

DHZJ Series

DESCRIPTION

In-line filter

Connection type and size:

Threaded connection: G1½" G¾" G1¼" G1½"

Maximum flow rate up to 660 l/min

TECHNICAL PARAMETER

Maximum working pressure: 100bar

Bypass valve opening pressure: 6bar

Transmitter opening pressure: 5 bar

Temperature range: -30 to +100



MATERIALS

Head: Cast aluminium

Filter bowl: Aluminium

Seals: NBR nitrile rubber (standard)

Or FKM fluororubber (customizable)

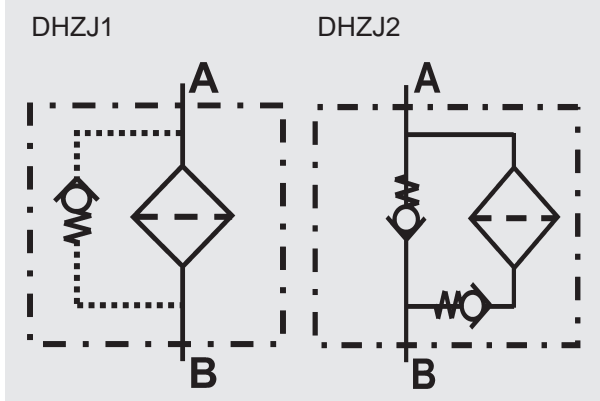
Filter element material:

Fiberglass and wire mesh

MEDIA COMPATIBILITY

Suitable for mineral oil, lubricating oil, fire-resistant oil, and rapidly biodegradable media.
(If used for water-based or special media, please consult our sales department.)

Symbol for hydraulic systems



Ordering Options Table

DHZJ F 160 E F 10 N B B6

Filter type

For Reversible Oil Flow

Filter specification

30 60 110 160 240 330 660

Connection type and size

Type	Connection	Filter size						
		30	60	110	160	240	330	660
B	G 1/2	●						
C	G 3/4		●	●				
E	G1 1/4				●	●		
F	G1 1/2						●	●

Filter element material

F: Glass fiber
W: Stainless steel wire mesh

Filter fineness (µm)

(F): 03 05 10 20
(W): 05 10 20 30

Seals

N: NBR V: FKM

Differential pressure transmitter

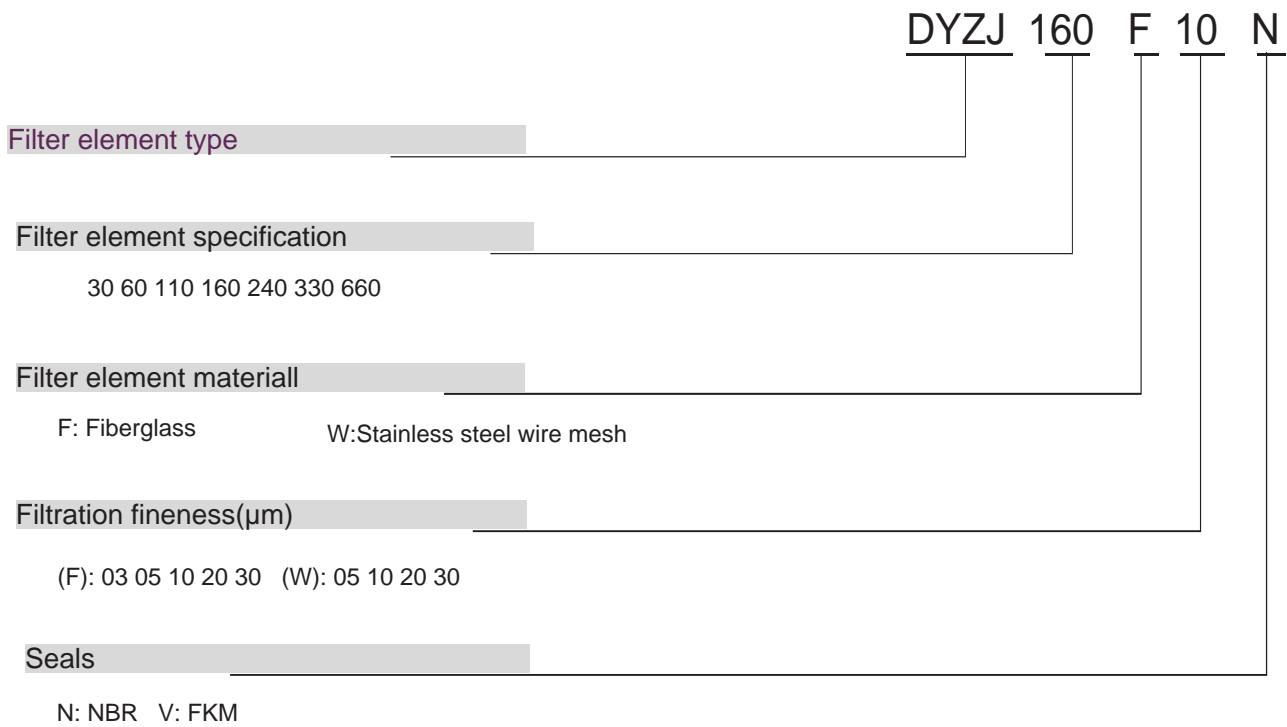
A: Steel blanking plug in indicator port
B: Visual (Automatic reset)
BM: Visual (Manual reset)
C: Electrical indicator
CM: Visual and electrical indicators
CL: Visual and electrical indicators
D: Electrical indicator
DM: Electrical indicator Plug DT 04-2P

Bypass valve opening pressure

B0 = Without bypass valve
B6 = 6 bar



Filter Element



Maintenance Instructions

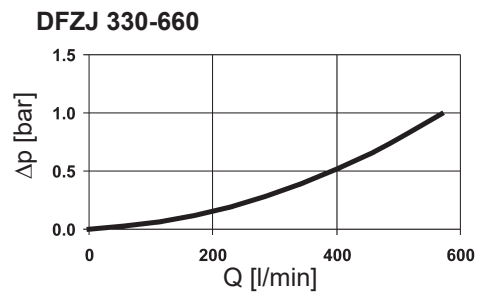
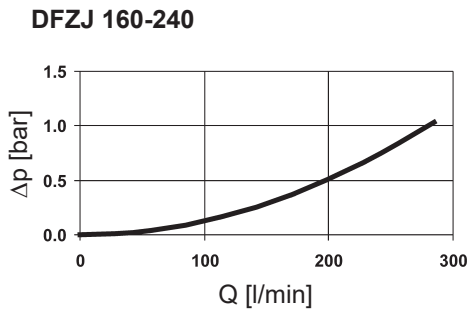
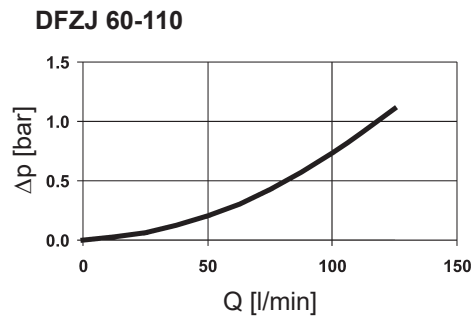
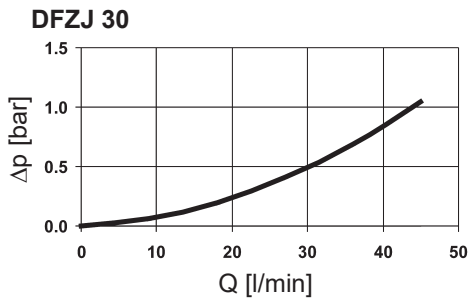
Filter housing must be grounded

When using electric plugging, please replace the filter element.

The system must be turned off before removing the clog indicator light and power connector.

Δp -Q ISO 3968

The housing curves apply to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30 mm²/s. In this case, the differential pressure changes proportionally to the density.



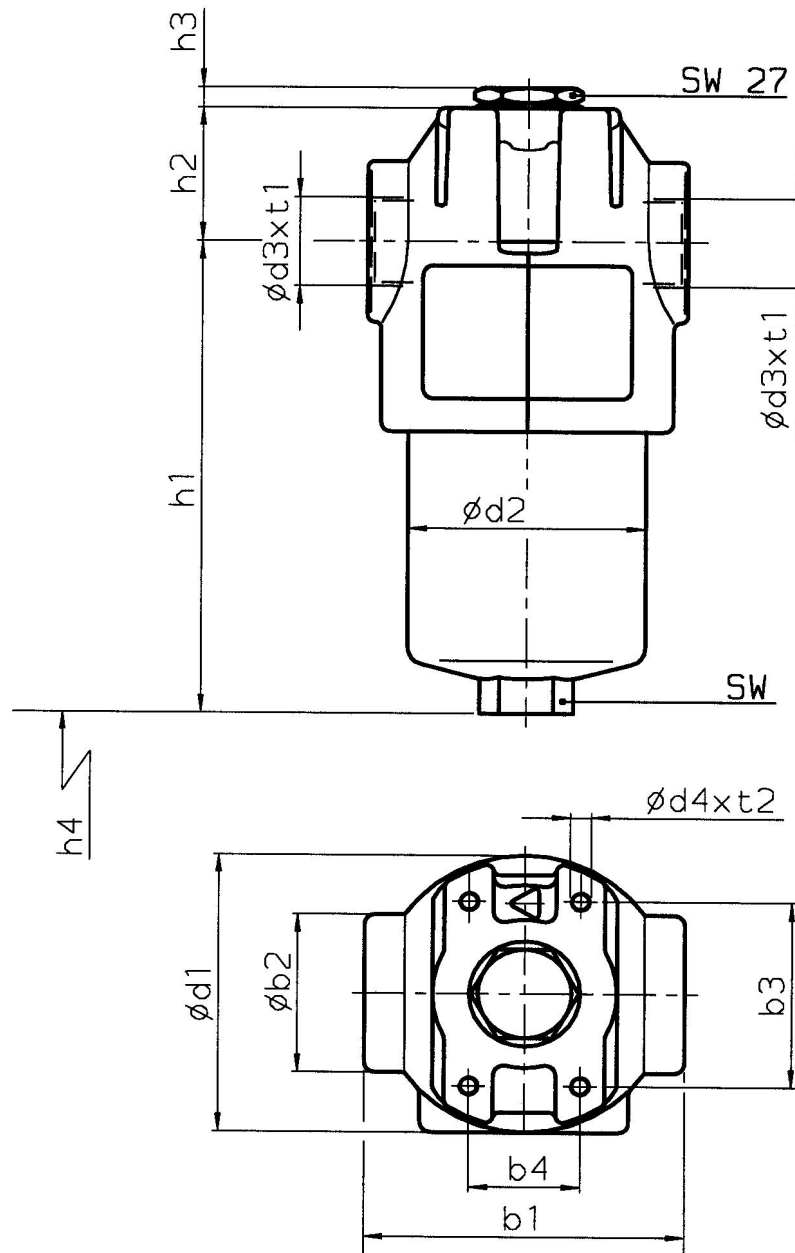
GRADIENT COEFFICIENTS (SK)

The gradient coefficients in mbar/(l/min) apply to mineral oils with a kinematic viscosity of 30 mm²/s. The pressure drop changes proportionally to the change in viscosity.

DHZJ DHZJF	F					
	1 μm	3 μm	5 μm	10 μm	15 μm	20 μm
30	77.8	63.9	43.3	22.8	14.0	11.3
60	53.5	26.0	18.3	12.1	9.78	6.32
110	25.8	13.4	9.61	6.06	4.63	2.99
160	18.5	11.0	7.70	4.10	3.71	3.18
240	11.5	6.90	5.34	3.19	2.44	2.10
330	8.23	4.19	3.37	2.46	1.55	1.22
660	3.78	1.93	1.56	0.93	0.71	0.56

DHZJ DHZJF	W	-			
		3 μm	5 μm	10 μm	20 μm
30	3.030	91.2	50.7	36.3	19.0
60	0.757	58.6	32.6	18.1	12.2
110	0.413	25.4	14.9	8.9	5.6
160	0.284	16.8	10.4	5.9	4.4
240	0.189	10.6	6.8	3.9	2.9
330	0.138	7.7	4.5	2.8	2.0
660	0.069	3.3	1.9	1.0	0.9

DIMENSIONS



DHZJ DHZJF	b1	b2	b3	b4	d1	d2	d3	d4	h1	h2	h3	h4	SW	t1	t2	Weight incl. element [kg]	Vol. of pressure chamber [l]
30	69	36	45	30	67	52	G $\frac{1}{2}$	M5	125.5	31	7	75	24	15	8	0.8	0.13
60	90	48	56	32	84	68	G $\frac{3}{4}$	M6	137.5	39	6	75	27	17	9	1.5	0.24
110	90	48	56	32	84	68	G $\frac{3}{4}$	M6	207.0	39	6	75	27	17	9	1.8	0.42
160	125	65	85	35	116	95	G1 $\frac{1}{4}$	M10	190.5	46	6	95	32	21	14	3.7	0.60
240	125	65	85	35	116	95	G1 $\frac{1}{4}$	M10	250.5	46	6	95	32	21	14	4.3	0.80
330	159	85	115	60	160	130	G1 $\frac{1}{2}$	M12	252.5	50	6	105	36	23	17	8.0	1.50
660	159	85	115	60	160	130	G1 $\frac{1}{2}$	M12	423.5	50	6	105	36	23	17	11.0	3.00

Annotation

All information in this manual relates to the described working environment and application conditions. For applications and working conditions that are not described, please contact the relevant technical department. Technical modifications are possible.