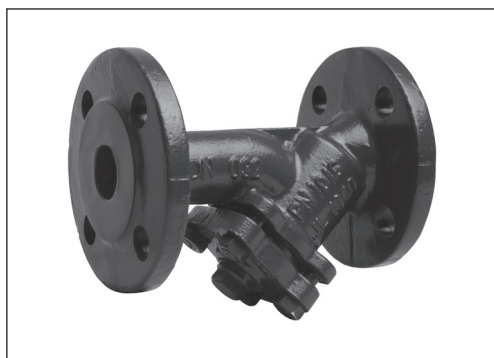


FVF strainer

Description



FVF strainer is designed for heating, district heating and cooling systems.

Strainer removes and retains foreign particles like welding beads, swarf, sand, etc. carried along by heating / cooling medium.

Strainer is installed to protect sensitive equipment like meters, pumps, control valves against danger caused by foreign particles and in wide range of other applications.

Furthermore, strainer is available with a plug, magnetic insert or ball valve. Combination with ball valve allowing a quick and efficient cleaning.

Main data:

- DN 15-300
- PN 16/25
- Temperature:
 - Circulation water / water with glycol: -10 ... 300 °C (PN 16), -20 ... 350 °C (PN 25)
- Connections:
 - flange (strainer)
 - thread (ball valve)

Ordering

Flange ¹⁾ strainer **FVF**

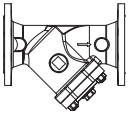
Picture	DN (mm)	k _{vs} ²⁾ m ³ /h	T _{max}	Code No.	
				PN 16	PN 25
	15	5,3	300 °C	065B7740	065B7770
	20	9,5		065B7741	065B7771
	25	16,5		065B7742	065B7772
	32	20		065B7743	065B7773
	40	33		065B7744	065B7774
	50	54		065B7745	065B7775
	65	95		065B7746	065B7776
	80	140		065B7747	065B7777
	100	201		065B7748	065B7778
	125	340		065B7749	065B7779
	150	526		065B7750	065B7780
	200	870		065B7751	065B7781
	250	1.260		065B7752	065B7782
	300	1.735		065B7753	065B7783

¹⁾ flanges acc. to EN 1092-2 (PN 16 and PN 25 respectively)

²⁾ for strainers with normal screens

Ordering (continuous)

Flange ¹⁾ strainer **FVF, I-pack**

Picture	DN (mm)	k _{vs} ²⁾ (m ³ /h)	T _{max}	Code No.
				PN 16
	15	5,1	300 °C	065B7754
	20	9,2		065B7755
	25	15,1		065B7756
	32	18,4		065B7757
	40	30,6		065B7762
	50	49		065B7763
	65	86,7		065B7764
	80	133,6		065B7765
	100	192,8		065B7766
	125	326,4		065B7767

¹⁾ flanges acc. to EN 1092-2 (PN 16)

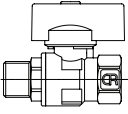
²⁾ for strainers with special screens

Spare parts

Picture	DN (mm)	PN (bar)	FVF-Screen (normal)	FVF-Screen (fine)
	15/20	16, 25	065B7810	065B7824
	25		065B7812	065B7826
	32		065B7813	065B7827
	40		065B7814	065B7828
	50		065B7815	065B7829
	65		065B7816	065B7830
	80		065B7817	065B7831
	100		065B7818	065B7832
	125		065B7819	065B7833
	150		065B7820	065B7834
	200		065B7821	065B7835
	250		065B7822	065B7836
	300		065B7823	065B7837

Picture	DN (mm)	FVF - Gasket
	15/20	065B7886
	25/32	065B7887
	40	065B7888
	50	065B7889
	65	065B7890
	80	065B7891
	100	065B7892
	125	065B7893
	150	065B7894
	200	065B7895
	250	065B7896
	300	065B7897

Accessories

Picture	DN (mm)	FVF-M magnetic insert	Picture	DN (mm)	FVF-B ball valve
	15	065B7790		10 (used for FVF DN 15 - 50)	065B7802
	20				
	25	065B7791			
	32				
	40	065B7792			
	50	065B7793			
	65	065B7794			
	80	065B7795			
	100	065B7796			
	125				
	150	065B7797			
	200	065B7798			
	250	065B7799			
	300	065B7800			
				15 (used for FVF DN 65 - 300)	065B7801

Data sheet

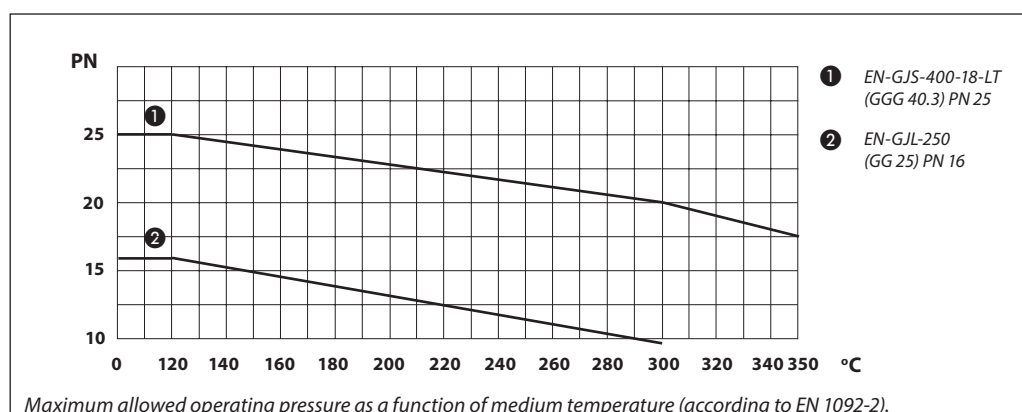
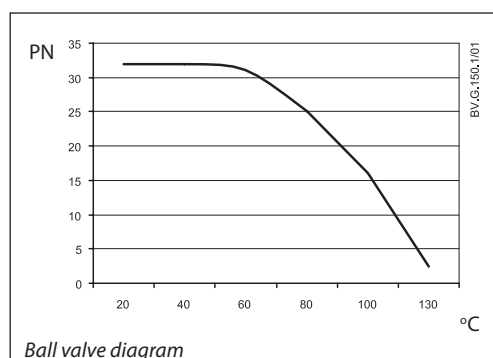
FVF strainer

Technical data

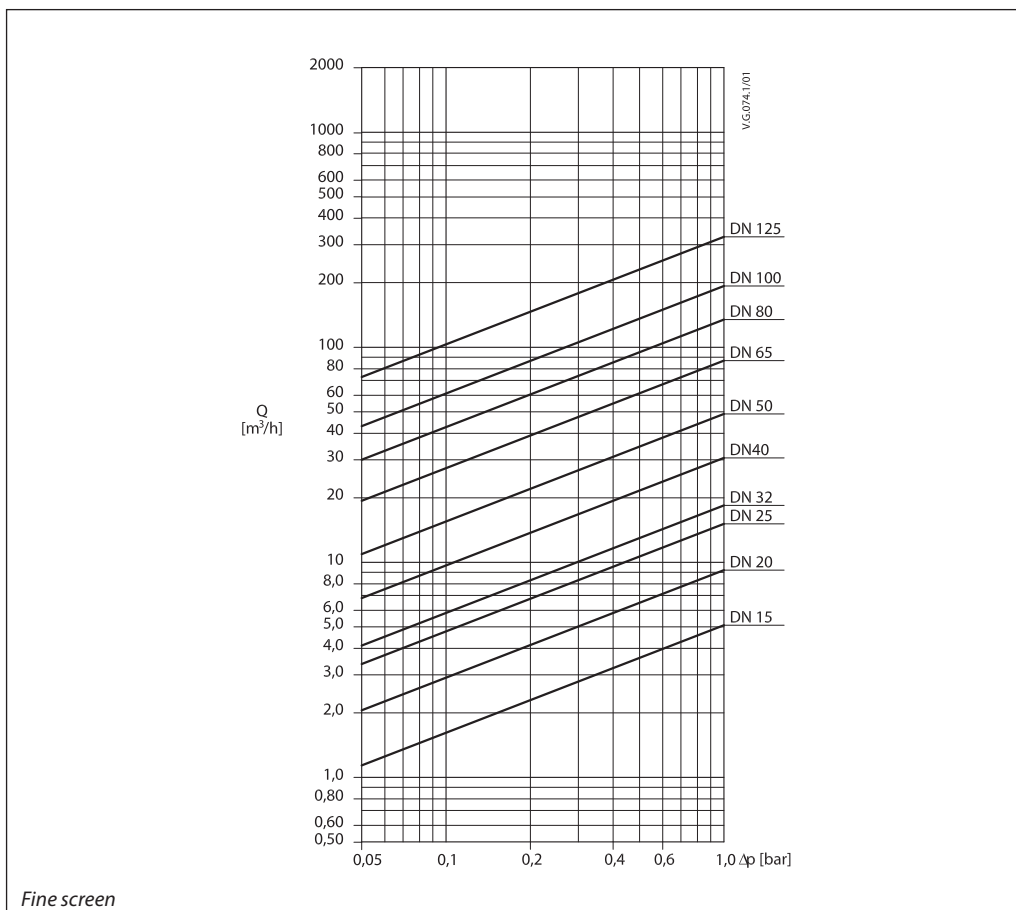
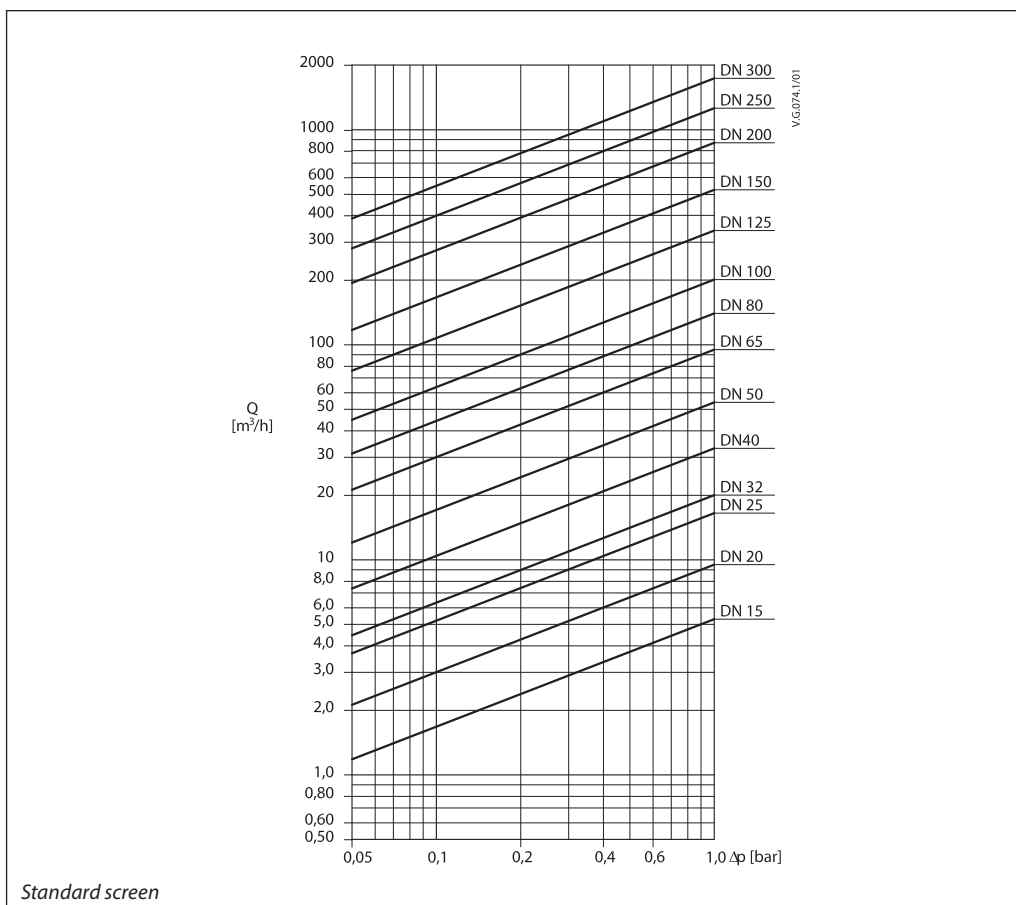
Nominal diameter		DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300
k _{VS} value	normal screen	m³/h	5,3	9,5	16,5	20	33	54	95	140	201	340	526	870	1260	1735
	fine screen		5,0	9,0	14,8	18	30	48	85	131	189	320	494	818	1184	1631
	special screen		5,1	9,2	15,1	18,4	30,6	49	86,7	133,6	192,8	326,4	-			
k _{VS} value (with magnetic insert)	normal screen	m³/h	4,8	8,6	14,9	18	29	49	86	127	183	316	489	809	1172	1613
	fine screen		4,5	8,1	13,3	16	27	44	77	119	170	297	459	760	1101	1516
Mesh size	normal screen	mm	0,54		0,87					1,18						
	fine screen		0,25													
	special screen		0,40											-		
Number of meshes	normal screen	n/cm²	150		64					25						
	fine screen		625													
	special screen		280											-		
Flow medium			Circulation water / glycolic water up to 50%													
Nominal pressure		PN	16 or 25													
Medium temperature		°C	−10 ... 300 (PN 16), −20 ... 350 (PN 25) ¹⁾													
Connection			Flanges acc. to DIN EN 1092-2 (PN 16 and PN 25 respectively)													
Materials																
Body (strainer)		PN 16	Grey cast iron EN-GJL-250 (GG-25)													
		PN 25	Ductile iron EN-GJS-400-18-LT (GGG 40.3)													
Body (ball valve)			Dezincing free brass CuZn36Pb2As													
Screen			Stainless steel, mat. No 1.4301													
Gasket			Graphite													

¹⁾ Danfoss uses environmentally friendly paint that is resistant to a temperature of 150 °C.

Pressure temperature diagram

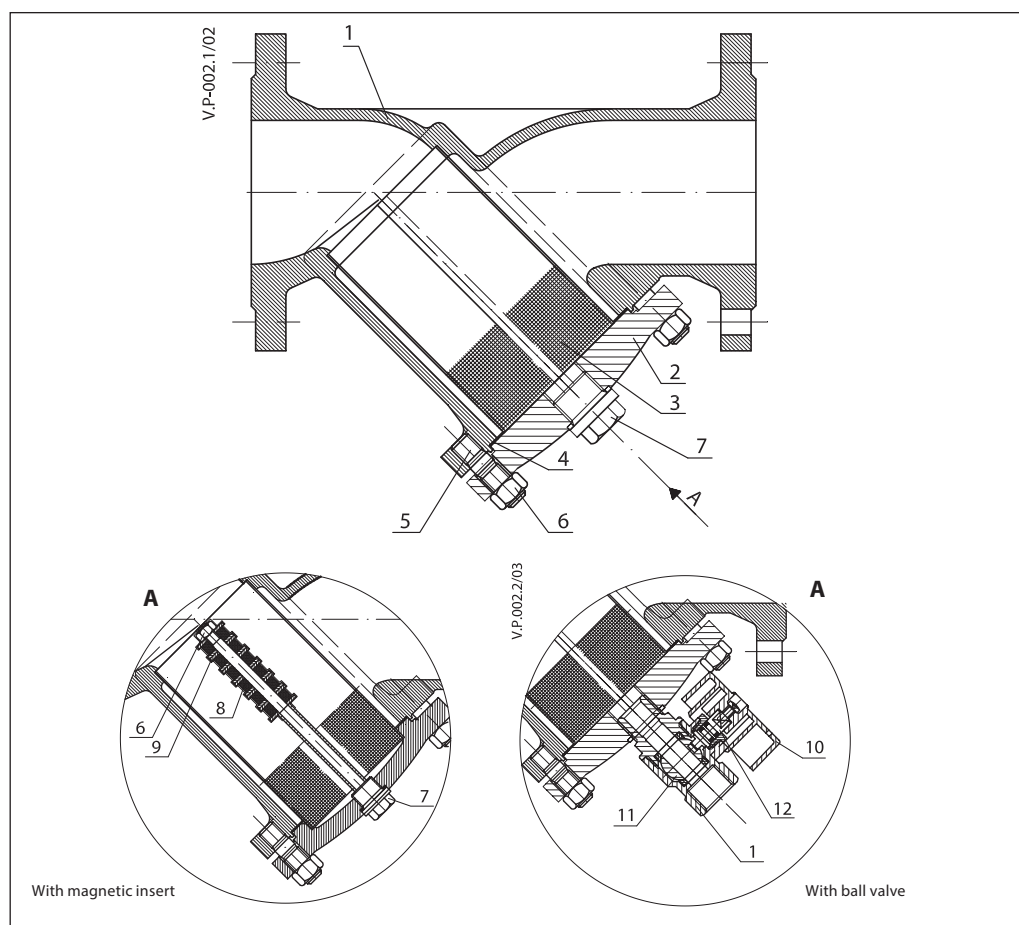


Flow diagram



Design

1. Body
2. Cover
3. Screen
4. Gasket
5. Screw
6. Nut
7. Plug screw
8. Magnet
9. Washer
10. Handle
11. Ball
12. Stem

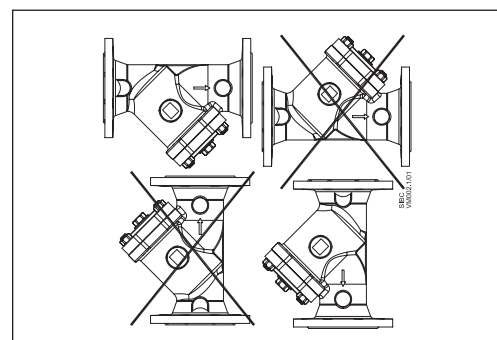


Installation positions

The medium flow direction must correspond to an arrow on the strainer body.

Strainers are to be installed in horizontal position with mesh bonet directed downwards. Vertical position is also allowed (be aware - when medium flows upwards strainer retains all foreign particles but is not able to collect them).

Sufficient space to pull out the mesh for replacement and cleaning must be ensured.



Dimensions

