

PHXA Series

● DESCRIPTION

Suction filter

PHXA is a range of suction strainers for protection of the down stream pump against the coarse contamination. They are placed below the oil level directly connected to the suction line of the pump.

Connection type and size:

Threaded connection: 3/8" 1/2" 3/4" 1" 1-1/2" 2" 2-1/2" 3"

Maximum flow rate up to 1000 l/min

● TECHNICAL PARAMETER

Bypass valve opening pressure: 0.3 bar

Temperature range: -25°C to +120°C

● MATERIALS

Head: Cast aluminium

Bottom: Carbon steel

Filter element material: Stainless steel 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.)



Ordering Options Table

PHXA1002BM90

Filter type

Filter specification

045 050 065 070 086 100 140 150

Connection type and size

Type	045	050	065	070	086	100	140	150
1	3/8"	3/8"	1/2"	1/2"	1 1/2"	1 1/4"	1 1/2"	2"
2	1/2"	1/2"	3/4"	3/4"	2"	1 1/4"	2"	2 1/2"
3	-	-	3/4"	3/4"	1 1/2"	1 1/2"	2"	3"
4	-	-	1"	1"	2"	2"	2 1/2"	-
5	-	-	-	-	1 1/2"	1 1/2"	3"	-
6	-	-	-	1/2"	2"	-	3"	-

Bypass valve opening pressure

S = Without bypass
B = With bypass 0.3 bar

Filter fineness(μm)

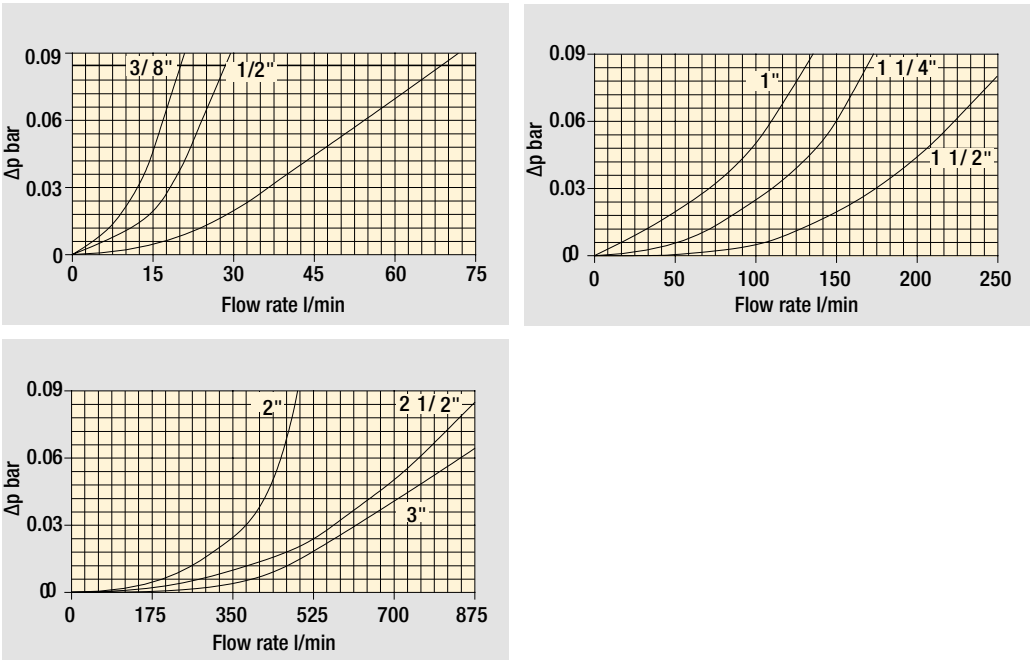
25 60 90 250

Maximum flow rate for a complete suction filter with a pressure drop $\Delta p = 0.08$ bar.

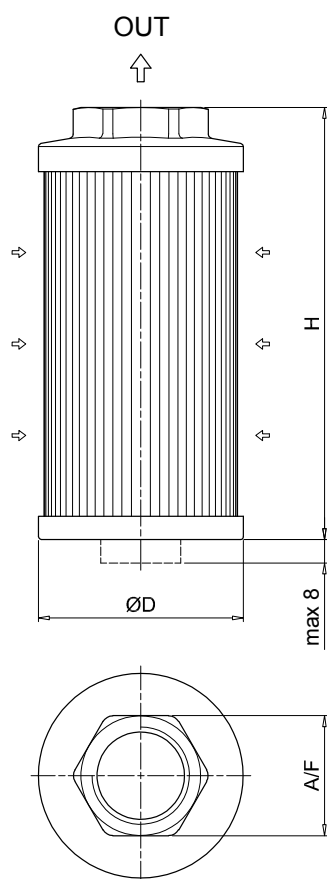
The reference fluid has a kinematic viscosity of 30 mm²/s (cSt) and a density of 0.86 kg/dm³ for different pressure drop or fluid viscosity.

Filters pressure drop Δp in function of connection type

The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.



DIMENSIONS



PHXA						
Filter size	Connection type	Thread	ØD [mm]	H [mm]	A / F [mm]	Weight[kg]
045	1	3/8"	46	105	30	0.15
	2	1/2"	46	105	30	0.19
050	1	3/8"	52	79	30	0.11
	2	1/2"	52	79	30	0.11
065	1	1/2"	65	110	41	0.19
	2	3/4"	65	110	41	0.22
	3	3/4"	65	144	41	0.24
	4	1"	65	144	41	0.22
070	1	1/2"	70	95	41	0.18
	2	3/4"	70	95	41	0.17
	3	3/4"	70	141	41	0.23
	4	1"	70	141	41	0.22
	6	1/2"	70	141	41	0.24
086	1	1 1/2"	86	143	69	0.33
	2	2"	86	143	69	0.30
	3	1 1/2"	86	201	69	0.43
	4	2"	86	201	69	0.40
	5	1 1/2"	86	261	69	0.53
	6	2"	86	261	69	0.50
100	1	1 1/4"	99	137	69	0.47
	2	1 1/4"	99	227	69	0.58
	3	1 1/2"	99	227	69	0.55
	4	2"	99	227	69	0.51
	5	1 1/2"	99	137	69	0.43
140	1	1 1/2"	130	160	69	0.70
	2	2"	130	160	69	0.68
	3	2"	130	262	69	0.94
	4	2 1/2"	130	272	101	1.10
	5	3"	130	272	101	1.00
	6	3"	130	330	101	1.17
150	1	2"	150	150	70	0.34
	2	2 1/2"	150	212	90	0.37
	3	3"	150	272	100	0.40