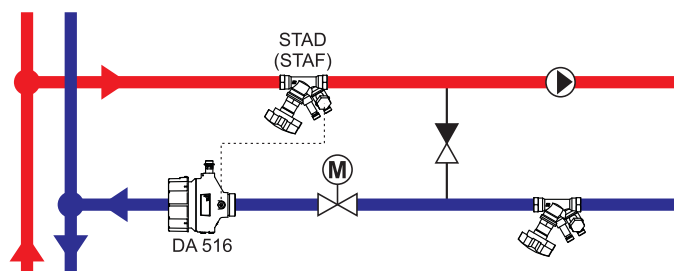


DN	Number of turns	$\Delta p$ [kPa] change per turn of setting nut/spanner				
		5-30	10-60	10-100	60-150	100-400
15/20	10	2,6	5,1	9,3	9,3	-
25/32	14	1,8	3,6	6,6	6,6	-
40/50	15	1,7	3,3	6,0	6,0	-
65	6,5	3,8	7,7	13,8	13,8	-
80	6,5	3,8	7,7	13,8	13,8	-
100	6,5	3,8	7,7	13,8	13,8	-
125	6,5	3,8	7,7	13,8	13,8	-
150	7,5	3,3	6,7	12,0	12,0	40,0

Measure flow and adjust  $\Delta p$  accordingly.

## Application example

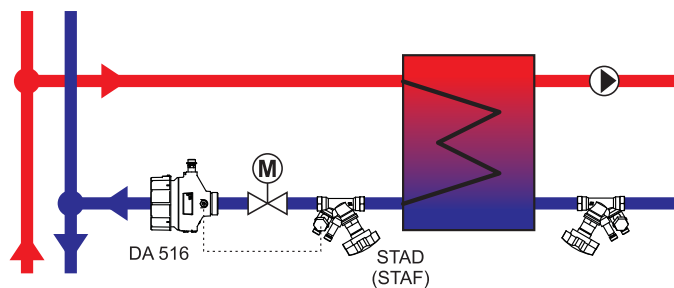
### Keeping the differential pressure over a control valve constant



#### DA 516

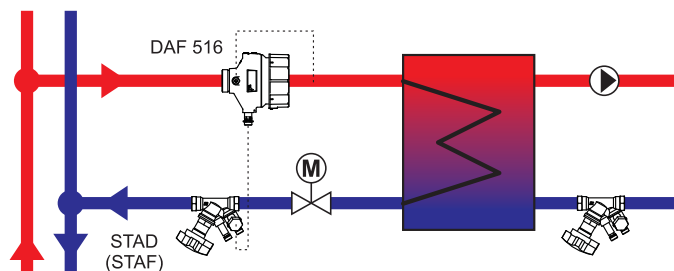
##### Shunt group

DA 516 should be mounted downstream of the control valve and STAD (STAF) may preferably be mounted in the supply pipe.



#### Heat exchanger

DA 516 should be mounted downstream of the control valve and STAD (STAF) upstream of the control valve, but downstream of the heat exchanger. STAD (STAF) can be mounted in the supply pipe, but with a decreased valve authority as a consequence.

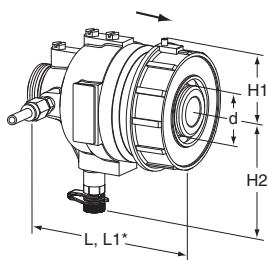


#### DAF 516

##### Heat exchanger

DAF 516 should be mounted in the supply pipe upstream of the heat exchanger and STAD (STAF) on the return pipe, but downstream of the control valve. DAF 516 acts in this way as pressure controller (reducing valve) as well.

## DA 516 – With measuring points (max. 120°C)



### DN 15-50

**Male thread** – Separate connections optional.

Capillary pipe (Ø6) included: 1 200 mm

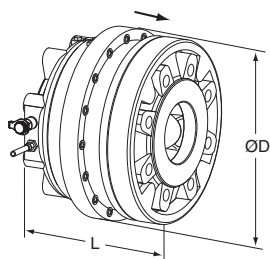
### PN 25

DN	d	L	L1*	H1	H2	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112507111	52 795-020
25/32	G1 1/4	125	150	51	84	12	2,6	3831112507159	52 795-025
40/50	G2	162	190	70	102	30	5,8	3831112507197	52 795-040
<b>10-60 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112507104	52 795-120
25/32	G1 1/4	125	150	51	84	12	2,6	3831112507142	52 795-125
40/50	G2	162	190	70	102	30	5,8	3831112507180	52 795-140
<b>10-100 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112507098	52 795-220
25/32	G1 1/4	125	150	51	84	12	2,6	3831112507135	52 795-225
40/50	G2	162	190	70	102	30	5,8	3831112507173	52 795-240
<b>60-150 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112507128	52 795-320
25/32	G1 1/4	125	150	51	84	12	2,6	3831112507166	52 795-325
40/50	G2	162	190	70	102	30	5,8	3831112507203	52 795-340

\*) Length incl adjustment ring.

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction

**DN 65-125****Flanges** – Do not need any separate connections.

Capillary pipe (Ø6) included: 1 500 mm

**PN 25 (DN 65-80 also fit PN 16 flanges)**

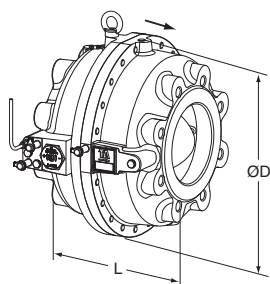
DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
65	210	160	60	18	3831112507289	52 795-065
80	210	160	60	18	3831112507326	52 795-080
100	320	254	150	58	3831112507401	52 795-090
125	320	254	150	58	3831112507487	52 795-091
<b>10-60 kPa</b>						
65	210	160	60	18	3831112507272	52 795-165
80	210	160	60	18	3831112507319	52 795-180
100	320	254	150	58	3831112507395	52 795-190
125	320	254	150	58	3831112507470	52 795-191
<b>10-100 kPa</b>						
65	210	160	60	18	3831112507265	52 795-265
80	210	160	60	18	3831112507302	52 795-280
100	320	254	150	58	3831112507388	52 795-290
125	320	254	150	58	3831112507463	52 795-291
<b>60-150 kPa</b>						
65	210	160	60	18	3831112507296	52 795-365
80	210	160	60	18	3831112507333	52 795-380
100	320	254	150	58	3831112507418	52 795-390
125	320	254	150	58	3831112507494	52 795-391

**PN 16**

DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
100	320	254	150	58	3831112507364	52 795-490
125	320	254	150	58	3831112507449	52 795-491
<b>10-60 kPa</b>						
100	320	254	150	58	3831112507357	52 795-590
125	320	254	150	58	3831112507432	52 795-591
<b>10-100 kPa</b>						
100	320	254	150	58	3831112507340	52 795-690
125	320	254	150	58	3831112507425	52 795-691
<b>60-150 kPa</b>						
100	320	254	150	58	3831112507371	52 795-790
125	320	254	150	58	3831112507456	52 795-791

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction



### DN 150

**Flanges** – Do not need any separate connections.

Capillary pipe (Ø6) included: 1 500 mm

### PN 25

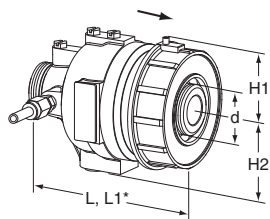
DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
150	382	267	280	85	3831112511194	52 771-592
<b>10-60 kPa</b>						
150	382	267	280	85	3831112511200	52 771-692
<b>10-100 kPa</b>						
150	382	267	280	85	3831112511217	52 771-792
<b>60-150 kPa</b>						
150	382	267	280	85	3831112511224	52 771-892
<b>100-400 kPa</b>						
150	382	267	280	85	3831112511231	52 771-992

### PN 16

DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
150	382	267	280	85	3831112511149	52 770-592
<b>10-60 kPa</b>						
150	382	267	280	85	3831112511156	52 770-692
<b>10-100 kPa</b>						
150	382	267	280	85	3831112511163	52 770-792
<b>60-150 kPa</b>						
150	382	267	280	85	3831112511170	52 770-892
<b>100-400 kPa</b>						
150	382	267	280	85	3831112511187	52 770-992

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction

**DA 516 – Without measuring points (max. 150°C)****DN 15-50****Male thread** – Separate connections optional.

Capillary pipe (Ø6) included: 1 200 mm

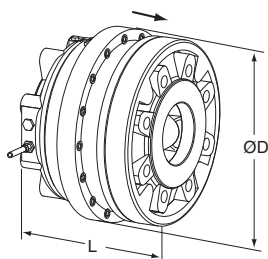
**PN 25**

DN	d	L	L1*	H1	H2	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112528468	52 752-720
25/32	G1 1/4	125	150	51	84	12	2,6	3831112528659	52 752-725
40/50	G2	162	190	70	102	30	5,8	3831112528697	52 752-740
<b>10-60 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112528451	52 754-620
25/32	G1 1/4	125	150	51	84	12	2,6	3831112528642	52 754-625
40/50	G2	162	190	70	102	30	5,8	3831112528680	52 754-640
<b>10-100 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112528444	52 760-320
25/32	G1 1/4	125	150	51	84	12	2,6	3831112528635	52 760-325
40/50	G2	162	190	70	102	30	5,8	3831112528673	52 760-340
<b>60-150 kPa</b>									
15/20	G1	106	116	41	79	4	1,5	3831112528475	52 760-920
25/32	G1 1/4	125	150	51	84	12	2,6	3831112528666	52 760-925
40/50	G2	162	190	70	102	30	5,8	3831112528703	52 760-940

\*) Length incl adjustment ring.

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction



### DN 65-125

**Flanges** – Do not need any separate connections.

Capillary pipe (Ø6) included: 1 500 mm

#### PN 25 (DN 65-80 also fit PN 16 flanges)

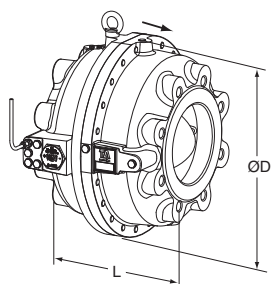
DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
65	210	160	60	18	3831112528772	52 752-765
80	210	160	60	18	3831112528857	52 752-780
100	320	254	150	58	3831112528307	52 752-790
125	320	254	150	58	3831112528420	52 752-791
<b>10-60 kPa</b>						
65	210	160	60	18	3831112528765	52 754-665
80	210	160	60	18	3831112528840	52 754-680
100	320	254	150	58	3831112528291	52 754-690
125	320	254	150	58	3831112528413	52 754-691
<b>10-100 kPa</b>						
65	210	160	60	18	3831112528758	52 760-365
80	210	160	60	18	3831112528833	52 760-380
100	320	254	150	58	3831112528284	52 760-390
125	320	254	150	58	3831112528406	52 760-391
<b>60-150 kPa</b>						
65	210	160	60	18	3831112528789	52 760-965
80	210	160	60	18	3831112528864	52 760-980
100	320	254	150	58	3831112528314	52 760-990
125	320	254	150	58	3831112528437	52 760-991

### PN 16

DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
100	320	254	150	58	3831112528260	52 751-490
125	320	254	150	58	3831112528383	52 751-491
<b>10-60 kPa</b>						
100	320	254	150	58	3831112528253	52 752-990
125	320	254	150	58	3831112528376	52 752-991
<b>10-100 kPa</b>						
100	320	254	150	58	3831112528246	52 758-990
125	320	254	150	58	3831112528369	52 758-991
<b>60-150 kPa</b>						
100	320	254	150	58	3831112528277	52 760-890
125	320	254	150	58	3831112528390	52 760-891

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction

**DN 150**

**Flanges** – Do not need any separate connections.

Capillary pipe (Ø6) included: 1 500 mm

**PN 25**

DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
150	382	267	280	85	3831112528611	52 774-592
<b>10-60 kPa</b>						
150	382	267	280	85	3831112528604	52 774-692
<b>10-100 kPa</b>						
150	382	267	280	85	3831112528598	52 774-792
<b>60-150 kPa</b>						
150	382	267	280	85	3831112528628	52 774-892
<b>100-400 kPa</b>						
150	382	267	280	85	3831112528581	52 774-992

**PN 16**

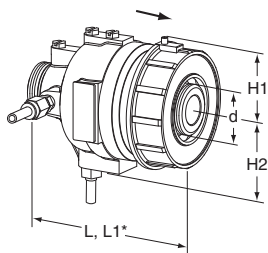
DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
150	382	267	280	85	3831112528567	52 772-592
<b>10-60 kPa</b>						
150	382	267	280	85	3831112528550	52 772-692
<b>10-100 kPa</b>						
150	382	267	280	85	3831112528543	52 772-792
<b>60-150 kPa</b>						
150	382	267	280	85	3831112528574	52 772-892
<b>100-400 kPa</b>						
150	382	267	280	85	3831112528536	52 772-992

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction



## DAF 516 – Without measuring points (max. 150°C)



### DN 15-50

**Male thread** – Separate connections optional.

Capillary pipes (Ø6) included: 2 x 1 200 mm

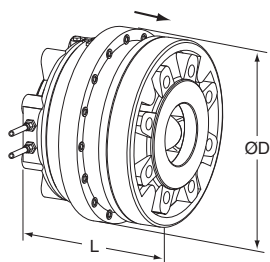
### PN 25

DN	d	L	L1*	H1	H2	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>									
15/20	G1	106	116	41	52	4	1,5	3831112505476	52 763-120
25/32	G1 1/4	125	150	51	57	12	2,6	3831112503953	52 763-125
40/50	G2	162	190	70	75	30	5,8	3831112504042	52 763-140
<b>10-60 kPa</b>									
15/20	G1	106	116	41	52	4	1,5	3831112505377	52 761-120
25/32	G1 1/4	125	150	51	57	12	2,6	3831112504134	52 761-125
40/50	G2	162	190	70	75	30	5,8	3831112504196	52 761-140
<b>10-100 kPa</b>									
15/20	G1	106	116	41	52	4	1,5	3831112504189	52 760-120
25/32	G1 1/4	125	150	51	57	12	2,6	3831112504004	52 760-125
40/50	G2	162	190	70	75	30	5,8	3831112504103	52 760-140
<b>60-150 kPa</b>									
15/20	G1	106	116	41	52	4	1,5	3831112504233	52 762-120
25/32	G1 1/4	125	150	51	57	12	2,6	3831112504141	52 762-125
40/50	G2	162	190	70	75	30	5,8	3831112504158	52 762-140

\*) Length incl adjustment ring.

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction

**DN 65-125**

**Flanges** – Do not need any separate connections.

Capillary pipes (Ø6) included: 2 x 1 500 mm

**PN 25 (DN 65-80 also fit PN 16 flanges)**

DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
65	210	160	60	18	3831112502635	52 763-165
80	210	160	60	18	3831112502819	52 763-180
100	320	254	150	58	3831112502406	52 763-190
125	320	254	150	58	3831112502444	52 763-191
<b>10-60 kPa</b>						
65	210	160	60	18	3831112504493	52 761-165
80	210	160	60	18	3831112504509	52 761-180
100	320	254	150	58	3831112502390	52 761-190
125	320	254	150	58	3831112502420	52 761-191
<b>10-100 kPa</b>						
65	210	160	60	18	3831112504677	52 760-165
80	210	160	60	18	3831112504684	52 760-180
100	320	254	150	58	3831112502161	52 760-190
125	320	254	150	58	3831112502413	52 760-191
<b>60-150 kPa</b>						
65	210	160	60	18	3831112504516	52 762-165
80	210	160	60	18	3831112504615	52 762-180
100	320	254	150	58	3831112505681	52 762-190
125	320	254	150	58	3831112505865	52 762-191

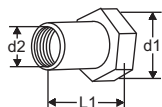
**PN 16**

DN	D	L	Kvs	Kg	EAN	Article No
<b>5-30 kPa</b>						
100	320	254	150	58	3831112502482	52 763-590
125	320	254	150	58	3831112502536	52 763-591
<b>10-60 kPa</b>						
100	320	254	150	58	3831112502468	52 761-590
125	320	254	150	58	3831112502512	52 761-591
<b>10-100 kPa</b>						
100	320	254	150	58	3831112502451	52 760-590
125	320	254	150	58	3831112502505	52 760-591
<b>60-150 kPa</b>						
100	320	254	150	58	3831112502499	52 762-590
125	320	254	150	58	3831112502543	52 762-591

Kvs = m<sup>3</sup>/h at a pressure drop of 1 bar and fully open valve.

→ = Flow direction

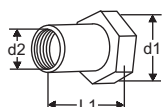
## Connections for DN 15-50



### With female thread

Threads according to ISO 228.  
Swivelling nut

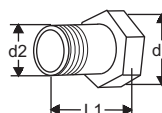
d1	d2	L1*	EAN	Article No
G1	G1/2	26	3831112501027	52 759-015
G1	G3/4	32	3831112501034	52 759-020
G1 1/4	G1	47	3831112501041	52 759-025
G1 1/4	G1 1/4	52	3831112501058	52 759-032
G2	G1 1/2	52	3831112503489	52 759-040
G2	G2	64,5	3831112503205	52 759-050



### With female thread Rc

Threads according to ISO 7-1  
Swivelling nut

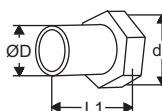
d1	d2	L1*	EAN	Article No
G1	Rc1/2	26	3831112527454	52 751-301
G1	Rc3/4	32	3831112527461	52 751-302
G1 1/4	Rc1	47	3831112527478	52 751-303
G1 1/4	Rc1 1/4	52	3831112527485	52 751-304
G2	Rc1 1/2	52	3831112527492	52 751-305
G2	Rc2	64,5	3831112527508	52 751-306



### With male thread

Threads according to ISO 7  
Swivelling nut

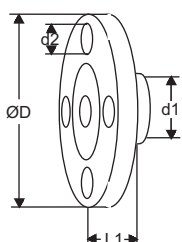
d1	d2	L1*	EAN	Article No
G1	R1/2	34	3831112500983	52 759-115
G1	R3/4	40	3831112500990	52 759-120
G1 1/4	R1	40	3831112501003	52 759-125
G1 1/4	R1 1/4	45	3831112501010	52 759-132
G2	R1 1/2	45	3831112503342	52 759-140
G2	R2	50	3831112503472	52 759-150



### For welding

Swivelling nut

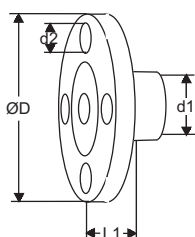
d1	D	L1*	EAN	Article No
G1	20,8	37	3831112500945	52 759-315
G1	26,3	42	3831112500952	52 759-320
G1 1/4	33,2	47	3831112500969	52 759-325
G1 1/4	40,9	47	3831112500976	52 759-332
G2	48,0	47	3831112501140	52 759-340
G2	60,0	52	3831112501294	52 759-350



### With flange

**Attention!** Can be used on the **inlet** side only.

d1	d2	D	L1*	EAN	Article No
G1	M12	95	10	3831112501065	52 759-515
G1	M12	105	20	3831112501072	52 759-520
G1 1/4	M12	115	5	3831112504318	52 759-525
G1 1/4	M16	140	15	3831112501096	52 759-532
G2	M16	150	5	3831112504325	52 759-540
G2	M16	165	20	3831112501317	52 759-550



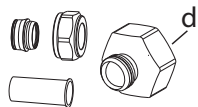
### With flange (extended)

**Attention!** Must be used on the **outlet** side.

d1	d2	D	L1*	EAN	Article No
G1	M12	95	47	3831112501157	52 759-615
G1	M12	105	47	3831112500136	52 759-620
G1 1/4	M12	115	62	3831112503533	52 759-625
G1 1/4	M16	140	62	3831112526129	52 759-632
G2	M16	150	72	3831112505025	52 759-640
G2	M16	165	72	3831112503892	52 759-650

\*) Fitting length (from the gasket surface to the end of the connection).

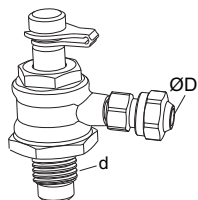
## Accessories



### Connection set STAD

Must be used on STAD when connection of 6 mm capillary pipe.

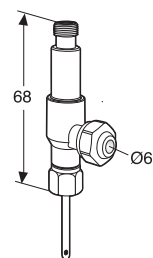
d	EAN	Article No
G1/2	7318793850003	52 762-006
G3/4	7318793850102	52 762-106



### Capillary pipe connection with shut-off

For connection of capillary pipe  $\varnothing 6$  mm to STAF/STAF-SG.

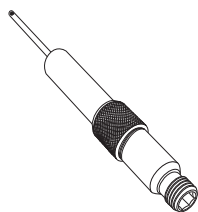
d	For DN	EAN	Article No
G3/8	20-50	7318793999405	52 265-208
G1/4	65-400	7318793999504	52 265-209



### Measuring point, two-way

For connection of 6 mm copper pipe while permitting simultaneous use of our balancing instrument.

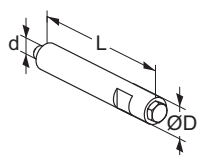
EAN	Article No
7318793848703	52 179-206



### Measuring point

Extensions 60 mm.  
Can be installed without draining of the system.

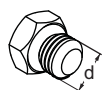
L	EAN	Article No
60	7318792812804	52 179-006



### Venting extension

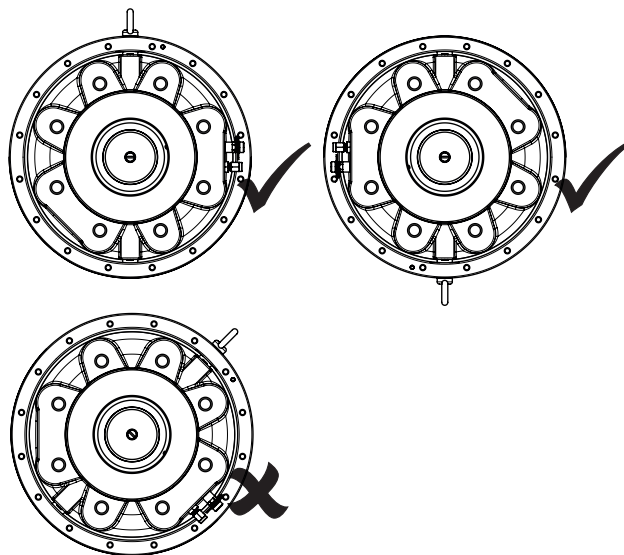
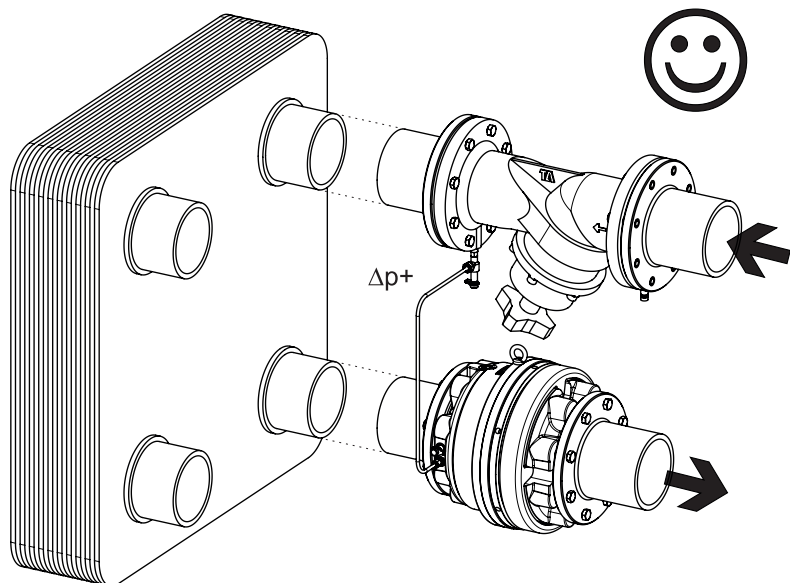
Suitable when insulation is used.

d	D	L	EAN	Article No
M6	12	70	3831112531727	52 759-220



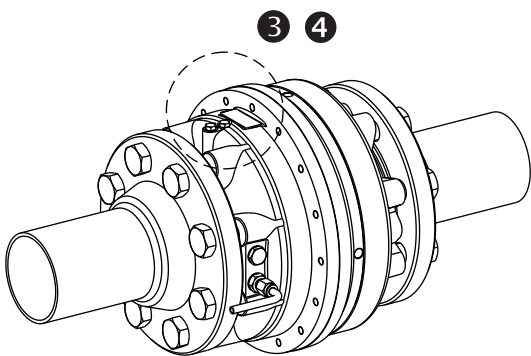
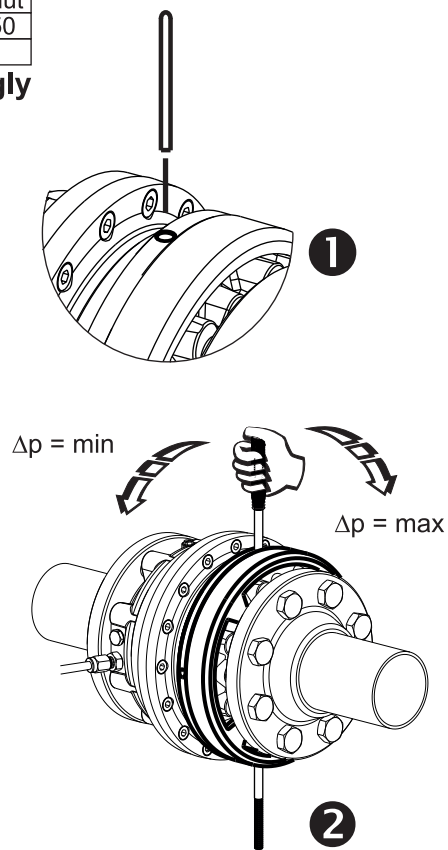
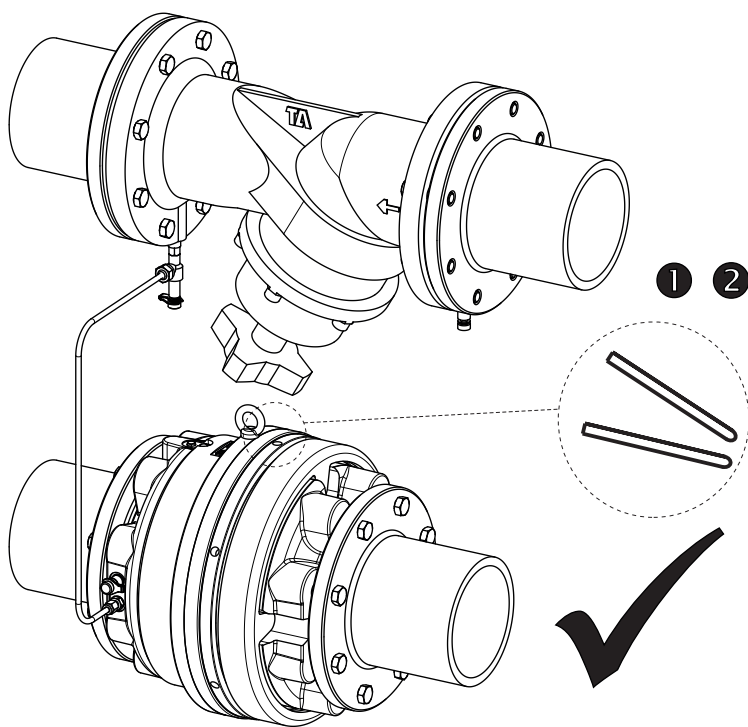
### Venting screw

d	EAN	Article No
M6	3831112527980	52 759-211

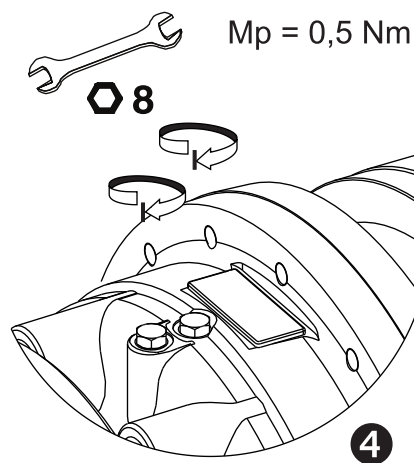
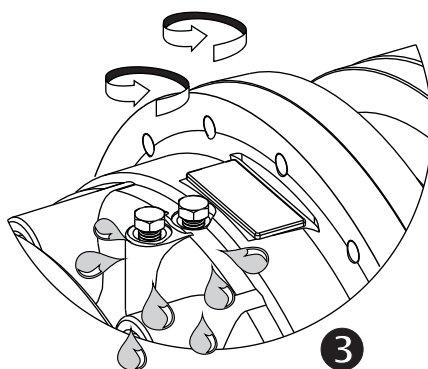


Number of turns	Δp [kPa] change per turn of setting nut	5 - 30	10 - 60	10 - 100	60 - 150
6,5	3,8	7,7	13,8	13,8	

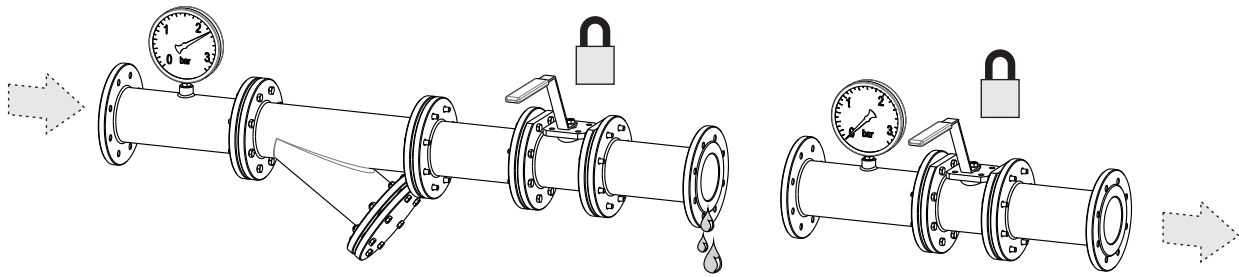
**Measure flow & adjust Δp accordingly**



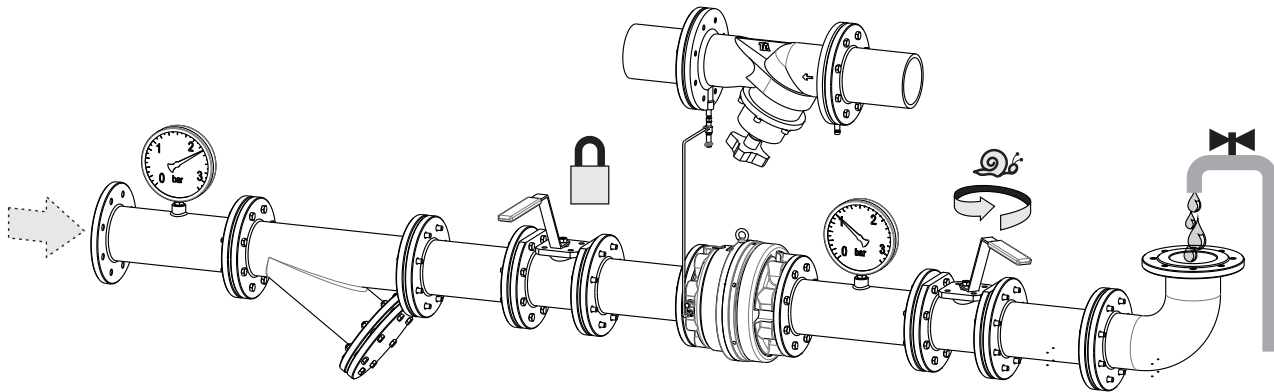
Max. 2 x 360°



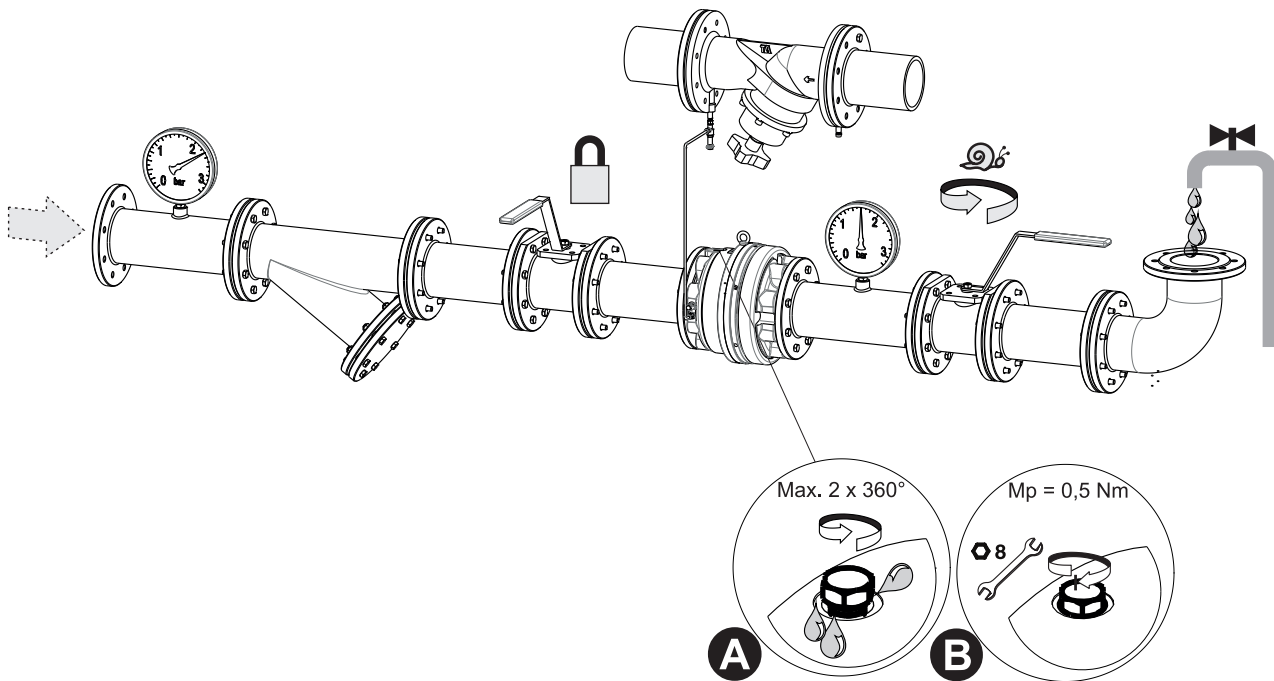
1



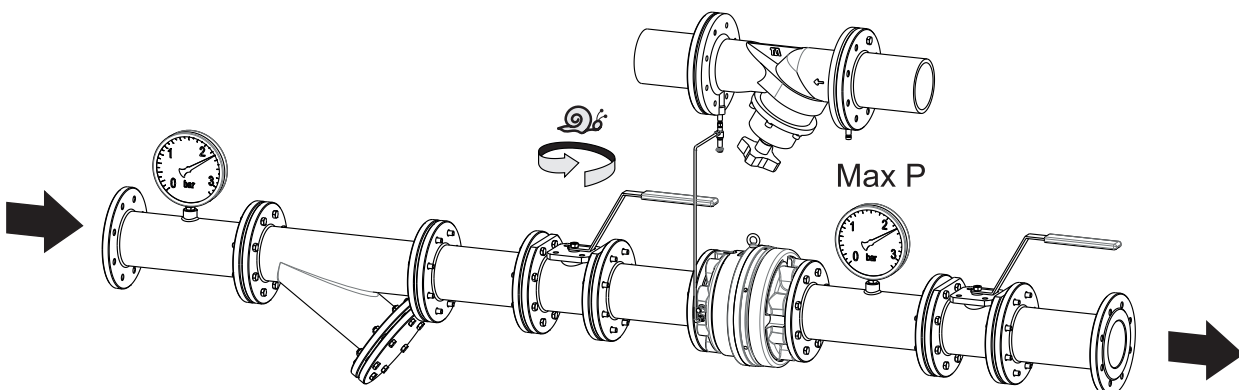
2



3

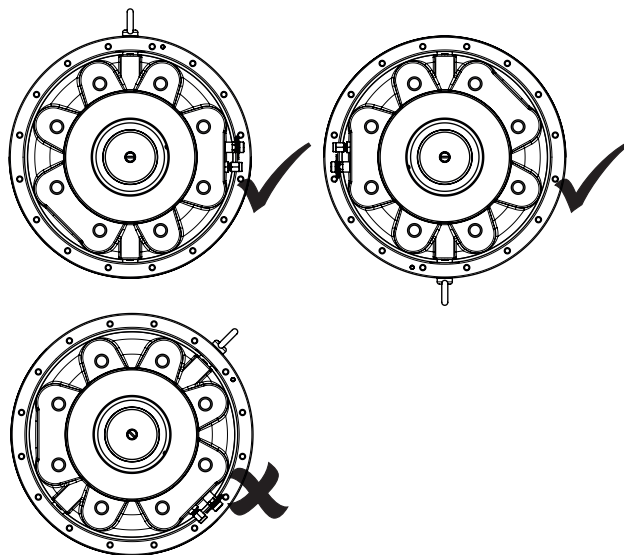
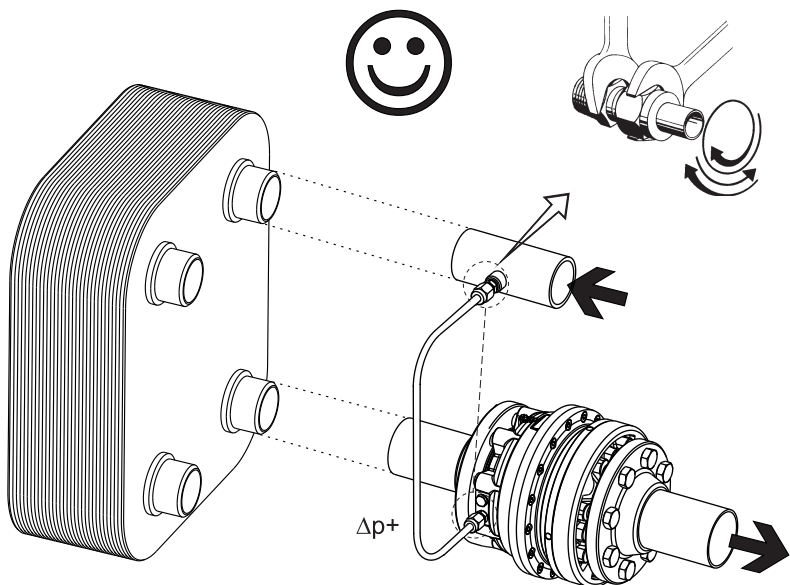


4



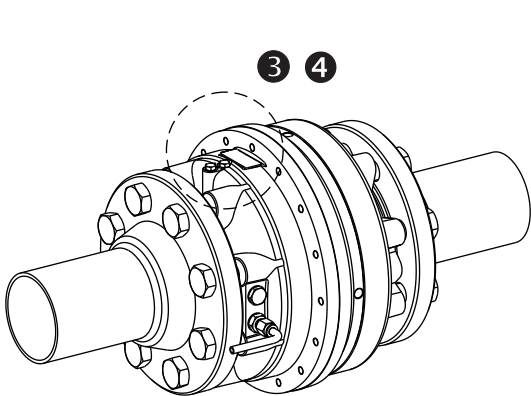
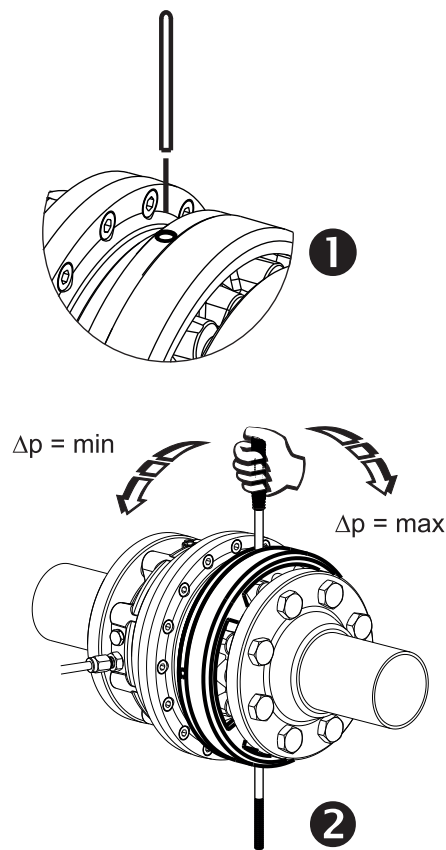
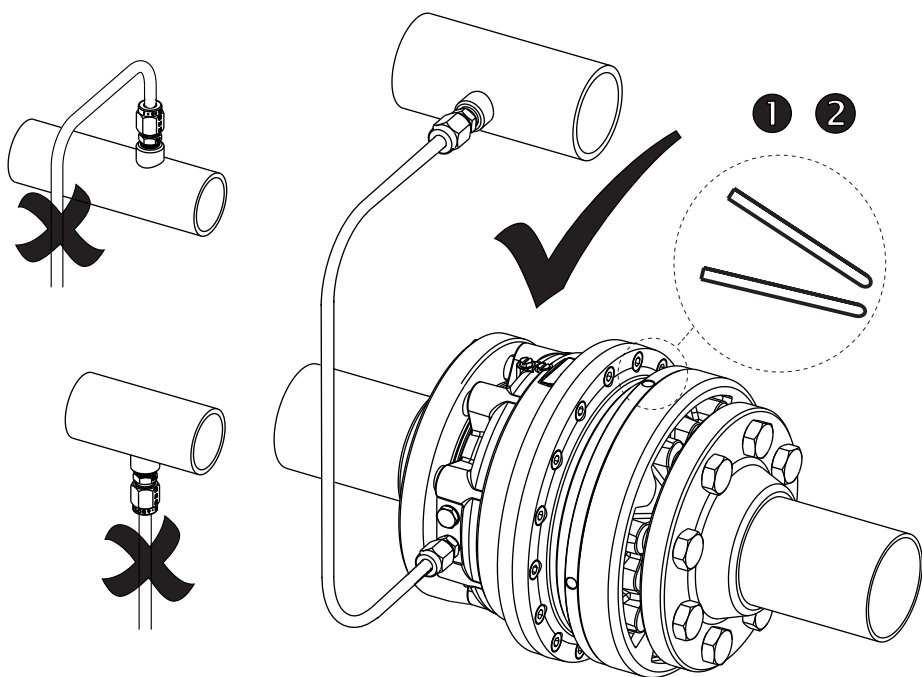


# DA 516 DN65-125 (pipe)

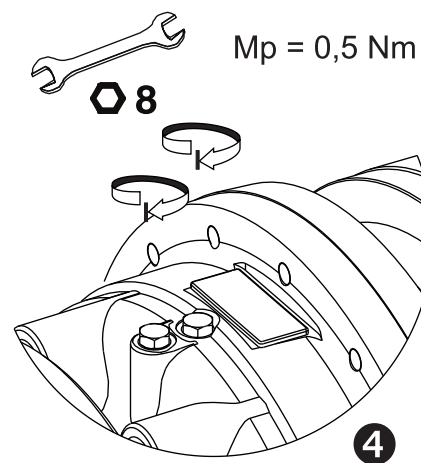
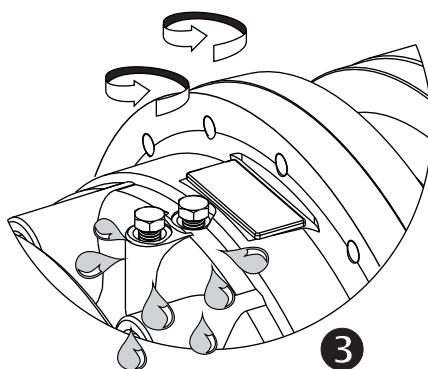


Number of turns	Δp [kPa] change per turn of setting nut	5 - 30	10 - 60	10 - 100	60 - 150
6,5	3,8	7,7	13,8	13,8	

Measure flow & adjust Δp accordingly

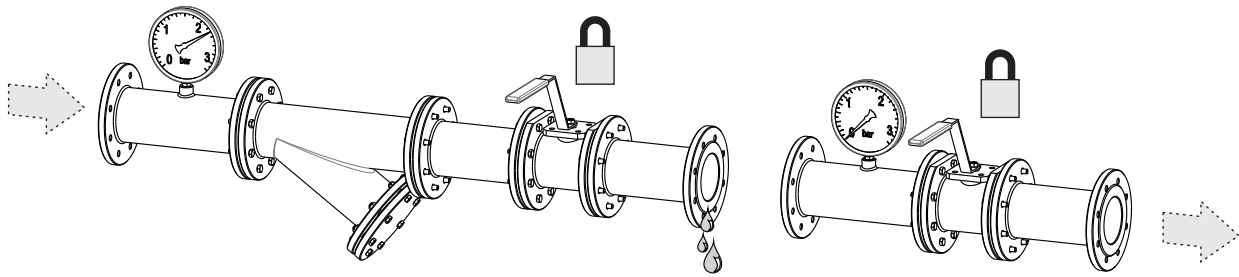


Max. 2 x 360°

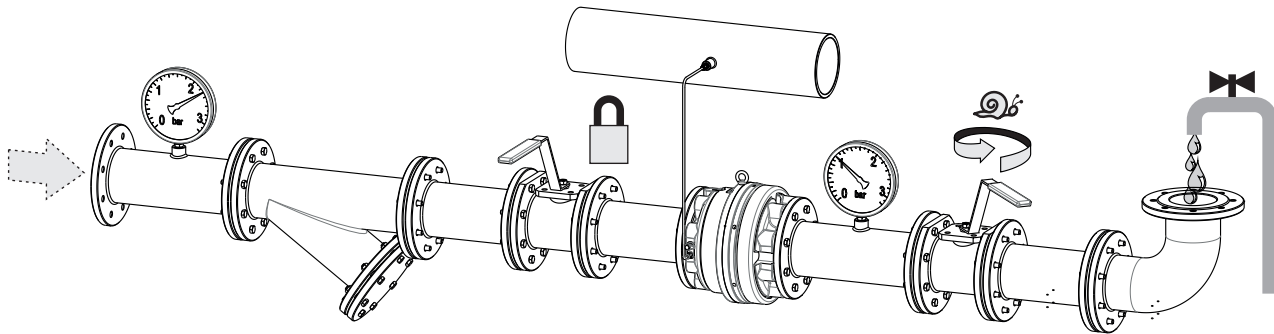


Mp = 0,5 Nm

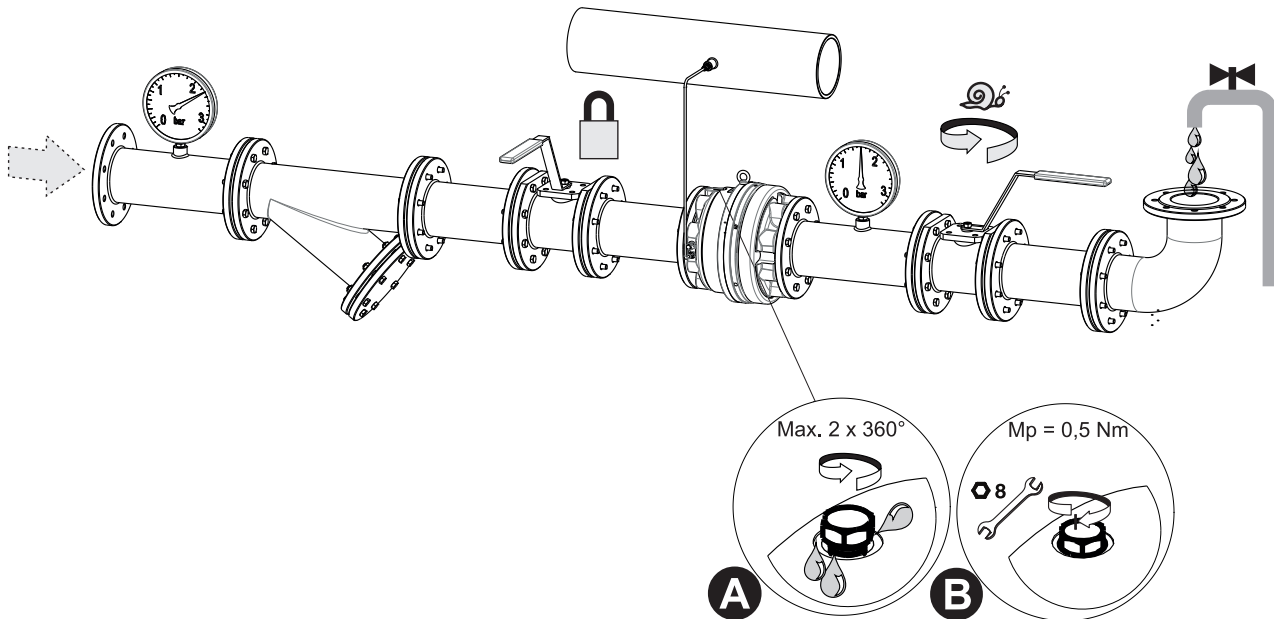
1



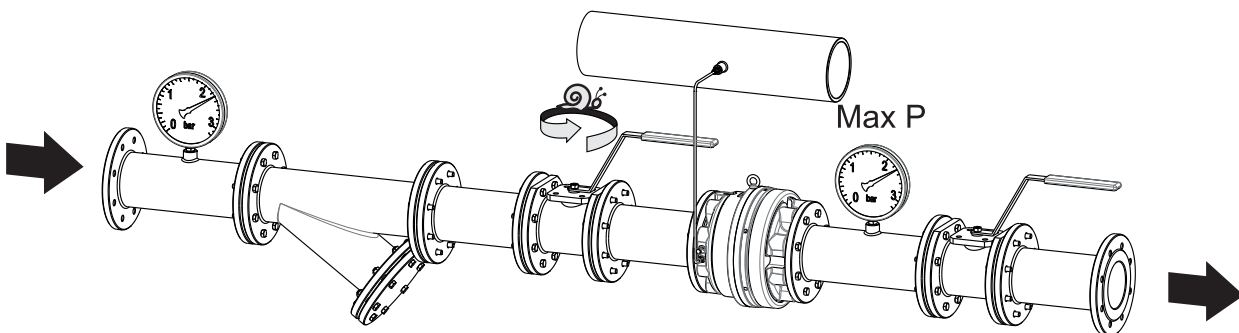
2



3

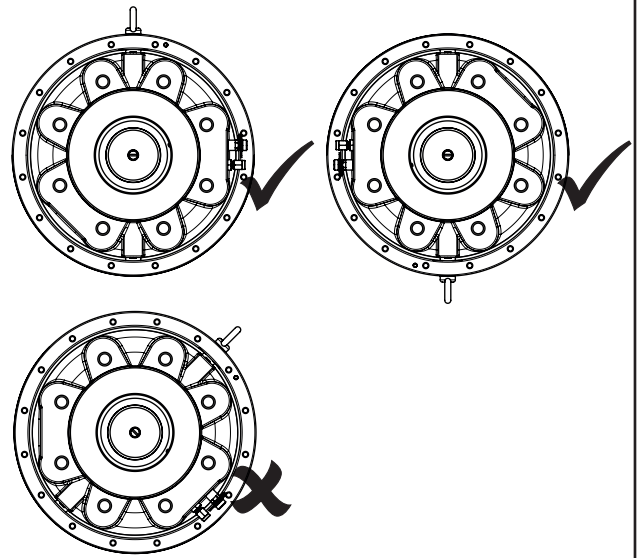
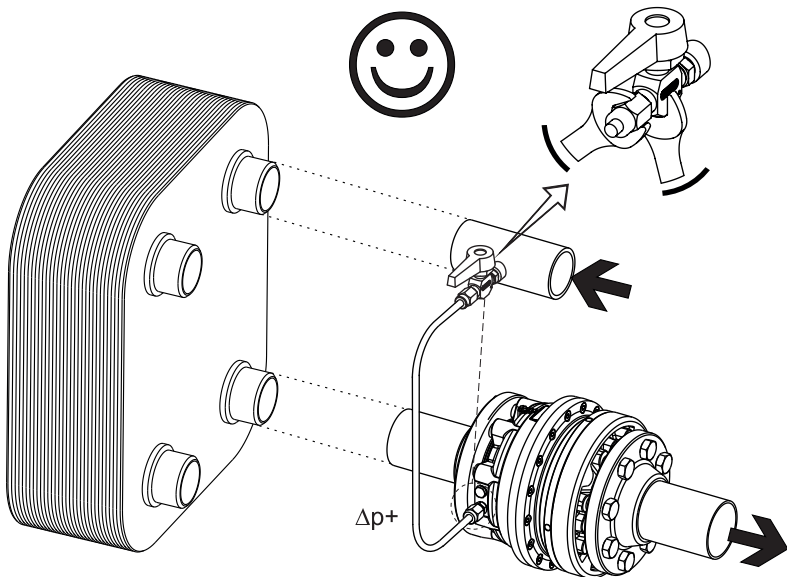


4



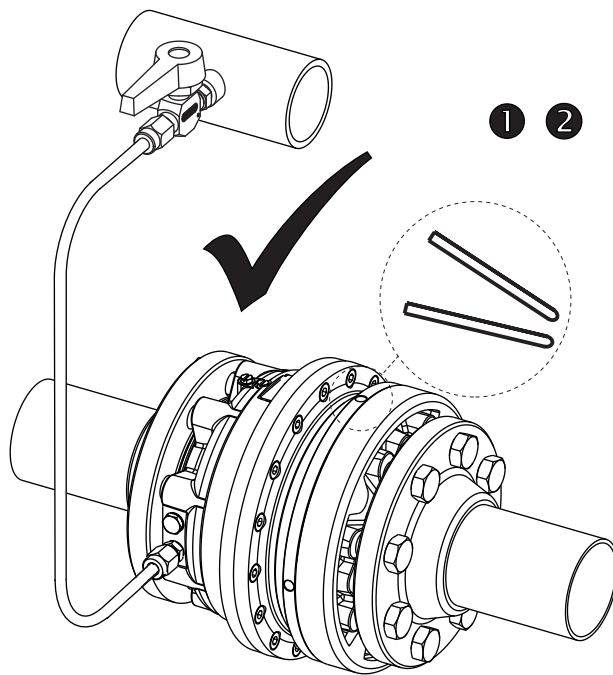
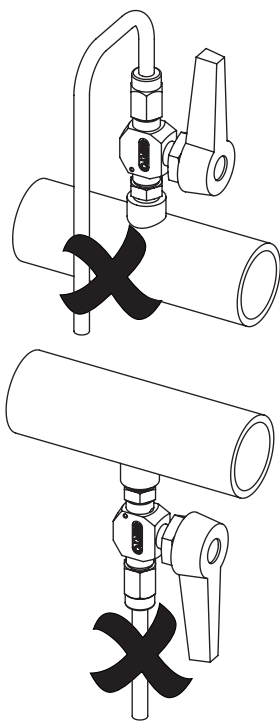


# DA 516 DN65-125 (valve)

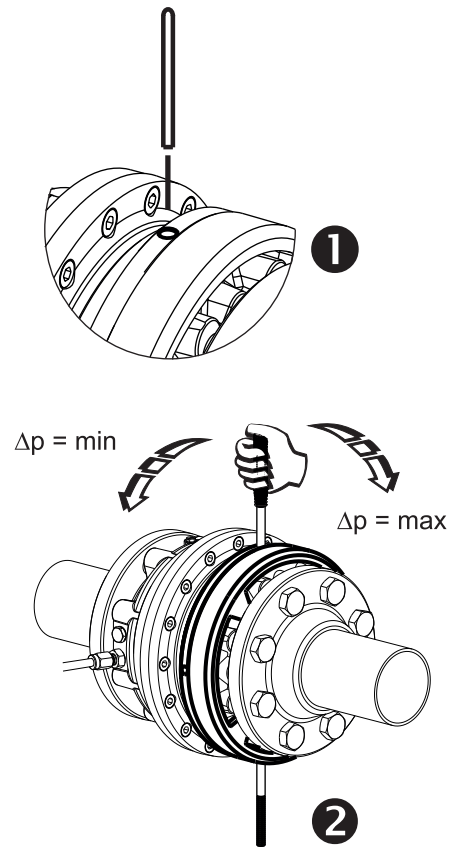


Number of turns	5 - 30	10 - 60	10 - 100	60 - 150
$\Delta p$ [kPa] change per turn of setting nut	6,5	3,8	7,7	13,8

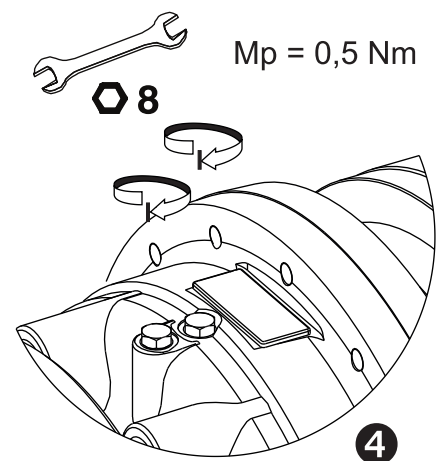
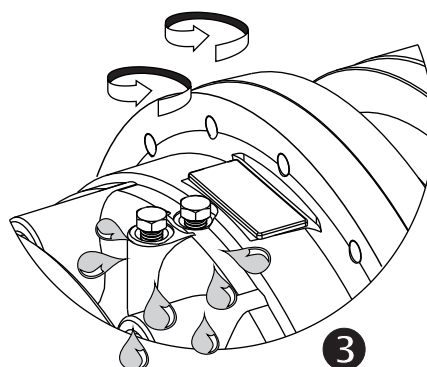
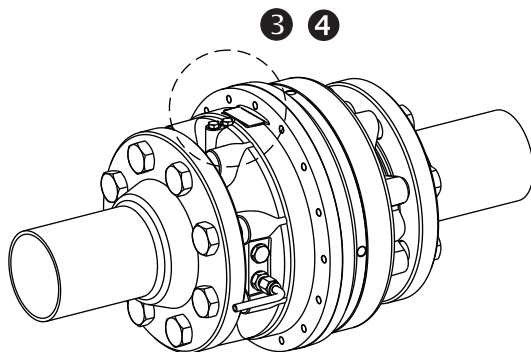
Measure flow & adjust  $\Delta p$  accordingly



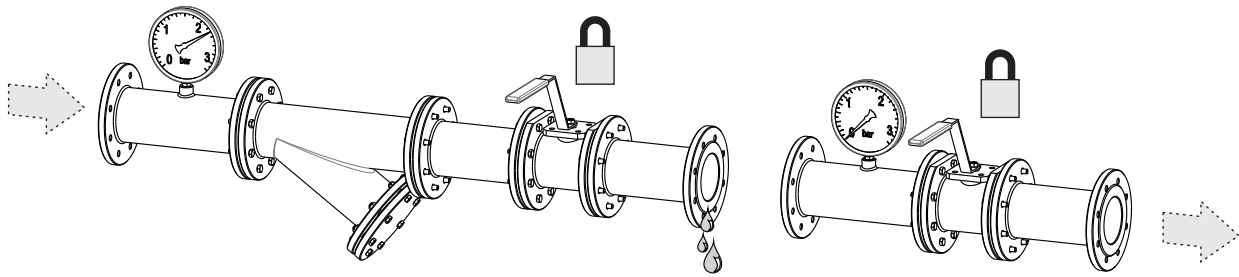
1 2



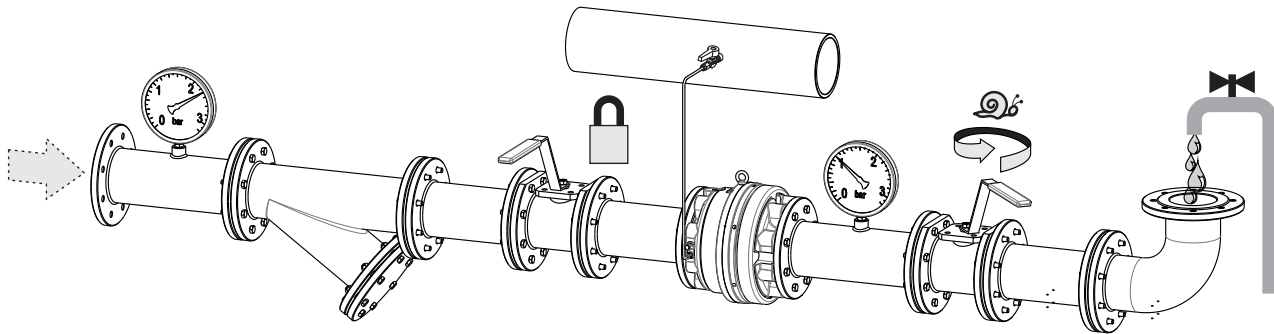
Max. 2 x 360°



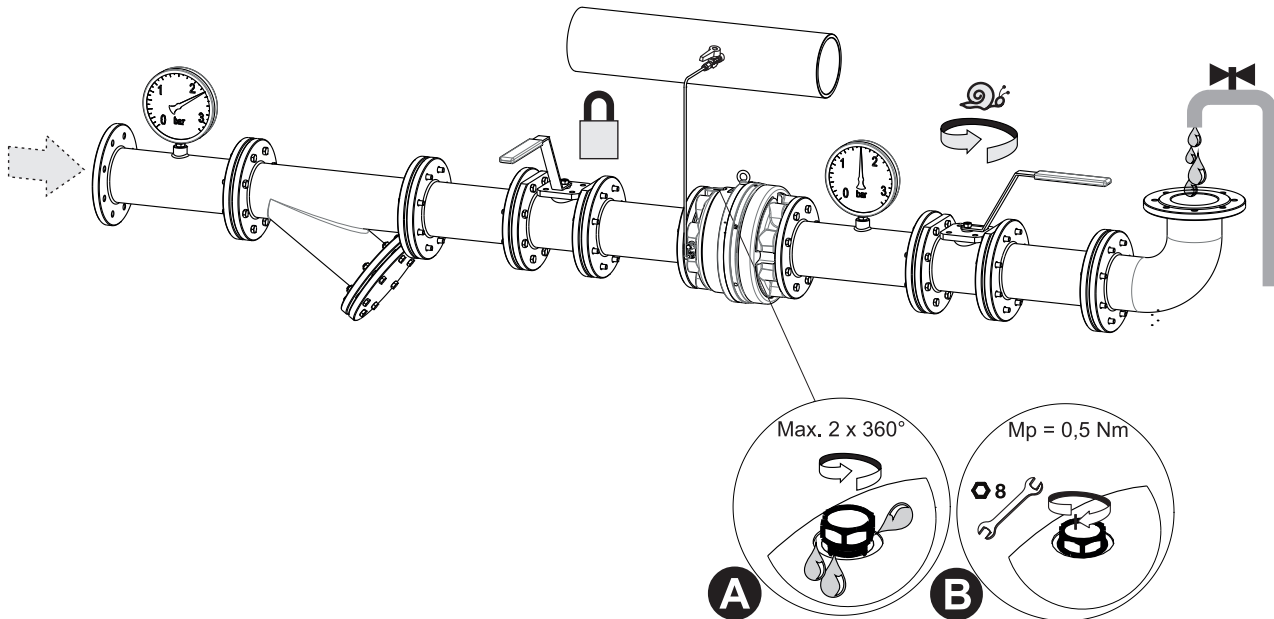
1



2



3



4

