Honeywell | Filter

F78TS

Reverse rinsing fine filter with flanges

APPLICATION

F78TS flanged reverse rinsing filters are for installations with high water demand. They can be used in large residential buildings, for central water supply and in commercial or industrial applications.

F78TS flanged filters have the same highly efficient reverse rinsing filtering system as the range of household fine filters. The F78TS can be retrofitted with the Z11AS fully automatic reverse rinsing actuator and the DDS76 differential pressure switch.

The fine filter prevents the ingress of foreign bodies, for example rust particles, strands of hemp and grains of sand and thus reduces the probability of corrosion.

APPROVALS

- DVGW (for connection sizes DN65-DN100 with 100 µm mesh size)
- WRAS

SPECIAL FEATURES

- Filtered water supplied even during reverse rinsing
- Filter insert fully replaceable
- Patented reverse rinsing system fast and thorough cleaning of the filter
- Fully automatic reverse rinsing with retrofittable automatic reverse rinsing actuator
- Differential pressure switch can be retrofitted
- Memory ring indicates when next manual reverse rinsing is due
- Polyamide coating gives high level of corrosion protection
- Forced flow provides optimal water exchange in the filter bowl
- All materials are ACS approved
- All materials are KTW approved
- DM174 conform
- Discharge of the reverse rinsed water according EN 1717

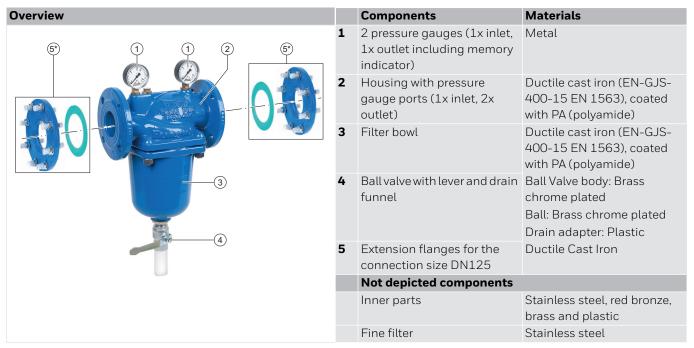


TECHNICAL DATA

Media					
Medium:	Drinking water				
Connections/Sizes					
Flange connection	PN16 acc. to EN 1092-2				
Single filter:	DN65 - DN100				
	DN125 with 2 extension flanges EXF125-A				
2 filters parallel:	2 x DN80, 2 x DN100				
Pressure values					
Max. operating pressure:	1.5 - 16.0 bar				
Nominal pressure:	PN16				
Operating temperatures					
Max. operating temperature	40 °C				
medium:	65 °C (max. operating				
	pressure 6.0 bar)				
Specifications					
Installation position:	Horizontal, with filter bowl downwards				
Note: The filter is constructed for	drinking water installations. In case of				

The filter is constructed for drinking water installations. In case of a process water application the filter has to be proven individually.

CONSTRUCTION



^{*} Extension flanges for the connection size DN125: F78TS DN125 = 1 pcs.F78TS-100FA/FB/FC/FD + 2 pcs. EXF125-A. The extension flanges have to be ordered separately.

METHOD OF OPERATION

The filter insert is divided into two parts. In the "filtering" position, only the lower, larger section is used for filtering. The small upper section does not come in contact with unfiltered water. An oscillating flap integrated in the sieve prevents the deposition of dirt particles on the upper part of the filter. When the ball valve is opened for reverse rinsing, then the whole filter insert is pushed downwards until the water supply to the outer side of the main filter is stopped. Simultaneously, the water flow is opened to the upper part of the filter. The water needed for cleaning the filter passes through the upper filter section, then the rotating impeller with jets and the main filter from inside to outside, i.e. the filter is reverse rinsed with filtered water. The filter automatically switches back to the operating position when the ball valve is closed again.

TRANSPORTATION AND STORAGE

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5°C
Max. ambient temperature:	55 °C
Min. ambient relative	25 % *
humidity:	
Max. ambient relative	85 % *
humidity	

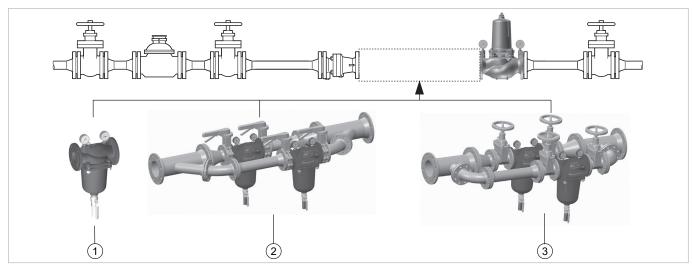
^{*}non condensing

INSTALLATION GUIDELINES

Setup requirements

- Install in horizontal pipework with filter bowl downwards
 - This position ensures optimum filter efficiency
- Install shut-off valves
- These filters are armatures which need to be maintained regularly
- Ensure good access
 - Pressure gauge can be read off easily
 - Simplifies maintenance and inspection
- The installation location should be protected against frost
- Related to the EN 806-2 it is recommended to install the filter immediately after the water meter
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection

Installation Example



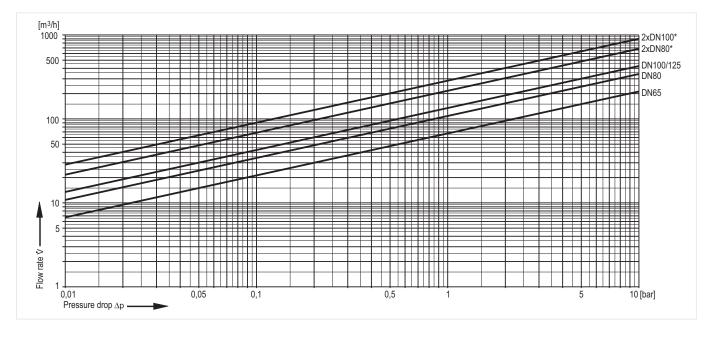
- 1 Single filter
- 2 2 filters parallel 45°
- 3 2 filters parallel 90°

TECHNICAL CHARACTERISTICS

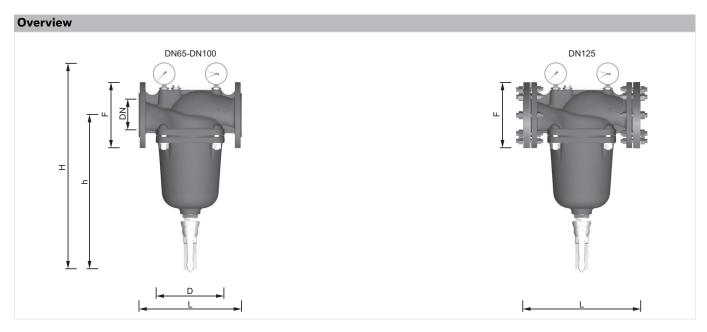
kvs-Values

		Single	2 filters parallel			
Connection sizes:	65	80	100	125	80	100
k _{vs} -value (m ³ /h):	69	113	145	145	226	290

Pressure drop characteristics



DIMENSIONS



Parameter	Values						
		Single filter*				2 filters parallel	
Nominal sizes:	DN	65	80	100	125	80	100
Weight:	kg	25	35	43	65	n.a	n.a
Dimensions DN65-DN100:	L	290	310	350	420	n.a	n.a
	Н	581	665	767	767	n.a	n.a
	h	434	508	610	610	n.a	n.a
	D	193	230	247	247	n.a	n.a
	F	185	200	220	250	n.a	n.a
Flow value at Δp =0.2 bar:	m ³ /h	30	48	60	60	96	120
Flow value at Δp =0.5 bar:	m ³ /h	48	78	100	100	156	200
DVGW registration number:		NW-9301CR0186			-	-	-

Note: All dimensions in mm unless stated otherwise.

ORDERING INFORMATION

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

The filter is available in the following sizes: DN65, DN80 and DN100.

- standard
- not available

		F78TSFA	F78TSFB	F78TSFC	F78TSFD
Connection type:	Filter mesh size 100 µm	•	-	-	-
	Filter mesh size 20 µm	-	•	-	-
	Filter mesh size 50 µm	-	-	•	-
	Filter mesh size 200 µm	-	-	-	•

Note: ... = space holder for connection size

Note: Ordering number example for DN65 and type FA valve: F78TS-65FA

Note: Filters with other mesh widths available on request

^{*} DN125 with 2 pcs. extension flanges (2 x EXF125-A to be ordered separately)

Accessories

	Description	1	Dimension	Part No.		
Z	Z11AS	Automatic reverse rinsing actuator For automatic reverse rinsing of the filter at prese				
		230 V, 50/60 Hz, 10 W with moulded Schuko elec	Z11AS-1A			
		24 V, 50/60 Hz, 10 W without electrical plug	Z11AS-1B			
		230 V, 50/60 Hz, 10 W with moulded Type 12 elections Switzerland	Z11AS-1Z			
	DDS76	Differential pressure switch				
DDS 76			DN65/80/100	DDS76-1		
	EXF125-A	Extension flange DN125				
		Adapter flanges DN100 to DN125				
		Ductile iron, PN16 acc. ISO 7005-2 and EN1092-2.				
		Overall length with adapter flanges (without bolts)				
		DN125 L=416mm, DVGW approved, including bo	lts, nuts and the	seal disc.		
Ce (II				EXF125-A		

Spare Parts

F78TS Fine Filters with Flanges from 2015 onwards

Overview		Description	Dimension	Part No.
		Filter insert complete		
4		Filter mesh 100 µm	DN65	AF78TS-065A
		Filter mesh 100 µm	DN80	AF78TS-080A
		Filter mesh 100 µm	DN100	AF78TS-100A
3		Filter mesh 50 µm	DN65	AF78TS-065C
3		Filter mesh 50 µm	DN80	AF78TS-080C
(4)		Filter mesh 50 µm	DN100	AF78TS-100C
		Filter mesh 200 µm	DN65	AF78TS-065D
111-4		Filter mesh 200 µm	DN80	AF78TS-080D
(4)		Filter mesh 200 µm	DN100	AF78TS-100D
1,	2	Filter insert complete		
		Filter mesh 100 µm	DN65	ES78TS-065A
		Filter mesh 100 µm	DN80	ES78TS-080A
2		Filter mesh 100 µm	DN100	ES78TS-100A
		Filter mesh 20 µm	DN65	ES78TS-065B
4		Filter mesh 20 µm	DN80	ES78TS-080B
		Filter mesh 20 µm	DN100	ES78TS-100B
		Filter mesh 50 µm	DN65	ES78TS-065C
		Filter mesh 50 µm	DN80	ES78TS-080C
4		Filter mesh 50 µm	DN100	ES78TS-100C
		Filter mesh 200 µm	DN65	ES78TS-065D
		Filter mesh 200 µm	DN80	ES78TS-080D
(4)		Filter mesh 200 µm	DN100	ES78TS-100D
(5)		Filter mesh 500 µm	DN65	ES78TS-065F
4		Filter mesh 500 µm	DN80	ES78TS-080F
		Filter mesh 500 µm	DN100	ES78TS-100F
	3	Pressure gauge	1	
			0 - 16 bar, G ¹ /	M78M-A16
<u></u>			0 - 16 bar, G ¹ /	M78M-A16MR
			with memory indicator	
	4	Seal set complete		
			DN65	SOS78TS-065
			DN80	SOS78TS-080
			DN100	SOS78TS-100
	5	Ball valve		
				5622100

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