Inspection glass type 28

Material	PVC-U	PP	PVDF
Sealing material (optionally)	• EPDM	• FKM	
Working temperature	0 °C up to 60 °C[1)]	0 °C up to 80 °C[1)]	– 20 °C up to 100 °C[1)]
Nominal size	DN 15 up to DN 150		
Connection with pipe	Flange connection acc. to DIN EN 1092-1 - PN 10[2)]		
Length	Company standard		

[2)] Flange connection also acc. to ANSI available

[1)] Working temperatures for sealing materials:
EPDM: -20 up to 90 °C
FKM: -20 up to 120 °C

Example for an invitation to tender text:
Inspection glass type 28, DN 25, PP / EPDM, PN 10, flange connection acc. to DIN EN 1092-1 - PN 10, length 160 mm

Document: *FRANK_DB_L7_Schauglas Typ 28_01-2024_EN*

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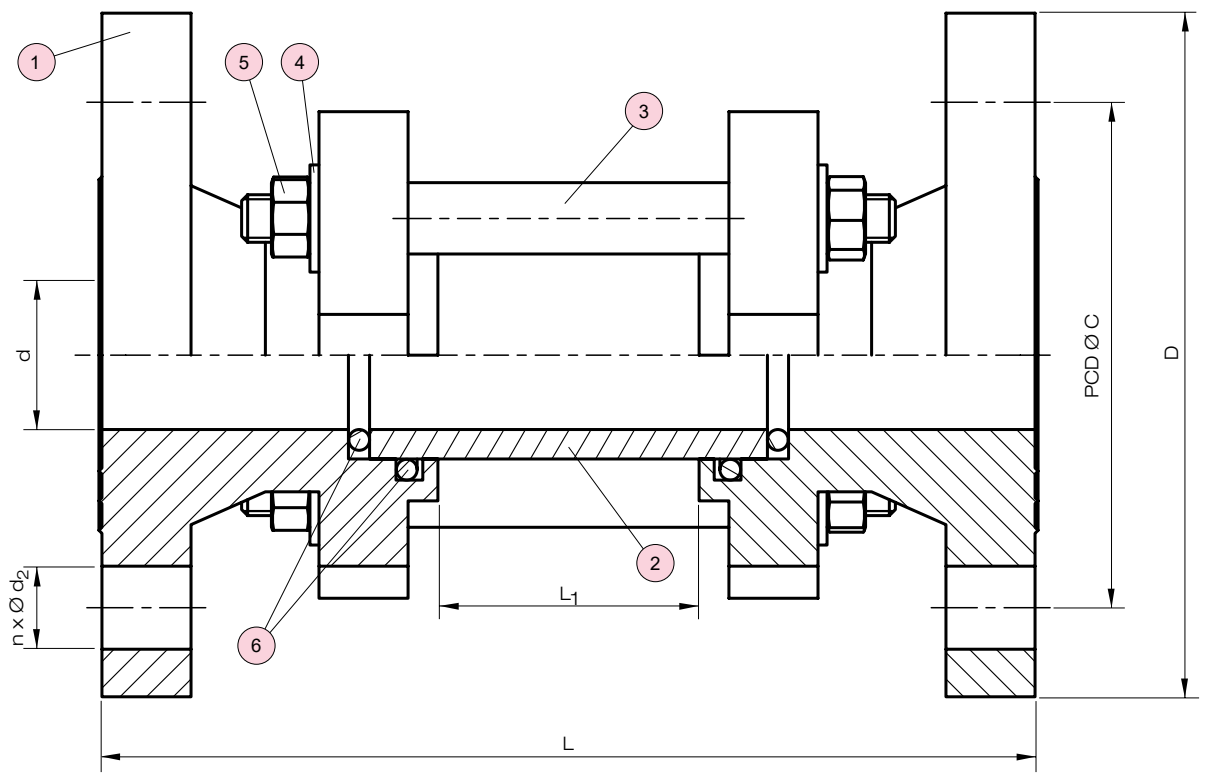

No.	Description	Number	Material
1	Flange	1	PVC, PP, PVDF
2	Pipe	1	Borosilicate
3	Threaded rod	4	A2 - 1.4301 (SUS 304)
4	Washer	8	A2 - 1.4301 (SUS 304)
5	Nut	8	A2 - 1.4301 (SUS 304)
6	O-ring*)	4	EPDM, FKM

*) Wearing parts

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Dimensions and weights - flange connection acc. to DIN

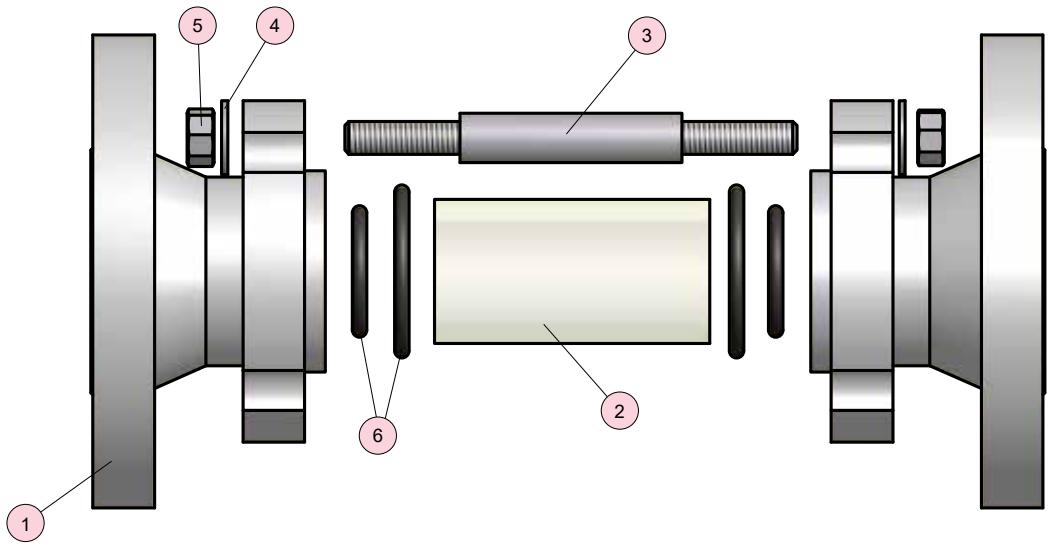
Dimensions in mm							Weight in kg / pc.		
DN	d	L	D	L_1	C	n x d_2	PVC	PP	PVDF
15	20	140	95	26	65	4 x 14	0,80	0,50	1,00
20	25	150	105	36	75	4 x 14	1,30	0,80	1,60
25	32	160	115	46	85	4 x 14	1,30	1,00	1,50
32	40	180	140	58	100	4 x 18	1,60	1,20	1,80
40	50	200	150	70	110	4 x 18	2,10	1,60	2,40
50	63	230	165	92	125	4 x 18	2,60	1,90	2,90
65	75	290	185	116	145	4 x 18	3,80	3,00	4,50
80	90	310	200	126	160	8 x 18	5,60	4,20	6,30
100	110	350	220	166	180	8 x 18	6,40	4,60	7,00
125	110	400	250	196	210	8 x 18	13,30	8,50	16,60
150	160	480	285	240	240	8 x 22	13,80	10,80	16,00

Working pressure[1)] p_B in bar

Body material	T_B [°C]	p_B [bar]		
		DN 25 – 50	DN 65 – 80	DN 100 – 150
PVC-U	0 up to 20	10	7	6
	40	6	6	6
	60	3	3	3
PP	0 up to 30	10	7	6
	50	7	7	6
	80	3	3	3
PVDF	– 20 up to 65	10	7	6
	80	7,5	7	6
	100	4,5	4,5	4,5

[1)] Definition see chapter T2 / Technical information

Inspection glass type 28



all sizes

General information: *Inspection glasses made of PVC, PP and PVDF are used for visual inspection of fillings and flows in pipelines. The inspection glasses enable reliable monitoring of the function and performance of individual apparatus as well as total systems.*

- Barrier-free passage.
- Double process reliability due to two O-rings.

Disassembly of the valve

Attention: *Never dismantle the valve when the pipe is under pressure.*
During disassembly, it must be ensured that all the components can be reinstalled in their original locations.

Assembly of the valve

- Before the assembly all parts have to be checked for damages.
- All parts have to be clean.

Before installation

- Flush the pipe, check all the screws on the valve, and retighten carefully, if necessary.

Notes for correct installation

- The valve must be installed stress-free in the pipe (plane parallelism, axial, overall length).
- Tighten the connecting screws evenly and crosswise (observe tightening torques). In general, use washers for the nuts and bolts in plastic flanges.
- The use of fullface gaskets is recommended.
- After assembly carry out a pressure test acc. to DIN EN 12266-1.

Important:

- After commissioning, all the screws on the valve must be checked, and retightened if necessary.