Y-strainer type 36

Body 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 120 °C[1)]
Nominal size	DN 15 up to DN 50		
Connection with pipe	Cement spigot	• True union with -cement- / welding socket -welding spigot	• Flange with dimensions acc. to DIN EN 1092-1 - PN 10
Length	Company standard	Company standard	DIN EN 558-1 series FTF 1 (DIN 3202 - series F 1)
Mesh width	0,5 mm[2)]		

[2)] 0,25 mm or 1,0 mm on request

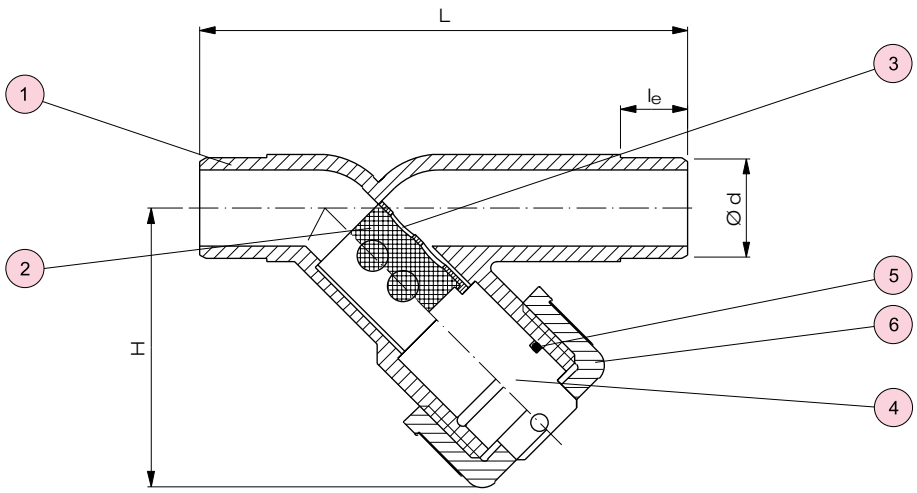
[1)] Working temperatures for sealing materials:
EPDM: -20 up to 90 °C
FKM: -20 up to 120 °C

Example for an invitation to tender text:
Y-strainer type 36, DN 40, PN 10, PVC-U / EPDM, flange connection acc. to DIN EN 1092-1 - PN 10, length acc. to DIN EN 558-1 series FTF 1, mesh width 0,5 mm

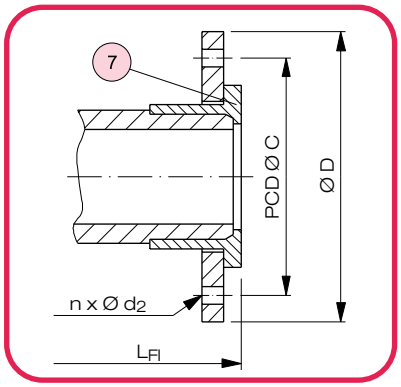
Document: *FRANK_DB_L7_Schrägsitz-Schmutzfänger Typ 36_01-2024_EN*

Y-strainer type 36, PVC-U

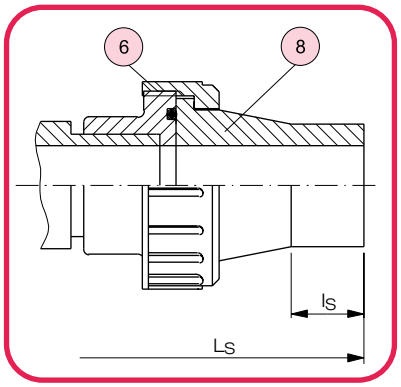
Basic valve



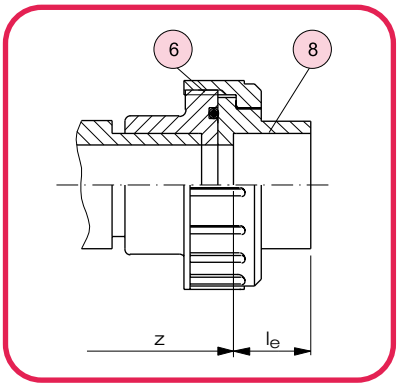
Flange



True union with spigot



True union with socket



No.	Description	Number	Material
1	Body	1	PVC-U
2	Filter screen *)	1	ETFE
3	Screen support	1	PVC-U
4	Screen union nut	1	PVC-U

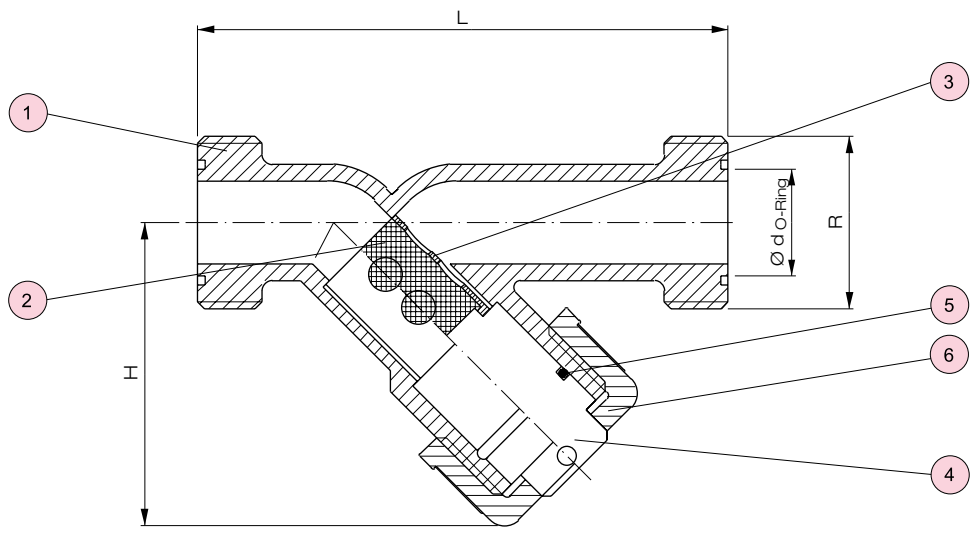
No.	Description	Number	Material
5	O-ring *)	1	EPDM, FKM 3)
6	Union nut	1	PVC-U
7	Flange adaptor and backing ring 1)	2	PVC-U
8	True union with connection 2)	2	PVC-U / PP

*) Wearing parts
1) for flanged version
2) for true union version with socket / spigot
3) Special version: CSM, NBR, FEP / Parofluor on request

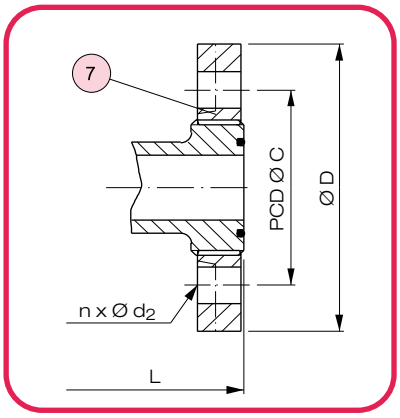
Dimensions in mm													Weight in kg / pc.		
			Spigot		Flange				True union Socket / spigot				Basic valve	Flange	True union Socket / spigot
DN	d	H	L	l_e	L_{Fl}	D	n x d_2	C	z	l_e	L_S	l_S			
15	20	75	124	17	130	95	4 x 14	65	150	16	252	38	0,18	0,36	0,26
20	25	80	144	18	150	105	4 x 14	75	170	19	278	39	0,20	0,46	0,33
25	32	90	154	20	160	115	4 x 14	85	180	22	294	39	0,30	0,67	0,50
32	40	110	174	23	180	140	4 x 18	100	204	26	320	42	0,48	1,03	0,84
40	50	128	194	26	200	150	4 x 18	110	228	31	342	44	0,79	1,42	1,21
50	63	150	224	30	230	165	4 x 18	125	266	38	384	44	1,32	2,30	2,04

Y-strainer type 36, PP and PVDF

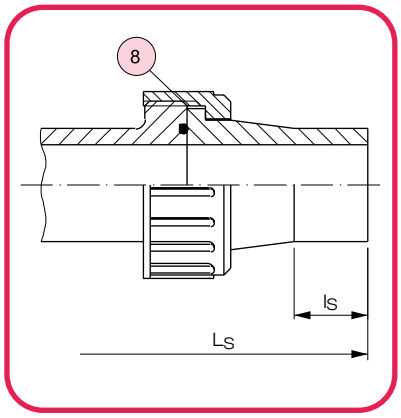
Basic valve



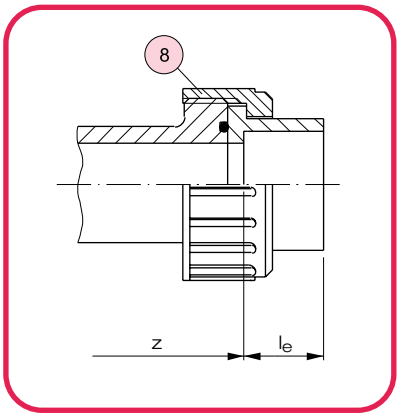
Flange



True union with spigot



True union with socket



No.	Description	Number	Material
1	Body	1	PP, PVDF
2	Filter screen*)	1	ETFE
3	Screen support	1	PP, PVDF
4	Screen union nut	1	PP, PVDF

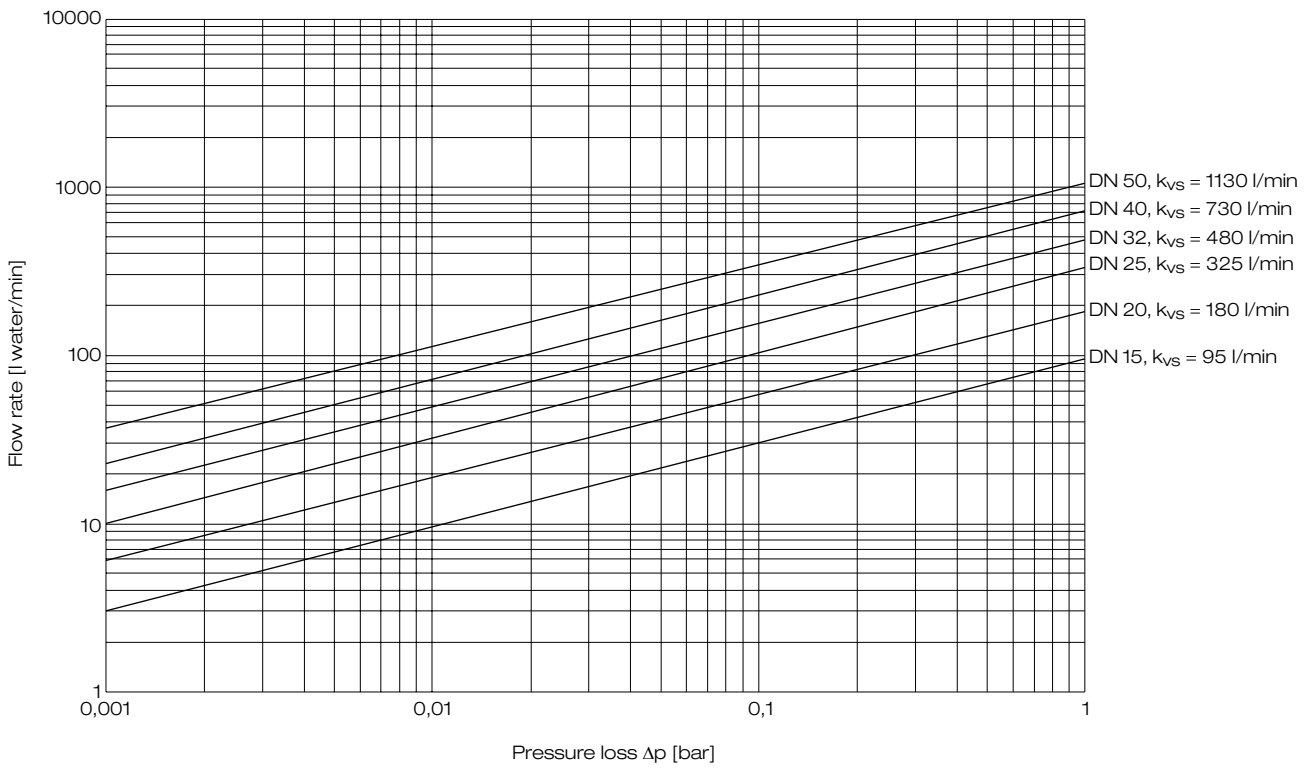
No.	Description	Number	Material
5	O-ring *)	1	EPDM, FPM 3)
6	Union nut	1	PP, PVDF
7	Threaded flange1)	2	PP-FRP
8	True union with connection2)	2	PP, PVDF / PE 100

*) Wearing parts
1) for flanged version
2) for true union version with socket / spigot
3) Special version: CSM, NBR, FEP / Parofluor on request

Dimensions in mm													Weight in kg / pc.			
	Spigot					Flange			True union Socket / spigot				Basic valve		Flange	
DN	d	$d_{O\text{-}Ring}$	H	L	R	D	n x Ø d_2	C	z	l_e	L_S	l_S	PP	PVDF	PP	PVDF
15	20	20,22 x 3,53	75	130	36 x 1/8“	95	4 x 14	65	136	16	238	38	0,15	0,26	0,17	0,44
20	25	29,75 x 3,53	80	150	48 x 1,6“	105	4 x 14	75	156	18	264	39	0,16	0,30	0,18	0,56
25	32	36,09 x 3,53	90	160	52 x 1,6“	115	4 x 14	85	166	20	280	39	0,23	0,49	0,26	0,83
32	40	40,64 x 5,33	110	180	65 x 1,6“	140	4 x 18	100	186	22	306	42	0,38	0,80	0,42	1,38
40	50	46,99 x 5,33	128	200	72 x 1,6“	150	4 x 18	110	206	24,5	334	44	0,57	1,23	0,64	1,89
50	63	59,69 x 5,33	150	230	85 x 1,6“	165	4 x 18	125	230	29	368	44	0,95	1,77	1,83	2,65

Y-strainer type 36

Pressure loss diagram



Operating instructions

Working pressure pB in bar

Body material	TB [°C]	pB [bar]
PVC-U	0 up to 20	10
	40	6
	60	1
PP	0 up to 30	10
	60	4
	80	1,5
PVDF	– 20 up to 20	16
	80	10
	120	4

Maintenance

- An inspectation and maintenance has to be performed in regular intervals.

Disassembly of the valve

Attention: *Never dismantle the valve when the pipe is under pressure.*

- Loosen the union nuts **6** by hand or with a belt key. Avoid inadequate force.
- Loosen the screen union nut **6** and carefully pull out the screen support.
- Pull out the filter screen **2** of the screen support **3**.
- Remove the o-ring **5** from the screen union nut **4**.

Attention: Use suitable tools for the o-rings to prevent them from being damaged.

Assembly of the valve

- The valve assembly is to be performed in reverse order to the disassembly.
- Before the assembly all parts have to be checked for damages.
- All parts have to be clean.
- For assemby of o-ring **5** a silicone-free lubricant may be used.
- After assembly carry out a pressure test acc. to DIN EN 12266-1.

Notes for correct installation

- The valve must be installed stress-free in the pipe (plane parallelism, axial, overall length).
- Flanged connection:
  The flange bolts have to be tightened equably.
  In general, use washers for the nuts and bolts in plastic flanges.
- Socket and spigot joint:
  The cementing or welding process has to be performed acc. to the relevant guidelines (e. g. DVS).
- The valve has to be installed with direction indicator pointing in flow direction.