

## DHSX Series

### DESCRIPTION

#### Duplex bowls high pressure filter

Connection type and size:

Threaded connection: G $\frac{1}{2}$ " G $\frac{3}{4}$ " G1 $\frac{1}{2}$ "

SAE Flange connection: DN50

Maximum flow rate up to 1320 l/min

### TECHNICAL PARAMETER

Maximum working pressure: 315bar

Transmitter opening pressure: 5 bar

Temperature range: -10 to +100



### MATERIALS

Head: Carbon steel

Filter bowl: Carbon steel

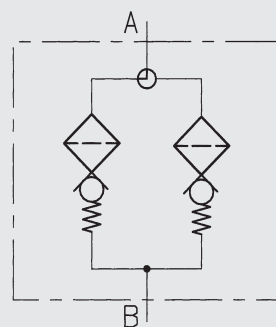
Seals: NBR nitrile rubber (standard)

Or FKM fluororubber (customizable)

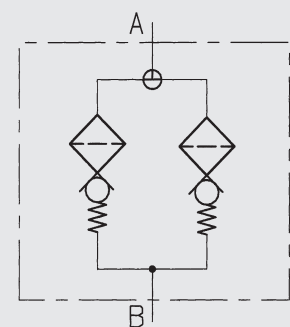
Filter element material:

Fiberglass and metal mesh

Symbol for hydraulic systems  
DHSX ball change-over in L configuration



Symbol for hydraulic systems  
DHSX ball change-over in T configuration



### 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.)

## Ordering Options Table

DHSX 160 F F 10 N B L

Filter type

Filter specification

30 60 110 140 240 280 330 500 660 990 1320

Connection type and size

Type	Connection	Filter size												
		30	60	110	140	160	240	280	330	500	660	990	1320	
B	G 1/2	●												
C	G 3/4		●	●	●									
F	G1 1/2					●	●	●						
L	SAE DN 50								●	●	●	●	●	

Flange SAE, 6000 PSI

Filter element material

F: Fiberglass

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

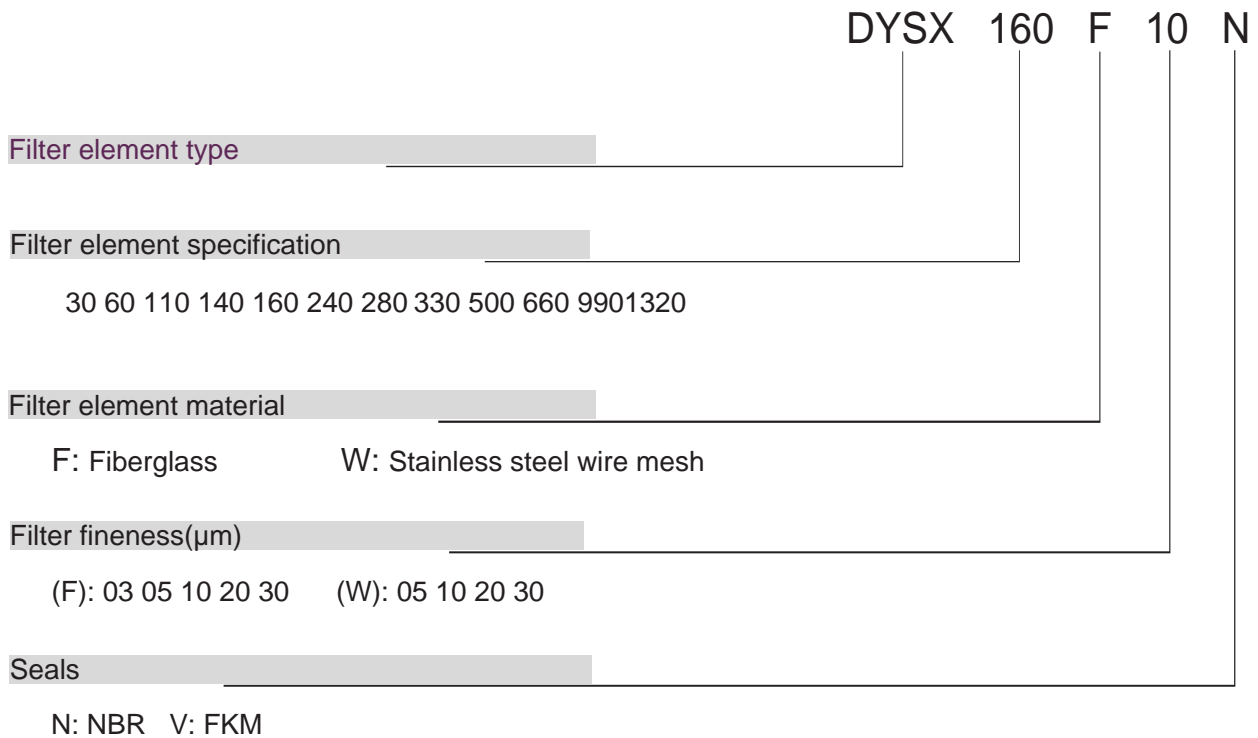
DM: Electrical indicator Plug DT 04-2P

Conversion Configuration

L = L path

T = T path

## Filter Element



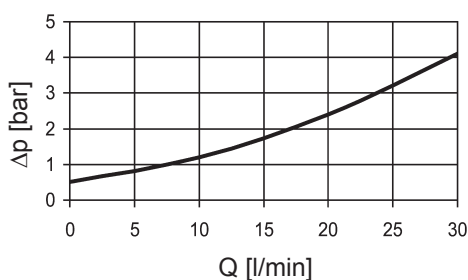
### Maintenance Instructions

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.

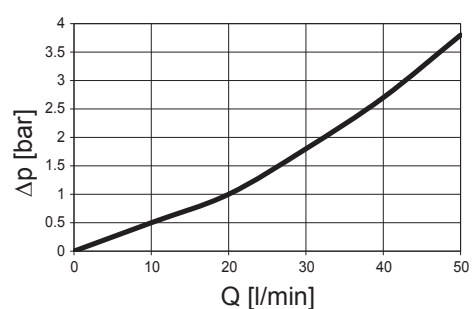
### Δp-Q ISO 3968

The housing curves apply to mineral oil with a density of 0.86 kg/dm<sup>3</sup> and a kinematic viscosity of 30 mm<sup>2</sup>/s. In this case, the differential pressure changes proportionally to the density.

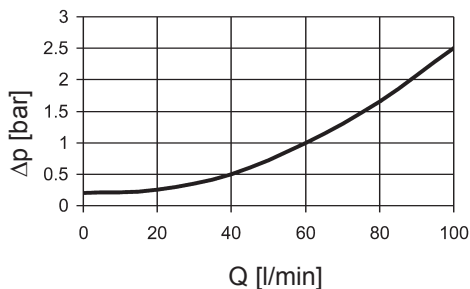
DHSX 30 ... 1.x L  
with ball change-over in L configuration



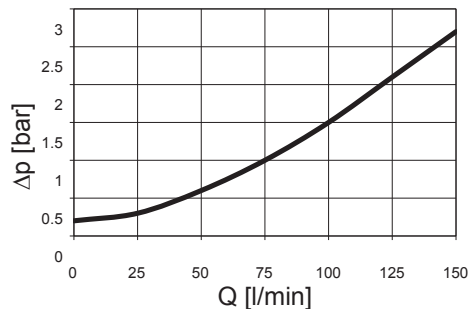
DHSX 30 ... 1.x T  
with ball change-over in T configuration



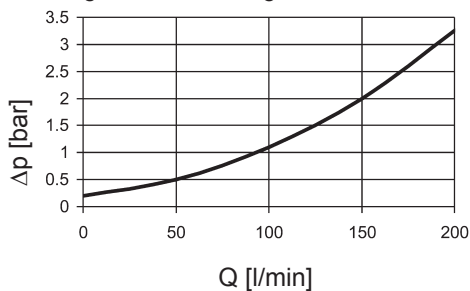
DHSX 60, 110, 140 ... 1.x L with ball change-over in L configuration



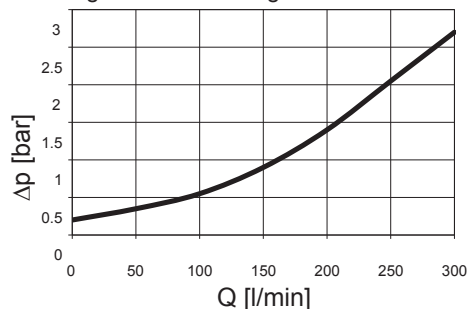
DHSX 60, 110, 140 ... 1.x T with ball change-over in T configuration



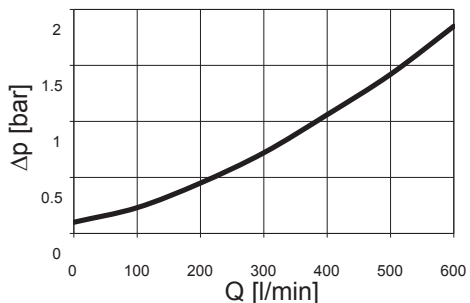
DHSX 160, 240, 280 ... 1.x L with ball change-over in L configuration



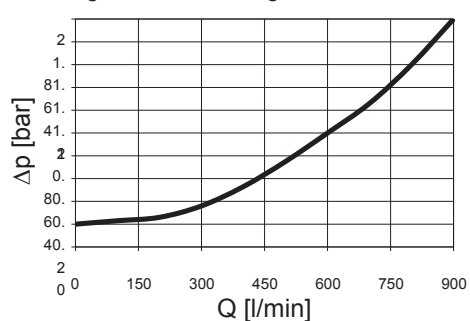
DHSX 160, 240, 280 ... 1.x T with ball change-over in T configuration



DHSX 330, 500, 660 ... 1.x  
DHSX 660, 990, 1320 ... 2.x L with ball change-over in L configuration



DHSX 330, 500, 660 ... 1.x  
DHSX 660, 990, 1320 ... 2.x T with ball change-over in T configuration



### GRADIENT COEFFICIENTS (SK)

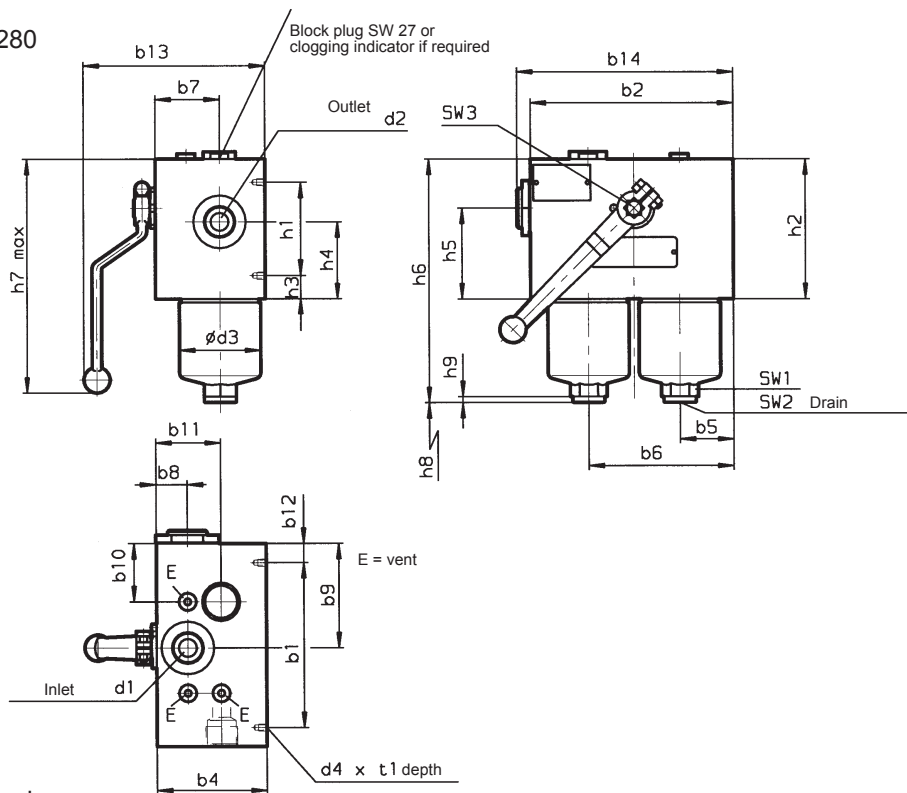
The gradient coefficients in mbar/(l/min) apply to mineral oils with a kinematic viscosity of 30 mm<sup>2</sup>/s. The pressure drop changes proportionally to the change in viscosity.

DHSX	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
140	19.9	11.5	7.39	4.38	3.54	2.29
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
280	5.54	3.37	2.74	1.49	1.36	1.17
330	8.23	4.19	3.37	2.46	1.55	1.22
500	5.05	2.57	2.07	1.23	0.95	0.75
660	3.78	1.93	1.56	0.93	0.71	0.56
990	2.51	1.28	1.03	0.61	0.47	0.37
1320	1.85	0.97	0.76	0.45	0.35	0.27

DHSX	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
140	0.324	19.9	11.3	8.1	4.3
160	0.284	16.8	10.4	5.9	4.4
240	0.189	10.6	6.8	3.9	2.9
280	0.162	5.7	3.4	1.8	1.6
330	0.138	7.7	4.5	2.8	2.0
500	0.091	4.2	2.6	1.5	1.2
660	0.069	3.3	1.9	1.0	0.9
990	0.046	2.2	1.3	0.8	0.6
1320	0.035	1.6	1.0	0.6	0.4

# DIMENSIONS

DHSX 30 - 280



SAE connection 6000 psi

DHSX	30	60	110	140	160	240	280
b1	130	138	138	138	190	190	190
b2	145	170	170	170	210	210	210
b4	80	92	92	92	128	128	128
b5	35	45	45	45	52.5	52.5	52.5
b6	96	121.5	121.5	121.5	157.5	157.5	157.5
b7	47	54	54	54	75.5	75.5	75.5
b8	22.8	26	26	26	35.5	35.5	35.5
b9	80.9	87	87	87	105	105	105
b10	80.9	48.5	48.5	48.5	52.5	52.5	52.5
b11	59	54	54	54	75.5	75.5	75.5
b12	7.5	16	16	16	10	10	10
b13 (≈)	131	150	150	150	193	193	193
b14 (≈)	155	181	181	181	221	221	221
d1*	G ½	G ¾	G ¾	G ¾	G 1½	G 1½	G 1½
d2*	G ½	G ¾	G ¾	G ¾	G 1½	G 1½	G 1½
d3	52.2	68.2	68.2	68.2	95.2	95.2	95.2
d4	M6	M6	M6	M6	M10	M10	M10
h1	64	78	78	78	96	96	96
h2	80	117	117	117	162	162	162
h3	8	19.5	19.5	19.5	33	33	33
h4	47	64.5	64.5	64.5	106	106	106
h5	43	76	76	76	100	100	100
h6	171	205.0	276.5	317.5	284.5	346	525.5
h7 (≈)	180	205	205	205	245	245	245
h8	75	75	75	75	85	85	85
h9	5	5	5	5	5	5	5
t1	7	7	7	7	11	11	11
SW1	24	27	27	27	32	32	32
SW2	6	10	10	10	10	10	10
SW3	9	12	12	12	14	14	14
Weight incl.element [kg]	7.4	15.0	17.0	18.9	33.0	36.0	45.0
Pressure chambervolume [l]	2x0.13	2x0.20	2x0.33	2x0.40	2x0.60	2x0.80	2x1.60

