

DKH 512



Differential pressure controllers

Flow and differential pressure controller

DKH 512

The DKH 512 is a flow and differential pressure controller with a wide range of applications. Perfect for use in district heating substations, central heating and air-conditioning systems. Compact, and featuring an electrophoretically painted ductile iron body for optimum rust protection, the DKH 512 also features two inline valves that keep noise to a minimum. A manual shut-off function ensures easy maintenance.



Technical description

Application:

District heating substations, primary side, as well as in central heating and air-conditioning.
Heating and cooling systems with variable flow.

Function:

Differential pressure control over the load and flow control.
Closes at increasing flow or Δp .

Dimensions:

DN 15-50

Pressure class:

PN 25

Differential pressure (Δp_V):

Max. differential pressure:
1600 kPa = 16 bar (ΔH_{max})
Min. differential pressure:
Low flow (LF): 12 kPa (ΔH_{min})
Normal flow (NF): 20 kPa (ΔH_{min})
High flow (HF): 40 kPa (ΔH_{min})
(Valid for max. position, fully open. Other positions will require lower differential pressure, check with the software HySelect.)

Setting range:

Differential pressure fixed at 15, 40, 60 or 100 kPa.

Temperature:

Max. working temperature: 150°C
Min. working temperature: -10°C

Media:

Water or neutral fluids, water-glycol mixtures (0-57%).

Material:

Valve body: Ductile iron EN-GJS-400-15
Diaphragms and gaskets: EPDM

Surface treatment:

Electrophoretic painting.

Marking:

Label: IMI TA and technical specification.
Valve body: Material and flow direction arrow.

Connection:

Male thread according to ISO 228.

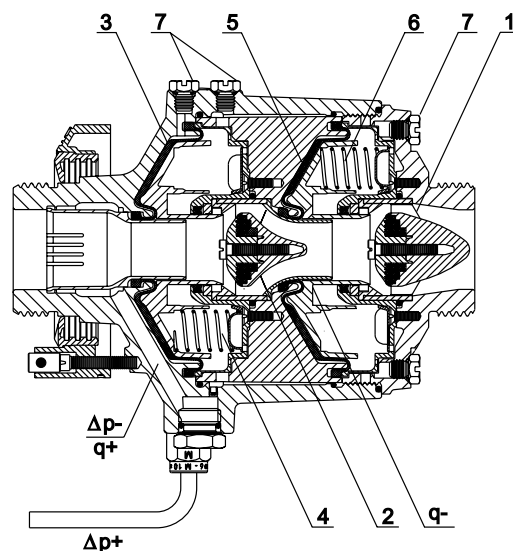
Operating function

Flow (1) and differential pressure (2) controller are integrated in series in a common compact housing. The differential pressure controller also acts as a control throttle for flow control and as a stop valve.

The pressure upstream of the consumer acts through an external impulse pipe ($\Delta p+$) to the inlet side of the differential pressure diaphragm (3) and attempts to close the valve.

The pressure downstream of the consumer (upstream of the valve) acts through an internal impulse boring ($\Delta p-$) to the outlet side of the differential pressure diaphragm and attempts to open the valve together with the force of the differential pressure control spring (4). As long as the forces on the diaphragm are in balance, the valve stands still. If the differential pressure increases, the valve closes until a new equilibrium is reached and vice versa.

Pressure drop on the differential pressure valve acts through internal impulse borings ($q+$, $q-$) to the flow control diaphragm (5) and attempts to close the valve against the force of the flow control spring (6). As long as the forces on the diaphragm are in balance, the valve stands still. If the flow increases, the valve closes until a new equilibrium is reached and vice versa.



Sizing

Select the size according to maximal flow. Maximal flow depends on the nominal size (DN) and pressure drop in the throttle (F_c) 12, 20 or 40 kPa.

Total pressure drop is calculated by the formula:

$$\Delta p_{\min} = F_c + \left(0.01 \frac{q}{K_{vd}} \right)^2 \quad [l/h, \text{kPa}]$$

Installation

Install the valve in the return pipe, downstream of the consumer. Flow direction is shown by the arrow on the valve's identification plate. The best position is horizontal with vent screws (7) on top. Installation of a strainer upstream of the controller is recommended.

Connect copper impulse pipe ($\Delta p+$) to the pipeline upstream of the consumer. In case of a horizontal pipeline connect the copper impulse pipe laterally to prevent air and dirt from entering.

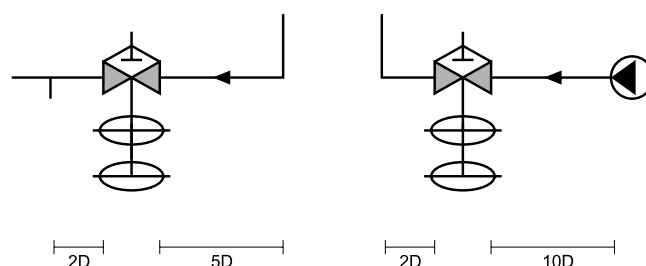
It is important to ensure that working temperature and pressure do not exceed allowed values.

Before you mount the controller, check the fitting length of the controller and distance between connections on the pipeline. You should fit the connections (welding and threaded ends) to the pipeline first, then clean the remains of welding operations if needed. Then install the controller. If you use flanged connections, check pitch diameter and the diameter of the holes for the screws.

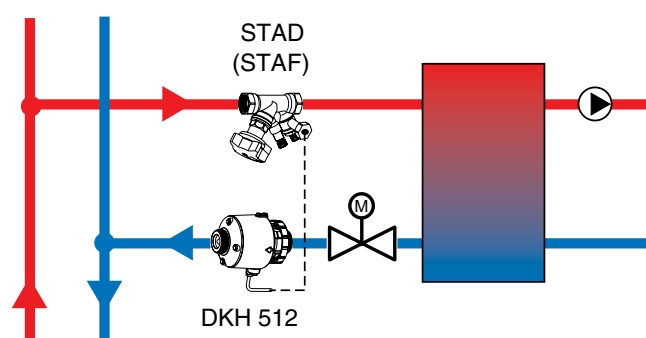
When the pipeline and the controller is full of water and the pressure is stabilised, vent the controller by the vent screws (7). Installation of a balancing valve STAD (STAF) is recommended to enable flow measurement, commissioning and troubleshooting.

Normal pipe fittings

Try to avoid mounting taps and pumps immediately before the valve.



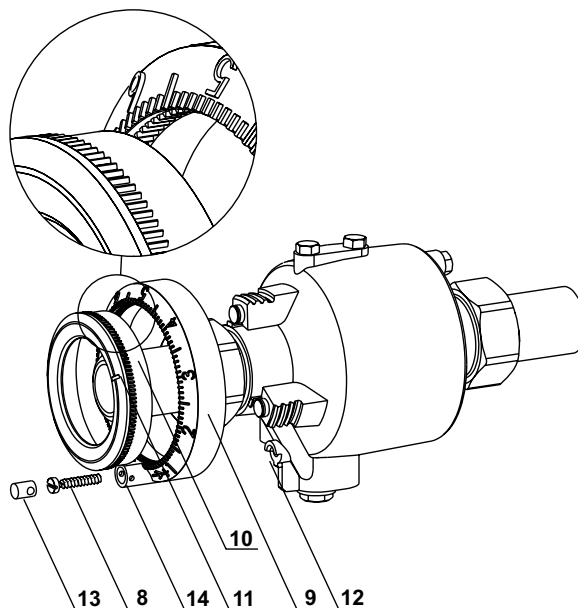
Application example



Setting

Flow adjustment

1. Unscrew the fixing screw (8) so that you can turn the scale easily.
2. Push the black scale (9) towards the valve's body so that it is separated from the brown setting ring (10) - the teeth go apart.
3. In the flow chart find the desired flow and corresponding position of the adjustment scale. Align the appropriate number on the scale with red pointer (11) on the brown setting ring (10).
4. Push the black scale (9) back to the brown setting ring (10) - the teeth couple again.
5. Turn the black scale (9) together with the brown setting ring (10) clockwise until it stops.
6. Now set the desired flow so that you turn the scale anticlockwise until the fixing screw (8) is aligned with the hole (12) on the valve body (the red point on the black scale and the red mark on the body should be aligned).
7. Screw in the fixing screw (8) in the hole on the valve body (12).
8. In front of the fixing screw (8) you can put an inserted piece (13) that can be plumbed (use holes on the scale (14) and inserted piece).



Flow chart for water has been measured on each individual valve. Each valve has its own identity number and individual flow chart included in the scope of supply. The copy of the chart can be provided by supplier. Provide next data: type, DN, F_c , Δp , serial number.

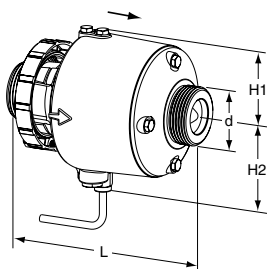
Differential pressure adjustment

Differential pressure is factory-preset to a fixed value of 15/40/60/100 kPa.

Manual closing

Turn the black scale (9) together with the brown setting ring (10) clockwise to the end position.

Articles



DN 15-50

Male thread – Separate connections optional.

1200 mm capillary pipe (Ø6) with compression coupling 1/4" included.

LF, low flow

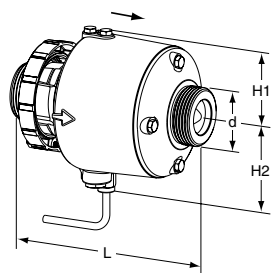
DN	d	L	H1	H2	Kvd	q _{max} [m³/h]	Kg	EAN	Article No
15 kPa									
15/20	G1	123	45	92	7,0	1,1	1,6	3831112525429	52 757-020
25/32	G1 1/4	145	53	97	18	3,3	2,7	3831112525528	52 757-025
40/50	G2	190	66	110	40	7,5	4,8	3831112526648	52 757-040
40 kPa									
15/20	G1	123	45	92	7,0	1,1	1,6	3831112525894	52 757-120
25/32	G1 1/4	145	53	97	18	3,3	2,7	3831112501973	52 757-125
40/50	G2	190	66	110	40	7,5	4,8	3831112504691	52 757-140
60 kPa									
15/20	G1	123	45	92	7,0	1,1	1,6	3831112500204	52 758-120
25/32	G1 1/4	145	53	97	18	3,3	2,7	3831112501966	52 758-125
40/50	G2	190	66	110	40	7,5	4,8	3831112525856	52 758-140
100 kPa									
15/20	G1	123	45	92	7,0	1,1	1,6	3831112500211	52 758-020
25/32	G1 1/4	145	53	97	18	3,3	2,7	3831112500228	52 758-025
40/50	G2	190	66	110	40	7,5	4,8	3831112503373	52 758-040

NF, normal flow

DN	d	L	H1	H2	Kvd	q _{max} [m³/h]	Kg	EAN	Article No
15 kPa									
15/20	G1	123	45	92	7,0	1,3	1,6	3831112525436	52 757-220
25/32	G1 1/4	145	53	97	18	4,4	2,7	3831112525498	52 757-225
40/50	G2	190	66	110	40	10	4,8	3831112526617	52 757-240
40 kPa									
15/20	G1	123	45	92	7,0	1,3	1,6	3831112525962	52 757-320
25/32	G1 1/4	145	53	97	18	4,4	2,7	3831112503311	52 757-325
40/50	G2	190	66	110	40	10	4,8	3831112503670	52 757-340
60 kPa									
15/20	G1	123	45	92	7,0	1,3	1,6	3831112525948	52 758-220
25/32	G1 1/4	145	53	97	18	4,4	2,7	3831112525474	52 758-225
40/50	G2	190	66	110	40	10	4,8	3831112526273	52 758-240
100 kPa									
15/20	G1	123	45	92	7,0	1,3	1,6	3831112525870	52 758-320
25/32	G1 1/4	145	53	97	18	4,4	2,7	3831112525481	52 758-325
40/50	G2	190	66	110	40	10	4,8	3831112503038	52 758-340

→ = Flow direction

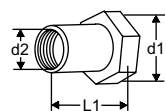
Kvd = Is the Kv value of the differential pressure control component when fully open.

**HF, high flow**

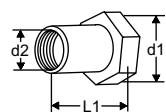
DN	d	L	H1	H2	Kvd	q_{\max} [m³/h]	Kg	EAN	Article No
15 kPa									
15/20	G1	123	45	92	7,0	1,8	1,6	3831112525887	52 757-420
25/32	G1 1/4	145	53	97	18	6,0	2,7	3831112526976	52 757-425
40/50	G2	190	66	110	40	14	4,8	3831112505124	52 757-440
40 kPa									
15/20	G1	123	45	92	7,0	1,8	1,6	3831112525955	52 757-520
25/32	G1 1/4	145	53	97	18	6,0	2,7	3831112504257	52 757-525
40/50	G2	190	66	110	40	14	4,8	3831112505018	52 757-540
60 kPa									
15/20	G1	123	45	92	7,0	1,8	1,6	3831112504837	52 758-420
25/32	G1 1/4	145	53	97	18	6,0	2,7	3831112504622	52 758-425
40/50	G2	190	66	110	40	14	4,8	3831112504240	52 758-440
100 kPa									
15/20	G1	123	45	92	7,0	1,8	1,6	3831112504868	52 758-520
25/32	G1 1/4	145	53	97	18	6,0	2,7	3831112525733	52 758-525
40/50	G2	190	66	110	40	14	4,8	3831112504066	52 758-540

→ = Flow direction

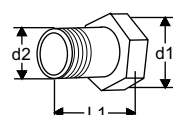
Kvd = Is the Kv value of the differential pressure control component when fully open.

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

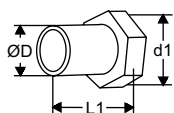
**With female thread Rc**Threads according to ISO 7-1
Swivelling nut

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

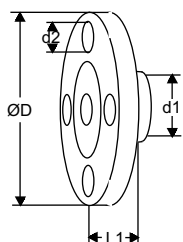
*) Fitting length (from the gasket surface to the end of the connection).



For welding

Swivelling nut

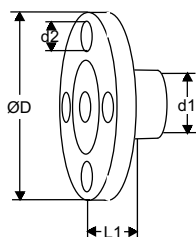
d1	D	L1*	EAN	Article No
G1	20,8	37	3831112500945	52 759-315
G1	26,3	42	3831112500952	52 759-320
G1 1/4	33,2	47	3831112500969	52 759-325
G1 1/4	40,9	47	3831112500976	52 759-332
G2	48,0	47	3831112501140	52 759-340
G2	60,0	52	3831112501294	52 759-350



With flange

Flange according to EN-1092-2:1997, type 16.

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)

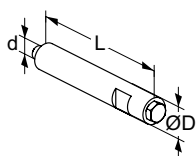
Attention! Must be used on the inlet side.

Flange according to EN-1092-2:1997, type 16.

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).

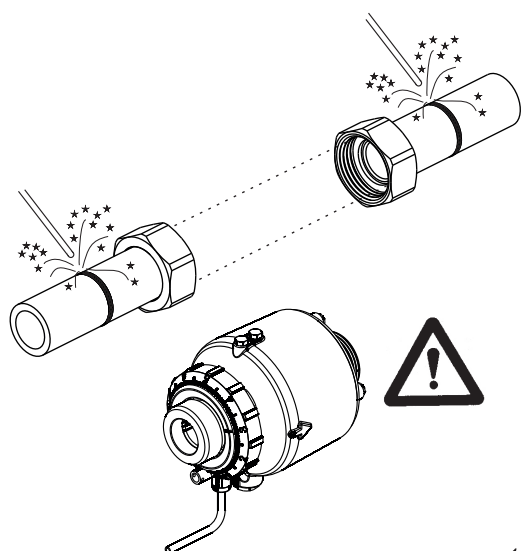
Accessories



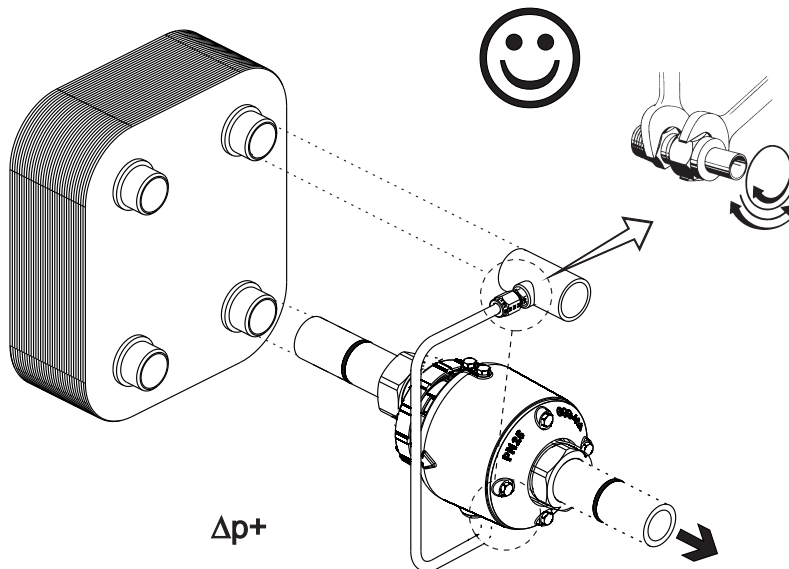
Venting extension

Suitable when insulation is used.
Stainless steel/EPDM/Brass.

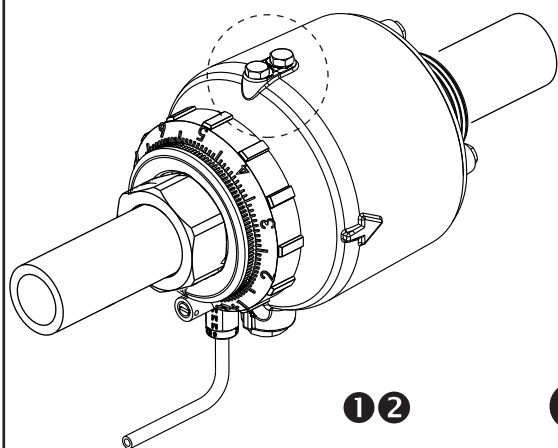
d	D	L	EAN	Article No
M6	12	70	3831112531727	52 759-220



1



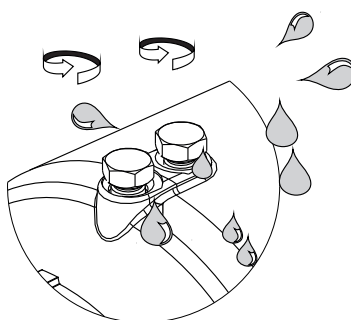
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1 2

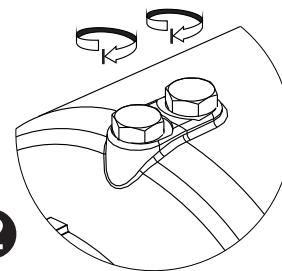
SW 8

Max. 2 x 360°



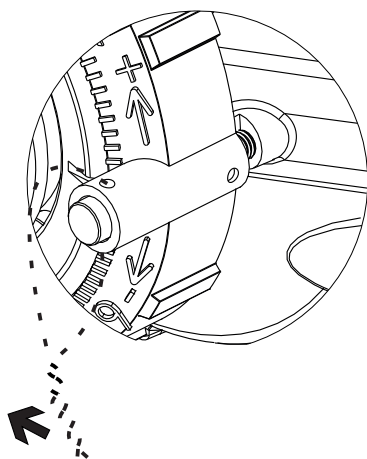
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Mp = 0,5 Nm

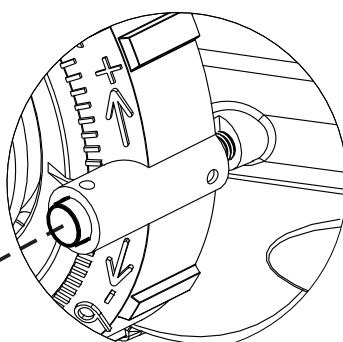


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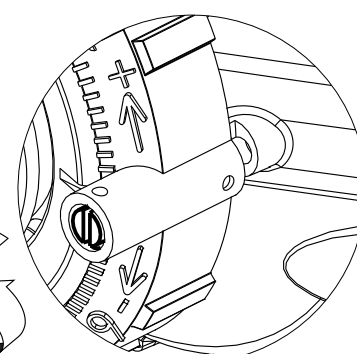
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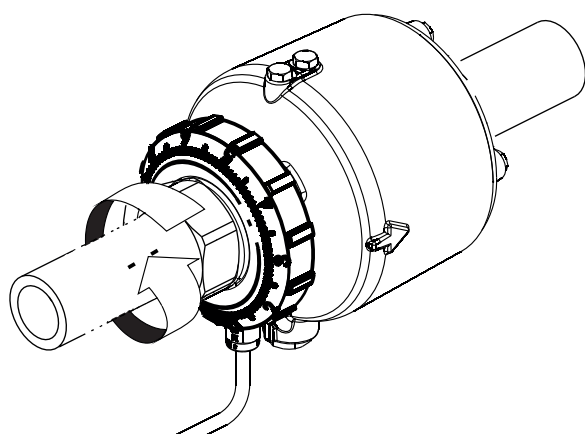


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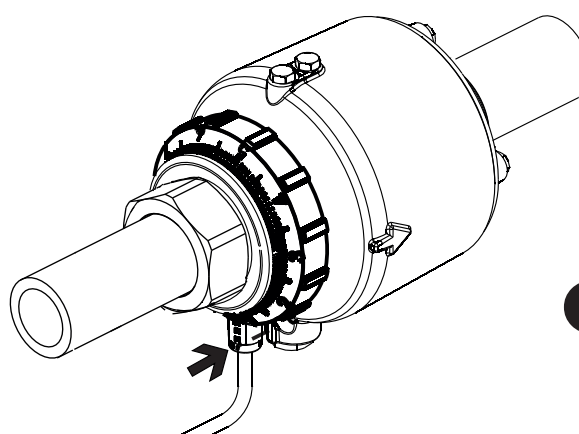
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5

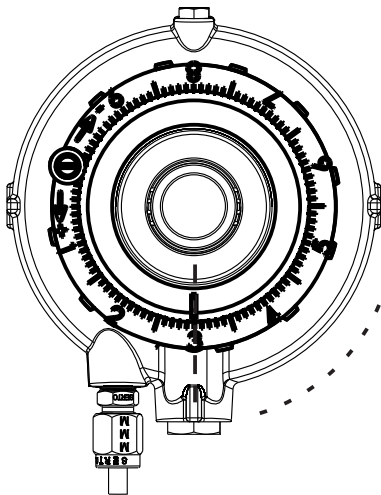


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Approved by: _____

13182 - Navodilo (smeško) DKH 512 DN15/20 LF by Jože Hočvar 19.06.2012 - Rev. A



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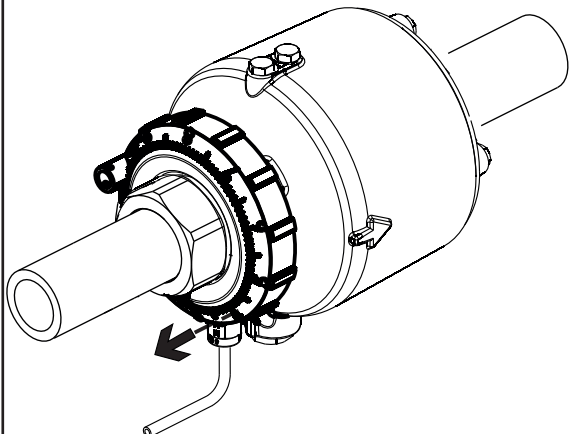
DKH 512 DN 15/20 ; Fc=12

8

Position of scale-Einstellung-Nastavitev										
	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	79	282	468	647	816	945	1040	1062	1072
,1	8	99	301	486	664	829	955	1042	1063	1073
,2	16	120	319	504	681	842	964	1044	1064	1074
,3	24	140	338	522	698	855	974	1047	1065	1075
,4	32	160	356	540	715	868	983	1049	1066	1076
,5	40	181	375	558	732	881	993	1051	1067	1077
,6	47	201	394	575	748	893	1002	1053	1068	1077
,7	55	221	412	593	765	906	1012	1055	1069	1078
,8	63	241	431	611	782	919	1021	1058	1070	1079
,9	71	262	449	629	799	932	1031	1060	1071	1080

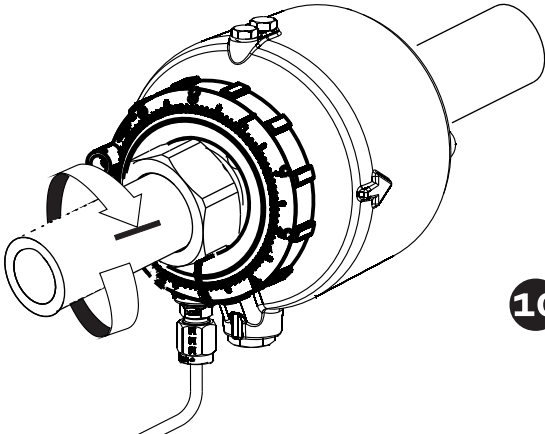
Flow - Volumenstrom - Pretok (l/h)

7



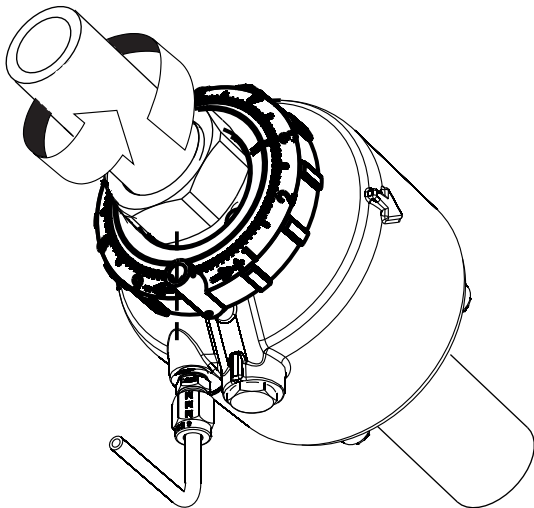
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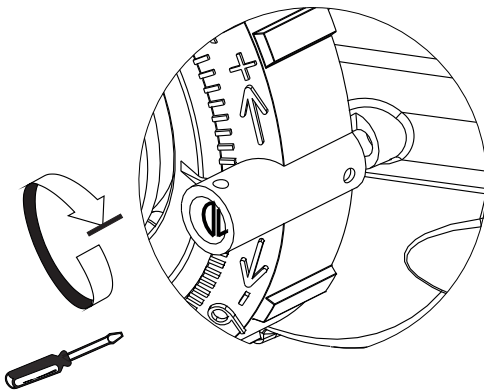
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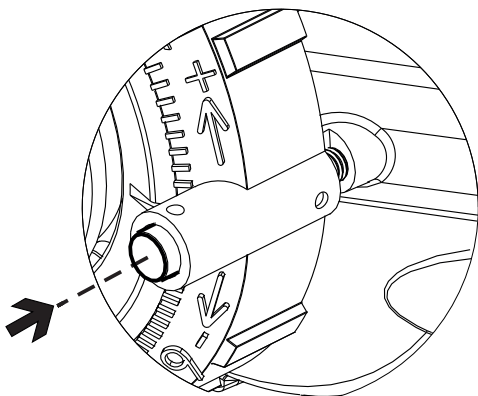
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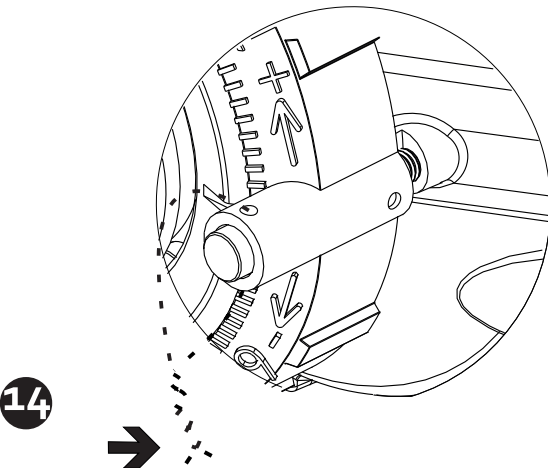
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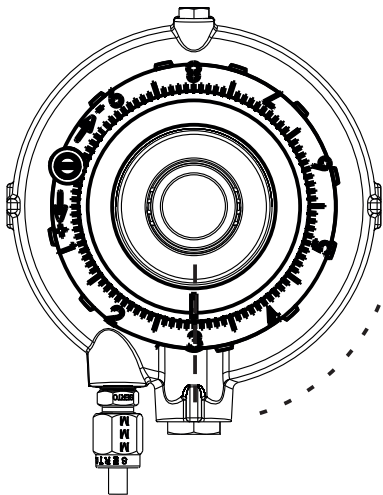
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14

13

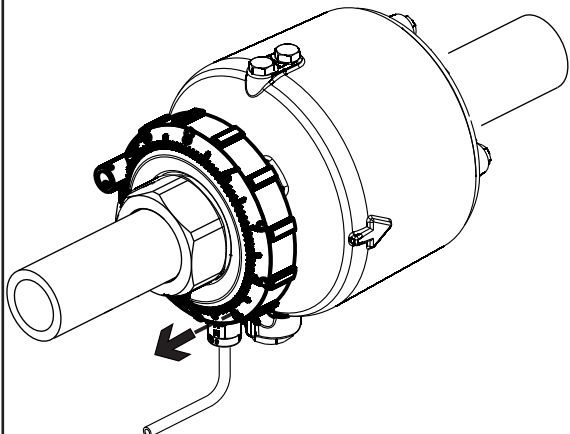


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DKH 512 DN 15/20 ; Fc = 20

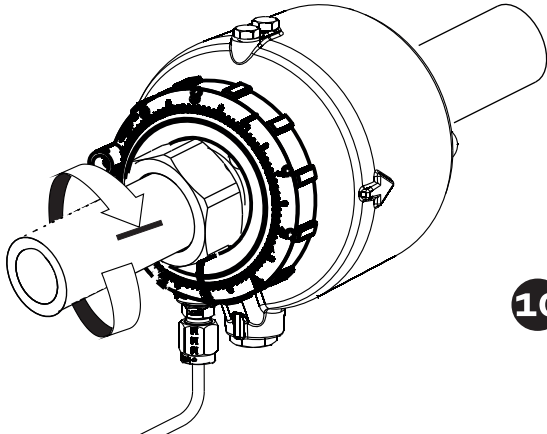
Position of scale - Einstellung - Nastavitev										
	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	66	208	449	641	861	1045	1183	1257	1274
,1	7	80	232	468	663	879	1059	1190	1259	1275
,2	13	94	256	487	685	898	1073	1198	1260	1276
,3	20	109	280	507	707	916	1086	1205	1262	1277
,4	26	123	304	526	729	935	1100	1213	1264	1278
,5	33	137	329	545	751	953	1114	1220	1266	1279
,6	40	151	353	564	773	971	1128	1227	1267	1279
,7	46	165	377	583	795	990	1142	1235	1269	1280
,8	53	180	401	603	817	1008	1155	1242	1271	1281
,9	59	194	425	622	839	1027	1169	1250	1272	1282
Flow - Volumenstrom - Pretok (l/h)										

7



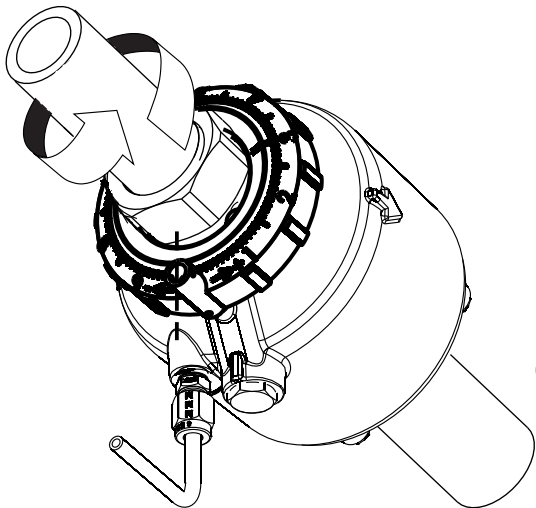
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8



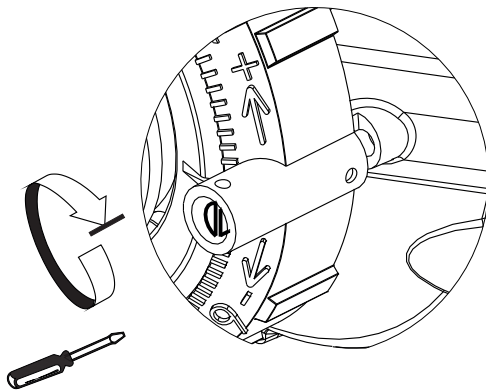
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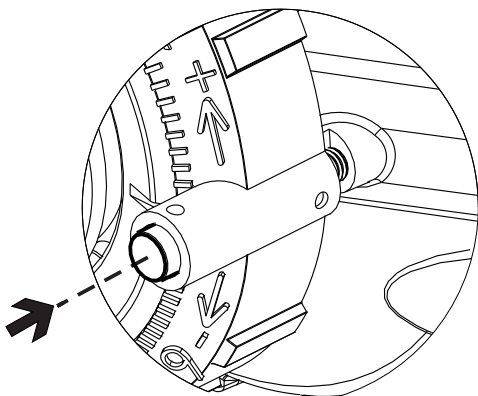
11

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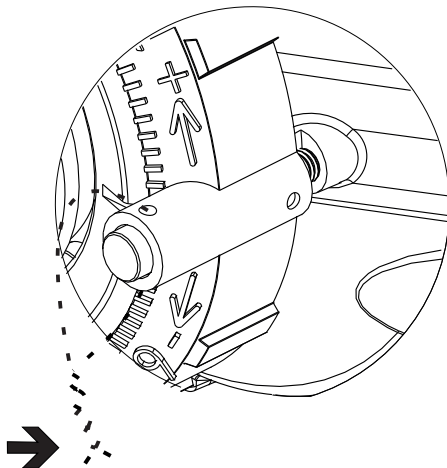
12

11



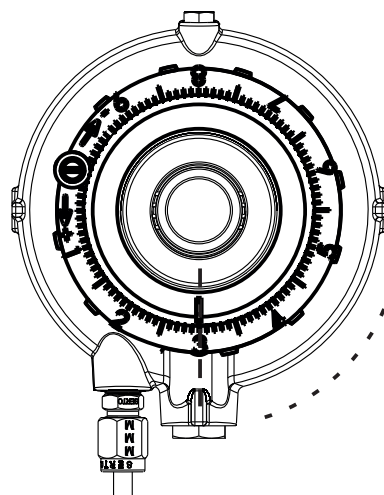
13

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DKH 512 DN 15/20 ; Fc = 40

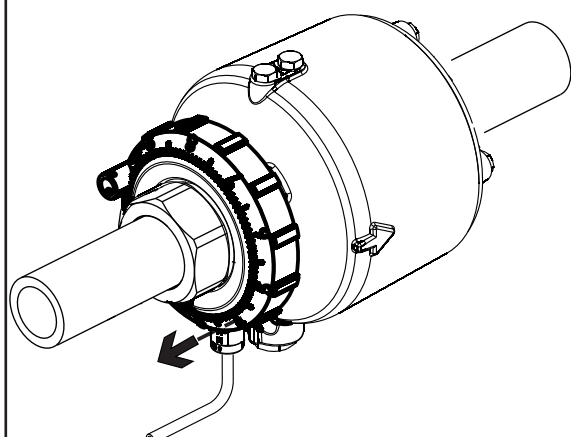
8

Position of scale - Einstellung - Nastavitev

	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	137	490	816	1125	1419	1682	1864	1907	1922
,1	14	172	523	847	1154	1445	1700	1868	1909	1923
,2	27	208	555	878	1184	1472	1718	1873	1910	1924
,3	41	243	588	909	1213	1498	1737	1877	1912	1924
,4	55	278	620	940	1243	1524	1755	1881	1913	1925
,5	69	314	653	971	1272	1551	1773	1886	1915	1926
,6	82	349	686	1001	1301	1577	1791	1890	1916	1927
,7	96	384	718	1032	1331	1603	1809	1894	1918	1928
,8	110	419	751	1063	1360	1629	1828	1898	1919	1928
,9	123	455	783	1094	1390	1656	1846	1903	1921	1929

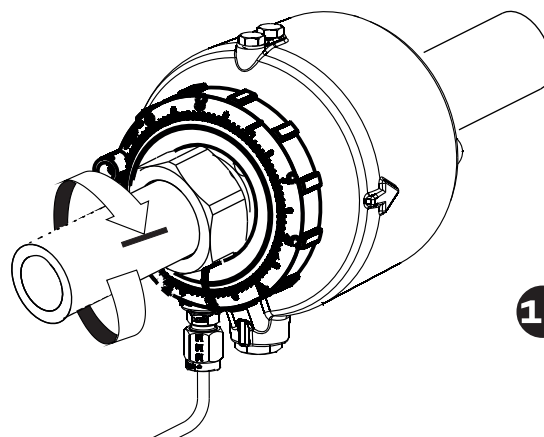
Flow - Volumenstrom - Pretok (l/h)

7



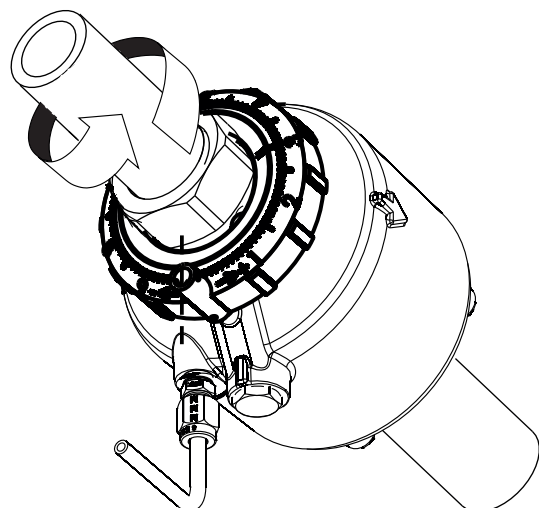
9

8



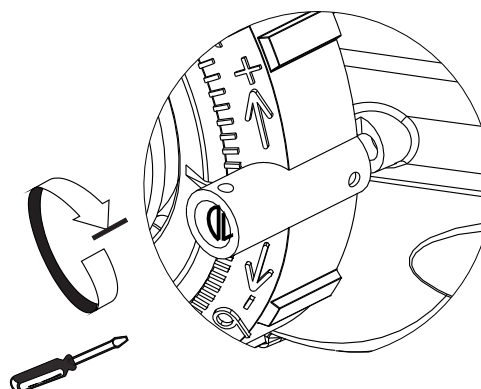
10

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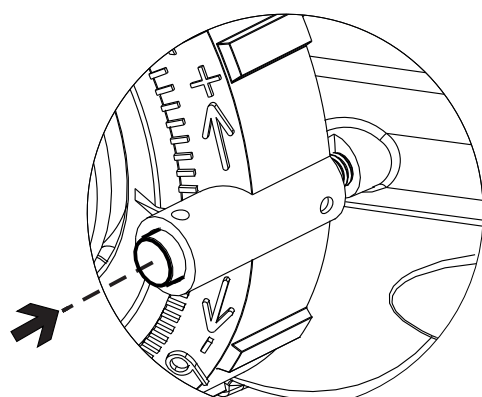
11

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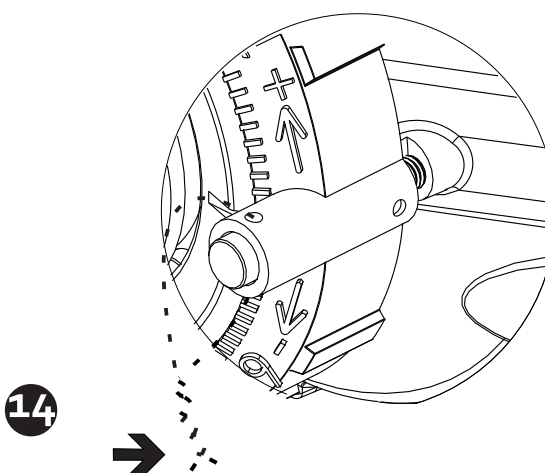
12

11



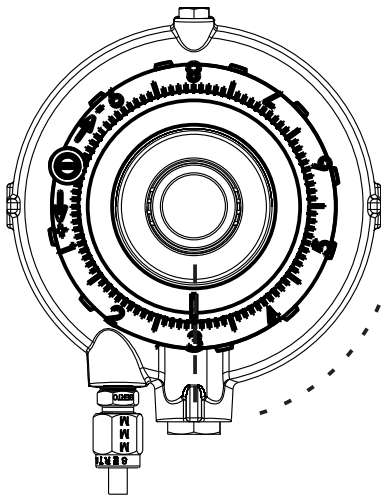
13

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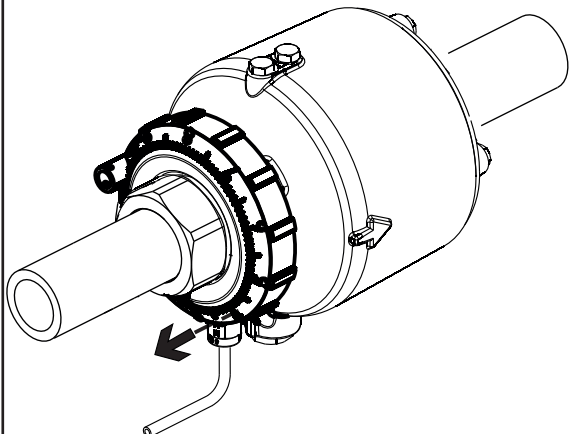
8

DKH 512 DN 25/32 ; Fc=12

8

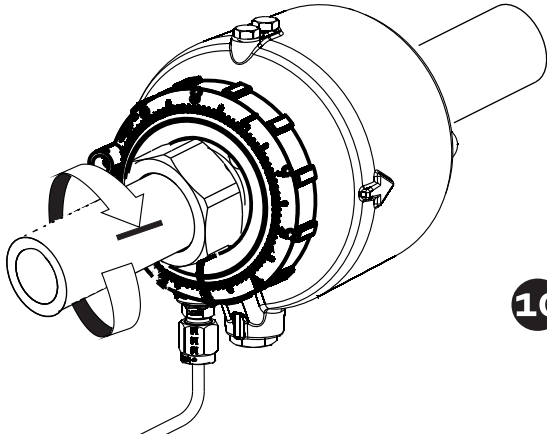
Position of scale - Einstellung - Nastavitev										
	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	271	873	1464	1970	2445	2880	3169	3404	3554
,1	27	331	932	1515	2018	2489	2909	3193	3419	3560
,2	54	391	991	1565	2065	2532	2938	3216	3434	3565
,3	81	452	1050	1616	2113	2576	2967	3240	3449	3571
,4	108	512	1109	1666	2160	2619	2996	3263	3464	3576
,5	136	572	1169	1717	2208	2663	3025	3287	3479	3582
,6	163	632	1228	1768	2255	2706	3053	3310	3494	3587
,7	190	692	1287	1818	2303	2750	3082	3334	3509	3593
,8	217	753	1346	1869	2350	2793	3111	3357	3524	3598
,9	244	813	1405	1919	2398	2837	3140	3381	3539	3604
Flow - Volumenstrom - Pretok (l/h)										

7



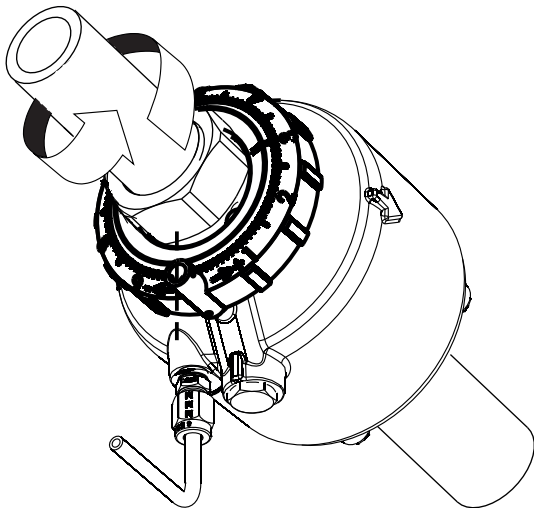
9

8



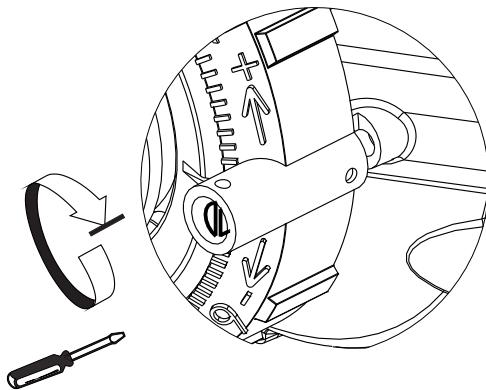
10

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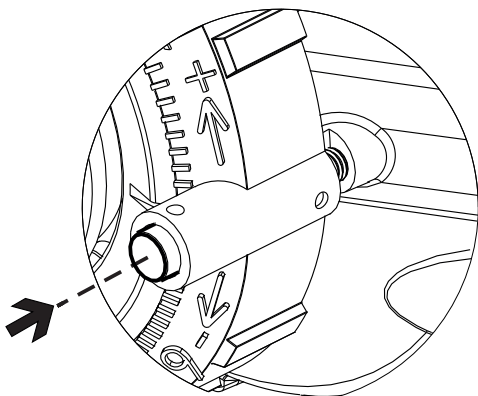
11

10



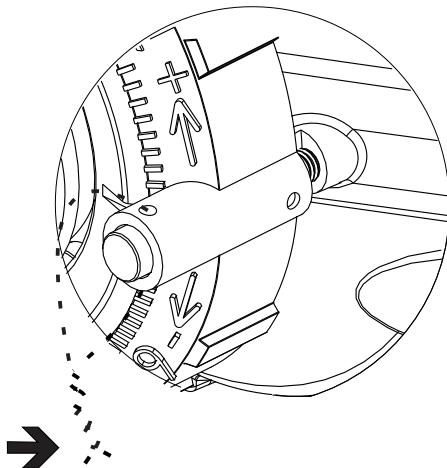
12

11



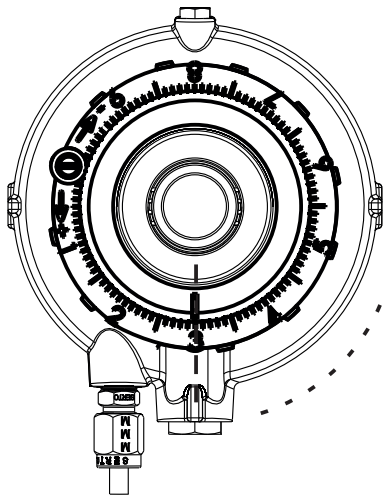
13

12



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8

DKH 512 DN 25/32 ; Fc=20

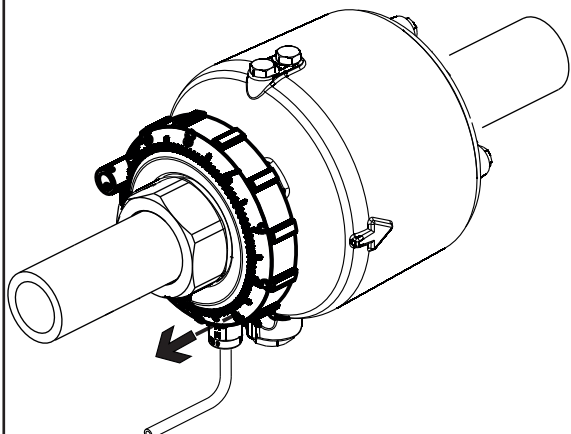
Position of scale-Einstellung-Nastavitev

	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	231	954	1668	2366	3032	3557	3922	4230	4387
,1	23	303	1027	1756	2433	3085	3594	3953	4246	4394
,2	46	376	1101	1824	2499	3137	3630	3984	4261	4401
,3	69	448	1174	1891	2566	3190	3667	4014	4277	4408
,4	92	520	1248	1959	2632	3242	3703	4045	4293	4415
,5	116	593	1321	2027	2699	3295	3740	4076	4309	4422
,6	139	665	1394	2095	2766	3347	3776	4107	4324	4428
,7	162	737	1468	2163	2832	3400	3813	4138	4340	4435
,8	185	809	1541	2230	2899	3452	3849	4168	4356	4442
,9	208	882	1615	2298	2965	3505	3886	4199	4371	4449

Flow - Volumenstrom - Pretok (l/h)

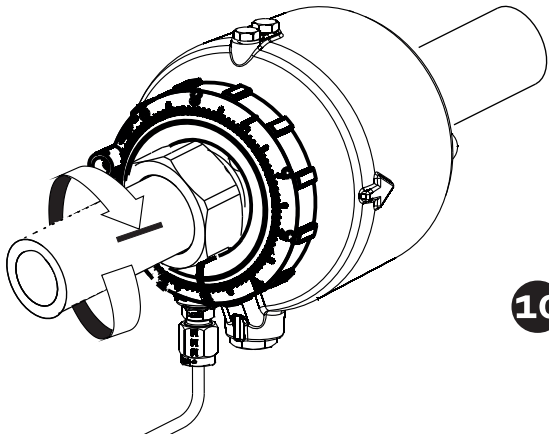
8

7



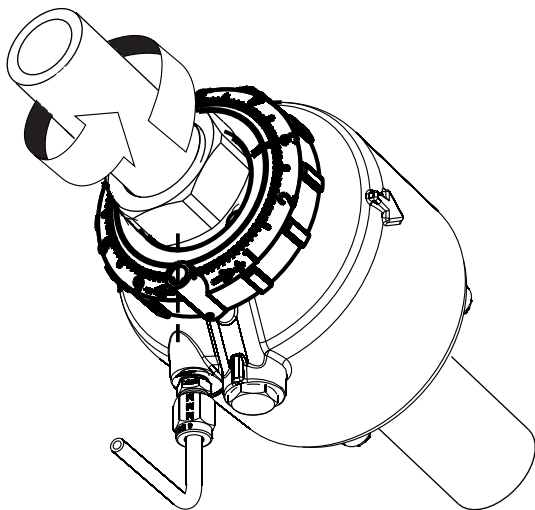
9

8



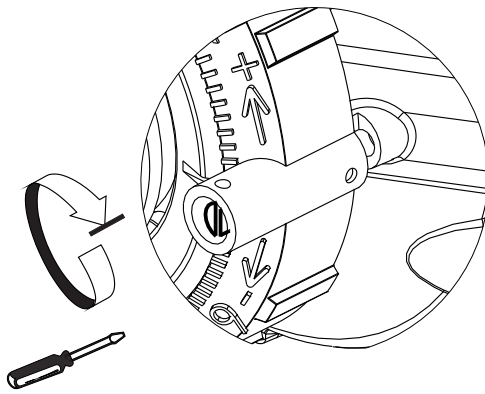
10

9



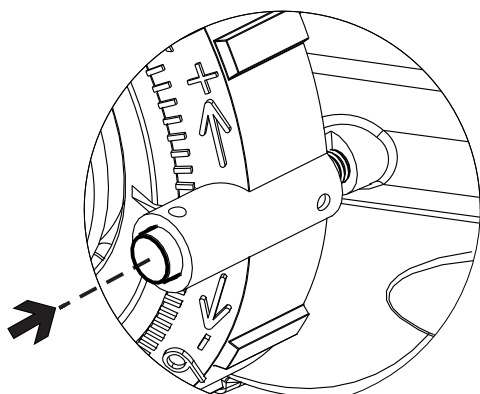
11

10



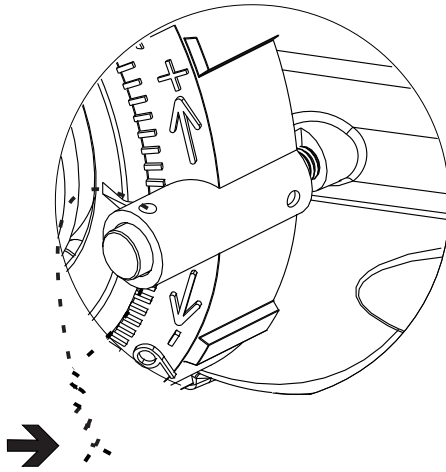
12

11



13

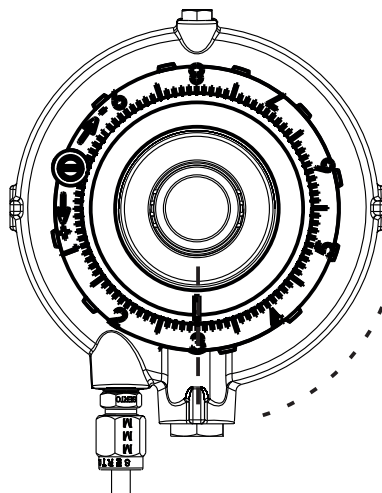
12



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3



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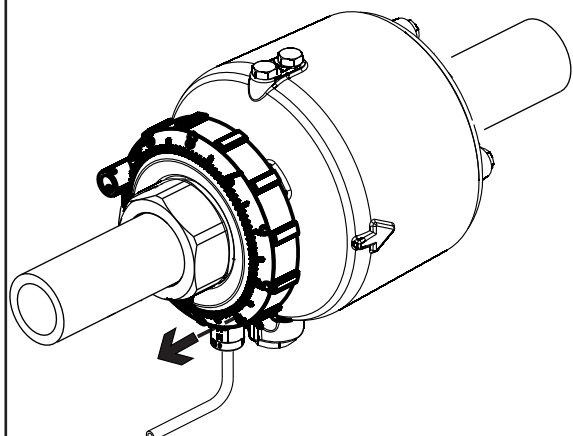
DKH 512 DN 25/32 ; Fc=40

Position of scale - Einstellung - Nastavitev

	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	728	1780	2886	3708	4615	5264	5734	6077	6121
,1	73	833	1891	2968	3799	4680	5311	5768	6081	6122
,2	146	938	2001	3050	3889	4745	5358	5803	6086	6123
,3	218	1044	2112	3133	3980	4810	5405	5837	6090	6124
,4	291	1149	2222	3215	4071	4875	5452	5871	6095	6125
,5	364	1254	2333	3297	4162	4940	5499	5906	6099	6127
,6	437	1359	2444	3379	4252	5004	5546	5940	6103	6128
,7	510	1464	2554	3461	4343	5069	5593	5974	6108	6129
,8	582	1570	2665	3544	4434	5134	5640	6008	6112	6130
,9	655	1675	2775	3626	4524	5199	5687	6043	6117	6131

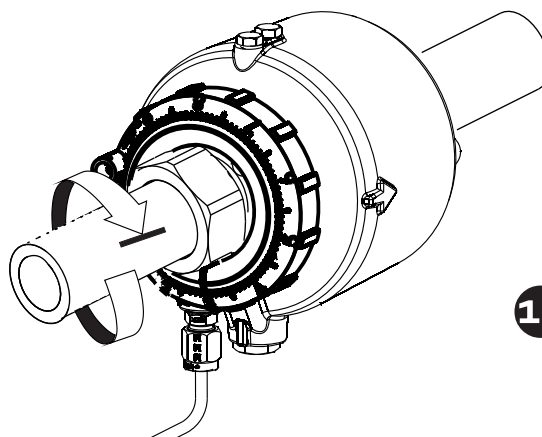
Flow - Volumenstrom - Pretok (l/h)

7



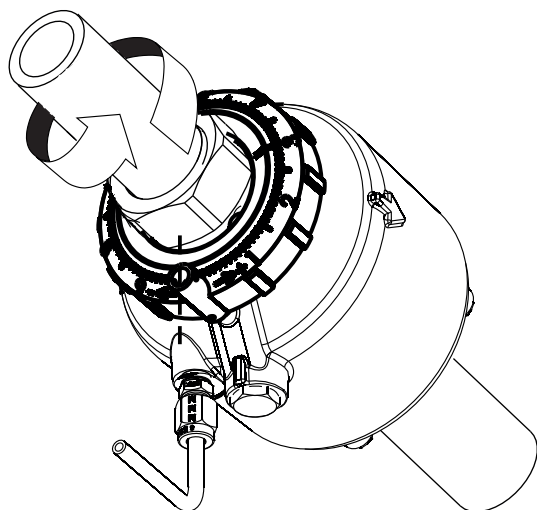
9

8



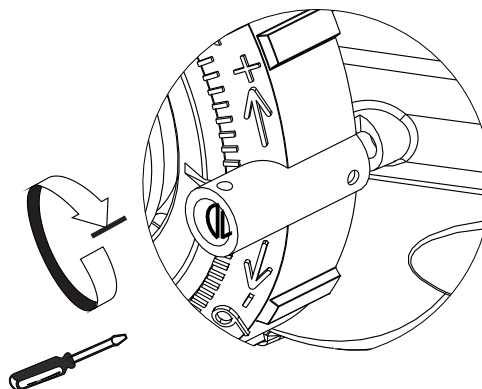
10

9



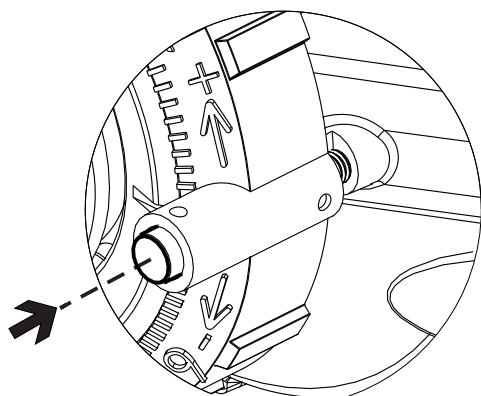
11

10



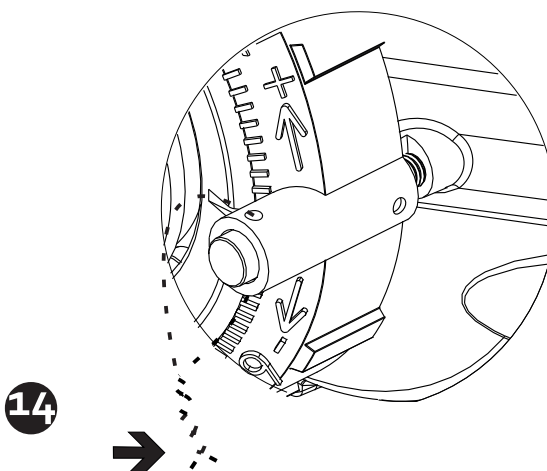
12

11



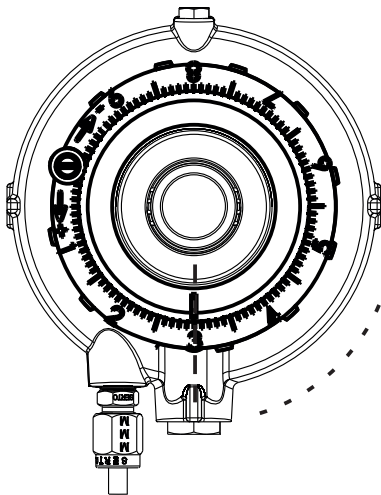
13

12



14

13



8

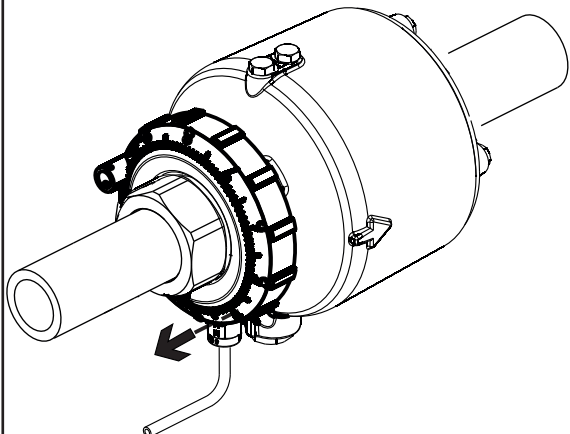
DKH 512 DN 40/50 ; Fc=12

8

	Position of scale - Einstellung - Nastavitev									
	Q0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	337	1509	2791	4106	5430	6587	7579	8089	8172
,1	34	454	1637	2923	4238	5546	6686	7630	8097	8174
,2	67	571	1765	3054	4371	5681	6785	7681	8106	8176
,3	101	689	1894	3186	4503	5777	6885	7732	8114	8178
,4	135	806	2022	3317	4636	5893	6984	7783	8122	8180
,5	169	923	2150	3449	4768	6009	7083	7834	8131	8182
,6	202	1040	2278	3580	4900	6124	7182	7885	8139	8184
,7	236	1157	2406	3712	5033	6240	7281	7936	8147	8186
,8	270	1275	2535	3843	5165	6355	7381	7987	8155	8188
,9	303	1392	2663	3975	5298	6471	7480	8038	8164	8190

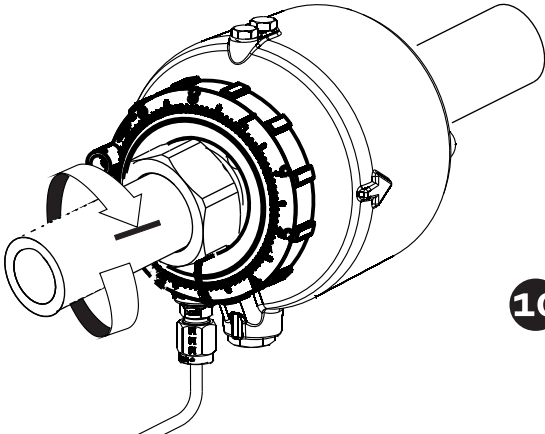
Flow - Volumenstrom - Pretok (l/h)

7



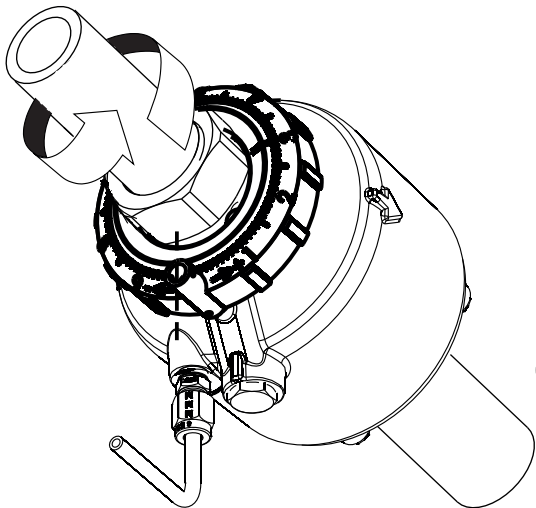
9

8



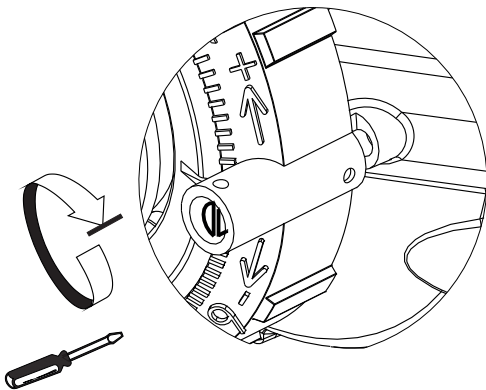
10

9



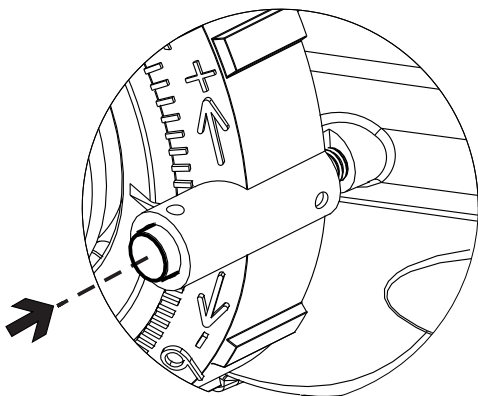
11

10



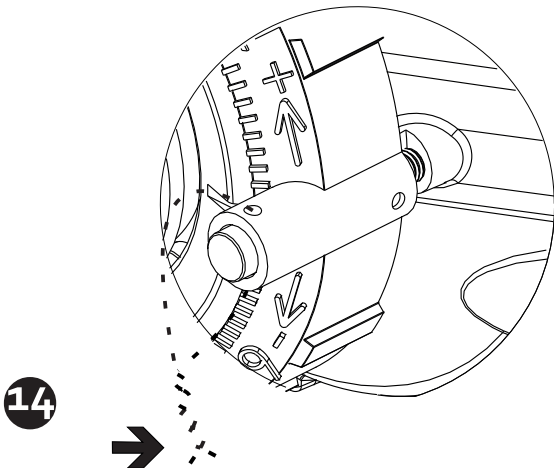
12

11



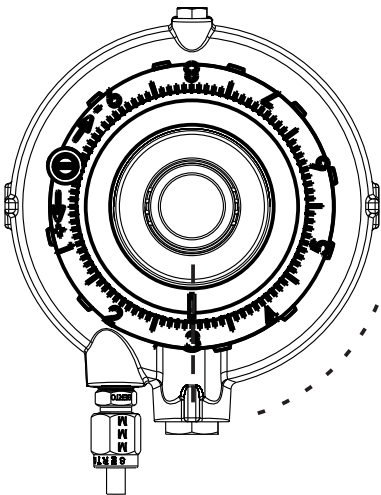
13

12



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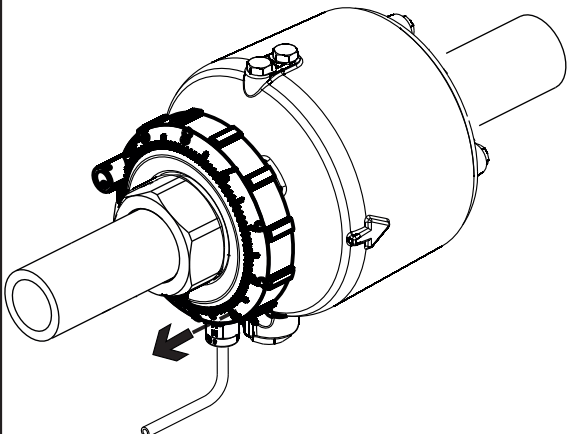
DKH 512 DN 40/50 ; Fc=20 8

Position of scale - Einstellung - Nastavitev

	00	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	7	284	1329	2700	4406	5779	7409	8786	9869	10712
,1	35	389	1467	2873	4548	5942	7546	8890	9950	10726
,2	62	498	1605	3044	4681	6101	7685	9001	10034	10740
,3	90	598	1744	3216	4823	6267	7822	9112	10119	10753
,4	118	706	1872	3384	4956	6433	7964	9218	10204	10767
,5	146	807	2015	3555	5098	6594	8098	9324	10289	10781
,6	173	911	2152	3725	5230	6754	8232	9435	10373	10795
,7	201	1017	2289	3896	5368	6920	8371	9541	10458	10809
,8	229	1120	2425	4063	5505	7086	8511	9647	10543	10822
,9	256	1222	2563	4238	5642	7246	8648	9758	10627	10836

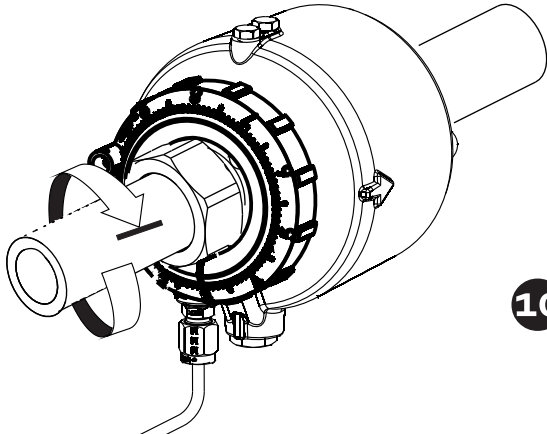
Flow - Volumenstrom - Pretok (l/h)

7



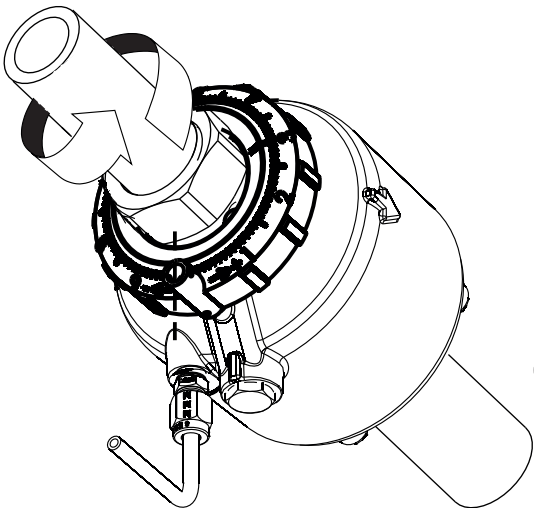
9

8



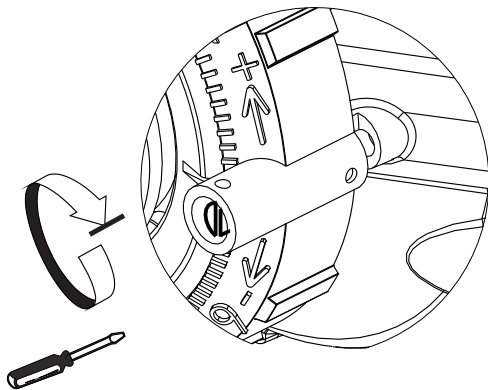
10

9



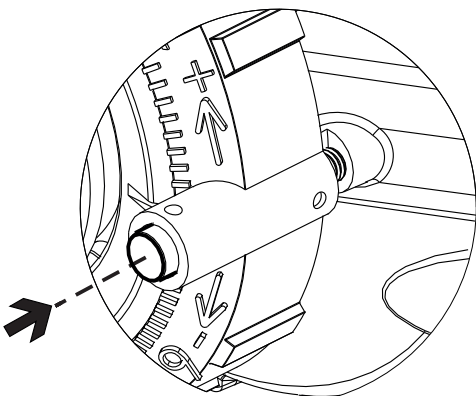
11

10



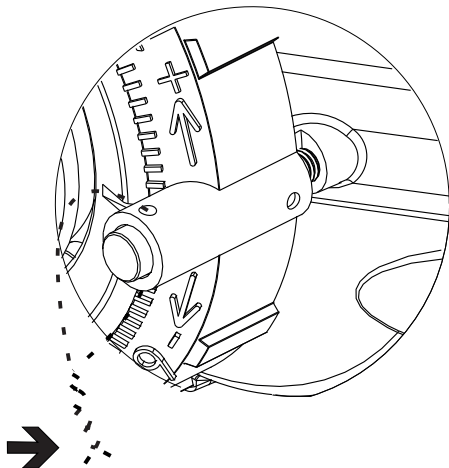
12

11



13

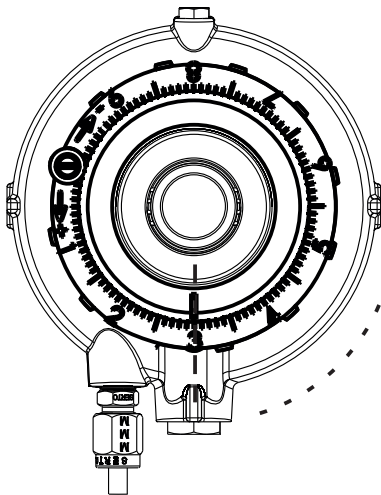
12



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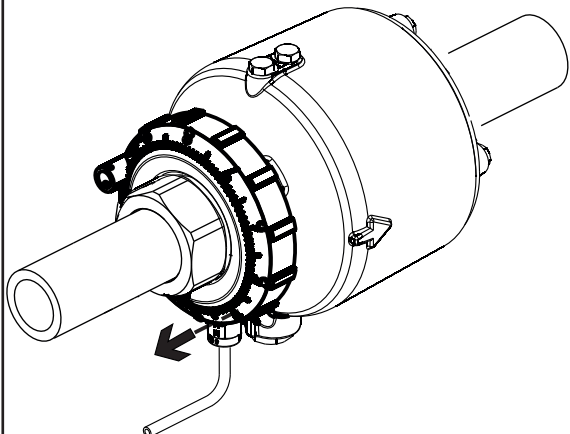
DKH 512 DN 40/50 ; Fc=40

Position of scale - Einstellung - Nastavitev

	0,0	1,0	2,0	3,0	4,0	5,0	6,0	7,0	8,0	9,0
,0	0	37	212	912	3150	5571	7920	10140	12228	13994
,1	4	55	282	1136	3392	5806	8142	10349	12405	14082
,2	7	72	352	1360	3634	6041	8364	10558	12581	14169
,3	11	90	422	1583	3876	6276	8586	10766	12758	14257
,4	15	107	492	1807	4118	6511	8808	10975	12934	14344
,5	19	125	562	2031	4361	6746	9030	11184	13111	14432
,6	22	142	632	2255	4603	6980	9252	11393	13288	14520
,7	26	160	702	2479	4845	7215	9474	11602	13464	14607
,8	30	177	772	2702	5087	7450	9696	11810	13641	14695
,9	33	195	842	2926	5329	7685	9918	12019	13817	14782

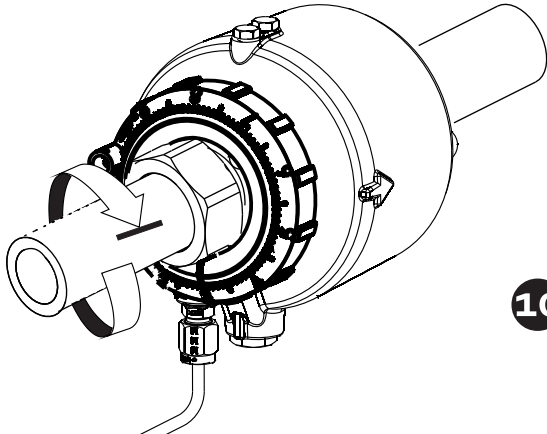
Flow - Volumenstrom - Pretok (l/h)

7



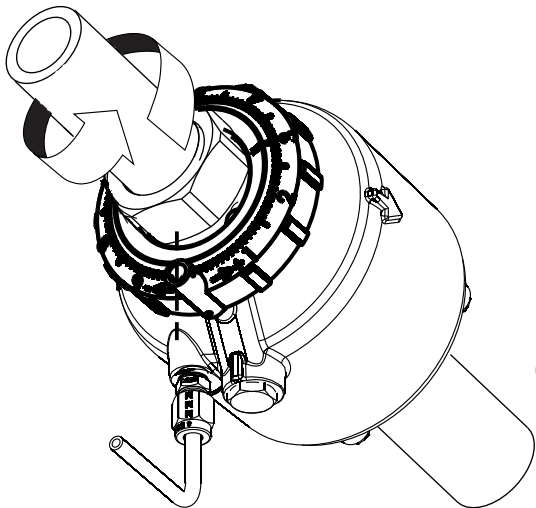
9

8



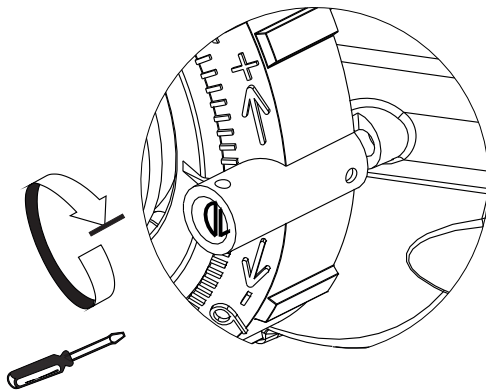
10

9



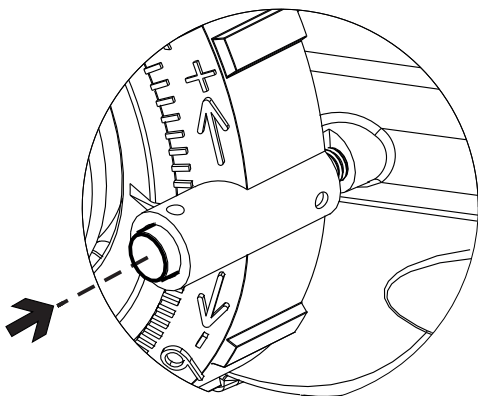
11

10



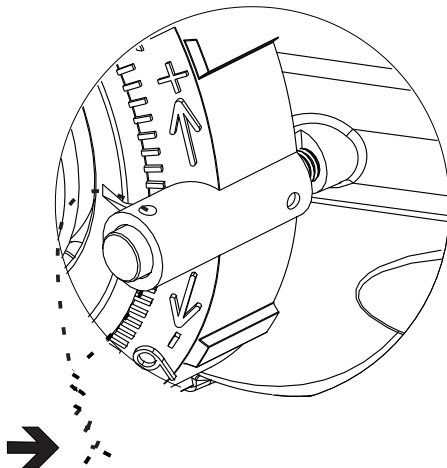
12

11



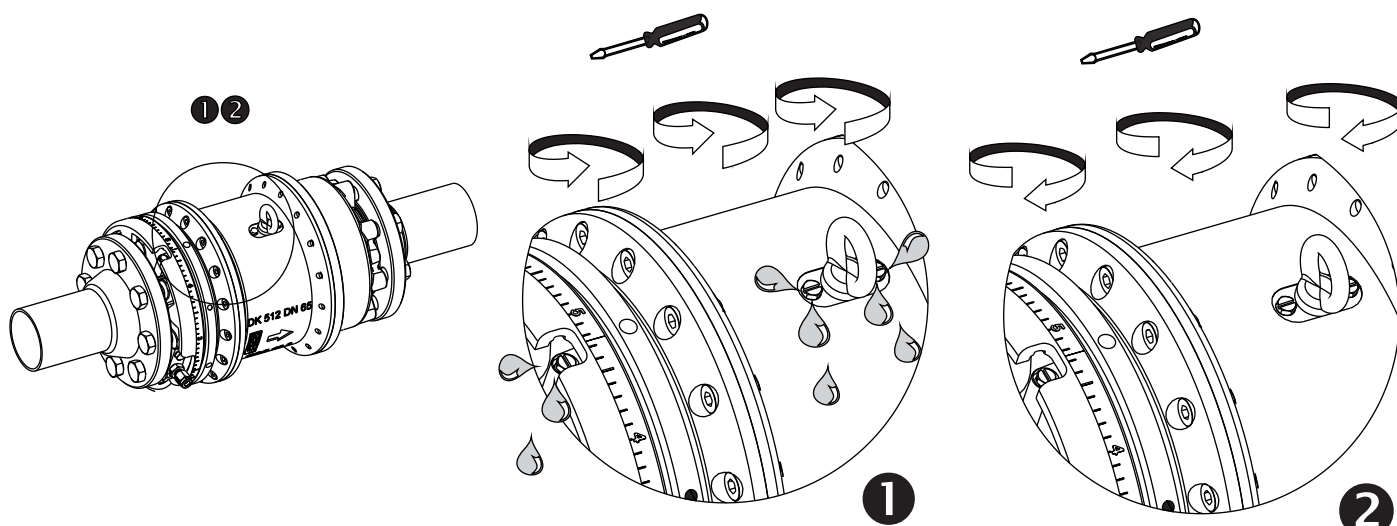
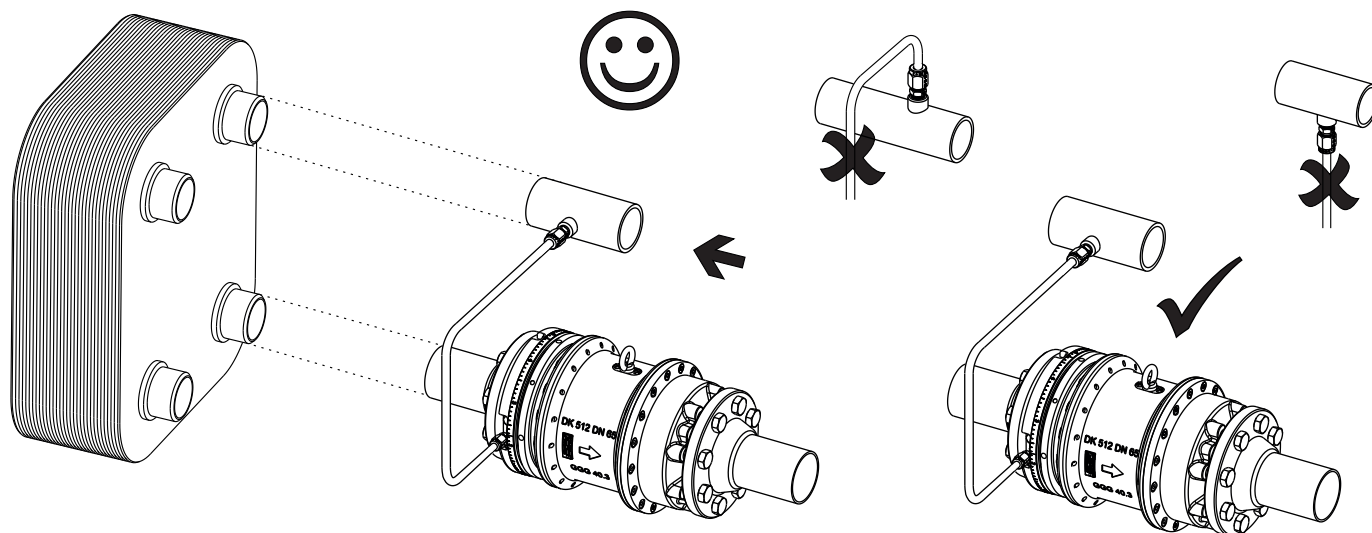
13

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FLOW ADJUSTMENT

Define the designed maximum flow of the system.

Find the corresponding number from the flow chart (for example 3,5).

Adjust (screw or unscrew) the flow adjustment nut (1) using the stick (2) until the red pointer (3) is aligned with the corresponding number (for example 3,5).

The water flow has been measured on each individual valve in all positions of adjustment scale. Each valve has its own identity number and individual flow chart included in the scope of supply. The flow chart corresponds to water only. The copy of the chart for the water or other medium can be provided by supplier. Provide next data: medium, type, DN, Fc, serial number.

