



CLARIFY™ CARTRIDGE FILTER VESSELS



Description

Clarify cartridge filter vessels are designed to meet the wide-range of solids removal needs of fluid processing industries. The wide-ranging needs of the market are matched by the wide-ranging options within the Clarify family. Clarify technology is engineered to deliver cost effective solutions that ensure process reliability under the most challenging conditions.

Features & Benefits

- Standard models provide flow rates up to 2,050 gpm (465.6 m³/hr); higher capacity models also available
- Clarify cartridge technology allows customers to better manage the effluent solids concentration and particle size in their liquid processes
- Cartridge filter vessels provide maximum surface area and dirt holding capacity in a footprint
- Offered with a wide range of Clarify cartridge Filter designs to provide the most cost-effective solution for the application
- Each vessel design is engineered to provide maximum cartridge density, positive o-ring or gasket seal, lowest pressure drop and operator friendly cartridge replacement
- All vessels have upstream and downstream gauge ports and drains to allow for easy operation

Options

- ASME Section VIII Div 1, CRN or non-code
- Available in ergonomic horizontal design or vertical orientation
- Carbon Steel, 304SS, 316SS are standard materials of construction. Other alloys available: D2205 duplex, SD2507 super duplex, Hastelloy and Monel
- Buna, EPDM, Viton®, Teflon encapsulated Viton standard options; Others available
- Swing Bolt (standard), Quick Opening and Blind Flanged closures
- ANSI RF Class 150 PSI standard flange connections; Higher flanges ratings also available

Markets

- General Industrial
- Oil & Gas
- Water Treatment
- Chemical Production
- Power Generation
- Food & Beverage

Common Applications

- Water
- Sea Water
- Wastewater
- Brines
- Acids
- Bases
- Organic Solvents
- Fuels
- Chemicals
- Lubricants
- Coolants

Cartridge Series Available

- Clarify 250
- Clarify 380
- Clarify 430
- Clarify 500
- Clarify 740
- Clarify 940
- Clarify 2040

NUMBER OF CARTRIDGES PER VESSEL DIAMETER & CARTRIDGE SERIES

SERIES	DIAMETER	8"	10"	12"	14"	16"	18"	20"	22"	24"	30"	36"	42"	48"
Clarify 250	2.5"	6	-	12	-	20	27	-	40	52	82	116	158	205
Clarify 380	3.75"	-	3	5	-	9	12	15	-	20	36	52	72	95
Clarify 430	4.25"	-	3	4	5	7	11	-	14	18	29	44	58	81
Clarify 500	5.0"	-	-	3	4	6	7	-	10	12	20	29	42	55
Clarify 740 (all options)	6.25"	1	-	-	-	3	4	5	7	8	13	21	29	37
Clarify 940	12.75"	-	-	-	-	-	1	-	-	-	3	5	7	8
Clarify 2040	20.0"	-	-	-	-	-	-	-	1	-	-	-	-	-

TYPICAL INLET/OUTLET PIPE SIZES PER VESSEL DIAMETER

VESSEL DIAMETER (in)	8"	10"	12"	14"	16"	18"	20"	22"	24"	30"	36"	42"	48"
Inlet/Outlet Pipe Size (in)	1"	2"	2"	2"	2"	3"	3"	3"	3"	4"	6"	8"	10"
	1.5"	3"	3"	3"	3"	4"	4"	4"	4"	6"	8"	10"	12"
	2"	4"	4"	4"	4"	6"	6"	6"	6"	8"	10"	12"	14"

*Standard pipe sizes in bold.

CLARIFY SOLID-LIQUID FILTRATION VESSEL CODING

Use the chart below to create cartridge part number for ordering. Please include dashes when creating part numbers.

	Vessel Series	Orientation	Diameter	Vessel Closure	Materials of Construction	Flange Pressure Rating	Inlet/Outlet Size	Clarify FTC Cartridge Style	Vessel Seal	Vessel Certification
EXAMPLE	SLC	V	18	-	S4	150	3F	250	B	U
OPTIONS	Solid-Liquid Clarify Cartridge Filter Vessel	V Vertical H Horizontal	8 10 12 14 16 18 20 22 24 30 36 42 48	blank Swing Bolt B Blind Flanged Q Quick Opening	C Carbon Steel S4 304 SS S6 316 SS D Duplex 2205 SS SD Super Duplex 2507 SS H Hastelloy M Monel	150 300 600 900	2F 3F 4F 6F 8F 10F 12F 14F 16F	250 380 430 500 740 (all styles) 940 2040	B Buna-N E EPDM V Viton A TEV PTFE encapsulated Viton W Spiral Wound	U ASME Code C CRN Stamp blank Non-Code

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