



ORELL

SUCTION FILTERS SA & SB



MATERIALS

Connector:
Polyamide
(Aluminium for ESA & ESB 51 - 52)

End cap:
Polyamide
(Zinc plated steel for ESA & ESB
51 - 52)

Bypass valve:
(SA) Polyamide

Magnetic core:
(SB) Syntherized magnetic material

PRESSURE (ISO 10771-1:2002)

Collapse, differential:
100 kPa (1 bar)

BYPASS VALVE

Setting:
30 kPa (0,3 bar) \pm 10%

WORKING TEMPERATURE

From -25° to +110° C

COMPATIBILITY (ISO 2943:1999)

Full with fluids:
HH-HLHM-HV-HTG
(according to ISO 6743/4)
For fluids different than the above
mentioned, please contact our
Sales Department.

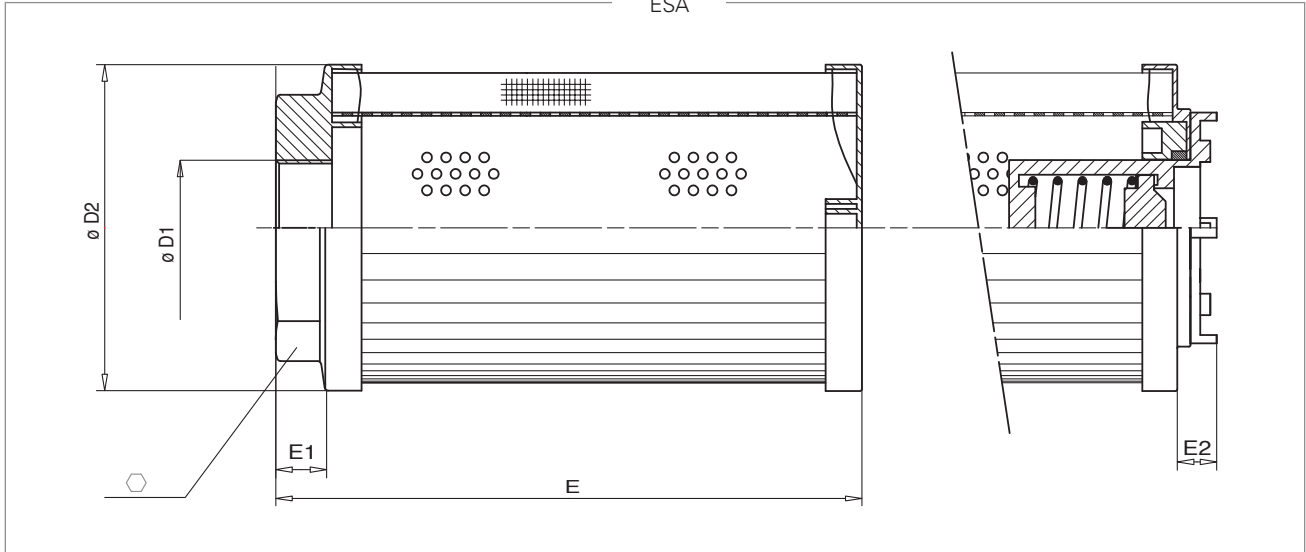
APPLICATION EXAMPLE



OHF 200

SUCTION STRAINERS

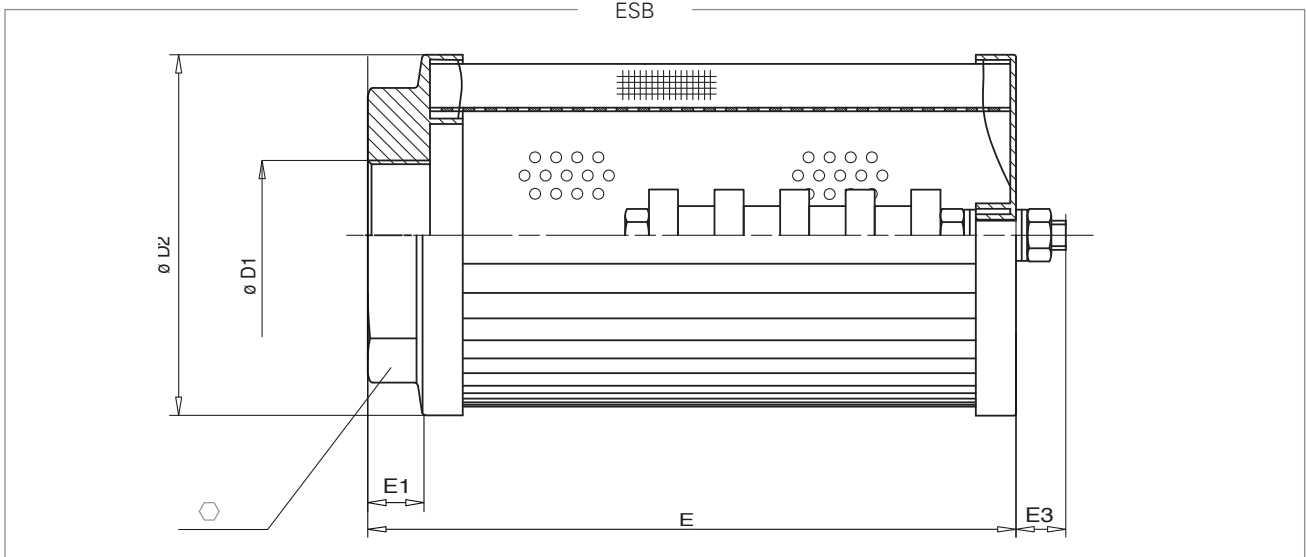
ESA



E		FILTER ELEMENT											
S	A	FAMILY, NOMINAL SIZE & LENGTH											
		11	21	22	30	31	32	40	41	42	43	51	52
		PORT TYPE											
		B	B	B	B	B	B	B	B	B	B	B	B
		N	N	N	N	N	N	N	N	N	N	-	-
		PORT SIZE											
		03	-	-	-	-	-	-	-	-	-	-	-
		04	04	-	-	-	-	-	-	-	-	-	-
		-	06	06	-	-	-	-	-	-	-	-	-
		-	-	08	-	-	-	-	-	-	-	-	-
		-	-	-	10	10	10	-	-	-	-	-	-
		-	-	-	12	12	12	12	12	-	-	-	-
		-	-	-	-	-	16	16	16	16	-	-	-
		-	-	-	-	-	-	-	-	20	-	-	-
		-	-	-	-	-	-	-	-	24	24	-	-
		-	-	-	-	-	-	-	-	-	-	28	-
		-	-	-	-	-	-	-	-	-	-	-	32
		BYPASS VALVE											
		W	W	W	W	W	W	W	W	W	W	W	W
		A	A	A	A	A	A	A	A	A	A	-	-
		FILTER MEDIA											
		ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME
		MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
		MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

FILTER ELEMENT							
	D1	D2	E	E1	E2	○	kg - SA
ESA 11	3/8" - 1/2"	52	73	12	13	30	0,05
ESA 21	1/2" - 3/4"	70	92	13	11	42	0,25
ESA 22	3/4" - 1"	70	137	13	11	42	0,25
ESA 30	1"1/4 - 1"1/2"	99	135	15	12	70	0,30
ESA 31	1"1/4 - 1"1/2"	99	178	15	12	70	0,40
ESA 32	1"1/4 - 1"1/2 - 2"	99	218	15	12	70	0,50
ESA 40	1"1/2 - 2"	130	160	15	15	70	0,50
ESA 41	1"1/2 - 2"	130	201	15	15	70	0,70
ESA 42	2" - 2"1/2 - 3"	130	253	15	25	101	1,00
ESA 43	3"	130	330	15	25	101	1,30
ESA 51	3"1/2	180	390	35	-	140	2,80
ESA 52	4"	180	440	35	-	140	3,00

SUCTION STRAINERS WITH MAGNET

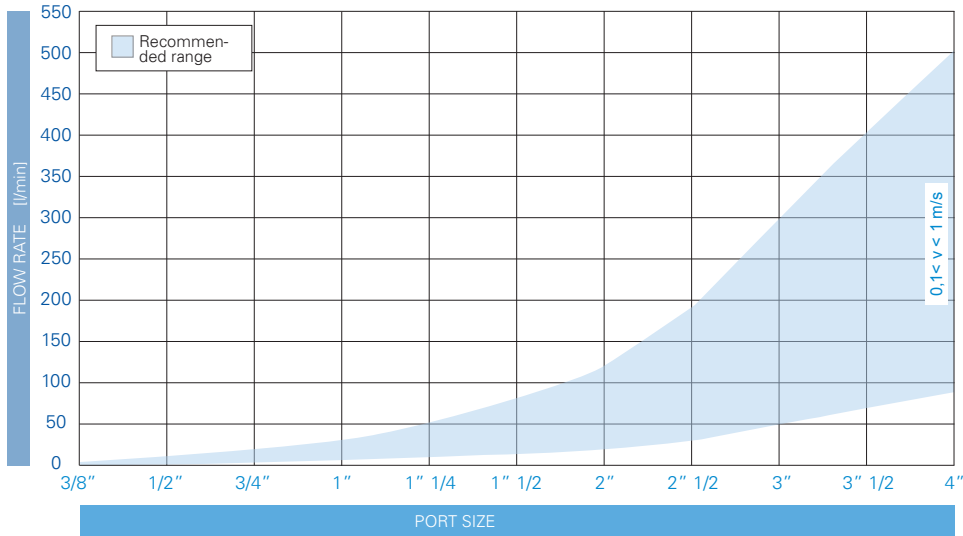


E		FILTER ELEMENT											
S	B	FAMILY, NOMINAL SIZE & LENGTH											
		11	21	22	30	31	32	40	41	42	43	51	52
PORT TYPE													
B = BSP thread		B	B	B	B	B	B	B	B	B	B	B	B
N = NPT thread		N	N	N	N	N	N	N	N	N	N	-	-
PORT SIZE													
03 = 3/8"		03	-	-	-	-	-	-	-	-	-	-	-
04 = 1/2"		04	04	-	-	-	-	-	-	-	-	-	-
06 = 3/4"		-	06	06	-	-	-	-	-	-	-	-	-
08 = 1"		-	-	08	-	-	-	-	-	-	-	-	-
10 = 1" 1/4		-	-	-	10	10	10	-	-	-	-	-	-
12 = 1" 1/2		-	-	-	12	12	12	12	12	-	-	-	-
16 = 2"		-	-	-	-	-	16	16	16	16	-	-	-
20 = 2" 1/2		-	-	-	-	-	-	-	20	-	-	-	-
24 = 3"		-	-	-	-	-	-	-	24	24	-	-	-
28 = 3" 1/2		-	-	-	-	-	-	-	-	-	28	-	-
32 = 4"		-	-	-	-	-	-	-	-	-	-	-	32
X		BYPASS VALVE											
X = without		X	X	X	X	X	X	X	X	X	X	X	X
FILTER MEDIA													
ME = metal wire mesh 60 μm		ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME
MF = metal wire mesh 90 μm		MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
MG = metal wire mesh 250 μm		MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

FILTER ELEMENT							
	D1	D2	E	E1	E3	○	kg - SB
ESB 11	3/8" - 1/2"	52	73	12	9	30	0,10
ESB 21	1/2" - 3/4"	70	92	13	12	42	0,30
ESB 22	3/4" - 1"	70	137	13	13	42	0,30
ESB 30	1"1/4 - 1"1/2"	99	135	15	12	70	0,35
ESB 31	1"1/4 - 1"1/2"	99	178	15	12	70	0,45
ESB 32	1"1/4 - 1"1/2 - 2"	99	218	15	14	70	0,60
ESB 40	1"1/2 - 2"	130	160	15	14	70	0,60
ESB 41	1"1/2 - 2"	130	201	15	14	70	0,80
ESB 42	2" - 2"1/2 - 3"	130	253	15	14	101	1,20
ESB 43	3"	130	330	15	14	101	1,50
ESB 51	3"1/2	180	390	35	4	140	3,00
ESB 52	4"	180	440	35	4	140	3,20

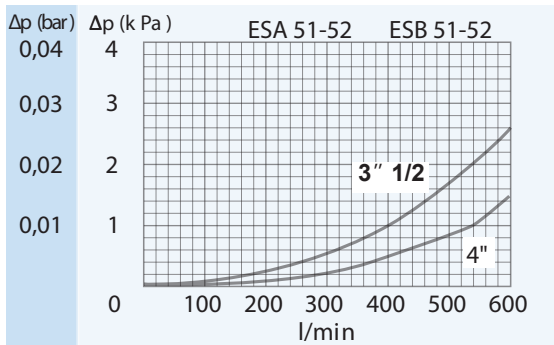
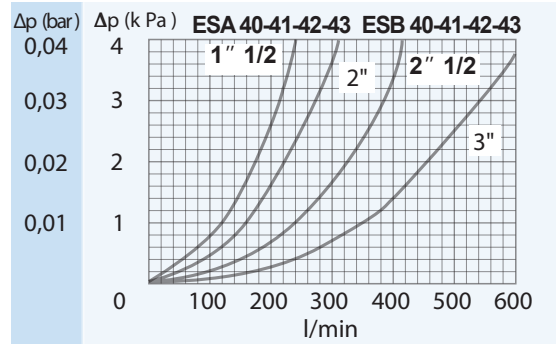
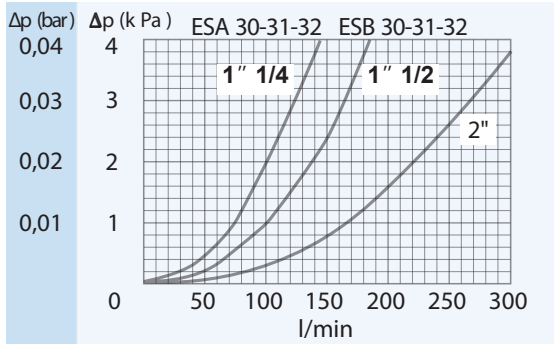
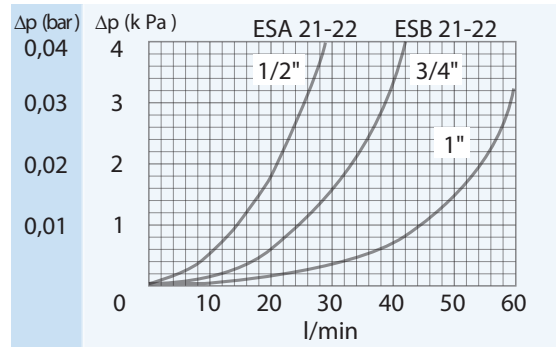
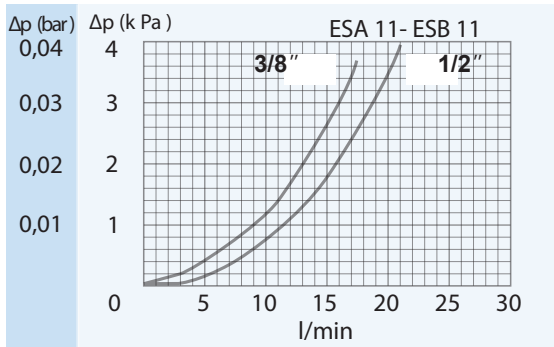
FLUID SPEED

when selecting the filter size, we suggest to consider also the max recommended fluid speed (in suction lines normally $0,1 < v < 1$ m/s)



PRESSURE DROP CURVES (Δp)

The Pressure Drop (Δp) must be lower than 3 kPa (0,03 bar).



N.B. All the curves have been obtained with mineral oil having a kinematic viscosity 30 cSt and specific gravity 0,9 kg/dm³; for fluids with different features, please consider the factors described in the first part of this catalogue.

Technical data subject to variations without prior notice. SA&SB - EN - 06/2011