

Element description

M - Wire Mesh	Δp 10 bar
P - Paper	Δp 10 bar
A - Microfibre	Δp 10 bar

Characteristics of filter elements with nominal filtration, M series

For wire mesh filter elements, filtration degree is defined as the maximum diameter of a sphere corresponding to the mesh size, in microns.

Characteristics of filter elements with nominal filtration, P series

For cellulose filter elements, filtration efficiency expressed in micron is to be construed as nominal $\beta_{x@} > 2$.

Characteristics of filter elements with absolute filtration, A series

For microfibre filter elements, filtration degree is defined by the test bench MULTIPASS ISO 16889.

Reference standards

All filter elements comply with the following ISO standards.

- ISO 2941** - Collapse and burst resistance.
- ISO 2942** - Bubble point test resistance.
- ISO 2943** - Compatibility with fluids.
- ISO 3723** - Resistance to axial deformation.
- ISO 23181** - Fatigue test with flow.
- ISO 3968** - Pressure drop.
- ISO 16889** - Filtration efficiency by means of Multipass.

N.B. P series cellulose cartridges are compatible only with mineral oils in according to ISO 2943 - 4.

Multipass test in compliance new ISO 16889 Contaminant ISO MTD

Filtration	$\beta_{x@} \geq 1000$
Filter element	
A01*	<4
A03	5
A06	7
A10	10
A16	15
A25	20

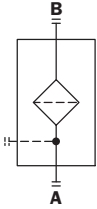
* On request

International standards for fluid contamination control

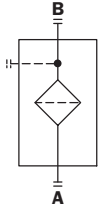
Components	Recommended filtrations									
	12/10/7	13/11/8	14/12/9	15/13/10	16/14/11	17/15/12	18/16/13	19/17/14	20/18/15	
Servo valves			●	●	●					
Proportional Valves				●	●	●				
Variable displacement pumps.					●	●	●			
Cartridge valves						●	●	●		
Piston pumps						●	●	●		
Vane pumps							●	●	●	
Pressure - flow rate control valves							●	●	●	
Solenoid valves							●	●	●	
ISO code	12/10/7	13/11/8	14/12/9	15/13/10	16/14/11	17/15/12	18/16/13	19/17/14	20/18/15	
NAS code	1	2	3	4	5	6	7	8	9	
Absolute filtration recommended	$\beta_{<4@} \geq 1000$		$\beta_{5@} \geq 1000$		$\beta_{7@} \geq 1000$		$\beta_{10@} \geq 1000$	$\beta_{15@} \geq 1000$	$\beta_{20@} \geq 1000$	

Hydraulic symbols & Compatibility

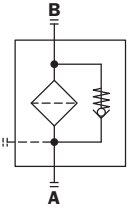
Style S
In-Line/Return



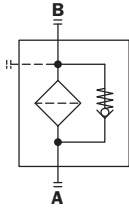
Style S
In-Line/Suction



Style B
In-Line/Return

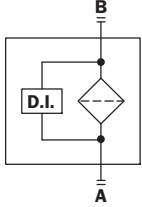


Style B
In-Line/Suction



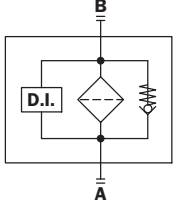
Style S
In-Line

MPS 051-071-101-151
MSH 050-070-100-150



Style B
In-Line

MPS 051-071-101-151
MSH 050-070-100-150

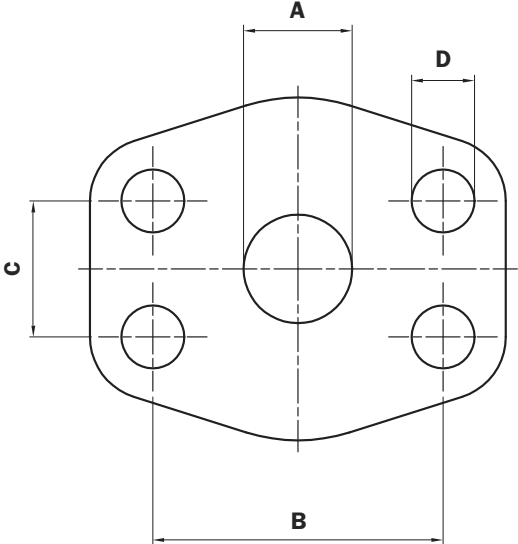


Compatibility (to ISO 2943)

- Housings compatible with:
 - Mineral oils, synthetic fluids
 - aqueous emulsions, water and glycol (on request).
- The filter elements are compatible with:
 - Mineral oils, synthetic fluids.
 - Aqueous emulsions, water and glycol.
- NBR seals series A, compatible with:
 - Mineral oils, synthetic fluids, aqueous emulsions
 - and water and glycol.

Sizes - Connections SAE

FLANGE SAE 3000 PSI



Connection to 3000 psi SAE flange

Dimension	1 1/2" SAE 3000 PSI M	1 1/2" SAE 3000 PSI UNC
	A	38
B	70	70
C	35,7	35,7
D	M12	1/2" UNC

In-Line

MPS 300-350
MPS 301-351