



ESA-ESB

SUCTION FILTERS



DESCRIPTION

Suction strainer

MATERIALS

Connector: Polyamide (Aluminum for ESA & ESB 51 - 52)
End cap: Polyamide (Zinc plated steel for ESA & ESB 51 - 52)
Bypass valve: (ESA) Polyamide
Magnetic core: (ESB) Syntherized magnetic material

PRESSURE

Collapse, differential: 100 kPa (1 bar)

BYPASS VALVE

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

FLOW RATE

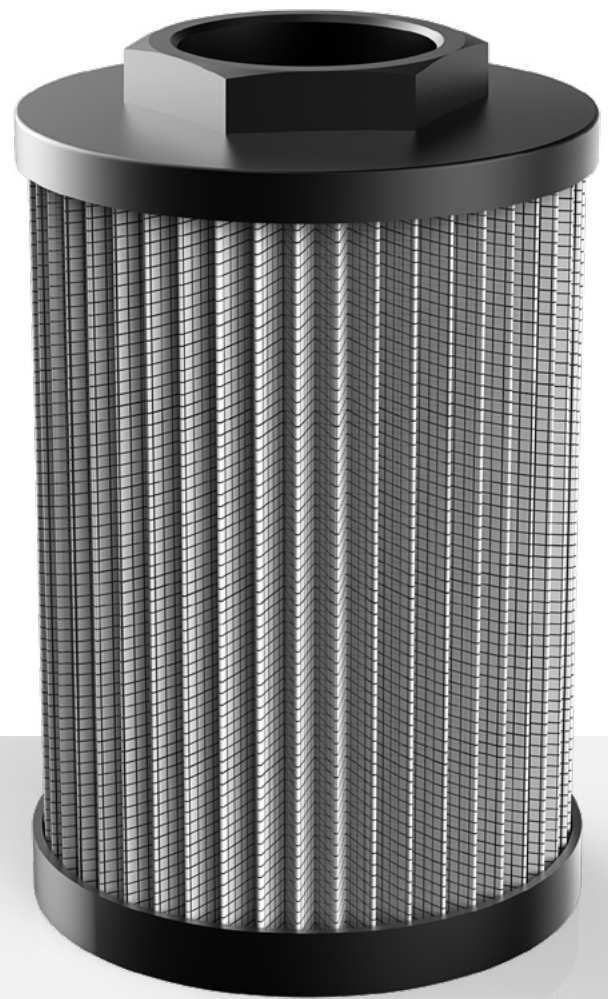
Qmax 600 l/min

WORKING TEMPERATURE

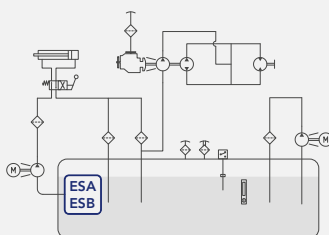
From -25° to +110° C

COMPATIBILITY (ISO 2943)

Full with fluids: HH-HL-HM-HR-HV-HTG
(according to ISO 6743/4)
For fluids different than the above mentioned,
please contact our Customer Service.



HYDRAULIC DIAGRAM



Is this datasheet the latest release? Please check on our website



ORDERING AND OPTION CHART

E	S	A	FILTER ELEMENT FAMILY													
			SIZE & LENGTH	11	21	2A	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	B
			N = NPT thread	N	N	N	N	N	N	N	N	N	N	N	-	-
			PORT SIZE													
			03 = 3/8"	03	-	-	-	-	-	-	-	-	-	-	-	-
			04 = 1/2"	04	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
			BYPASS VALVE													
			W = without	W	W	W	W	W	W	W	W	W	W	W	W	W
			A = 30 kPa (0,3 bar)	D	D	D	D	D	D	D	D	D	D	D	D	D
			FormulaUFI MEDIA													
			ME = FormulaUFI.WEB 60 µm	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME
			MF = FormulaUFI.WEB 90 µm	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
			MG = FormulaUFI.WEB 250 µm	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG



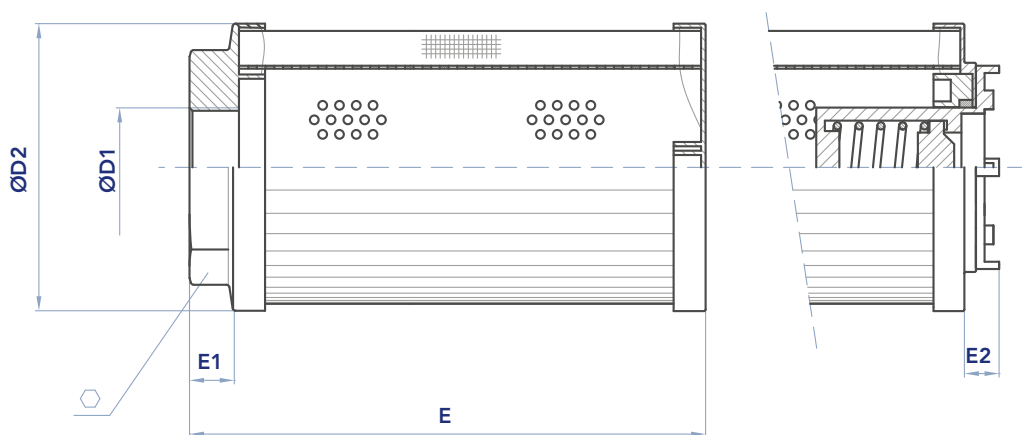
ORDERING AND OPTION CHART

E	S	B	FILTER ELEMENT FAMILY													
			SIZE & LENGTH	11	21	2A	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	B
			N = NPT thread	N	N	N	N	N	N	N	N	N	N	N	-	-
			PORT SIZE													
			03 = 3/8"	03	-	-	-	-	-	-	-	-	-	-	-	-
			04 = 1/2"	04	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
			BYPASS VALVE													
			X = not available	X	X	X	X	X	X	X	X	X	X	X	X	X
			FormulaUFI MEDIA													
			ME = FormulaUFI.WEB 60 µm	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME	ME
			MF = FormulaUFI.WEB 90 µm	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF	MF
			MG = FormulaUFI.WEB 250 µm	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG

ESA

SUCTION FILTERS

INSTALLATION DRAWING



FILTER HOUSING

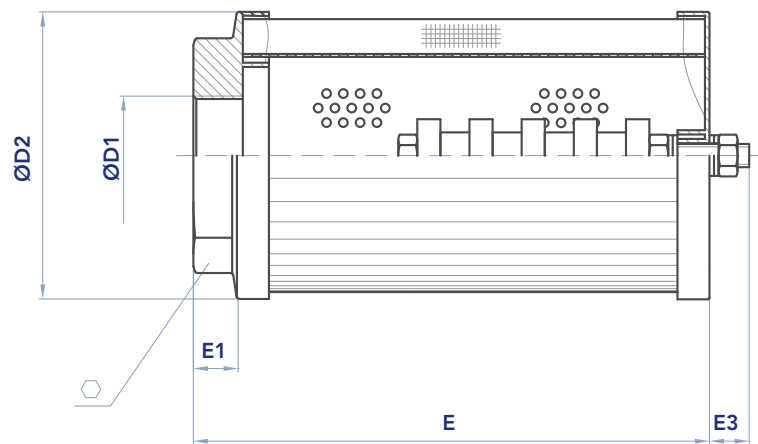
	D1	D2	E	E1	E2	⬡	Kg
ESA11	3/8" - 1/2"	52	73	12	8	30	0,05
ESA21	1/2" - 3/4"	70	92	13	11	42	0,25
ESA2A	1/2" - 3/4"	70	141	13	11	42	0,25
ESA22	1"	70	137	13	11	42	0,25
ESA30	1"1/4 - 1"1/2"	99	135	15	8	70	0,30
ESA31	1"1/4 - 1"1/2"	99	178	15	8	70	0,40
ESA32	1"1/4 - 1"1/2 - 2"	99	218	15	8	70	0,50
ESA40	1"1/2 - 2"	130	160	15	15	101	0,50
ESA41	1"1/2 - 2"	130	201	15	15	101	0,70
ESA42	2" - 2"1/2 - 3"	130	253	15	15	101	1,00
ESA43	3"	130	330	15	15	101	1,30
ESA51	3"1/2"	180	390	35	-	140	2,80
ESA52	4"	180	440	35	-	140	3,00

ESB

SUCTION FILTERS



INSTALLATION DRAWING



FILTER HOUSING

	D1	D2	E	E1	E3	⬡	Kg
ESB11	3/8" - 1/2"	52	73	12	9	30	0,10
ESB21	1/2" - 3/4"	70	92	13	12	42	0,30
ESB2A	1/2" - 3/4"	70	141	13	12	42	0,30
ESB22	1"	70	137	13	12	42	0,30
ESB30	1"1/4 - 1"1/2	99	135	15	12	70	0,35
ESB31	1"1/4 - 1"1/2	99	178	15	12	70	0,45
ESB32	1"1/4 - 1"1/2 - 2"	99	218	15	14	70	0,60
ESB40	1"1/2 - 2"	130	160	15	14	70	0,60
ESB41	1"1/2 - 2"	130	201	15	14	70	0,80
ESB42	2" - 2"1/2 - 3"	130	253	15	14	101	1,20
ESB43	3"	130	330	15	14	101	1,50
ESB51	3"1/2	180	390	35	14	140	3,00
ESB52	4"	180	440	35	14	140	3,20

ESA-ESB

SUCTION FILTERS

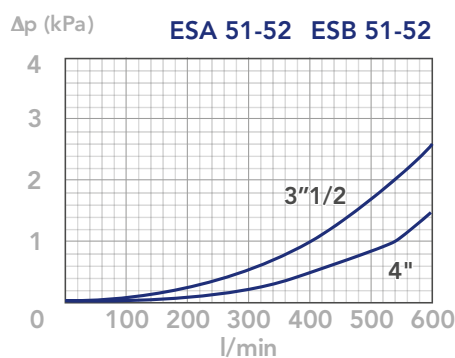
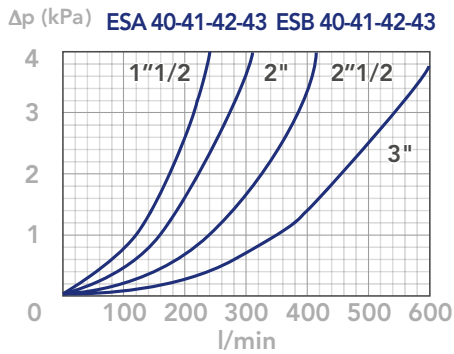
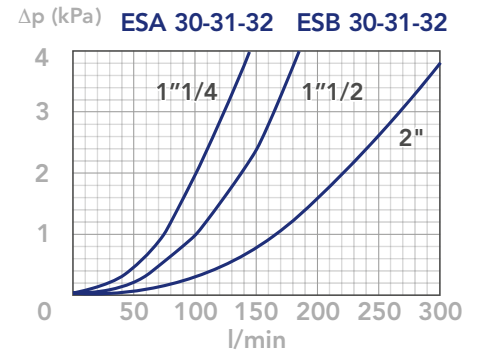
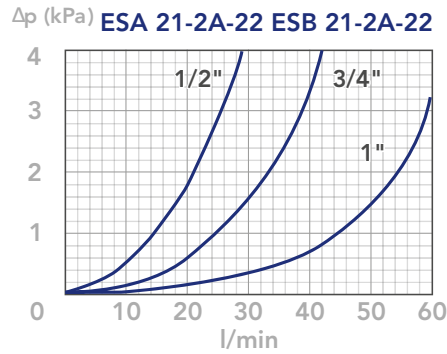
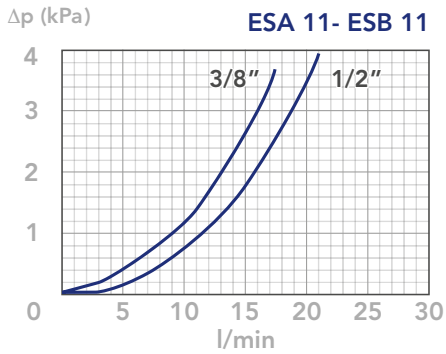
MAINTENANCE

The best time to change your filter element is just before it reaches its maximum dirt-holding capacity. When it is time to change the filter element, switch off the system before opening the tank. Remove the dirty filter element and replace it with an original UFI Hydraulics element, verifying the part number on the filter cap or in the ordering and option chart. Close the tank.

N.B. The exhausted filter elements and the oil dirty filter parts are classified "Dangerous waste material" and must be disposed of according to the local laws, by authorized Companies. We recommend the stocking of a spare UFI Hydraulics filter element for timely replacement when required.

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 0,86 kg/dm³; for fluids with different features, please consider the factors described in the first part of this catalogue. All the curves

are obtained from test done at the UFI FILTERS HYDRAULICS Laboratory, according to the specification ISO 3968. In case of discrepancy, please check the contamination level, viscosity and features of the fluid in use.