

SL-KR Model

ASME Design Filter Housings



Fluid Purification



SL-KR model cartridge filter housing is designed to conform to ASME code SECTION VIII, Div. 1 standards. The housings are available as certified ASME U-stamp housing or as a non-certified code housing. The ASME code design assure the customer that all material and fabrication procedures meet the most stringent requirements, while providing safety to operating personnel.

The SL-KR model comes in a wide range of sizes with flow capacities from 60 to 4500 gallons per minute (GPM) and are designed to accommodate 3 to 203 rounds of cartridges. The standard housings are offered with 150 psi designs and can be easily configured for specific system requirements.

APPLICABLE CUNO FILTER CARTRIDGE

Micro-Wynd II	Poro-Klean	MPF-J
Micro-Klean III	Micro-Screen	Betapure
Beta-Klean	Zetapor	Polynet
Petro-Klean	Bevassure	Betafine
Econo-Klean	Electropor	Polypro
Act. Carbon	Microfluor	Zetaplus

DESIGN FEATURES

- ASME Code Section VIII, Div. 1 Design
- Standard 150 psi housings (Higher pressure units upon request)
- Cartridge lengths from 9 $\frac{1}{4}$ " - 40"
- DOE and SOE cartridge styles
- Machined O-ring grooves for better sealing
- User friendly cover lifting for easy cartridge change-out
- Manufactured from carbon steel, SS304 or SS316 to meet requirement

OPTIONS

- Certified ASME code design with U-stamp
- Accredited third party inspection
- Full or spot radiography
- Corrosion allowance available
- Choice of inlet/outlet flange size and location
- Nitrile gasket standard. Viton and EPR gasket available as options
- Optional finish treatment / Painting to customer's requirement

STANDARD MODEL SPECIFICATIONS

Note that the maximum operating pressure is the rating for the housing only (determined by ASME code, Section VIII, Div. 1). The cartridge capabilities will dictates process limits.

Operating Data	
Maximum operating pressure & temperature	150 psi @450° F for carbon steel unit 150 psi @250° F for stainless steel unit
Cartridges sizes	Use 9¾" to 10" modular-length in 1, 2, 3 or 4-high configurations
Basic Material of Construction	Carbon steel, 304 stainless steel or 316 stainless steel
Gasket Material	Standard is Nitrile. Viton or EPR available as option
OPTIONS	
Gauge connection	¼" NPT female as an option
Outlet location	90°, 180°, 270° rotation from inlet or bottom
Bolts for top cover	Standard bolts are swing eyebolts Through bolts are available as option
Code stamp	Upon request

MAXIMUM RECOMMENDED FLOWRATE

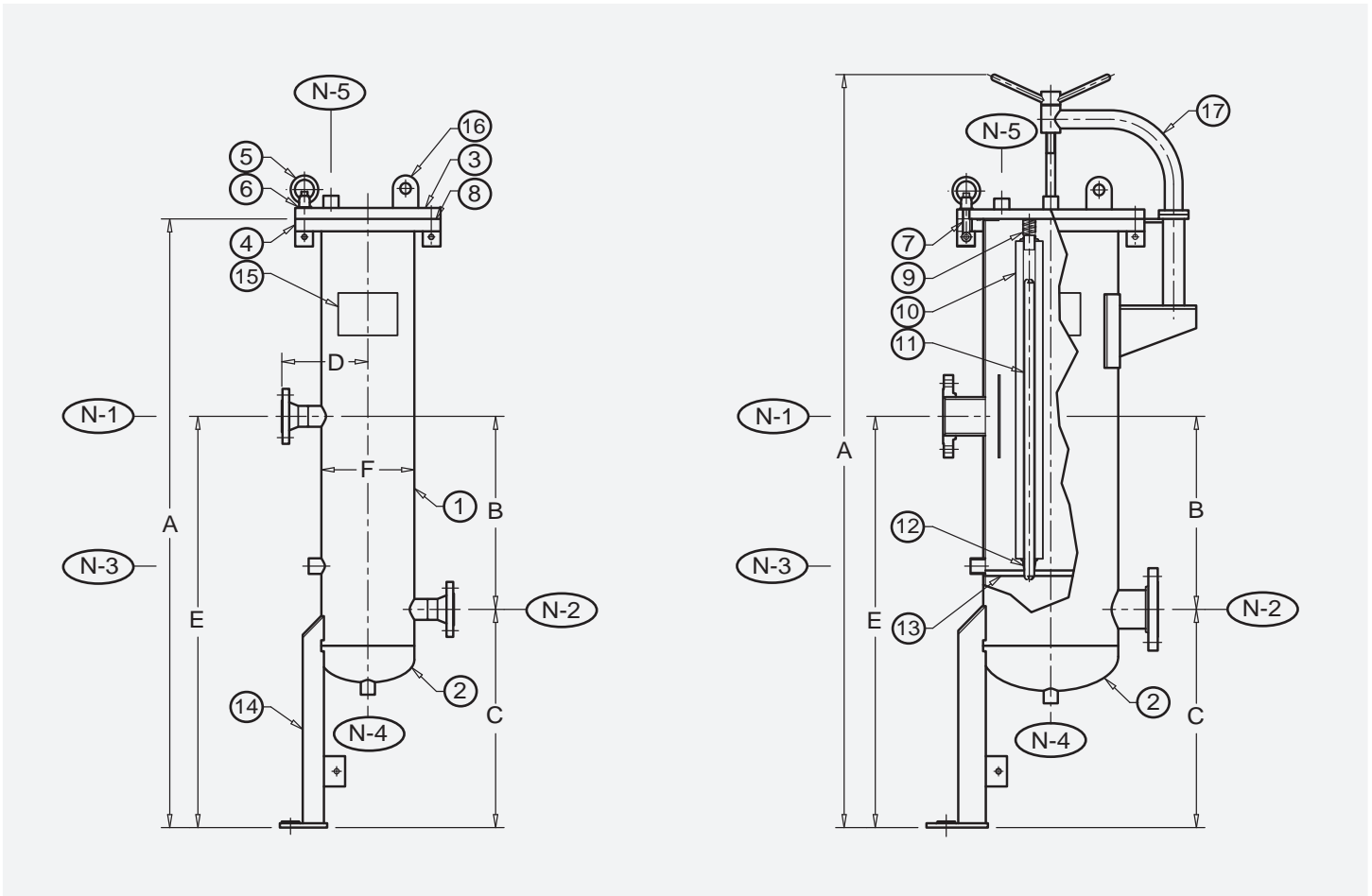
Use the data in the table only as a guide in establishing the maximum housing flow capacity; do not use it for filter sizing. Once a flow rate for a selected cartridge is known, use table to check whether the housing's flow rate falls within the recommended guidelines. When sizing a filter, the amount of contaminant to be removed needs to be considered in addition to the flow rate and desire pressure drop. Lower initial pressure drop enhances filter cartridge life

Table 1: Maximum recommended flow rate (GPM)

Filter Housing	Flange Sizes	Flow rate at various viscosity (SSU)				
		Water	150	300	600	1000
3SL-KR	2"	60	44	36	25	18
6SL-KR	2"	105	95	85	75	65
12SL-KR	3"	230	210	185	160	125
19SL-KR	4"	400	360	320	280	240
27SL-KR	4"	400	370	330	300	260
40SL-KR	6"	900	800	720	620	550
51SL-KR	6"	900	800	720	620	550
80SL-KR	8"	1600	1400	1250	1100	950
115SL-KR	10"	2600	2300	2000	1800	1500
156SL-KR	12"	3500	3100	2700	2400	2100
203SL-KR	14"	4500	4000	3500	3100	2700

Table 2 : Standard Housing Dimension (in inches)

Filter Model	Inlet/Outlet Flange	Clean Drain NPT-F	Sludge Drain NPT-F	Vent NPT-F	A (approx)	B	C	D	E	F	Approx. Liquid content (Gallon)
3SL-KR-1 3SL-KR-2 3SL-KR-3	2	3/4	1	1/4	37 48 58	10 14 14	18	8	28 32 32	8.625	5 8 11
6SL-KR-2 6SL-KR-3 6SL-KR-4	2	3/4	1	1/4	48 58 68	18	21	8	39	8.625	9 12 15.5
12SL-KR-2 12SL-KR-3 12SL-KR-4	3	3/4	1	1/4	62 72 82	18	21	10	39	12.75	18.5 24 29
19SL-KR-2 19SL-KR-3 19SL-KR-4	4	3/4	1	1/4	65 75 85	22	23	12	45	16.00	25 37 49
27SL-KR-2 27SL-KR-3 27SL-KR-4	4	3/4	1	1/4	66 76 86	23	24	14	47	18.00	40 50 60
40SL-KR-2 40SL-KR-3 40SL-KR-4	6	1	1	1/2	69 79 89	23	26	16	49	22.00	53 77 101
51SL-KR-2 51SL-KR-3 51SL-KR-4	6	1	2	1/2	69 79 89	23	32	17	49	24.00	90 100 110
80SL-KR-2 80SL-KR-3 80SL-KR-4	8	1	2	1/2	76 86 96	24	32	20	56	30.00	133 162 191
115SL-KR-2 115SL-KR-3 115SL-KR-4	10	1-1/2	2-1/2	1	76 86 96	24	32	23	56	36.00	194 236 278
156SL-KR-3 156SL-KR-4	12	1-1/2	2-1/2	1	89 99	25	33	26	58	42.00	443 518
203SL-KR-3 203SL-KR-4	14	1-1/2	2-1/2	1	92 102	30	36	29	66	48.00	475 550



PARTS IDENTIFICATION

Item	Description	Node	Function
1	Shell	N-1	Inlet
2	Dome	N-2	Outlet
3	Cover	N-3	Sludge Drain
4	Shell Flange	N-4	Clean Drain
5	Eye Nut	N-5	Vent
6	Washer	N-6	Gauge Connection (optional)
7	Swing Bolt		
8	Cover gasket / O-ring	13	Diaphragm Plate
9	Spring & Seal Assembly	14	Support Legs
10	Cartridge (fitted separately)	15	Name Plate
11	Cartridge Post	16	Lifting Lug
12	Pedestal	17	Davit Lifting Device**

** Not available for Models 3SL-KR & 6SL-KR

WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from the date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purpose disclosed in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B. point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by the Seller to be defective. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESS OR IMPLIED AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR ANY OTHER MATTER. Under no circumstances shall Seller be liable to Buyer or any third party for any loss of profits or other direct or indirect costs, expenses, losses or consequential damages arising out of or as a result any defects in or failure of its products or any part or parts thereof or arising out of or as result of parts or components incorporated in Seller's equipment but not supplied by the Seller.

SL-KR MODEL ORDERING GUIDE

HOUSING MODEL	CARTRIDGE HEIGHT	MATERIAL	TYPE	COVER GASKET	OUTLET LOCATION	COVER BOLT STYLE
3SL-KR	1 = 1 high	A = C. Steel	SX = Simplex (Default)	GA = Nitrile	E1 = Bottom	BB = Bolt
6SL-KR	2 = 2 high	B = SS304		GB = EPR	E2 = side 90°	
12SL-KR	3 = 3 high	C = SS316	DX = Duplex	GC = Viton	E3 = side 180° (Default)	BE = Eye Nut (Default)
19SL-KR	4 = 4 high				E4 = side 270°	
27SL-KR					Outlet location is from housing top view clockwise from inlet centerline	
40SL-KR						
51SL-KR						
80SL-KR						
115SL-KR						
156SL-KR						
203SL-KR						

REPLACEMENT PART LIST

DESCRIPTION		PART NUMBER	DESCRIPTION		PART NUMBER	DESCRIPTION		PART NUMBER
Gasket 3SL	Nitrile EPR Viton	K3248110 K3248111 K3248112	Gasket 51SL	Nitrile EPR Viton	K3848110 K3848111 K3848112	Cartridge post 1 - High	SS304 SS316	K6681701 39156040
Gasket 6SL	Nitrile EPR Viton	K3348110 K3348111 K3348112	Gasket 80SL	Nitrile EPR Viton	K3948110 K3948111 K3948112	Cartridge post 2 - High	SS304 SS316	K6681702 39156050
Gasket 12SL	Nitrile EPR Viton	K3448110 K3448111 K3448112	Gasket 115SL	Nitrile EPR Viton	K4048110 K4048111 K4048112	Cartridge post 3 - High	SS304 SS316	K6681703 39156060
Gasket 19SL	Nitrile EPR Viton	K3548110 K3548111 K3548112	Gasket 156SL	Nitrile EPR Viton	K4148110 K4148111 K4148112	Cartridge post 4 - High	SS304 SS316	K6681704 39156070
Gasket 27SL	Nitrile EPR Viton	K3648110 K3648111 K3648112	Gasket 203SL	Nitrile EPR Viton	K4248110 K4248111 K4248112	Spring & Seal Assembly	SS304 SS316	K6343702 39156093
Gasket 40SL	Nitrile EPR Viton	K3748110 K3748111 K3748112				Cartridge post stop ring	SS316	39156030

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Fluid Purification

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