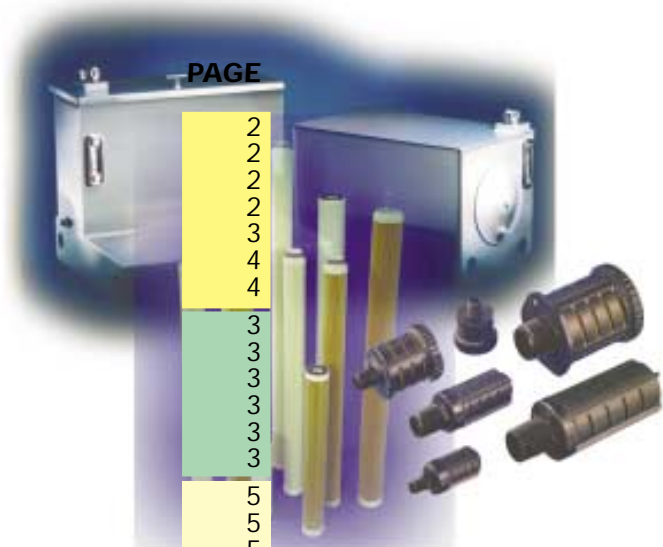


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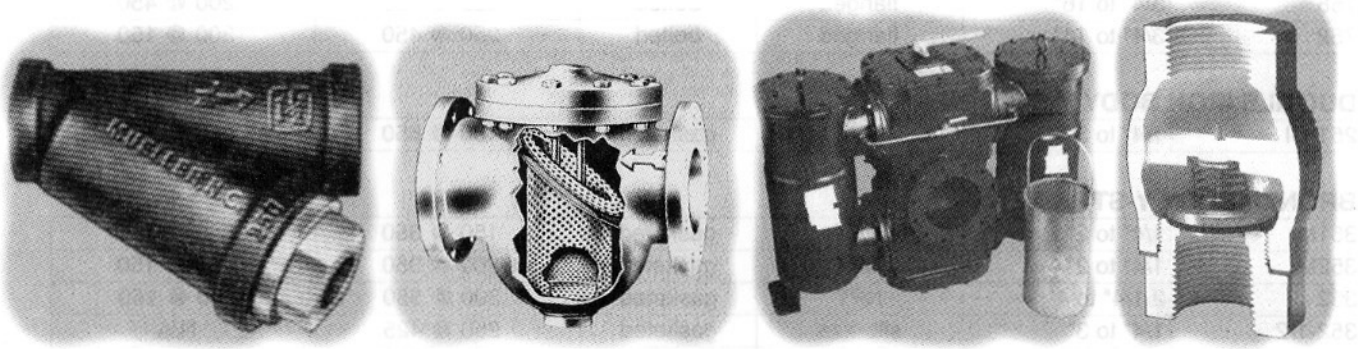
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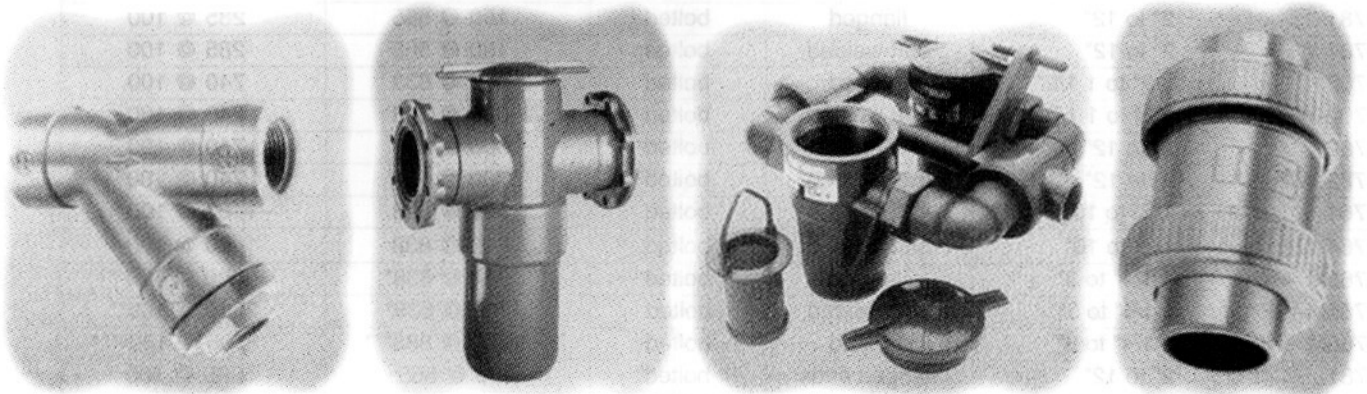
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Y-STRAINERS – SIMPLEX STRAINERS DUPLEX STRAINERS – CHECK VALVES

Flow Ezy has made available y-strainers, simplex strainers, duplex strainers, and check valves made in iron, bronze, carbon steel, stainless steel, PVC, CPVC, and polypropylene. Review pages 1 through 7 for the combinations you need in pipe sizes, end connections, cover styles, and working pressures.



You can also choose from y-strainers, simplex strainers, duplex strainers, and check valves made in PVC, CPVC, or polypropylene. Review page 3 for the various combinations you need.



For dimensions, specifications, and application please contact Flow Ezy.

Y-STRAINER REFERENCE SHEET (COMPLETE UNITS)

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	STEAM WORKING PRESSURE PSI @ DEGREES F.	WATER-OIL-GAS WORKING PRESSURE PSI @ DEGREES F.
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IRON BODY Y-STRAINERS

11M	1/4" to 3"	NPT	gasketed	250 @ 400	400 @ 150
11M-FCB	1/2" to 2"	NPT	gasketed	250 @ 400	400 @ 150
11-BC	2" to 4"	NPT	bolted	250 @ 400	400 @ 150
758	3/4" to 16"	flanged	bolted	125 @ 450	200 @ 450
752	3/4" to 14"	flanged	bolted	250 @ 450	300 @ 150

DUCTILE IRON BODY Y-STRAINERS

251-DI	1/4" to 3"	NPT	gasketed	450 @ 650	640 @ 100
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BRONZE BODY Y-STRAINERS

351M	1/4" to 2"	NPT	gasketed	150 @ 350	200 @ 150
352M	1/4" to 2"	NPT	gasketed	300 @ 350	400 @ 150
352	2 1/4" to 4"	NPT	gasketed	300 @ 350	400 @ 150
352-1/2	1/4" to 3"	silbrazed	gasketed	250 @ 425	N/A
353-1/2	1/4" to 3"	soldered	gasketed	175 @ 250	175 @ 250
851	1/2" to 6"	flanged	bolted	150 @ 405	225 @ 150
852	1/2" to 6"	flanged	bolted	300 @ 420	500 @ 150

CARBON STEEL BODY Y-STRAINERS

581	1/4" to 2"	NPT	gasketed	1010 @ 750	1480 @ 100
582	1/4" to 2"	socket welded	gasketed	1010 @ 750	1480 @ 100
761	1/2" to 1 1/2"	flanged	bolted	150 @ 565	285 @ 100
761-WE	1/2" to 1 1/2"	butt welded	bolted	150 @ 565	285 @ 100
781	2" to 12"	flanged	bolted	150 @ 565	285 @ 100
781-WE	2" to 12"	butt welded	bolted	150 @ 565	285 @ 100
762	1/2" to 1 1/2"	flanged	bolted	300 @ 838	740 @ 100
762-WE	1/2" to 1 1/2"	butt welded	bolted	300 @ 838	740 @ 100
782	2" to 12"	flanged	bolted	300 @ 838	740 @ 100
782-WE	2" to 12"	butt welded	bolted	300 @ 838	740 @ 100
764	1/2" to 10"	flanged	bolted	600 @ 838	1480 @ 100
764-WE	1/2" to 10"	butt welded	bolted	600 @ 838	1480 @ 100
765M	1 1/4" to 3"	flanged	bolted	900 @ 838*	2200 @ 100**
765M-WE	1 1/4" to 3"	butt welded	bolted	900 @ 838*	2200 @ 100**
766M	1 1/4" to 3"	flanged	bolted	1500 @ 838***	3705 @ 100****
781	2" to 12"	flanged ends	bolted	150 @ 565	285 @ 100
781-WE	2" to 12"	butt welded	bolted	150 @ 565	285 @ 100
861	1/4" to 2"	NPT	gasketed	600 @ 838	1480 @ 100
861-BC	1/2" to 3"	NPT	bolted	600 @ 838	1480 @ 100
862	1/4" to 2"	socket welded	gasketed	600 @ 838	1480 @ 100
862-BC	1/2" to 3"	socket welded	bolted	600 @ 838	1480 @ 100
863M	1/2" to 2"	NPT	bolted	1500 @ 838	3705 @ 100
864M	1/2" to 2"	socket welded	bolted	1500 @ 838	3705 @ 100

* 900 PSI @ 838 (carbon steel) or 975 (chrome-moly) degrees F.

** WOG - 2200 PSI (carbon steel) or 2250 PSI (chrome-moly) at 100 degrees F.

*** steam - 1500 PSI @ 838 (carbon steel) or 975 (chrome-moly) degrees F.

**** WOG - 3705 PSI (carbon steel) or 3750 PSI (chrome-moly) @ 100 degrees F.

ELEMENT SIZES ARE 20, 30, 40, 60, 80, AND 100 MESH STAINLESS STEEL OR PERFORATED STAINLESS STEEL. STANDARD PERFORATIONS ARE .033, .045, .057, .125, AND .156.

Y-STRAINER (COMPLETE UNITS) AND SILENT CHECK VALVE REFERENCE SHEET

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	WORKING PRESSURE PSI @ DEGREES	WORKING PRESSURE PSI @ DEGREES F.
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STAINLESS STEEL BODY Y-STRAINERS

581-SS	1/4" to 2"	NPT	gasketed	845 @ 750	1440 @ 100
582-SS	1/4" to 2"	socket welded	gasketed	845 @ 750	1440 @ 100
761-SS	1/2" to 6"	flanged	bolted	150 @ 565	275 @ 100
761-SS-WE	1/2" to 6"	butt welded	bolted	150 @ 565	275 @ 100
762-SS	1/2" to 1 1/2"	flanged	bolted	300 @ 1125	720 @ 100
762-SS-WE	1/2" to 1 1/2"	butt welded	bolted	300 @ 1125	720 @ 100
764-SS	1/2" to 6"	flanged	bolted	600 @ 1125	1440 @ 100
764-SS-WE	1/2" to 6"	butt welded	bolted	600 @ 1125	1440 @ 100
781-SS	2" to 12"	flanged	bolted	150 @ 565	275 @ 100
781-SS-WE	2" to 12"	butt welded	bolted	150 @ 565	275 @ 100
782-SS	2" to 12"	flanged	bolted	300 @ 1125	720 @ 100
782-SS-WE	2" to 12"	butt welded	bolted	300 @ 1125	720 @ 100
861-SS-BC	1/2 to 3"	NPT	bolted	600 @ 1125	1440 @ 100
862-SS-BC	1/2" to 3"	socket welded	bolted	600 @ 1125	1440 @ 100
863M-SS	1/2" to 2"	NPT	bolted	1500 @ 1125	3660 @ 100
864M-SS	1/2" to 2"	socket welded	bolted	1500 @ 1125	3660 @ 100

ELEMENT SIZES ARE 20, 30, 40, 60, 80, AND 100 MESH STAINLESS STEEL OR PERFORATED STAINLESS STEEL. STANDARD PERFORATIONS ARE .033, .045, .057, .125, AND .156.

HOW TO ORDER (example): MODEL NUMBER - PIPE SIZE - MESH/PERF SIZE
781-SS-6-100

CHECK VALVES

MODEL NUMBER	PIPE SIZE	CLASS RATING	END CONNECTION	PRESSURE/ TEMP RATING (PSI/F.)
303-AP	1/4" to 2"	250	NPT	200/150
303-BP	1/4" to 2"	300	NPT	400/100
303-HT-X	1/4" to 2"	300	NPT	600/150
TC1-*-S/T/F	1/4" to 4"	N/A	npt, socket, flange	150/70
TC2-*-S/T/F	1/4" to 4"	N/A	npt, socket, flange	150/70
TC4-*-T	1/4" to 2"	N/A	NPT	150/70

MODEL NUMBER	BODY MATERIAL	SEAT MATERIAL	DISC MATERIAL
303-AP	cast iron	EPDM	brass
303-BP	bronze	EPDM	brass
303-HT-X	316 st stl	metal to metal	316 st stl
TC1-*-S/T/F	PVC	viton	PVC
TC2-*-S/T/F	CPVC	viton	CPVC
TC4-*-T	PPL	viton	PPL

HOW TO ORDER METAL CHECK VALVES (example): MODEL NUMBER - PIPE SIZE
303-BP-2

HOW TO ORDER PLASTIC CHECK VALVES (example): MODEL NUMBER - PIPE SIZE - CONNECTION TYPE
TC1-1/2-T

PVC, CPVC, AND POLYPROPYLENE Y-STRAINERS AND SIMPLEX STRAINERS

Y-STRAINERS (PVC and CPVC)

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	WATER-OIL-GAS WORKING PRESSURE PSI@DEGREES F.
YS-10 or YS-20 (see code below)	2" to 4"	flanged	gasketed	150@70
	1/2" to 4"	socketed	gasketed	150@70
	1/2" to 4"	NPT	gasketed	150@70
	2" to 4"	flanged	gasketed	150@70
	1/2" to 4"	socketed	gasketed	150@70
	1/2" to 4"	NPT	gasketed	150@70

PVC and CPVC y-strainers include a 1/32" perforated screen. Optional 316 stainless steel screens are available in 20, 30, 40, 60, 80, and 100 mesh.

All PVC and CPVC Y-strainers come standard with viton seals.

HOW TO ORDER:

YS - 10 - 100 - T - w/100 mesh

PVC = 10
CPVC = 20

050 = 1/2"
075 = 3/4"
100 = 1"
150 = 1 1/2"
200 = 2"
300 = 3"
400 = 4"

OPTION ONLY

20, 30, 40,
60, 80, 100
mesh element

T = threaded
F = flanged
S = socketed

ALL COMBINATIONS ARE NOT AVAILABLE IN ALL MATERIALS
CONSULT PRICE LIST OR CALL FLOW EZY

SIMPLEX STRAINERS (PVC, CPVC, AND POLYPROPYLENE)

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	WATER-OIL-GAS WORKING PRESSURE PSI@DEGREES F.
BS-10, BS-20, or BS-40 (see code below)	1/2" to 4"	flanged	threaded	150@70
	1/2" to 4"	socketed	threaded	150@70
	1/2" to 4"	threaded	threaded	150@70
	1" to 2"	flanged	threaded	150@70
	1" to 2"	threaded	threaded	150@70
	1/2" to 8"	flanged	threaded	150@70
	1/2" to 4"	socketed	threaded	150@70
	1/2" to 4"	threaded	threaded	150@70

For 1/2", 3/4", and 1" basket strainers standard perforation is 1/32". For 1 1/2" through 8" basket strainers standard perforation is 1/8".

1" and 2" basket strainers are adapted with reducer bushings.

Optional 316 stainless steel screens are available in 20, 30, 40, 60, 80, and 100 mesh.

All PVC and CPVC simplex strainers come standard with viton seals

HOW TO ORDER:

BS - 20 - 075 - S - w/100 mesh

PVC = 10
CPVC = 20
POLY = 40

050 = 1/2"
075 = 3/4"
100 = 1"
150 = 1 1/2"
200 = 2"
300 = 3"
400 = 4"

1600 = PVC 6"
1800 = PVC 8"
2600 = CPVC 6"
2800 = CPVC 8"

OPTION ONLY

20, 30, 40,
60, 80, 100
mesh element

T = threaded
F = flanged
S = socketed

ALL COMBINATIONS ARE NOT AVAILABLE IN ALL MATERIALS
CONSULT CURRENT PRICE LIST OR CALL FLOW EZY

SIMPLEX STRAINER REFERENCE SHEET (COMPLETE UNITS)

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	STEAM PSI RATING WORKING PRESSURE	WATER-OIL-GAS PSI RATING WORKING PRESSURE
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IRON BODY SIMPLEX STRAINERS

125	3/8" to 3"	NPT	knob	not recommended	200
125F	1" to 8"	flanged	knob	not recommended	200
155M	2" to 14"	flanged	clamp	not recommended	150 (water only)
165	2" to 14"	flanged	bolted	125	200
166	2" to 14"	flanged	bolted	250	200
195	1" to 8"	flanged	bolted	125	125
195-SW	1 1/2" to 8"	flanged	swing clamp	not recommended	175

BRONZE BODY SIMPLEX STRAINERS

125-B	3/8" to 3"	NPT	knob	not recommended	225
125F-B	1" to 8"	flanged	knob	not recommended	225
165-B	2" to 6"	flanged	bolted	150	225
166-B	2" to 6"	flanged	bolted	300	500
195-B	1 1/2" to 3"	flanged	bolted	150	225

CARBON STEEL SIMPLEX STRAINERS

125-CS	3/8" to 3"	NPT	knob	not recommended	285
125F-CS	1" to 8"	flanged	knob	not recommended	285
185	1 1/4" to 12"	flanged	bolted	300	740
186	1 1/4" TO 12"	flanged	bolted	300	740
195-CS	1" to 10"	flanged	bolted	150	285
195-CS-SW	1 1/2" to 6"	flanged	swing clamp	not recommended	175
196-CS	1" to 6"	flanged	bolted	300	740

STAINLESS STEEL SIMPLEX STRAINERS

125-SS	3/8" to 3"	NPT	knob	not recommended	275
125F-SS	1" to 8"	flanged	knob	not recommended	275
185-SS	1 1/2" to 10"	flanged	bolted	150	275
186-SS	1 1/2" to 10"	flanged	bolted	300	720
195-SS	1" to 14"	flanged	bolted	150	275
196-SS	1" to 12"	flanged	bolted	300	720

BASKET SIZES ARE 20, 30, 40, 60, 80, AND 100 MESH STAINLESS STEEL OR PERFORATED STAINLESS STEEL. STANDARD PERFORATIONS ARE .033, .045, .057, .125, AND .156.

HOW TO ORDER (example):

MODEL NUMBER - PIPE SIZE - MESH/PERF SIZE

125-SS-1-60

DUPLEX STRAINER REFERENCE SHEET (COMPLETE UNITS)

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	PSI RATING WORKING PRESSURE	CLASS
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IRON BODY DUPLEX STRAINERS

691F-AB	8" to 16"	flanged	bolted	285	150
791F-AH	1" to 6"	flanged	knob	200	150
791S-AH	3/4" to 3"	NPT	knob	200	125

BRONZE BODY DUPLEX STRAINERS

792F-BH	1" to 6"	flanged	knob	225	150
792S-BH	3/4" to 3"	NPT	knob	225	150
794F-BH	1" to 4"	flanged	knob	500	300

CARBON STEEL DUPLEX STRAINERS

692F-DB	8" to 14"	flanged	bolted	285	150
792F-DH	1" to 6"	flanged	knob	285	150
792S-DH	3/4" to 3"	NPT	bolted	285	300
794F-DH	1" to 6"	flanged	knob	740	300

STAINLESS STEEL DUPLEX STRAINERS

792S-HH	3/4" to 3"	NPT	knob	275	300
792F-HH	1" to 6"	flanged	knob	275	150
794F-HH	1" to 6"	flanged	knob	720	300

all diverter ball material is 316 stainless steel

FLOW EZY FILTERS' DUPLEX STRAINERS ARE NOT RECOMMENDED FOR STEAM

BASKET SIZES ARE 20, 30, 40, 60, 80, AND 100 MESH STAINLESS STEEL OR PERFORATED STAINLESS STEEL. STANDARD PERFORATIONS ARE .033, .045, .057, .125, AND .156.

HOW TO ORDER (example):

MODEL NUMBER - PIPE SIZE - MESH/PERF SIZE
792S-HH-2-100

PVC, CPVC, AND POLYPROPYLENE DUPLEX STRAINERS AND BAG FILTERS

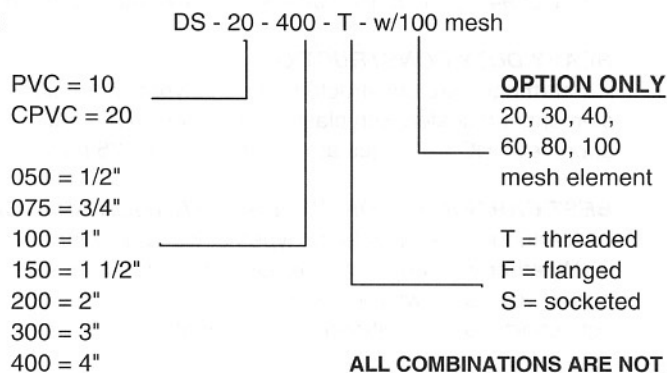
DUPLEX STRAINERS (PVC AND CPVC)

MODEL NUMBER	PIPE SIZE	END CONNECTION	COVER STYLE	WATER-OIL-GAS WORKING PRESSURE PSI@DEGREES F.
DS-10 or DS-20 (see code below)	1/2" to 4"	flanged	threaded	150@70
	1/2" to 4"	socketed	threaded	150@70
	1/2" to 4"	NPT	threaded	150@70

All PVC and CPVC duplex strainers come standard with viton seals.

For 1/2", 3/4", and 1" basket strainers standard perforation is 1/32". For 1 1/2" through 8" basket strainers standard perforation is 1/8".

HOW TO ORDER:

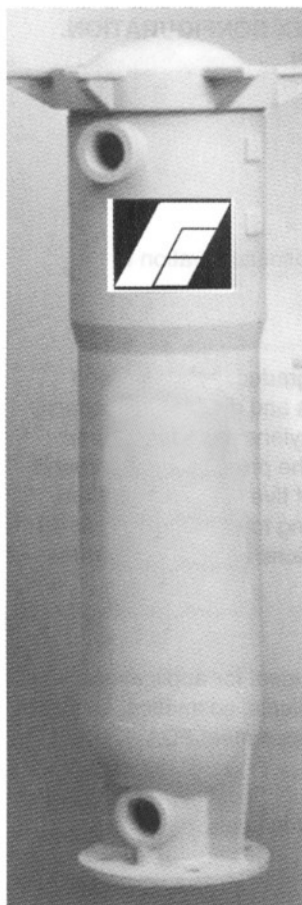


1" and 2" basket strainers are adapted with reducer bushings.

Optional 316 stainless steel screens are available in 20, 30, 40, 60, 80, and 100 mesh.

**ALL COMBINATIONS ARE NOT AVAILABLE IN ALL MATERIALS
CONSULT CURRENT PRICE LIST OR CALL FLOW EZY**

POLYPROPYLENE BAG FILTERS



Flow Ezy's glass reinforced polypropylene bag filters feature a unique, one piece, seamless body rated at 225 psi. It will never rust or corrode and compromise the quality of the filtration system.

This unit was designed for easy service. A hand removable cover and built-in basket and bag handles makes bag change out fast and easy. No tools are needed and the filter is back in operation in a matter of minutes.

Installation is quick using the rugged, bottom mounting flange. The integrally molded support bracket mount provides for an installation that is secure and rigid.

The filter comes complete with an all plastic, polypropylene vent valve installed on the cover. The valve has a 1/4" tap for the installation of a gauge. Pipe connections available are either 2" npt or 2" flanged.

Non-woven, polypropylene felt bags are available in 5, 10, 25, 50, and 100 micron. Using a different type of bag is not a problem. The retaining basket has a universal seat that works with almost any 7" diameter bag.

HOW TO ORDER:

single length

p/n for threaded unit - FLT4201

p/n for flanged unit - FLT4201F

double length

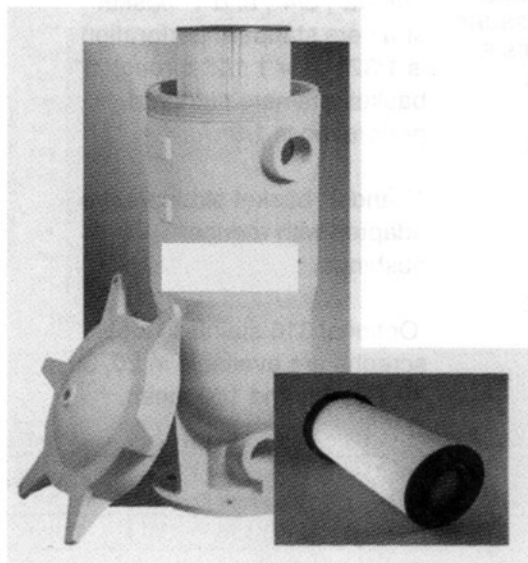
p/n for threaded unit - FLT4202

p/n for flanged unit - FLT4202F

**ALSO AVAILABLE IN A DUPLEX CONFIGURATION.
CONSULT FLOW EZY FILTERS FOR MORE INFORMATION**

POLYPROPYLENE CARTRIDGE FILTERS

SERIES 4200 "HC" POLYPROPYLENE CARTRIDGE FILTERS



MORE FILTRATION AREA

The Flow Ezy HC cartridge is a high capacity one that has over 47 sq. in. of filter area. That is more than 10 times the filtration area of a typical standard 10" cartridge - resulting in a higher dirt loading capacity and less downtime for cartridge changeout. For flow rates up to 50 gpm, use one cartridge installed in CFLT4201 filter housing. Two cartridges can be installed end-to-end in a CFLT4202 housing - creating a total of 94 sq. in. of filtration area for flow rates up to 100 gpm.

HEAVY DUTY CONSTRUCTION

HC cartridges are constructed with a polypropylene core, cellulose element and sealed with plastisol end caps. All materials are FDA approved. HC cartridges are offered in 5 and 25 micron sizes.

BEST CARTRIDGE FOR WATER FILTRATION APPLICATIONS

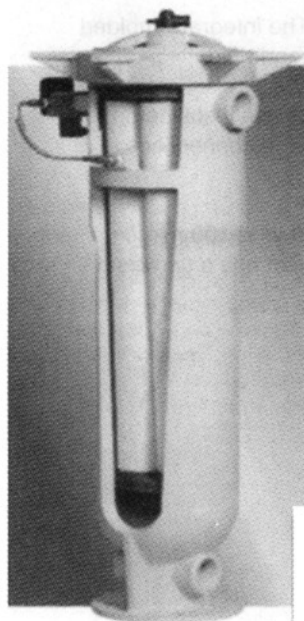
HC cartridges are ideal for all types of water filtration up to 165 degrees F. Whether your application requires the filtering of salt water, cooling water, well water, waste water, or drinking water, the HC cartridge is the right choice for your filtration requirements.

HOUSING PART NUMBER	CARTRIDGE TYPE & QUANTITY	ADAPTER KIT PART NUMBER
CFLT4201	HC (1)	CFXKITV
CFLT4202-HC	HC (2)	CFXKITV
CFLT4202-PF	PF30" (5)	MFLT30
CFLT4203	PF20" (5)	MFLT20

All Series 4200 filter housings have 2" npt threaded connections and viton seals.

THIS UNIT IS ALSO AVAILABLE IN A DUPLEX CONFIGURATION. CALL FLOW EZY FOR MORE INFORMATION.

SERIES 5200 PVDF "PF" POLYPROPYLENE CARTRIDGE FILTERS



ABSOLUTE FILTRATION TO 99.98%

Flow Ezy PF cartridges are designed for applications that require absolute filtration to 99.98% are rated at 1, 5, and 10 micron.

SUPERIOR DESIGN FOR LONG LIFE

PF cartridges are silicone free and constructed from a continuous, graded, polypropylene fiber. A high efficiency pleat configuration results in high flow rates and dirt loading capacity with minimal pressure drop. The media is housed within a polypropylene cage for support under high flow conditions and permits a more even distribution of the process liquid through the filter media for longer cartridge life. The PF cartridges consist of five elements and are available in two lengths. The 20" cartridge fits the CFLT4203 housing for flow rates up to 50 gpm and a 30" cartridge fits into our CFLT4202 housing for applications requiring flow rates up to 100 gpm.

UNLIMITED APPLICATIONS

This is the best chemically resistant filtration system available. It is ideal for applications requiring quality filtration of bulk chemicals, oils, photographic chemicals, cosmetics, pharmaceuticals, inks, dyes, paints, and water. Flow Ezy PF cartridges meet FDA requirements for food and beverage contact.

All Series 5200 PVDF housings have 2" flanged connections with viton seals.

HOUSING PART NUMBER	CARTRIDGE TYPE & QUANTITY	ADAPTER KIT PART NUMBER
CFLT5202F	PF30" (5)	MFLT30PVDF

FILTER BAGS AND CARTRIDGES FOR PVC, CPVC, AND POLYPROPYLENE HOUSINGS

POLYPROPYLENE FELT FILTER BAGS

Welded construction with polypropylene plastic collar

FLOW EZY PART NUMBER	SIZE (length)	MICRON SIZE
FB0M0194	single	1
FB0M0594	single	5
FB0M1094	single	10
FB0M2594	single	25
FB0J5094	single	50
FB0J8094	single	100
FB0M0195	double	1
FB0M0595	double	5
FB0M1095	double	10
FB0M2595	double	25
FB0J5095	double	50
FB0J8095	double	100

POLYPROPYLENE MONOFILAMENT FILTER BAGS

Sewn construction with galvanized steel snap ring

FLOW EZY PART NUMBER	SIZE (length)	MICRON SIZE
FB285012	single	50
FB287912	single	80
FB288012	single	100
FB288212	single	150
FB289212	single	400
FB289112	single	500
FB289712	single	1,000
FB285013	double	50
FB287913	double	80
FB288013	double	100
FB288213	double	150
FB289213	double	400
FB289113	double	500
FB289713	double	1,000

POLYPROPYLENE FELT FILTER BAGS

Sewn construction with polypropylene snap ring

FLOW EZY PART NUMBER	SIZE (length)	MICRON SIZE
FB250104	single	1
FB250304	single	3
FB250504	single	5
FB251004	single	10
FB252504	single	25
FB255004	single	50
FB258004	single	100
FB258204	single	150
FB258504	single	200
FB250108	double	1
FB250308	double	3
FB250508	double	5
FB251008	double	10
FB252508	double	25
FB255008	double	50
FB258008	double	100
FB258208	double	150
FB258508	double	200

FILTER CARTRIDGES

PF (20") CARTRIDGE (polypropylene)

PART NUMBER	MICRON SIZE
PF001/00032K	1
PF005/00032K	5
PF010/00032K	10

PF (20") cartridges are sold in units of 10 pieces only.

PF (30") CARTRIDGE (polypropylene)

PART NUMBER	MICRON SIZE
PF001/00031K	1
PF005/00031K	5
PF010/00031K	10

PF (30") cartridges are sold in units of 10 pieces only.

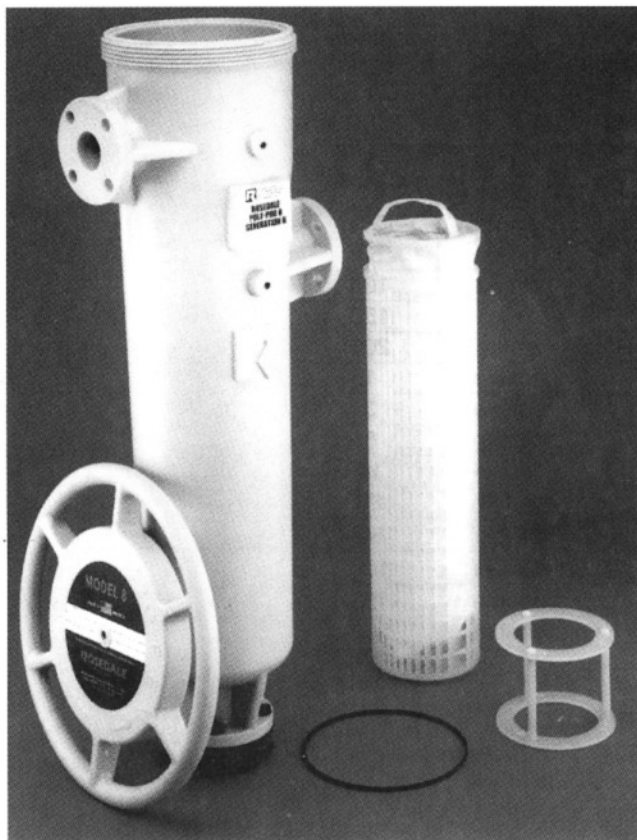
HC (16") CARTRIDGE (cellulose)

PART NUMBER	MICRON SIZE
HC005/00010K	5
HC025/00010K	25

HC (16") cartridges are sold in units of 4 pieces only.

ALL CARTRIDGES ARE PLASTIC WRAPPED AND SEALED TO PREVENT CONTAMINATION

THE GENERATION 2 ALL POLYPROPYLENE BAG AND CARTRIDGE FILTER HOUSING



Excellent for use in pure and corrosive applications.

The Generation 2 polypropylene filter housing is a unique one piece, seamless body that can handle flows to 100 gpm. It is rated to 100 psi at 150 degrees F. and offers excellent resistance to corrosion.

FEATURES:

- All molded polypropylene construction
- 2-inch flat face flange connections
- Unistyle piping configuration – side and/or bottom outlet
- Accepts #2 size bag or cartridge elements (down to 0.5 micron)
- Wide selection of cover o-ring materials
- External cover pressure threads

OPTIONS:

- Threaded flanges
- Cover vent valve
- Duplex and multiplex arrangements
- Leg assembly
- Cartridge adapter for 700 Series elements

The durable, corrosion resistant filter is constructed from special polymer compounds. The housing is molded of reinforced chemically coupled polypropylene homopolymer. The addition of a UV stabilizer makes it suitable for outdoor use.

An easily removable cover and basket make bag and cartridge change-out quick, clean, and simple. No special tools are needed, and the filter can be back in service in a matter of minutes. For extra strength, the cover features specially designed buttress-style threads. The cover threads are external, and have no contact with the process fluids to prevent product accumulation.

The filter housing is complete with a cover vent and four gauge port connections. The gauge port connections allow the use of differential pressure indicating equipment. This can be as simple as two gauges or as complex as a digital display. Various cover o-ring materials are available including buna, EPR, viton, and teflon encapsulated viton. It's versatile unitstyle design, side or bottom outlet, makes piping easy in any arrangement. 2" ANSI flat face flanges are standard with an option of converting to threaded connections.

The Generation 2 polypropylene housing is designed to accept #2 size elements, including our standard filter bag line. Bag-sized pleated cartridges, the Surfaceplus filter bag, and our latest series the Platinum line of absolute-cartridges. The filtration ratings are as fine as 0.5 micron at 99.98% efficiency.

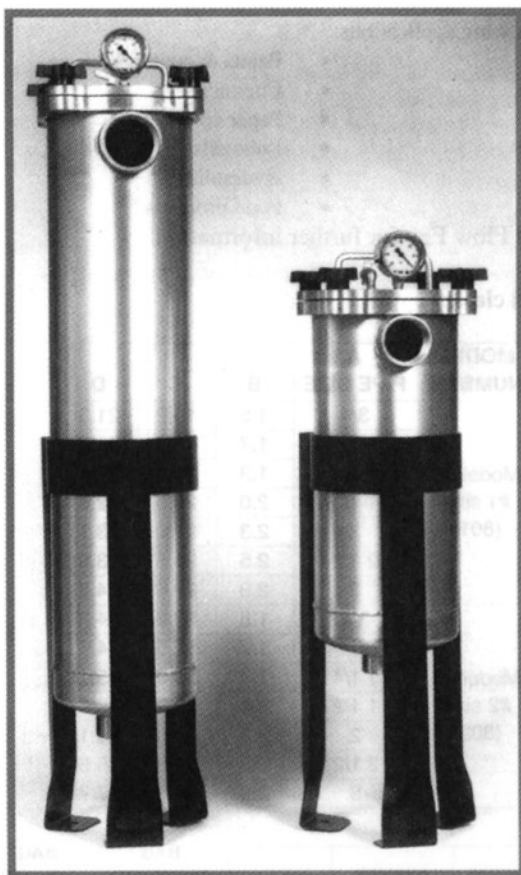
ORDERING CODE

	Housing	Options
Example:	CR8-30-2F-* -100-P-B	
MODEL NO. Corrosive Resistant Model 8	= CR8	
HOUSING SIZE 30 inch	= 30	
PIPE SIZE 2-inch Flat Face Flange	= 2F	
OUTLET STYLE Side/Bottom Unistyle	= *	
PRESSURE RATING 100 PSI	= 100	
HOUSING MATERIAL Polypropylene	= P	
COVER GASKET Buna N Ethylene Propylene Viton Teflon Encapsulated Viton	= B = E = V = TEV	

TECHNICAL SPECIFICATIONS

Element Size:	#2 Size Elements
Piping Connections:	2" ANSI B16.5 FF Flange
Housing Material:	Glass Reinforced Polypropylene w/ UV Stabilizer
Basket Material:	Natural Polypropylene
Recommended Change out:	15 PSID
Pressure Rating:	100 PSI @ 150° F
Shipping Weight:	50 lbs.

MODEL 80 GENERAL PURPOSE BAG FILTER HOUSING



The MODEL 80 General Purpose Bag Filter is an 8" diameter housing offered in two standard lengths in pipe sizes from $\frac{3}{4}$ " npt through 3" npt.

The housing accepts industry standard #1 or #2 size filter bags with a ring sewn in the top or patented Snap-Lok filter bags with polypropylene tops.

Economical GP series housings are for virtually any commercial, industrial, or process applications. Aluminum housings are offered in addition to carbon steel and stainless steel. Aluminum can be used in place of carbon steel, stainless steel, or plastic in many applications with superior results. It is especially effective in water and water based applications such as machine tool coolants and cooling towers.

Adjustable tripod legs are optional.

The Model 80 housing offers numerous design, engineering features, and enhancements not found in other housings.

Size 801 is rated at 80 gpm, size 802 is rated at 180 gpm. This should be considered an estimate of the maximum recommended flow rate. There are other variables involved which include fluid viscosity, temperature, type and size of filter bag, and micron rating.

ADVANTAGES

- American engineering
- Low cost – high quality
- Light-weight – can be shipped UPS
- Positively sealed, safe cover
- Fast, easy element changes
- Permanently piped housing
- Low pressure drops
- Large handle on cover
- Lightweight cover stainless steel helicoils in collar

OPTIONAL FEATURES

- Cleanable strainer baskets – perforated and mesh lined

OPERATION

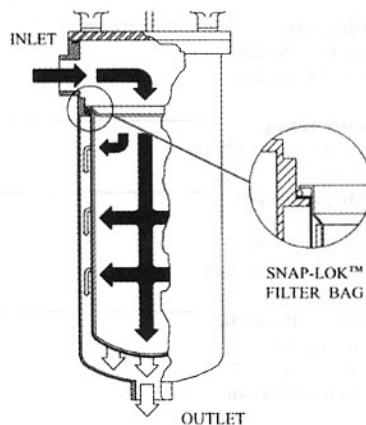
Unfiltered liquid enters the housing above the filter bag installed in the filter bag basket. The liquid passes through the filter bag. Solids are contained inside the filter bag and are easily removed when serviced.

Snap-Lok filter bags with plastic tops seal when snapped into the basket holder. As the differential pressure increases, the integrity of the seal is increased.

Standard filter bags with rings sewn in the top seal through the compressive fit of the filter material in the basket holder.

STANDARD FEATURES

- $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ", 2", 2 $\frac{1}{2}$ ", or 3" npt fittings
- Side inlet – bottom outlet
- Choice of filter elements
 1. #1 or #2 size standard filter bag
 2. #1 or #2 size Snap-Lok filter bag
- 125 psi max. operating pressure @ 300 F.
- Polypropylene speed bar knobs
- Adjustable carbon steel legs stainless steel filter bag baskets



TYPICAL APPLICATIONS FOR ALUMINUM HOUSING

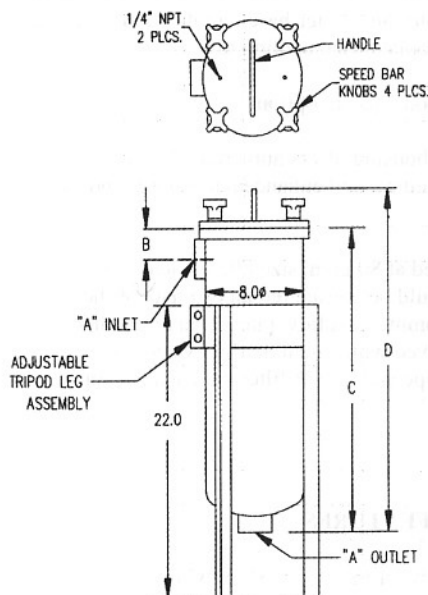
Aluminum filter bag housings are particularly well suited for the following applications:

- Ultrapure water
- Deep wells
- Makeup water
- Carbon beds
- Machine tool coolants
- EDM fluids
- Completion fluids
- Edible oils
- Ground water
- Prefiltration for RO
- Process water
- Cooling towers
- Paints & coatings
- Chemicals *
- Paper coating
- Lube oils
- Hydraulic oils
- Food products *

Aluminum is also compatible with many other fluids. Consult Flow Ezy for further information.

- Specific compatibilities should be checked for these broad classes.

DIMENSIONS



MODEL NUMBER	A PIPE SIZE	B	C	D
Model 80 #1 size (801)	3/4	1.5	19.2	21.3
	1	1.7	19.5	21.6
	1 1/4	1.9	20.0	22.1
	1 1/2	2.0	20.5	22.6
	2	2.3	21.0	23.1
	2 1/2	2.5	21.5	23.6
Model 80 #2 size (802)	3	2.9	22.6	24.7
	3/4	1.5	32.2	34.3
	1	1.7	32.5	34.6
	1 1/4	1.9	33.0	35.1
	1 1/2	2.0	33.5	35.6
	2	2.3	34.0	36.1
	2 1/2	2.5	34.5	36.6
	3	2.9	35.6	37.7

HOUSING MODEL	HOUSING SIZE	BASKET LENGTH (IN)	BAG SIZE	BAG DIAMETER (IN)	BAG LENGTH (IN)	BAG AREA (SQ. FT.)
80	1	14	1	7.2	16	2.0
80	2	28	2	7.2	31.5	4.4

MODEL H80 GP SERIES ORDERING CODE

EXAMPLE:

H80 - 1 - GP125 - CS - 1 - 1.25 - B - L - V

Model no:

H80

Housing size:

#1 size (14" basket)

#2 size (28" basket)

Pressure rating:

speed bar closure 125 psi

Housing material:

aluminum = AL

carbon steel = CS

304 stainless steel = 4S

Housing outlet style:

bottom outlet = 1

side outlet at top = 2

side outlet at bottom = 2A

Cover seal:

B = Buna N

E = EPR

V = Viton

T = Teflon

Legs:

L = with legs

N = without legs

Basket type:

perforated stainless steel

filter bag basket = B

Inlet & outlet size (npt):

3/4" = 0.75

1" = 1.0

1 1/4" = 1.25

1 1/2" = 1.5

2" = 2.0

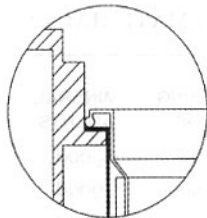
2 1/2" = 2.5

3" = 3.0

SNAP-LOK FILTER BAGS FOR MODEL 80 HOUSINGS

THE DESIGN

The Snap-Lok filter bag is a patented filter bag design, which utilizes a molded plastic top, which snaps into the filter bag basket holder on the Model 80 housing. It has a circular lip, which contacts the sidewall of the basket holder and the top of the filter bag basket. The integrity of the seal increases with an increase in the system differential pressure. The drawing below illustrates the Snap-Lok filter bag in place in the Model 80 housing. The molded top has a handle molded in for easy removal.



PATENTED SNAP-LOK™ DESIGN
INSTALLED IN MODEL 80 HOUSING



SIZE #1 —
7.2" DIA. X 16 1/2"

SIZE #2 —
7.2" DIA. X 31 1/2"

ADVANTAGES	STANDARD FEATURES
<ul style="list-style-type: none">• Low cost – high quality• Snaps into place when installed in filter bag housing	<ul style="list-style-type: none">• Choice of polypropylene or nylon molded top• 100% welded construction on polypropylene & polyester felt – no sewn seams
<ul style="list-style-type: none">• Integrity of the bag seal increases with the increase in differential pressure	<ul style="list-style-type: none">• Polypropylene, polyester, or nylon filter materials
<ul style="list-style-type: none">• High efficiency bags have migration free covers	<ul style="list-style-type: none">• Glazed finish on polyester & polypropylene felt
<ul style="list-style-type: none">• Polypropylene bags will remove oil from water	<ul style="list-style-type: none">• Micron ratings from 1 to 800
<ul style="list-style-type: none">• Patented design	<ul style="list-style-type: none">• Handle on bag for easy removal
<ul style="list-style-type: none">• Quick delivery	<ul style="list-style-type: none">• Two standard sizes - #1 and #2

THE MATERIALS AND MICRON RATINGS

FOUR BASIC MATERIAL CONSTRUCTIONS ARE OFFERED

MELT BLOWN MICROFIBERS

In the melt blown manufacturing process, polyester and polypropylene materials are processed into microfibers with diameters of 1 to 10 microns or more. These fibers are then converted into filter material.

Through the proper selection of diameters, thickness, and weight, it is possible to manufacture filter media with micron ratings of 1.0 to 25 and removal ratings of 99% or better.

Melt blown microfiber filter bags are always supplied with inner and outer covers. The filter media is fragile and cannot be used without covers. The covers also prevent media migration.

MULTIFILAMENT MESH

Multifilament mesh materials are offered in polyester with micron ratings of 125 through 800. Efficiencies range from 60% to 80%. This is a low cost disposable media.

FELT

Felt is a low cost material that produces good depth filtration and good solids holding capacity. It is made from synthetic fibers with diameters as low as 10 microns to as large as 60 microns by the needlepunch process. It is offered standard in polyester and polypropylene and nomex with nominal ratings of 1 to 200 micron. The efficiencies are low at 50% to 70%. The nominal ratings are still being used because it has been the standard for the last 30 years.

Polyester and polypropylene felts are supplied with a glazed finish. The outer most fibers are bonded to one another by a heat process which reduces the chance of their breaking loose.

MONOFILAMENT MESH

Woven monofilament materials are offered in nylon with micron ratings of 5 to 800 and efficiencies from 75% to 95%. The materials are cleanable and reusable and are in the moderate to high cost range.

STANDARD CONSTRUCTIONS, FIBERS, AND MICRON RATINGS

CONSTRUCTION	FIBER	AVAILABLE MICRON RATINGS															
		1	2.5	5	10	15	25	50	75	100	125	200	250	300	400	600	800
MELT BLOWN MICROFIBER	POLYPROPYLENE	X	X	X	X	X	X										
	POLYESTER	X	X	X	X	X											
FELT	POLYPROPYLENE	X		X	X		X	X		X		X					
	POLYESTER	X		X	X		X	X		X		X					
MULTIFILAMENT MESH	POLYESTER										X	X	X	X	X	X	X
MONOFILAMENT MESH	NYLON			X	X		X	X	X	X	X	X	X	X	X	X	X

MEDIA COMPATIBILITY OF FILTER BAG MATERIALS *

FIBER	ORGANIC SOLVENTS	VEGETABLE & PETRO OILS	ANIMAL MICRO-ORGANISMS	ORGANIC ALKALIES	OXIDIZING ACIDS	MINERAL AGENTS	ACIDS	TEMPERATURE LIMITATIONS (MAX. DEG. F.)
POLYESTER	excellent	excellent	excellent	good	good	good	good	300
POLYPROPYLENE	excellent	excellent	excellent	excellent	excellent	good	good	200
NYLON	excellent	excellent	excellent	good	fair	poor	poor	300

* This information is for general guidance. Users should test bag materials with media involved to determine compatibility.

THE SIZES

The Snap-Lok filter bags for Model 80 housings are made in size #1 and #2. In addition to accepting the Snap-Lok design, the Model 80 housings will accept standard #1 and #2 sewn filter bags with carbon steel, stainless steel, or polypropylene rings sewn in the top.

HOUSING MODEL	HOUSING SIZE	BASKET LENGTH (INCHES)	BAG SIZE	BAG DIA. (INCHES)	BAG LENGTH (INCHES)	BAG AREA (SQ.FT.)
80	1	14	1	7.2	16	2.0
80	2	28	2	7.2	31 1/2	4.4

THE WELDED FILTER BAGS – POLYPROPYLENE & POLYESTER FELT

Snap-Lok filter bags manufactured from polypropylene and polyester felt are supplied in an all welded construction with no sewn seams. The bags are also supplied standard with a glazed finish.

The Snap-Lok filter bags welded seams eliminate the possibility of unfiltered liquid bypass due to needle holes. The result is higher filter efficiency and improved product quality. The glazed finish and fused edges eliminate fiber migration. Since no sewing thread is used, the possibility of silicone contamination is eliminated.

MICRON RATINGS AND EFFICIENCIES

Polypropylene and polyester microfibre bags have efficiencies of 95% for the nominal ratings of 1.0 to 25.0 micron.

Polyester multifilament bags have efficiencies of 60% to 80% for micron ratings of 125 to 800 micron.

Nylon monofilament mesh bags have efficiencies of 75% to 95% for micron ratings of 50 to 800 micron.

Polyester and polypropylene felt bags are rated as follows:

NOMINAL RATING	EFFICIENCY AT NOMINAL RATING	RATING AT 95% EFFICIENCY
1	60%	35
5	60%	45
10	60%	55
25	60%	75
50	70%	95
100	80%	125
200	95%	200

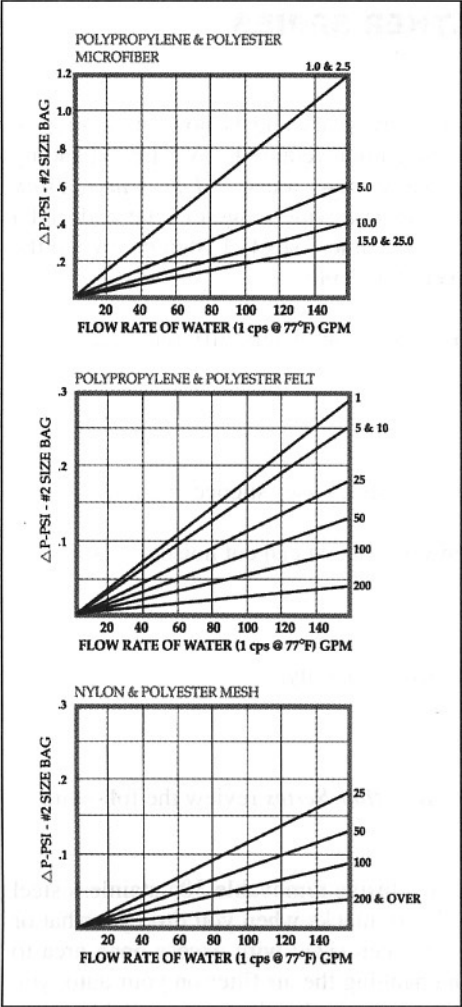
ON HOLDING CAPACITY

The polypropylene melt blown microfibre bags, POMF series, absorbs trace oils that frequently occur in fluids such as water or coolants. These bags have approximate oil holding capacities of 2 to 3 pounds each. The polypropylene felt bags will also absorb trace oils but do not have as large a capacity as the POMF series bags.

SPECIAL FEATURE

The #2 size Snap-Lok filter bags are also satisfactory for use in Filter Specialists, Inc, GAF (ISP), Hayward (AFCO), and other #2 size bag filter housings.

FLOW RATE – PRESSURE DROP DATA – FILTER BAGS



* pressure drop in pounds per square inch

STEP 1. THE MICRON RATING AND THE FLOW

The graphics show the pressure drop produced by a #2 size filter bag. The pressure drop is determined from the material, micron rating, and flow.

STEP 2. CORRECT FOR BAG SIZE

If a #1 size filter bag is being used, multiply the value obtained in step 1 by 2.2.

STEP 3. CORRECT FOR VISCOSITY

If the viscosity of your liquid is heavier than 1 cps (water) multiply your result from step 2 by the proper correction factor from chart below. This should give you the correct pressure drop for your application.

VISCOSITY (cps)	CORRECTION FACTOR
50	4.5
100	8.3
200	16.6
400	27.7
800	50.0
1000	56.2
1500	77.2
2000	113.6
4000	161.0
6000	250.0
8000	325.0
10000	430.0

This value is the clean delta P caused by the filter bag. The total pressure drop (clean) caused by the system is the housing delta P+ filter bag delta P. This value should be at 2.0 or less for new applications. The lower this value is, the more contaminant the filter bag will hold.

General maximum flow recommendations are as follows:

Polypropylene or polyester microfiber bags	50 gpm
Polypropylene or polyester felt bags	100 gpm
Nylon and polyester mesh bags	100 gpm

HOW TO ORDER SNAP-LOK FILTER BAGS

EXAMPLE:

CONSTRUCTION, FIBER, MICRON RATING

Felt, Polyester = PE
Microns: 1, 5, 10, 25, 50, 100, 200

Felt, Polypropylene = PO
Microns: 1, 5, 10, 25, 50, 100, 200

Mesh, Multifilament Polyester = PEM
Microns: 125, 150, 200, 250, 300, 400, 600, 800

Mesh, Monofilament Nylon = NMO
Microns: 5, 10, 25, 50, 75, 100, 125, 150, 200, 250, 300, 400, 600, 800

Microfiber Polyester = PEMF
Microns: 1.0, 2.5, 5.0, 10.0, 15.0

Microfiber Polypropylene = POMF
Microns: 1.0, 2.5, 5.0, 10.0, 15.0, 25.0

PO 25 G 802 POL - WE

OPTIONS

A = Auto Construction - All Sewn Seams on Inside (PEM & NMO Option Only)

WE = All Welded Construction Standard on PE & PO Felt. Not Available for Other Materials

BAG STYLES

POL = Polypropylene Snap-Lok™ Top

NYL = Nylon Snap-Lok™ Top

BAG SIZE

801 = Size #1, Model 801 Housing

802 = Size #2, Model 802 Housing

BAG FINISH OR COVER

P = None (Standard for NMO & PEM)

G = Glazed Finish (Standard for PE & PO Felt)

FF = Fiber Free (Standard on PEMF)

PO = Spun Bonded Polypropylene (Standard on POMF)

CLASSIC TANK FILTER / BREATHER SERIES

Flow Ezy Filters has been manufacturing tank breather units for many years and is now marketing an expanded line of tank breathers that can fit almost 100% of any application required. We are expanding our line of *Classic Tank Filter/Breather Series* to include many new units. *The Class Tank Filter/Breather Series* has a wider selection of models to choose from in a wide range of inlet and outlet sizes with configurations in both enamel finished carbon steel and 304 stainless steel. Listed below are the different styles of this series after which each particular style is covered in depth.

Series "A" – has an accordion style element with a pre-filter. This is a completely different and unique concept in air filtration.

Series "B" – our five standard OEM replacement models.

Series "C" – used to silence excess noise at the equipment's inlet. This series uses silence chambers.

Series "D" – also used to silence excess noise, this series uses silence tubes that can cut noise levels in.

Series "E" – used in line for air and gas filtration.

Series "F" – also used in-line for air and gas filtration but as a side arm style only.

Series "H" – are designed especially as smoke and mist eliminators.

For specifications and more information on the *Classic Tank Filter/Breather Series* review the following pages or call a Flow Ezy representative.

FEATURES AND CONSTRUCTION DETAILS COUNT! An exclusive removable 304 stainless steel perforated safety cage guards the housing's throat to eliminate the heart attacks when you drop your hat or the wing nut during change out of the filter element. This cage has been sized with excess open area to avoid pressure loss. If you've every searched for a wing nut when changing the air filter on your auto, you know first hand just how important a throat guard can be. Optional access handles are available as an alternative to secure weather hoods and caps. They eliminate the need for wrenches or Herculean grips to check or service filter elements.

Check all the features of the various models and you will find these are the standard of excellence by which all other like units are measured against.



You know, since we first developed the original Catalog DCK-1 in 1997, Ug, our crack filtration expert and research guy, has been hard at it. Just look at the new product line in this catalog. However, Ug is still lost. If you see him, please tell him to come home.

CLASSIC TANK BREATHERS QUICK REFERENCE SHEET

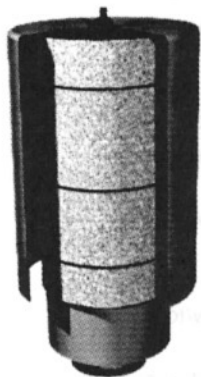
COMPLETE UNITS

MODEL NO.	MALE NPT	CAPACITY NPT (CFM)	FLANGED	CAPACITY FLANGED (CFM)	PURPOSE	DESCRIPTION
A10	4" to 10"	185 to 580	4" to 26"	185 to 6,650	air intake	filter w/weather hood
A30	4" to 10"	185 to 580	4" to 26"	185 to 6,650	air intake	filter/silencer w/weather hood
A40	4" to 10"	185 to 580	4" to 26"	185 to 6,650	air intake	filter w/top only
A50	4" to 10"	185 to 580	4" to 26"	185 to 6,650	air intake	filter/silencer w/top only
B10	1/2" to 6"	10 to 800	4" to 24"	350 to 12,000	air intake/vents	enameled steel w/weather hood
B23	1/2" to 6"	10 to 800	4" to 24"	350 to 12,000	air intake/vents	stainless steel w/weather hood
B50	1/2" to 6"	10 to 800	4" to 24"	350 to 12,000	air intake/vents	enameled steel w/top only
B52	1/2" to 6"	10 to 800	4" to 24"	350 to 12,000	air intake/vents	stainless steel w/top only
B70	1/2" to 6"	10 to 800	4" to 24"	350 to 12,000	air intake/vents	economy enameled steel w/ weather hood
C10	1/2" to 4"	10 to 350	5" to 24"	550 to 12,000	chamber silenced air intake	enameled steel w/hood
C12	1/2" to 4"	10 to 350	5" to 24"	550 to 12,000	chamber silenced air intake	stainless steel w/hood
C50	1/2" to 4"	10 to 350	5" to 24"	550 to 12,000	chamber silenced air intake	enameled steel w/top only
C52	1/2" to 4"	10 to 350	5" to 24"	550 to 12,000	chamber silenced air intake	stainless steel w/top only
D10	1/2" to 4"	10 to 350	5" to 24"	550 to 12,000	tube silenced air intake	enameled steel w/weather hood
D12	1/2" to 4"	10 to 350	5" to 24"	550 to 12,000	tube silenced air intake	stainless steel w/weather hood
E10	1-1/2" to 4"	55 to 350	6" to 24"	800 to 12,000	in-line air and gas	enameled steel w/cap style closure
E20	1-1/2" to 4"	55 to 350	6" to 24"	800 to 12,000	in-line air and gas	enameled steel w/bolt seal closure
E22	1-1/2" to 4"	55 to 350	6" to 24"	800 to 12,000	in-line air and gas	stainless steel w/bolt seal closure
F10	1-1/2" to 4"	55 to 350	6" to 24"	800 to 12,000	side arm air and gas	enameled steel w/cap style closure
F20	1-1/2" to 4"	55 to 350	6" to 24"	800 to 12,000	side arm air and gas	enameled steel w/bolt seal closure
F22	1-1/2" to 4"	55 to 350	6" to 24"	800 to 12,000	side arm air and gas	stainless steel w/bolt seal closure
H10	1-1/4" to 4"	40 to 350	5" to 24"	700 to 12,000	smoke & mist eliminator, 1 stage	enameled steel
H12	1-1/4" to 4"	40 to 350	5" to 24"	700 to 12,000	smoke & mist eliminator, 1 stage	stainless steel
H20	1-1/4" to 4"	40 to 350	5" to 24"	700 to 12,000	smoke & mist eliminator, 1 stage	enameled steel, right angle inlet/outlet
H50	n/a	n/a	2" to 6"	100 to 1,000	smoke & mist eliminator, 2 stage	enameled steel w/bolt seal closure
H52	n/a	n/a	2" to 6"	100 to 1,000	smoke & mist eliminator, 2 stage	stainless steel w/bolt seal closure

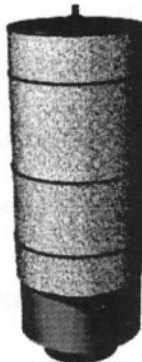
ACCORDIAN STYLE AIR INTAKE FILTERS

Series A10, A30, A40, A50

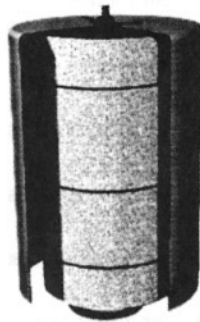
Enameled Steel with or without Weather Hoods



Series A30
Filter/Silencer
w/Weather Hood



Series A50
Filter/Silencer w/Top



Series A10
Filter w/Weather Hood



Series A40
Filter w/Top

- Intake Air Flows to 6,700 CFM
- Low $\Delta P \leq 3"$ W.C.
- 304SS Throat Safety Cages Std.
- Enameled Steel Construction

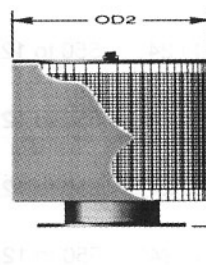
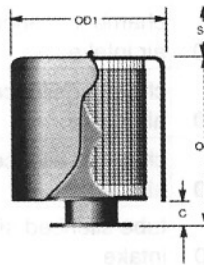
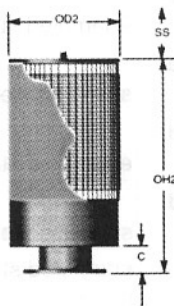
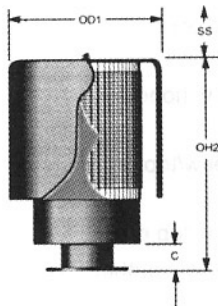
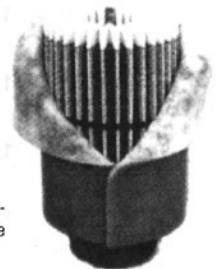
Series A10, A30, A40, & A50 air intake filters offer time honored protection for compressors, blowers, turbines, engines, and other air handling equipment. They are fabricated from heavy gauge enameled steel. Weather hoods on models A10 & A30 reject rain and snow. Any standard models can be modified at your request to more exactly fit your needs.

- Connection Sizes from 3" to 30"

Male NPT (MT) or flat face flanges (FF) are std. Flanges match diameter & drilling for 150# ANSI standard. Specify optional right angle base (AF) for side mounts, female NPT (FT), bevel (BV) or plain cut (PE) stub necks where you wish to weld in place. Increased or decreased connections are also optionally available on any model.

- Accordion Elements w/Prefilter

These washable pleated textile media elements are rugged performers. Their high dirt holding capacity and exceptional efficiency stop air-borne particulates and other contaminants before they can do damage. In each unit, a single accordion filter element is placed over fixed perforated center tube, cinched in place with a retaining strap, and finally, is wrapped with a 90µ prefilter blanket. Housing gaskets seal the elements in place at each end.



Model No.*	Cap. CFM	Outlet Type	Std. Outlet (in.)	Opt. Outlets (in.)	Replacement Element Cat. No.	Area, sq. ft.	Dimensions, In.						Weight, Lbs.			
							OH1	OH2	OD1	OD2	C	SS	A10	A30	A40	A50
A__-0008-MT-040	185	MPT	4	5-6	324-4603WK5	5.3	13	17	10.5	8.5	3	9	20	40	15	35
A__-0008-FF-040		FLG	4	5-6												
A__-0085-MT-040	280	MPT	4	5-6	324-4606WK5	8	17	23	10.5	8.5	3	13	30	50	20	40
A__-0085-FF-040		FLG	4	5-6												
A__-0105-MT-060	420	MPT	6	8	324-4604WK5	12.5	20.5	28	14.5	10.5	3	16.5	40	65	30	55
A__-0105-FF-060		FLG	6	8												
A__-0125-MT-080	580	MPT	8	10	324-4610WK5	16.5	24	33	16.5	12.5	4	19	55	90	40	75
A__-0125-FF-080		FLG	8	10												
A__-0145-FF-100	800	FLG	10	12	324-4601WK5	22.8	27	37.5	18.5	14.5	4	22	70	110	50	90
A__-0018-FF-100	1085	FLG	10	12,14,16	324-4609WK5	31	24	33	24.5	18.5	4	19	100	150	80	130
A__-0185-FF-100	1630	FLG	10	12,14,16	324-4607WK5	46.5	33	46.5	24.5	18.5	4	28	120	180	90	150
A__-0022-FF-140	1890	FLG	14	16,18,20	324-4602WK5	53.8	40	51	32.5	22.5	6	23	150	210	115	175
A__-0225-FF-140	2835	FLG	14	16,18,20	324-4615WK5	80.7	41	57.5	32.5	22.5	6	34	200	320	150	270
A__-0245-FF-140	3500	FLG	14	16,18,20,22	324-4616WK5	100	43	61	36.5	24.5	6	37	300	380	240	320
A__-0285-FF-200	4780	FLG	20	22,24,26	324-4614WK5	137	47	66.5	42	28.5	6	40	400	520	330	450
A__-0325-FF-240	5700	FLG	24	26,30	324-4617WK5	163	47	66.5	47	32.5	6	40	450	690	360	600
A__-0365-FF-260	6650	FLG	26	30	324-4618WK5	195	47	66.5	51.5	36.5	6	40	470	760	370	660

CLASSIC AIR INTAKE FILTERS – TANK VENTS

Series B10 & B12

B10 – Enameled Steel w/ Weather Hoods

B12 – Enameled Steel w/ Weather Hoods

- Intake Air Flows to 20,000 CFM
- Exceptionally Low ΔP Design
- 304SS Throat Safety Cages Std.
- Rugged Enameled Steel Construction

Series B10 & B12 air intake filters provide superior protection for compressors, blowers, turbines, engines, and other air handling equipment. They are fabricated from heavy gauge enameled steel. Series B12 corrosion resistant weather hoods reject rain and snow in coastal environments. They are also well suited for services in food processing installations serving pneumatic blowers. Any of the 20 standard models can be modified at your request to more exactly fit your needs.

• Connection Sizes from 1/2" to 24"

Male NPT (MT) or flat face flanges (FF) are std. Flanges match diameter & drilling for 150# ANSI standard. Specify optional right angle base (AF) for side mounts, female NPT (FT), bevel (BV) or plain cut (PE) stub necks where you wish to weld in place. Increased or decreased connections are also optionally available on any model.

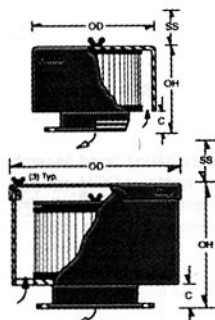
• Choice of Filter Elements

These textile media elements are unsurpassed for low ΔP , high dirt holding capacity and exceptional efficiency from start-up on. They stop airborne particulates and other contaminants before they can sneak into a compressor to do their abrasion & varnish damage. Select from 10 μ Economy, 10 μ Classic Long Life, 4 μ High Performance, or 2 μ Super filter elements as your needs dictates to remove 98% of all airborne dust and dirt. Add'l. filter media are available.

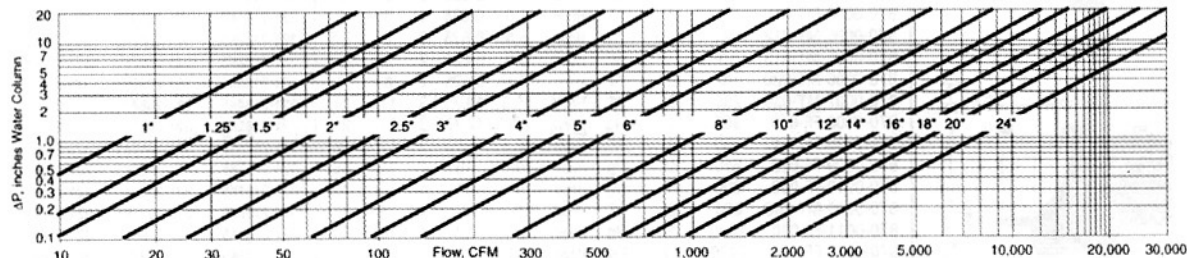


These Series B10 Air Intake Filter Housings were supplied with optional center studs and phenolic cap handles.

Select Hsg Model No. B1Q or B12	Typical Flow CFM	Std. Outlet Size	Std. Outlet Cover		Approx. Dimens. in.					Wgt. lbs.	Select 1 Filter Element (Chg "K" to "N" for 304SS hds on element)			
			Type	Style	OH	OD	C	Serv. Space	Economy 10μ		Classic 10μ	High Eff. 4μ	Super 2μ	
B1 _-0003-MT-005	10	0.5"	M	Hood	6.5	6.625	2	5	3		321-2181K5	321-2081K5	321-2081K7	321-2081K51
B1 _-0003-MT-007	15	0.75"	M	Hood	6.5	6.625	2	5	3		321-2181K5	321-2081K5	321-2081K7	321-2081K51
B1 _-0003-MT-010	25	1"	M	Hood	6.5	6.625	2	5	3		321-2181K5	321-2081K5	321-2081K7	321-2081K51
B1 _-0005-MT-012	40	1.25"	M	Hood	6.5	6.625	2	5	3.5		321-2182K5	321-2082K5	321-2082K7	321-2082K51
B1 _-0005-MT-015	55	1.5"	M	Hood	6.5	6.625	2	5	3.5		321-2182K5	321-2082K5	321-2082K7	321-2082K51
B1 _-0006-MT-020	90	2"	M	Hood	9.5	6.625	2	8	4		321-2183K5	321-2083K5	321-2083K7	321-2083K51
B1 _-0007-MT-030	200	3"	M	Hood	13.5	10.75	3	11	20		321-2184K5	321-2084K5	321-2084K7	321-2196K51
B1 _-0008-FF-040	350	4"	Flg	Hood	13.5	12.75	3	11	30		321-2185K5	321-2085K5	321-2085K7	321-2197K51
B1 _-0008-MT-040	350	4"	M	Hood	13.5	12.75	3	11	23		321-2185K5	321-2085K5	321-2085K7	321-2197K51
B1 _-0009-FF-050	550	5"	Flg	Hood	19.5	16	4	11	50		321-2186K5	321-2086K5	321-2086K7	321-2198K51
B1 _-0010-FF-060	800	6"	Flg	Hood	19.5	16	4	16	60		321-2187K5	321-2087K5	321-2087K7	321-2199K51
B1 _-0010-MT-060	800	6"	M	Hood	19.5	16	4	16	53		321-2187K5	321-2087K5	321-2087K7	321-2199K51
B1 _-0011-FF-080	1500	8"	Flg	Hood	19.5	20	4	16	115		321-2188K5	321-2088K5	321-2088K7	321-2200K51
B1 _-0012-FF-100	2400	10"	Flg	Cap	26	24	6	16	175		321-2189K5	321-2089K5	321-2089K7	321-2201K51
B1 _-0013-FF-120	3400	12"	Flg	Cap	33	26	6	21	200		321-2190K5	321-2090K5	321-2090K7	321-2202K51
B1 _-0014-FF-140	4100	14"	Flg	Cap	33	28	6	21	225		321-2191K5	321-2091K5	321-2091K7	321-2203K51
B1 _-0015-FF-160	5400	16"	Flg	Cap	33	32	6	21	275		321-2192K5	321-2092K5	321-2092K7	321-2204K51
B1 _-0016-FF-180	7000	18"	Flg	Cap	36	36	6	25	375		321-2193K5	321-2093K5	321-2093K7	321-2205K51
B1 _-0017-FF-200	8500	20"	Flg	Cap	36	36	6	25	400		321-2194K5	321-2094K5	321-2094K7	321-2206K51
B1 _-0018-FF-240	12,000	24"	Flg	Cap	36	44	6	25	475		321-2195K5	321-2095K5	321-2095K7	321-2207K51



ΔP vs. Flow: Series B, C, and D



Use the chart above to access the init. ΔP vs. flow for series B, C, & D air intakes. Be aware that the maximum practical flow through a filter housing, like other piping, is limited primarily by the cross sectional area of the connection. Compare the connection size shown below

with the desired flow. It is prudent to select a connection having a value that is central to the shaded area. While engines and reciprocating compressors can tolerate inlet air restrictions to 20" W.C., lesser blowers or fans may require element service at 5" W.C. While the init ΔP

does not increase, the specific filtration resistance of the airborne contaminants in your location ultimately dictate element life. High performance textile elements routinely serve for periods from 3 mos. to 2 yrs., with 1 yr. being common.

HOODLESS AIR INTAKE FILTERS

Series B50 & B52

ECONOMY AIR INTAKE FILTERS

Series B70

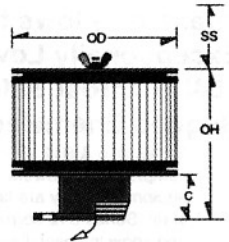


Series B52 Air Intake Filter
Housings shown with
optional phenolic handles.

Series B50 & B52 Hoodless Air Intake Filters

- Air Flows to 20,000 CFM
- B50 - Enameled Steel Construction
- B52 - 304SS
- Optional Access Handles
- 304SS Throat Safety Cages
- Connection Sizes from 1/2" to 24"

Series B50 & B52 Air Intake Filters are similar to B10 & B12. They simply substitute a top plate for a hood or cap & skirt assy. The hoodless design simplifies visual inspection for indoor or other sheltered locations and saves cost on initial purchase.



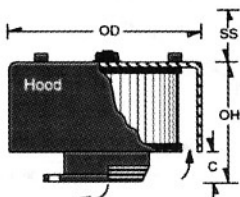
Enameled Steel Housing w/o Hood Catalog No.	304 SS Housing w/o Hood Catalog No.	Typical Min. CFM	Standard Outlet Size	Std. Type	Approx. Dimens, in.			Serv. Space	Wgt. lbs.	Select One Filter Element: (*Chg "K" to "N" for 304SS wire & core)			
					OH	OD	C			Economy 10µ	Classic 10µ	High Eff. 4µ	Super 2µ
B50-0003-MT-005	B52-0003-MT-005	10	0.5"	M	6.5	4.5	2	5	2	321-2181K5	321-2081K5	321-2081K7	321-2081K51
B50-0003-MT-007	B52-0003-MT-007	15	0.75"	M	6.5	4.5	2	5	2	321-2181K5	321-2081K5	321-2081K7	321-2081K51
B50-0003-MT-010	B52-0003-MT-010	25	1"	M	6.5	4.5	2	5	2	321-2181K5	321-2081K5	321-2081K7	321-2081K51
B50-0005-MT-012	B52-0005-MT-012	40	1.25"	M	6.5	5	2	5	2.5	321-2182K5	321-2082K5	321-2082K7	321-2082K51
B50-0005-MT-015	B52-0005-MT-015	55	1.5"	M	6.5	5	2	5	2.5	321-2182K5	321-2082K5	321-2082K7	321-2082K51
B50-0006-MT-020	B52-0006-MT-020	90	2"	M	9.5	5	2	8	3	321-2183K5	321-2083K5	321-2083K7	321-2083K51
B50-0007-MT-030	B52-0007-MT-030	200	3"	M	13.5	8	3	11	14	321-2184K5	321-2084K5	321-2084K7	321-2196K51
B50-0008-MT-040	B52-0008-MT-040	350	4"	Flg	13.5	10	3	11	21	321-2185K5	321-2085K5	321-2085K7	321-2197K51
B50-0008-MT-040	B52-0008-MT-040	350	4"	M	13.5	10	3	11	16	321-2185K5	321-2085K5	321-2085K7	321-2197K51
B50-0009-MT-050	B52-0009-MT-050	550	5"	Flg	19.5	12	4	11	35	321-2186K5	321-2086K5	321-2086K7	321-2198K51
B50-0010-MT-060	B52-0010-MT-060	800	6"	Flg	19.5	13	4	16	42	321-2187K5	321-2087K5	321-2087K7	321-2199K51
B50-0010-MT-060	B52-0010-MT-060	800	6"	M	19.5	13	4	16	37	321-2187K5	321-2087K5	321-2087K7	321-2199K51
B50-0011-MT-080	B52-0011-MT-080	1500	8"	Flg	19.5	16	4	16	80	321-2188K5	321-2088K5	321-2088K7	321-2200K51
B50-0012-MT-100	B52-0012-MT-100	2400	10"	Flg	21	18	6	16	125	321-2189K5	321-2089K5	321-2089K7	321-2201K51
B50-0013-MT-120	B52-0013-MT-120	3400	12"	Flg	28	21	6	21	150	321-2190K5	321-2090K5	321-2090K7	321-2202K51
B50-0014-MT-140	B52-0014-MT-140	4100	14"	Flg	28	22	6	21	170	321-2191K5	321-2091K5	321-2091K7	321-2203K51
B50-0015-MT-160	B52-0015-MT-160	5400	16"	Flg	28	24	6	21	190	321-2192K5	321-2092K5	321-2092K7	321-2204K51
B50-0016-MT-180	B52-0016-MT-180	7000	18"	Flg	31	26	6	25	230	321-2193K5	321-2093K5	321-2093K7	321-2205K51
B50-0017-MT-200	B52-0017-MT-200	8500	20"	Flg	31	28	6	25	250	321-2194K5	321-2094K5	321-2094K7	321-2206K51
B50-0018-MT-240	B52-0018-MT-240	12,000	24"	Flg	31	32	6	25	350	321-2195K5	321-2095K5	321-2095K7	321-2207K51

Series B70

Economy Air Intake Filters

- Air Flows to 20,000 CFM
- Weather Hoods
- Enameled Steel Construction
- Connection Sizes from 1/2" to 24"

Series B70 Air Intake Filters are similar to series B10, but substitute a light gauge hood assembly and do not include throat safety cages. This design more closely matches competitive OEM equipment at value oriented prices. However, these housings will accept the same premium quality textile filter elements as the B10 and other housing series. Models (not listed) are also available to accept many competitive filter element sizes, please give us a call.



Service Handles Std. on Models 12.75 OD & Larger

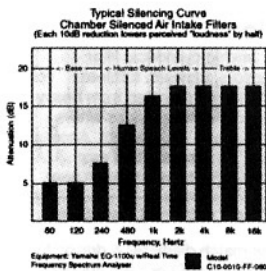
Housing Model No.	Typical Flow CFM	Std. Outlet Size	Std. Outlet Type	Std. Cover Style	Approx. Dimens, in.			Serv. Space	Wgt. lbs.	Select One Filter Element			
					OH	OD	C			Economy 10µ	Classic 10µ	High Eff. 4µ	Super 2µ
B70-0003-MT-005	10	0.5"	M	Hood	6.5	6.625	2	5	2	321-2181K5	321-2081K5	321-2081K7	321-2081K51
B70-0003-MT-007	15	0.75"	M	Hood	6.5	6.625	2	5	2	321-2181K5	321-2081K5	321-2081K7	321-2081K51
B70-0003-MT-010	25	1"	M	Hood	6.5	6.625	2	5	2	321-2181K5	321-2081K5	321-2081K7	321-2081K51
B70-0005-MT-012	40	1.25"	M	Hood	6.5	6.625	2	5	2.5	321-2182K5	321-2082K5	321-2082K7	321-2082K51
B70-0005-MT-015	55	1.5"	M	Hood	6.5	6.625	2	5	2.5	321-2182K5	321-2082K5	321-2082K7	321-2082K51
B70-0006-MT-020	90	2"	M	Hood	9.5	6.625	2	8	3	321-2183K5	321-2083K5	321-2083K7	321-2083K51
B70-0007-MT-030	200	3"	M	Hood	13.5	10.75	3	11	14	321-2184K5	321-2084K5	321-2084K7	321-2196K51
B70-0008-MT-040	350	4"	Flg	Hood	13.5	12.75	3	11	21	321-2185K5	321-2085K5	321-2085K7	321-2197K51
B70-0008-MT-040	350	4"	M	Hood	13.5	12.75	3	11	16	321-2185K5	321-2085K5	321-2085K7	321-2197K51
B70-0009-MT-050	550	5"	Flg	Hood	19.5	16	4	11	35	321-2186K5	321-2086K5	321-2086K7	321-2198K51
B70-0010-MT-060	800	6"	Flg	Hood	19.5	16	4	16	42	321-2187K5	321-2087K5	321-2087K7	321-2199K51
B70-0010-MT-060	800	6"	M	Hood	19.5	16	4	16	37	321-2187K5	321-2087K5	321-2087K7	321-2199K51
B70-0011-MT-080	1500	8"	Flg	Hood	19.5	20	4	16	80	321-2188K5	321-2088K5	321-2088K7	321-2200K51
B70-0012-MT-100	2400	10"	Flg	Hood	22	24	6	16	110	321-2189K5	321-2089K5	321-2089K7	321-2201K51
B70-0013-MT-120	3400	12"	Flg	Hood	27	26	6	21	120	321-2190K5	321-2090K5	321-2090K7	321-2202K51
B70-0014-MT-140	4100	14"	Flg	Hood	27	28	6	21	160	321-2191K5	321-2091K5	321-2091K7	321-2203K51
B70-0015-MT-160	5400	16"	Flg	Hood	27	32	6	21	180	321-2192K5	321-2092K5	321-2092K7	321-2204K51
B70-0016-MT-180	7000	18"	Flg	Hood	31	36	6	25	300	321-2193K5	321-2093K5	321-2093K7	321-2205K51
B70-0017-MT-200	8500	20"	Flg	Hood	31	36	6	25	310	321-2194K5	321-2094K5	321-2094K7	321-2206K51
B70-0018-MT-240	12,000	24"	Flg	Hood	31	44	6	25	370	321-2195K5	321-2095K5	321-2095K7	321-2207K51

CHAMBERED SILENCED AIR INTAKE FILTERS

Series C10, C12, C50, C52

TUBE SILENCED AIR INTAKE FILTERS

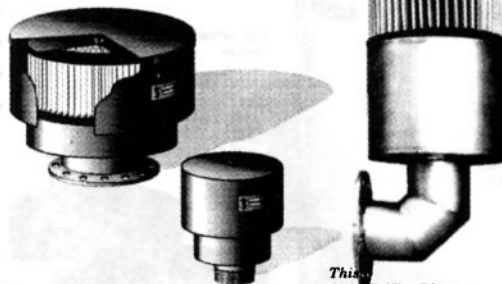
D10 & D12



- Air Flows to 20,000 CFM
- C10 & C50 Enameled Steel Construction
- C12 & C52 304 Stainless Steel
- Optional Access Handles
- 304SS Throat Safety Cages Std.
- Connection Sizes from 1/2" to 24"

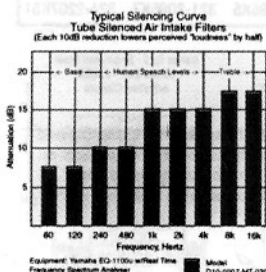
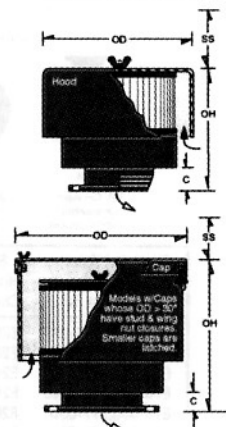
Series C10 & C12 Air Intake Filters add a sound attenuation chamber to the design of the B10 & B12. Two sound absorption cylinders combine with a single side baffle to reduce undesirable sound escaping from the equipment's air inlet. The straight flow path limits unwanted pressure drop.

** To order fill in the blanks of the model nos. shown below
C _ _ becomes C10 for enameled steel w/hood, C12 for 304SS w/hood
C50 for enameled steel w/top plate only, C52 for 304 SS w/top plate only
* Filter elements w/304SS screen &/or center cores are readily available upon request.



This 304 SS /Top Plate Model C52 includes the optional "AF" angle flange outlet connection.

Housing Model No. **	Typical Flow CFM	Std. Outlet Size	Std. Outlet Type	Approx. Dimens. in.	Serv. Wgt. lbs.	Select One Filter Element*
				OH OD C Space		Economy 10µ Classic 10µ High Eff. 4µ Super 2µ
C _ -0003-MT-005	10	0.5"	M	Hood 10	6.625 2 5 6	321-2181K5 321-2081K5 321-2081K7 321-2081K51
C _ -0003-MT-007	15	0.75"	M	Hood 10	6.625 2 5 6	321-2181K5 321-2081K5 321-2081K7 321-2081K51
C _ -0003-MT-010	25	1"	M	Hood 10	6.625 2 5 6	321-2181K5 321-2081K5 321-2081K7 321-2081K51
C _ -0005-MT-012	40	1.25"	M	Hood 10	6.625 2 5 6	321-2182K5 321-2082K5 321-2082K7 321-2082K51
C _ -0005-MT-015	55	1.5"	M	Hood 10	6.625 2 5 6	321-2182K5 321-2082K5 321-2082K7 321-2082K51
C _ -0006-MT-020	90	2"	M	Hood 14	6.625 2 8 10	321-2183K5 321-2083K5 321-2083K7 321-2083K51
C _ -0007-MT-030	200	3"	M	Hood 19	10.75 3 11 45	321-2184K5 321-2084K5 321-2084K7 321-2196K51
C _ -0008-MT-040	350	4"	M	Hood 19	12.75 3 11 60	321-2185K5 321-2085K5 321-2085K7 321-2197K51
C _ -0009-FF-050	550	5"	Flg	Hood 29	16 4 11 75	321-2186K5 321-2086K5 321-2086K7 321-2198K51
C _ -0010-FF-060	800	6"	Flg	Hood 29	16 4 16 80	321-2187K5 321-2087K5 321-2087K7 321-2199K51
C _ -0011-FF-080	1500	8"	Flg	Hood 29	20 4 16 130	321-2188K5 321-2088K5 321-2088K7 321-2200K51
C _ -0012-FF-100	2400	10"	Flg	Cap 33	24 6 16 210	321-2189K5 321-2089K5 321-2089K7 321-2201K51
C _ -0013-FF-120	3400	12"	Flg	Cap 43	26 6 21 340	321-2190K5 321-2090K5 321-2090K7 321-2202K51
C _ -0014-FF-140	4100	14"	Flg	Cap 43	28 6 21 450	321-2191K5 321-2091K5 321-2091K7 321-2203K51
C _ -0015-FF-160	5400	16"	Flg	Cap 43	32 6 21 550	321-2192K5 321-2092K5 321-2092K7 321-2204K51
C _ -0016-FF-180	7000	18"	Flg	Cap 46	36 6 25 750	321-2193K5 321-2093K5 321-2093K7 321-2205K51
C _ -0017-FF-200	8500	20"	Flg	Cap 48	36 6 25 800	321-2194K5 321-2094K5 321-2094K7 321-2206K51
C _ -0018-FF-240	12,000	24"	Flg	Cap 48	44 6 25 900	321-2195K5 321-2095K5 321-2095K7 321-2207K51



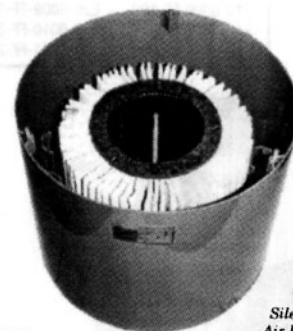
Series D10 & D12

Tube Silenced Air Intake Filters

Heavy Duty Steel w/Weather Hoods

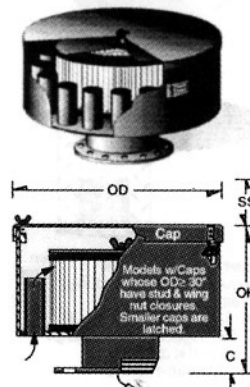
- Air Flows to 20,000 CFM
- D10 - Enameled Steel
- D12 - 304 SS **
- Connection Sizes from 1/2" to 24"
- Easy Access
- 304SS Throat Safety Cages

Series D10 & D12 Air Intake Filters add sound attenuation inlet tubes to the basic design of the B10 & B12. This time honored silencing technique reduces undesirable sound escaping from the equipment's air inlet. ** To order 304SS units, simply alter the D10 in the model nos. below to D12. * Filter elements w/ 304SS screen &/or center cores are also available if required.



This Tube Silenced Air Filter was selected with an optional sewn end style element.

Housing Model No. **	Typical Flow CFM	Std. Outlet Size	Std. Outlet Type	Approx. Dimens. in.	Serv. Wgt. lbs.	Select One Filter Element*
				OH OD C Space		Economy 10µ Classic 10µ High Eff. 4µ Super 2µ
D10-0003-MT-005	10	0.5"	M	Cap 8.5	6.625 2 5 6	321-2181K5 321-2081K5 321-2081K7 321-2081K51
D10-0003-MT-007	15	0.75"	M	Cap 8.5	6.625 2 5 6	321-2181K5 321-2081K5 321-2081K7 321-2081K51
D10-0003-MT-010	25	1"	M	Cap 8.5	6.625 2 5 6	321-2181K5 321-2081K5 321-2081K7 321-2081K51
D10-0005-MT-012	40	1.25"	M	Cap 8.5	8.625 2 5 10	321-2182K5 321-2082K5 321-2082K7 321-2082K51
D10-0005-MT-015	55	1.5"	M	Cap 8.5	8.625 2 5 10	321-2182K5 321-2082K5 321-2082K7 321-2082K51
D10-0006-MT-020	90	2"	M	Cap 11.5	8.625 2 8 12	321-2183K5 321-2083K5 321-2083K7 321-2083K51
D10-0007-MT-030	200	3"	M	Cap 16	12.75 3 11 35	321-2184K5 321-2084K5 321-2084K7 321-2196K51
D10-0008-MT-040	350	4"	M	Cap 16	16 3 11 45	321-2185K5 321-2085K5 321-2085K7 321-2197K51
D10-0009-FF-050	550	5"	Flg	Cap 22	20 4 11 100	321-2186K5 321-2086K5 321-2086K7 321-2198K51
D10-0010-FF-060	800	6"	Flg	Cap 22	20 4 16 110	321-2187K5 321-2087K5 321-2087K7 321-2199K51
D10-0011-FF-080	1500	8"	Flg	Cap 22	24 4 16 175	321-2188K5 321-2088K5 321-2088K7 321-2200K51
D10-0012-FF-100	2400	10"	Flg	Cap 24	28 6 16 225	321-2189K5 321-2089K5 321-2089K7 321-2201K51
D10-0013-FF-120	3400	12"	Flg	Bltd 31	30 6 21 275	321-2190K5 321-2090K5 321-2090K7 321-2202K51
D10-0014-FF-140	4100	14"	Flg	Bltd 31	36 6 21 375	321-2191K5 321-2091K5 321-2091K7 321-2203K51
D10-0015-FF-160	5400	16"	Flg	Bltd 31	36 6 21 400	321-2192K5 321-2092K5 321-2092K7 321-2204K51
D10-0016-FF-180	7000	18"	Flg	Bltd 35	40 6 25 450	321-2193K5 321-2093K5 321-2093K7 321-2205K51
D10-0017-FF-200	8500	20"	Flg	Bltd 35	44 6 25 475	321-2194K5 321-2094K5 321-2094K7 321-2206K51
D10-0018-FF-240	12,000	24"	Flg	Bltd 35	48 6 25 650	321-2195K5 321-2095K5 321-2095K7 321-2207K51



IN-LINE AIR & GAS FILTERS

Series E10 & E20

304SS IN-LINE FILTERS

Series E22

Series E10 & E20

In-Line Air & Gas Filters

Heavy Duty Enameled Steel

- Air/Gas Flows to 100,000 SCFM
- Low ΔP / High Flow Design
- 304SS Throat Safety Cages Std.
- Rugged Enameled Steel Construction

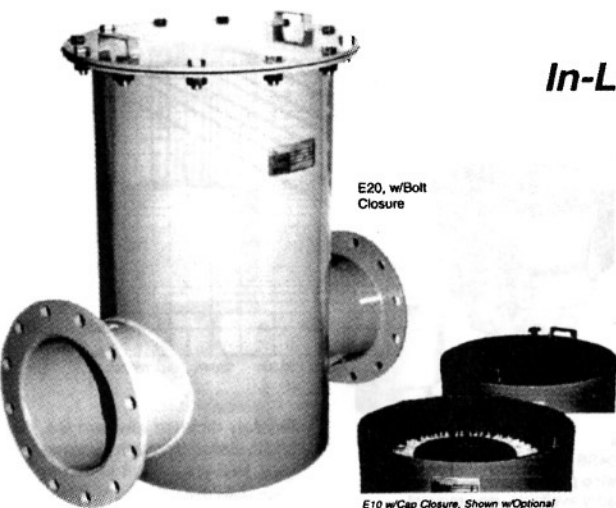
Series E10 & E20 air and gas filters utilize a single self sealing cylindrical filter element to provide the ultimate in protection for compressors, blowers, turbines, engines, and other pipeline equipment. Models E10 & E20 are fabricated from heavy gauge enameled steel. E10 employs a simple cap style closure for services where internal pressure is less than ambient and flow is drawn through the element. Access wing nuts or spring clip latches simplify element service. E20 utilizes a bolt seal closure for pressures to 5 psid. Any of the standard models can be modified at your request to more exactly fit your needs.

• Connections to 24"

Male NPT (MT) or flat face flanges (FF) are std. Flanges match diameter & drilling for 150# ANSI standard. Specify optional female NPT (FT), bevel (BE) or plain cut (PE) stub necks where you wish to weld in place. Increased or decreased connections are also available on any model.

• Choice of Filter Elements

These textile media elements are superior for low ΔP , high dirt holding capacity and exceptional efficiency. They stop pipe scale and other contaminants before they can travel downstream. Select from 10 μ Economy, 10 μ Classic Long Life, 4 μ High Performance, or 2 μ Super filter elements as your needs dictates to remove 98% of all dust and dirt. Add'l. media and element styles are available for services at elevated temperatures or submicron captures. For use with exhaust elements see pg. 11.



E20, w/Bolt Closure

E10 w/Cap Closure, Shown w/Optional Handles & Sewn End Style Filter

Connection Orientation Options



Std. Connection Orientation is 180° Opposed



Opt. Connection Orientation (270° shown)



Or You Specify angle to Outlet.

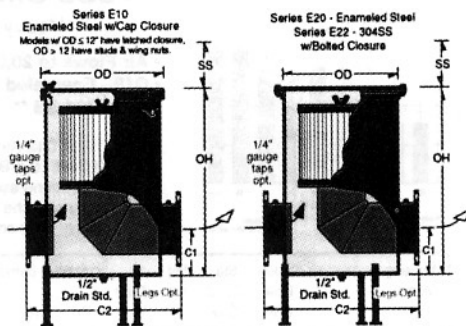
Enameled Steel Housing w/Cap Closure, Cat. No.	Enameled Steel Housing w/Bld Closure, Cat. No.	Std. Approximate										Select One Filter Element:			
		Typ. CFM	Connection Size	Type	Dimensions, Inches					Weight		Economy 10μ	Classic 10μ	High Eff. 4μ	Super 2μ
E10-0001-MT-015	E20-0001-MT-015	55	1.5"	M	12.5	6.63	3	14	5	18	20	321-2182K5	321-2082K5	321-2082K7	321-2082K51
E10-0002-MT-020	E20-0002-MT-020	90	2"	M	15.5	6.63	3	14	8	21	21	321-2183K5	321-2083K5	321-2083K7	321-2083K51
E10-0003-MT-030	E20-0003-MT-030	200	3"	M	26	8.63	4	16	16	40	44	321-2106K5	321-2146K5	321-2146K7	321-2112K51
E10-0004-MT-040	E20-0004-MT-040	350	4"	M	26	10.75	4	22	16	55	70	321-2107K5	321-2147K5	321-2147K7	321-2113K51
E10-0005-FF-060	E20-0005-FF-060	800	6"	Flg	40.5	12.75	6	24	25	100	120	321-2108K5	321-2148K5	321-2148K7	321-2114K51
E10-0006-FF-080	E20-0006-FF-080	1500	8"	Flg	42.5	16	8	28	25	160	200	321-2109K5	321-2149K5	321-2149K7	321-2115K51
E10-0007-FF-100	E20-0007-FF-100	2400	10"	Flg	48.5	20	10	32	25	200	240	321-2110K5	321-2150K5	321-2150K7	321-2116K51
E10-0008-FF-120	E20-0008-FF-120	3400	12"	Flg	48.5	24	10	36	25	260	310	321-2111K5	321-2151K5	321-2151K7	321-2117K51
E10-0009-FF-160	E20-0009-FF-160	5400	16"	Flg	50.5	32	12	44	21	440	530	321-2192K5	321-2092K5	321-2092K7	321-2204K51
E10-0010-FF-200	E20-0010-FF-200	8500	20"	Flg	62.5	36	14	48	25	550	660	321-2194K5	321-2094K5	321-2094K7	321-2206K51
E10-0011-FF-240	E20-0011-FF-240	12,000	24"	Flg	68.5	44	18	56	25	850	950	321-2195K5	321-2095K5	321-2095K7	321-2207K51



Series E22 304SS In-Line Filters

- Air Flows to 100,000 CFM
- Connection Sizes to 24"
- Throat Safety Cages
- Bolt Seal Closure to 5 psig

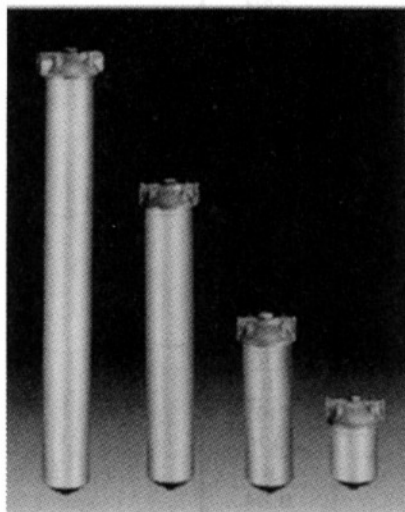
Series E22 In-Line Air & Gas Filters are similar to enameled steel series E20 but are constructed instead from 304 stainless steel. *Filter elements w/304 SS screen &/or center cores are also available if required.



304SS Housing w/Bttd Closure, Cat. No.	Typ. Flow CFM	Std. Connec. Size	Type	Approximate Dimensions, Inches						Wgt. lbs.	Select One Filter Element*:			
				OH	OD	C1	C2	SS	Economy 10μ		Classic 10μ	High Eff. 4μ	Super 2μ	
E22-0001-MT-015	55	1.5"	M	12.5	6.63	3	14	5	20	321-2182K5	321-2082K5	321-2082K7	321-2082K51	
E22-0002-MT-020	90	2"	M	15.5	6.63	3	14	8	21	321-2183K5	321-2083K5	321-2083K7	321-2083K51	
E22-0003-MT-030	200	3"	M	26	8.63	4	16	16	44	321-2106K5	321-2146K5	321-2146K7	321-2112K51	
E22-0004-MT-040	350	4"	M	26	10.75	4	22	16	70	321-2107K5	321-2147K5	321-2147K7	321-2113K51	
E22-0005-FF-060	800	6"	Flg	40.5	12.75	6	24	25	120	321-2108K5	321-2148K5	321-2148K7	321-2114K51	
E22-0006-FF-080	1500	8"	Flg	42.5	16	8	28	25	200	321-2109K5	321-2149K5	321-2149K7	321-2115K51	
E22-0007-FF-100	2400	10"	Flg	48.5	20	10	32	25	240	321-2110K5	321-2150K5	321-2150K7	321-2116K51	
E22-0008-FF-120	3400	12"	Flg	48.5	24	10	36	25	310	321-2111K5	321-2151K5	321-2151K7	321-2117K51	
E22-0009-FF-160	5400	16"	Flg	50.5	32	12	44	21	530	321-2192K5	321-2092K5	321-2092K7	321-2204K51	
E22-0010-FF-200	8500	20"	Flg	62.5	36	14	48	25	660	321-2194K5	321-2094K5	321-2094K7	321-2206K51	
E22-0011-FF-240	12,000	24"	Flg	68.5	44	18	56	25	950	321-2195K5	321-2095K5	321-2095K7	321-2207K51	

The Heart of the Beast: We manufacture self sealing solid vinyl molded end filters with outside diameters and overall heights to 36 inches. Their rugged radial fin design is without equal in dirt holding capacity and reliable service.

LMO SERIES METALLIC FILTER HOUSING



- Operating pressure to 175 psig @ 200° F. Permits use in a wide range of applications.
- Cast iron, brass, carbon steel, or 316 stainless steel materials of construction.
- Accepts 4", 10", 20", or 30" double open end cartridge for optimum choice of flow rates.
- In-line inlet and outlet connections ensure ease of installation.
- Optional T-handle permits replacement of filter cartridge without tools.

HOUSING SPECIFICATIONS

Maximum operating pressure:

175 psig (12.1 bar) @ 200° F* (93° C)

Construction:

LMO
LMOB
LMOS

Head

cast iron **
cast brass
cast 316 stainless steel

Shell

cast iron **
316 stainless steel
316 stainless steel

Connections:

Inlet/Outlet: 3/8", 1/2", 3/4", or 1" npt

Drain:

LMO drain plug carbon steel, 1/4" npt
LMOB petcock brass, 1/4" npt
LMOS drain plug 316 stainless steel, 1/4" npt

Shell o-ring:

Standard ethylene propylene (EPR)
Optional buna N, Teflon, viton, silicone, neoprene

Cover nut gasket:

Standard Teflon

Bracket option:

Nickel plated steel brackets are available as standard option.

T-handle option:

T-handle cover nuts are available in steel or 316 stainless steel. Standard units are supplied with hex nuts.

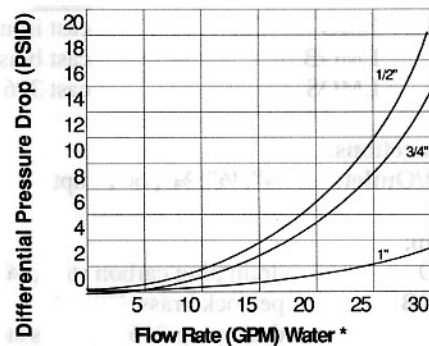
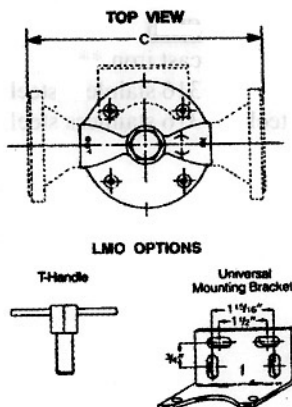
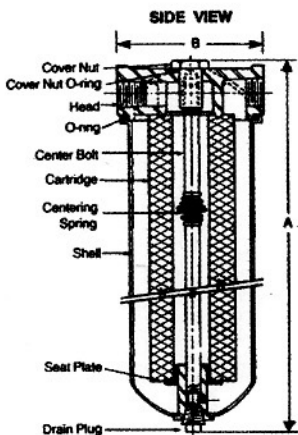
* Vessel rating only. Safe operating temperatures and pressure will depend on filter cartridge and gasket use.

** Painted exterior

LMO SERIES

DIMENSIONAL DATA

MODEL	PIPE SIZE (NPT)	FLOW RATE * (GPM)	DIMENSIONS (IN)			WEIGHT (LBS)
			A	B	C	
LMO4	3/8	4	7 1/4	4 3/4	-	2 3/4
LMO10	3/8	10	13 1/2	4 3/4	-	6
LMO10	1/2	10	13 1/2	4 3/4	-	6 1/4
LMO10	3/4	10	13 1/2	4 3/4	-	6 1/4
LMO10	1	10	13 1/2	4 3/4	-	6 3/4
LMO20	3/4	20	23 3/8	4 3/4	-	8 1/2
LMO20	1	20	23 3/8	4 3/4	-	9
LMO4B	3/8	4	7 7/8	4 3/4	-	2 3/4
LMO10B	3/8	10	14	4 3/4	-	6
LMO10B	1/2	10	14	4 3/4	-	6 1/4
LMO10B	3/4	10	14	4 3/4	-	6 1/4
LMO10B	1	10	14	4 3/4	-	6 3/4
LMO20B	3/4	20	24 1/8	4 3/4	-	8 1/2
LMO20B	1	20	24 1/8	4 3/4	-	9
LMO30B	3/4	30	34	4 3/4	-	10
LMO30B	1	30	34	4 3/4	-	10 1/2
LMO4S	1/2	4	7 1/4	4 3/4	-	4
LMO10S	1/2	10	13 1/2	4 3/4	-	6 1/4
LMO10S	3/4	10	13 1/2	4 3/4	8 7/8	6 1/4
LMO10S	1	10	13 1/2	4 3/4	9 1/8	6 3/4
LMO20S	3/4	20	23 1/2	4 3/4	8 7/8	8 1/2
LMO20S	1	20	23 1/2	4 3/4	9 1/8	9
LMO30S	3/4	30	33 1/2	4 3/4	8 7/8	10



* For liquids other than water, multiply the pressure drop by the specific gravity of the fluid.

ORDERING INFORMATION

LMO - 10 - S - 3/4

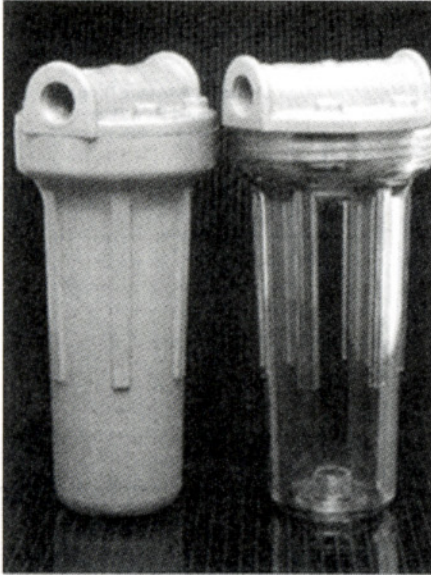
Model: _____
LMO Series

Cartridge Lengths: _____
4", 10", 20", 30"

Material of Construction: _____
Blank = cast iron and carbon steel
B = cast brass and 316 stainless steel
S = 316 stainless steel

Inlet/Outlet Connection size: _____
3/8", 1/2", 3/4", 1" npt

SCO SERIES NON-METALLIC FILTER HOUSINGS



- Durable, corrosion resistant, plastic single cartridge housing.
- Cost effective polypropylene or SAN single cartridge housing.
- Designed for liquid filtration in light industrial and light commercial applications
- Meets FDA requirements for potable water, food, and beverage applications.
- Housing designed to accept double open end filter cartridge and M5 internal o-ring seal filter cartridge.
- Fixed guides in head and shell ensure proper alignment and seating of cartridge.
- Available with various mounting options for user convenience.
- Head available with brass mounting inserts.

HOUSING SPECIFICATIONS

Maximum operating pressure:

125 psig (8.6 bar) @ 68° F (20° C)

Construction:

	Head	Bowl
SCO U	polypropylene	polypropylene
SCO UP	polypropylene	SAN (styrene acrylonitrile)

Connections:

Inlet/Outlet: 3/4" npt

Shell o-ring:

Buna N

Standard colors:

SCO U	blue head and blue bowl
SCO UP	blue head and clear bowl

Mounting bracket assembly:

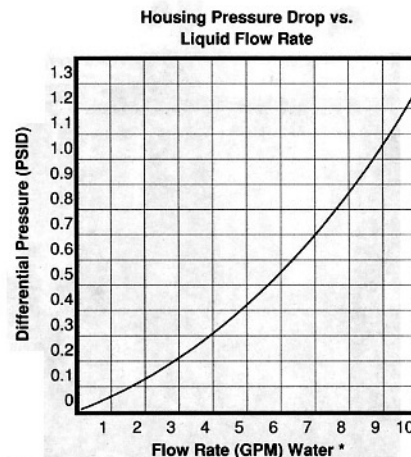
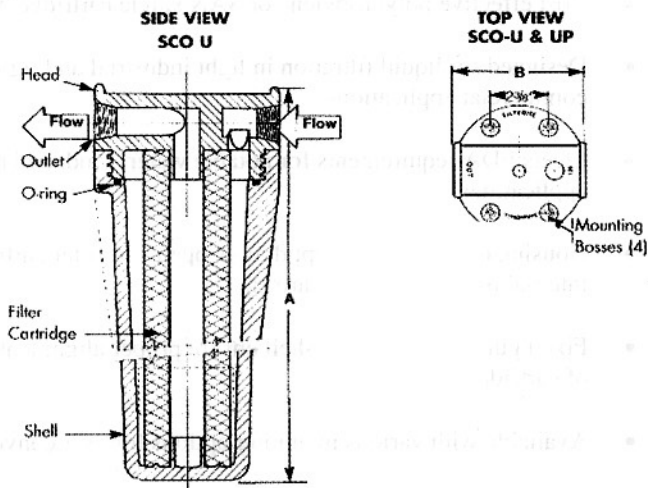
An optional mounting bracket assembly is available for quick and easy installation.

Head available with brass mounting inserts.

SCO SERIES

DIMENSIONAL DATA

MODEL	FLOW RATE (gpm)	DIMENSIONS (inches)		WEIGHT (lbs)
		A	B	
SCO UP	10	12 5/8	5 3/8	3.5
SCO U	10	12 5/8	5 3/8	3.5



* For liquids other than water, multiply the pressure drop by the specific gravity of the fluid.

SELECTION CRITERIA

	SCO U	SCO UP
ultra violet light	Recommended	Fair
strong acid	Recommended	Fair
weak acid (<20%)	Recommended	Recommended
organic solvent	Recommended	Not Recommended
strong oxidizing agent	Recommended	Not Tested
weak base (<20%)	Recommended	Recommended
strong base	Recommended	Fair

ORDERING INFORMATION

SCO - 10 - UP - I - 3/4

Model: _____

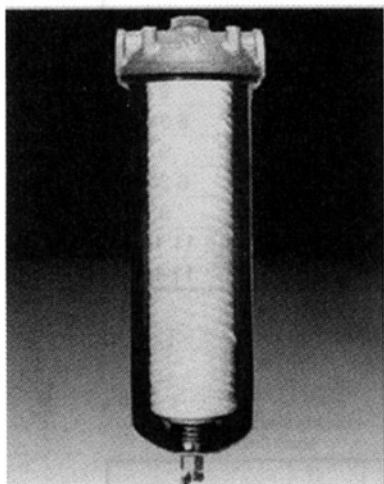
Cartridge length: _____
10"

Materials of Construction: _____
U = polypropylene head and bowl
UP = polypropylene head and SAN bowl

Inserts (Optional): _____
I = brass mounting inserts in head

Inlet/Outlet connection size: _____
3/4" npt

LMOSS SPRING SEAL STYLE METALLIC FILTER HOUSING



- Self-adjusting sealing device ensures positive filter cartridge seal.
- Provides positive sealing of non-compressible filters such as pleated media, carbon, metallic, and membrane cartridges.
- Accepts 10", 20", or 30" DOE cartridges.
- O-ring head and shell seal eliminates fluid leakage
- Inlet and outlet connections ensure ease of installation
- Cast iron and carbon steel, brass, and 316 stainless steel materials of construction.

HOUSING SPECIFICATIONS

Maximum operating pressure:

175 psig (12.1 bar) @ 200° F* (93° C)

Construction:

	<u>Head</u>	<u>Shell</u>
LMOSS	cast iron**	carbon steel**
LMOSSB	cast brass	316 stainless steel
LMOSSS	cast 316 stainless steel	316 stainless steel

Connections:

Inlet/Outlet: ¾" or 1" npt

Drain: LMOSS: drain plug, carbon steel, ¼" npt
LMOSSB: drain plug, 316 stainless steel, ¼" npt
LMOSSS: drain plug, 316 stainless steel, ¼" npt

Shell o-ring:

Standard ethylene propylene

Optional buna N, Teflon, viton, silicone, neoprene

Seal o-ring:

Standard Teflon

Optional neoprene, buna N, silicone, ethylene propylene

Cover nut o-ring:

Standard Teflon

Bracket option:

Zinc plated steel mounting brackets are available for all models.

T-handle option:

T-handle cover nuts are available in steel or 316 stainless steel. Standard units are supplied with hex nuts.

Flange option:

150 lb. ANSI raised face flanges are available on the 316 stainless steel unit only.

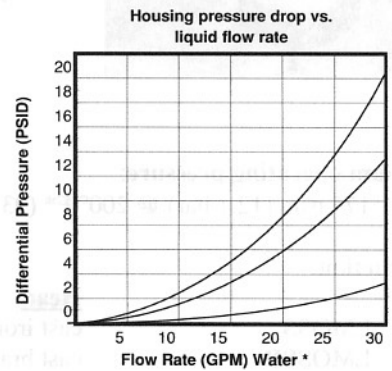
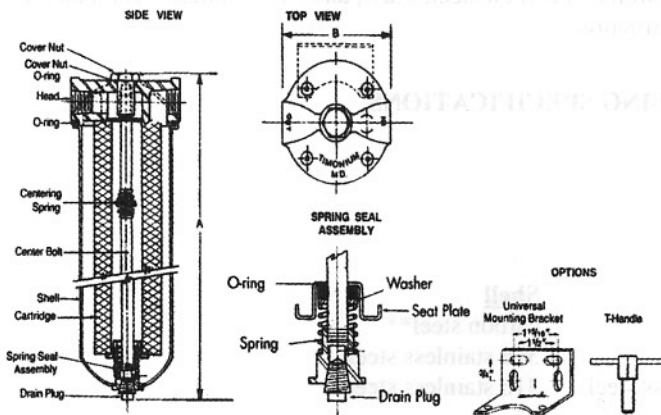
* Vessel rating only. Safe operating temperatures and pressure will depend on filter cartridge and gasket use.

** Painted exterior

LMOSS STYLE

DIMENSIONAL DATA

MODEL	CONNECTION SIZE (npt)			FLOW RATE (gpm)	DIMENSIONS (inches)		SEALING DISTANCE (inches)	WEIGHT (lbs)
	1/2"	3/4"	1"		A	B		
LMOSS10		X	X	10	13.5	4.75	9 3/4 - 10 1/16	6 3/4
LMOSS20		X	X	20	23.5	4.75	19 3/4 - 20 1/8	9
LMOSS10B	X	X	X	10	13.5	4.75	9 3/4 - 10 1/16	6 3/4
LMOSS20B		X	X	20	23.5	4.75	19 3/4 - 20 1/8	9
LMOSS10S	X	X	X	10	13.5	4.75	9 3/4 - 10 1/16	6 3/4
LMOSS20S		X	X	20	23.5	4.75	19 1/2 - 20 1/8	9
LMOSS30B			X	30	33.5	4.75	29 1/2 - 30 3/16	11 1/4
LMOSS30S		X	X	30	33.5	4.75	29 1/2 - 30 3/16	11 1/4



* For liquids other than water, multiply the pressure drop by the specific gravity of the fluid.

ORDERING INFORMATION

LMOSS - 10 - S - 1 - F

Model _____

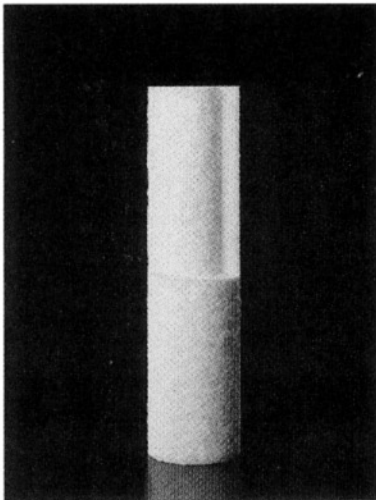
Nominal cartridge lengths: _____
4", 10", 20", 30"

Material of construction: _____
Blank = cast iron and carbon steel
B = cast brass and 316 stainless steel
S = 316 stainless steel

Inlet/Outlet connection size (npt): _____
1/2", 3/4", 1

Flange (optional): _____
F = flange

CLARIS SERIES FILTER CARTRIDGES



- High consistency polypropylene melt blown cartridge
- E-core, or extruded fibrous core provides excellent strength
- Easy and safe cartridge incineration and disposal
- 100% polypropylene construction
- free of surfactants, binders, and adhesives

PERFORMANCE SPECIFICATIONS

Retention ratings:

1, 3, 5, 10, 20, 30, 50, 75 micron

Maximum differential pressure:

50 psid (3.45 bar) @ ambient

25 psid (1.72 bar) @ 140° F (60° C)

Recommended changeout differential pressure:

35 psid (2.41 bar)

FDA listed materials:

All materials meet U.S. Food and Drug Administration requirements for food and beverage contact.

Toxicity:

All cartridge components meet USP-XXIII, Class VI toxicity criteria. They are safe for use in pharmaceutical applications.

Purity:

Claris series filter cartridges are free of surfactants, anti-static agents, binders, and adhesives.

PRODUCT SPECIFICATIONS

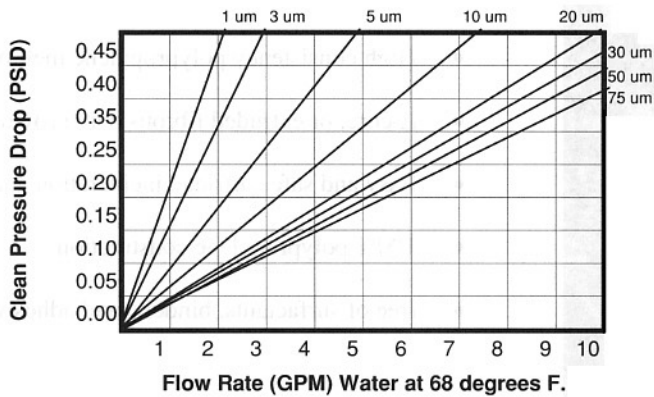
Materials of construction:

Filter media:	polypropylene
Endcaps:	polypropylene
Extended core:	polypropylene
Gasket/o-rings:	silicone, buna N, viton, EPDM, polyethylene (PE)

Dimensions (nominal):

Outside diameter:	2.5" (64mm)
Inside diameter:	1" (25mm)
Lengths:	9.75" to 40" (248mm to 1,016mm)

Flow Rate vs. Differential Pressure



Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

ORDERING CODE:

CLARIS Cartridge: _____ CLR - 3 - 20 - PE - S

Micron sizes: _____

Lengths (inches): _____

Cartridge style: _____

No Symbol = DOE (no end caps)
DOE = DOE with elastomer gasket seal and end caps
PE = DOE polyethylene gasket seal
1X = DOE 1" extended core
M3 = SOE flat end closed, external 222 o-rings
M8 = SOE tin end, external 222 o-rings

Gasket material: _____

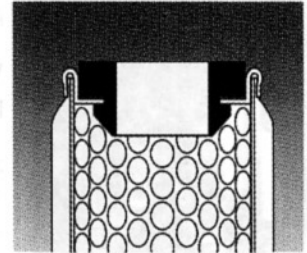
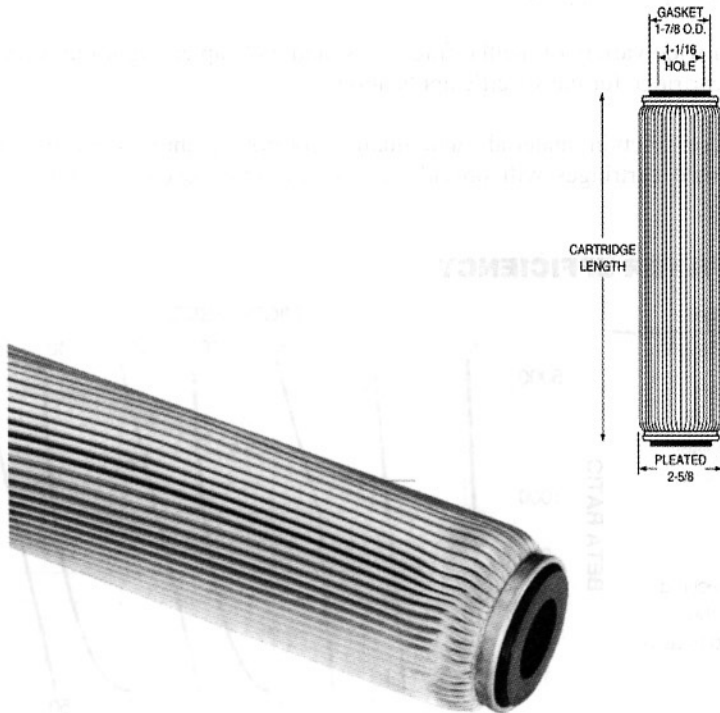
S = Silicone
E = EPDM
N = Buna N
V = Viton

INDUSTRIAL PROCESS FILTER CARTRIDGES

Overcome the temperature and compatibility limitations of fabric or synthetic fiber cartridges by replacing them with these stainless steel wire cloth elements. They can be used in temperatures up to 450° F. with viton grommets, and are unaffected by most caustic fluids.

Made entirely of 304 or 316 stainless steel, they are cleanable and reusable, and can withstand differential pressures up to 60 psid. You can choose particle retention down to 5 micron.

The element surface is pleated to increase surface area. Fabrication is by welding and crimping. No silver brazing or epoxy bonding is used.



Flow Ezy seals are generally not glued onto the cartridge ends as is commonly done. Instead, they are specially shaped to hold on place mechanically, like a grommet. There is little chance they will be dislodged and lost in handling. They are made in different thicknesses to provide seven different standard overall element lengths.

ORDERING CODE:

Example: 30 - 75 - P - B - S - DOE

Cartridge length (inches):

9 ¾, 9 7/8, 10, 19 ½,
20, 29 ½, 30

Micron rating:

5, 10, 20, 40, 74, 80, 100,
120, 150, 190, 230, 280,
370, 540, 840

Construction:

P = pleated
C = cylindrical

End configuration:

DOE = double open end

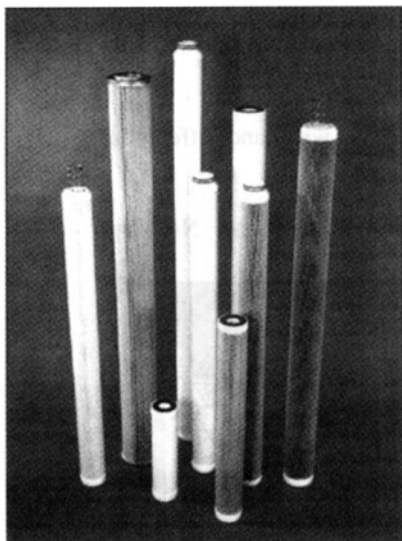
Element material:

S = 304 stainless steel
S316 = 316 stainless steel

Seal material:

B = buna N
E = ethylene propylene (EPR)
V = viton
T = teflon

ABSOLUTE RATED FILTER CARTRIDGES



THE COST EFFECTIVE APPROACH TO QUALITY FILTRATION

These absolute rated filter cartridges provide efficient solids removal in liquid systems where series filtration is not required. Absolute ratings of cartridges range from 0.5 to 90 micron.

Each cartridge has pleated, fixed pore media to maximize surface area, prevent unloading, and fiber migration. Media selections include cellulose, fiberglass, polyester, and polypropylene.

We have a wide variety of media, filter sizes, and end cap configurations provide a preferred cartridge for the specific application.

Superior construction materials and quality control techniques ensure that the absolute rated cartridges will provide quality filtration, even in harsh operating conditions.

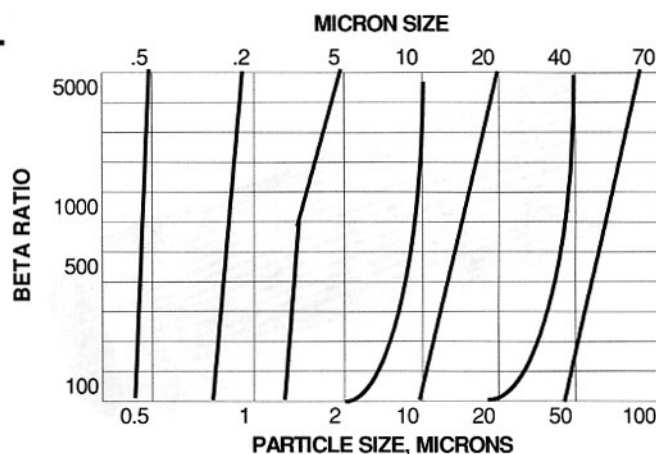
FILTER EFFICIENCY

$$\text{Beta Ratio} = \frac{\text{Upstream particle count at specified size \& larger}}{\text{Downstream particle count at specified size \& larger}}$$

The Beta Ratio at a given particle size can be correlated to the filter efficiency at that particle size according to the following formula:

$$\text{Filter efficiency (\%)} = [(\text{Beta Ratio} - 1) / \text{Beta Ratio}] \times 100\%$$

Each filter element will have a different Beta Ratio for every specified particle size. The determination of a variety of Beta values for the same filter provides a filter efficiency profile commonly referred to as a Beta Curve.



ORDERING INFORMATION:

Example:

AB - P - 05 - C - 1 - 1

Model:

Diameter code:

Blank = 2.5"

P = 3"

X = 3.75 (222 o-ring)

Y = 3.75 (139 o-ring)

Z = 3.75 (134 o-ring)

Micron rating:

0.5, 2, 5, 10, 20, 40, 70, 90

End cap:

1 = DOE

2 = o-ring

3 = spring

Length (inches):

1 = 10

2 = 29.5

4 = 40

9 = 20

Media:

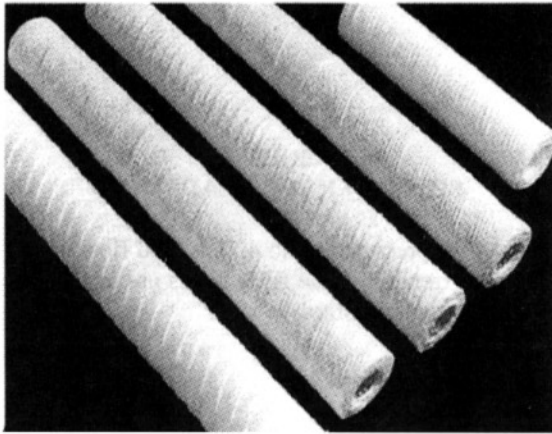
C = cellulose

G = glass

P = polypropylene

R = polyester

"A2" CONTINUOUS WOUND FILTER CARTRIDGES



A wound cartridge is made by diagonally winding a precise pattern of carefully selected fibers on a center core. This pattern is designed to create hundreds of identical, tapered, spiral passageways. During the winding, fibers are combed across the passage and locked in place by preceding layers. Solid particles are removed by entrapment in this highly efficient filter media. By varying the wind pattern, cartridges are fabricated to give a pre-determined micron rating. Filtration takes place throughout the entire cartridge, not just on the surface, so large amounts of contamination are trapped without a sudden rise in pressure caused by surface blinding (this type of filtration is referred to as "depth filtration"). This type of filtration gives a higher rate of efficiency, lower pressure drop, and greater solids holding capacity than standard elements, at a competitive price.

Wound cartridges are available in many different fibers to meet a broad range of filtration applications. Available materials include different types of cotton and polypropylene. Element lengths range from 9 ¾" to 40", fitting most cartridge filter housings. Micron ratings range from 200 down to as low as 0.5 micron. Cores are made of stainless steel, polypropylene, and tin plated steel. Double and triple length cartridges minimize change time and eliminate spacers.

ORDERING INFORMATION

Example:

CU - 20 - R - 30 - T

Media: _____

CF = bleached cotton

CE = white cotton

CU = natural cotton

P = polypropylene

Micron rating: _____

0.5, 1, 2, 3, 5, 15, 20, 25, 30, 40, 75, 100, 125, 150, 200

Outside diameter inches (nominal) *: _____

R = 2 ½"

Length (inches): _____

9 ¾, 10, 19 ½, 20, 29 ½, 30, 39 ½, 40

Core material: _____

A = 316 stainless steel

S = 304 stainless steel

T = tin plated steel

P = polypropylene

* Inside diameter is 1"

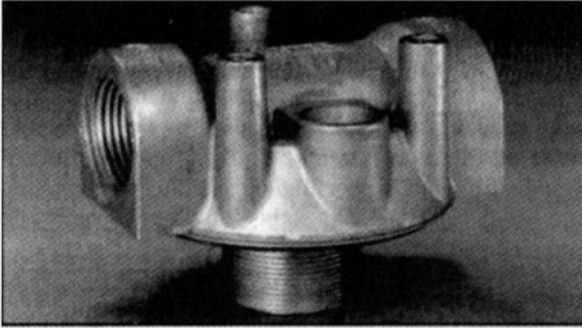
The minimum order requirements for A2 cartridge filter elements are as follows:

10" length – 30 pcs; 20" length – 15 pcs; 30" length – 15 pcs; 40" length – 10 pcs.

SERIES "HF" SPIN-ON FILTER HEAD

FOR PRESSURES UP TO 400 PSI

HF SERIES SPIN-ON FILTER HEADS



Can be used for pressures up to 400 psi and flow rates up to 40 gpm (return). These filter heads are available with the following port sizes:

- 3/4" npt
- 1" npt
- 3/4" bsp
- 1" bsp
- 1 1/16-12 (SAE-12)
- 1 5/16-12 (SAE-16)

This filter head has a 400 psi maximum operating pressure. However, when applying a filter head without a by-pass, there is a maximum of 100 psi ΔP . Temperature rating is from -65° F to 250° F. However, when using visual indicators the temperature rating is from -65° F to 150° F.

Elements to be used with the HF Series filter heads are the Flow Ezy HE, ZHE, and XZHE styles.

These are recommended for petroleum based fluids only. For synthetic fluids consult Flow Ezy.

For dimensional data and other specifications consult Flow Ezy.

ORDERING CODE:

Example: HF - 07 - 25 - V - 03

Model number: _____

Inlet/Outlet ports: _____

07 = 3/4" npt

07C = 3/4" bsp

10 = 1" npt

10C = 1" bsp

11 = 1 1/16-12 (SAE-12)

13 = 1 5/16-12 (SAE-16)

By-pass valve setting: _____

00 = no by-pass

25 = 25 psi by-pass

50 = 50 psi by-pass

ΔP indicator setting:

00 = no indicator

04 = 4 psi

13 = 13 psi

22 = 22 psi

44 = 44 psi

ΔP indicator:

O = no indicator

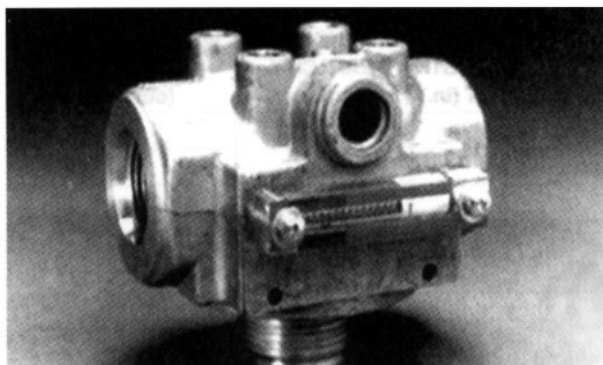
D = DC indicator

V* = visual indicator

* Max temperature with visual indicator is -65° F to 150° F.

SERIES "MHF" SPIN-ON FILTER HEAD

FOR PRESSURES UP TO 400 PSI



MHF SERIES SPIN-ON FILTER HEADS

Can be used for pressures up to 400 psi and flow rates up to 35 gpm. These heads are available only with SAE straight thread sizes:

- 1 1/16 - 12UN (SAE-12)
- 1 5/16 - 12UN (SAE-16)

There is a 500 psi maximum operating pressure. However, when applying a filter head without a bypass, the pressure rating of the assembly is limited to 500 psi or the maximum ΔP of the element in use, whichever rating is lower. Temperature rating is from -20° F to 225° F.

Elements to be used with the MHF Series filter heads are the Flow Ezy ME and ZME styles.

These are recommended for petroleum based fluids only. For synthetic fluids consult Flow Ezy.

For dimensional data and other specifications consult Flow Ezy.

ORDERING CODE:

Example:

MHF - 11 - 25 - VB - 25

Model number: _____

Inlet/Outlet ports: _____

11 = 1 1/16-12 (SAE-12)

13 = 1 5/16-12 (SAE-16)

By-pass valve setting: _____

00 = no by-pass

25 = 25 psi

50 = 50 psi

Indicator setting:

00 = n/a

25 = 25 psi

50 = 50 psi

Indicator option:

00 = none

VB = visual both sides

VL = visual left side

VR = visual right side

EL = electrical left side

SPIN-ON FILTER ELEMENTS FOR "HF" AND "MHF" FILTER HEADS

HE, ZHE, AND XZHE FILTER ELEMENTS ARE TO BE USED WITH THE "HF" SERIES FILTER HEADS

PART NUMBER	MICRON SIZE	FILTER MEDIA	OVERALL LENGTH OF ELEMENT (in.)	DIRT HOLDING CAPACITY (grams)	WATER HOLDING CAPACITY (ounces)
HE-3	3	cellulose	5.9	16.8	n/a
HE-10	10	cellulose	5.9	9.5	n/a
HE-10AZ	10	aqua-zorb	5.9	3.2	3.4
HE-3L	3	cellulose	8	27.3	n/a
HE-3AZL	3	aqua-zorb	8	10	5.5
HE-10L	10	cellulose	8	15.4	n/a

ZHE-03	3	synthetic	5.9	15	n/a
ZHE-10	10	synthetic	5.9	32	n/a
ZHE-03L	3	synthetic	8	22	n/a
ZHE-10L	10	synthetic	8	40	n/a
XZHE-03L	3	synthetic	9.5	32	n/a
XZHE-10L	10	synthetic	9.5	45	n/a

ME AND ZME FILTER ELEMENTS ARE TO BE USED WITH THE "MHF" SERIES FILTER HEADS

PART NUMBER	MICRON SIZE	FILTER MEDIA	OVERALL LENGTH OF ELEMENT (in.)
ME-03	3	cellulose	6
ME-10	10	cellulose	6
ME-03L	3	cellulose	9.5
ME-10L	10	cellulose	9.5

ZME-05	5	synthetic	6
ZME-16	16	synthetic	6
ZME-22	22	synthetic	6
ZME-05L	5	synthetic	9.5
ZME-16L	16	synthetic	9.5
ZME-22L	22	synthetic	9.5

MULTI-PORT DUAL ELEMENT IN-LINE FILTER

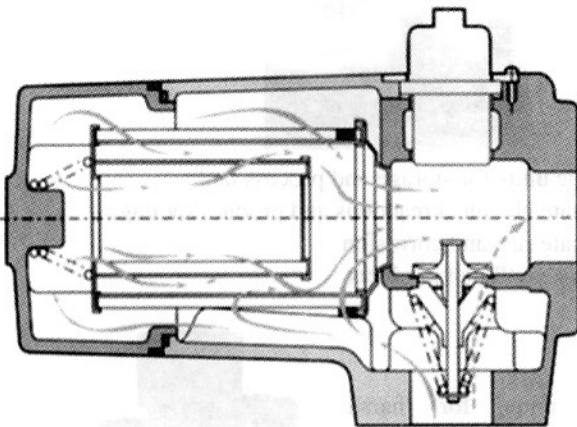
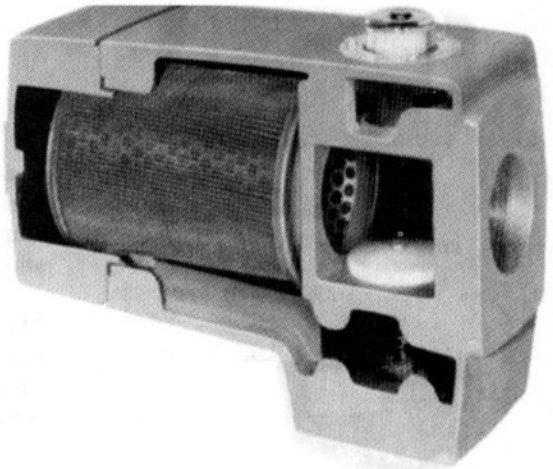
Series "MS"

STANDARD FEATURES

- Choice of 3 outlet ports on 3 models simplifies difficult installation problems.
- Lightweight, rugged cast aluminum construction
- Eight basic models covering a range from 10 gpm through 150 gpm.
- Re-usable, cleanable dual element with up to 4 times more filtering area.
- Bypass valve isolated in the filter head.
- Vacuum indicator alerts you to filter condition and impending bypass.

OPTIONAL FEATURES

- Magring available for all models.
- Viton o-rings for special applications.
- Any combination of NPTF or SAE flange for outlet ports B, C, and D.



OPERATION

Hydraulic fluid flows from the reservoir into the inlet port, continues through the low delta P element and through the outlet port. When the element becomes contaminated, your system is protected against possible wash-off of collected contaminant. Unlike other systems where the bypass flow is forced over the dirt clogged element, the multi-port filter features a unique bypass valve which is self-contained and isolated in the filter head, and does not depend on the mechanical movement of the sludge covered element. Bypassing fluid flows from the inlet port directly to the outlet port, completely ignoring the dirty element and eliminating the possibility of dumping dirt downstream.

HOW TO ORDER

Example:

MS - 50 - F - 5 - B - B - 32 - VY

Model no:

Flow rate (gpm):

10, 20, 30, 50, 60, 75, 100, 150

Port type:

F = NPTF

G = flange, machining only

Micron size:

2 = 40 micron

3 = 74 micron

5 = 149 micron

7 = 262 micron

By-pass setting:

B = 3 psi

C = 5 psi

Options:

M = lock type indicator (ML360)

V = viton seals

Y = magring magnet

Port size (npt):

16 = 1" 20 = 1 1/4" 24 = 1 1/2"

32 = 2" 40 = 2 1/2" 48 = 3" 56 = 3 1/2"

Outlet port location:

Port B (standard)

Port C and D (optional)

REPLACEMENT ELEMENTS:

Use Model no and flow rate (gpm) to determine element size. Then indicate 3 (74 micron) or 5 (149 micron).

Example: MS50-3

DES-CASE DESSICANT TANK BREATHERS



condensation – sludge – rust

PUT AN END TO DIRT AND WATER CONTAMINATION

Keep it Simple! ● Keep it Dry!

In any reservoir containing a fluid, air is breathed in and out as operating temperatures change, or as a tank is filled and emptied. The problem with a simple breather cap is that it allows abrasive contaminants and water to enter the tank.

The DES-CASE breather is a unique, patented air filter and water vapor removal system. The units are inexpensive and simple to install. They eliminate the problems that result from contaminated air.



Small disposable units for hydraulic reservoirs and gear boxes.

“75% of hydraulic system failures are caused by contaminated fluids.”

- Increase oil and filter life
- Eliminate rust and corrosion
- Improve lubricant performance
- Reduce wear, down time, and repair costs



Large units for storage and process tanks

- Eliminate chemical reactions and product spoilage
- Eliminate rust and corrosion
- Eliminate polluted products

Steel units for harsh environments such as chemical plants, welding shops, tank cars, etc.



Industry spends millions of dollars annually treating the negative effects of contamination caused by wet, dirty air. Contaminated lubricating oil and hydraulic fluid results in excess machine wear, production line down time, and additional repair costs. Contaminated products in storage and process tanks result in spoilage and waste. DES-CASE Hygroscopic Breathers attack the cause as opposed to treating the expensive problems caused by air contamination.

DES-CASE Hygroscopic Breathers are unique, patented air filters and water vapor removal systems. They replace the standard breather or ventilation system on virtually all types of industrial equipment, tanks, and reservoirs. DES-CASE breathers are made in various sizes to accommodate smaller size tanks, large storage and process tanks, and steel breathers for rugged and corrosive industrial applications.

UNIQUE FILTRATION PROCESS

Moisture and particulate accumulation are major factors of oil contamination in industrial equipment. Neglected, these detriments restrict equipment efficiency, causing machine down time and significant expense in replacement oil, parts, and repair labor.

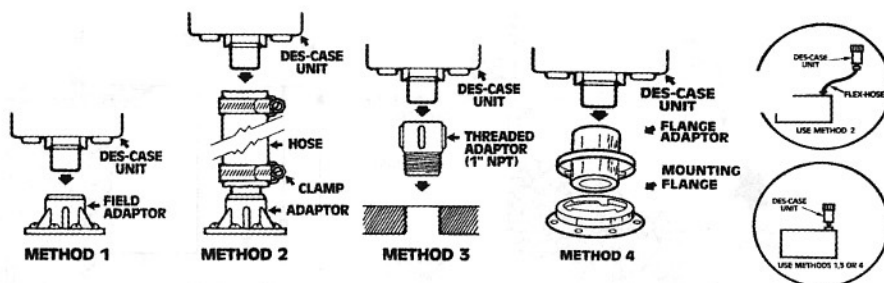
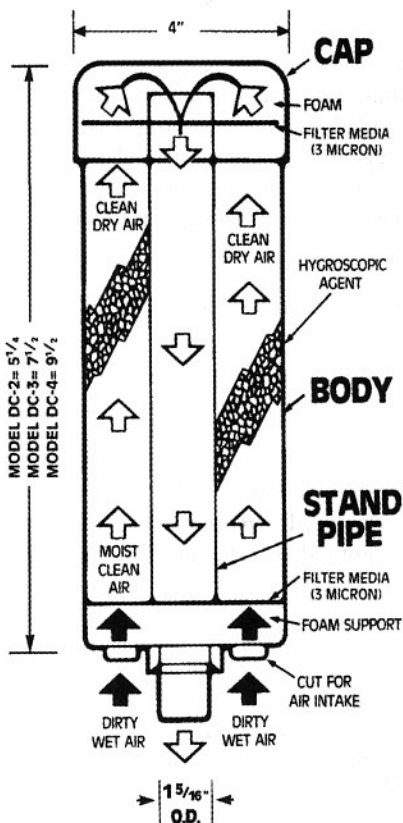
DES-CASE Breathers incorporate a proven field tested design. They prevent water and contaminants from entering fluid reservoirs as differential pressures occur through thermal expansion and contraction of the fluid, or during the filling or emptying process.

DES-CASE TANK BREATHERS

Manufactured with a hygroscopic agent, DES-CASE breathers utilize the entire filter area and have the capability of extracting water vapor from the air as it is drawn through the unit. Accompanying solid particulate is then removed by a patented polyester fabric filter, rated at 3 micron, allowing only clean, dry air to enter the system.

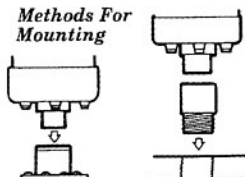
DES-CASE disposable hygroscopic breathers are manufactured in 5 sizes: DC-BB, DC-1, DC-2, DC-3, DC-4. They are available with various mounting methods. DC-BB button breather and DC-1 are rated at 3 cfm with a filtration area of 4.12 sq. in. DC-BB is only 3 inches tall and the DC-1 is 5 inches tall. The DC-2, DC-3, and DC-4 (shown at the left) are rated to 20 cfm. The DC-2 is 4.5 inches tall, the DC-3 is 6.5 inches tall, and the DC-4 is 8.5 inches tall. The DC-2 has 14.4 oz of silica gel, the DC-3 has 22.4 oz, and the DC-4 has 32 oz.

Different mounting methods for the DC-2, DC-3, and DC-4 are illustrated below.



The larger, industrial size, also made of all-weather PVC, is available in 8 different sizes. They are manufactured to withstand typical industrial and tank farm environments. These are designed for installation on most storage and / or process tanks. The eight sizes have a rating of 100 to 900 cfm and have a maximum water absorption of up to 34.8 quarts. Unit height range is from 12 inches to 44 inches. Rebuilt kits are available for these units. A moisture content indicator is located on the side of each unit so water content can be viewed.

Methods For Mounting



MODEL NO.	UNIT DIAMETER (in)	STANDPIPE DIAMETER (in)	UNIT HEIGHT W/O STANDPIPE (in)	RATED AIR MOVEMENT (cfm)	MAX. WATER ABSORPTION (quarts)
DC-6-2-12	6	2	12	100	0.9
DC-6-2-18	6	2	18	100	1.9
DC-10-2-18	10	2	18	100	4.4
DC-10-3-30	10	3	30	250	7.6
DC-14-3-30	14	3	30	250	16.0
DC-14-4-36	14	4	36	500	18.8
DC-18-4-36	18	4	36	500	31.2
DC-18-6-44	18	6	44	900	34.8

DES-CASE TANK BREATHERS

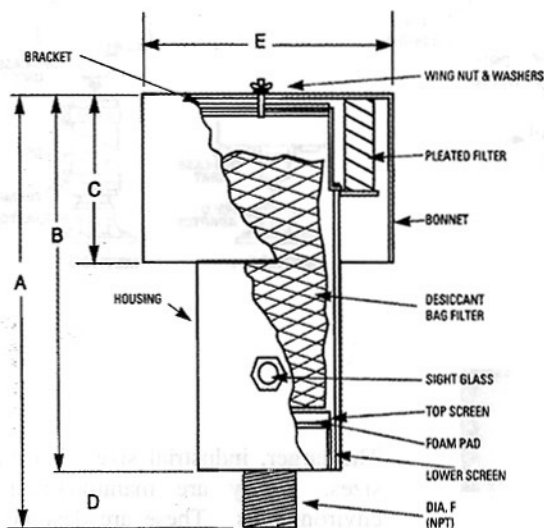
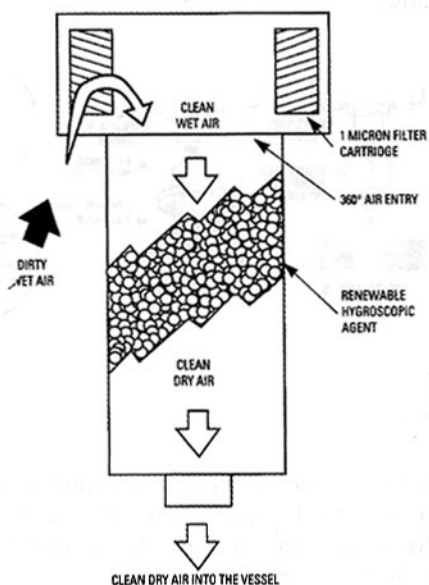


The steel breather was manufactured for harsh and corrosive environments and for applications where there is very high temperatures and extremely dirty air. They are ruggedly designed with housings of epoxy coated carbon steel or stainless steel. The desiccant is enclosed in a bag of polyester filter material. This desiccant bag filter is easily installed when it is time to replace or recharge the unit. The steel breathers accommodate large airflow rates with low pressure drops.

The amount of water each model is able to absorb before recharge or replace is:

DC/CS-4	0.9 pints
DC/CS-6	2.4 pints
DC/CS-10	6.4 pints

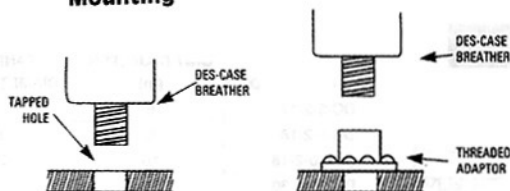
The 1 micron pleated filter has a very large surface area, resulting in long surface life. Like the bag filter, it is easily replaced without removing the breather from service. Steel breathers accommodate large air flow rates with minimal pressure drops.



DIMENSIONS (INCHES)

MODEL	A	B	C	D	E	F	LBS.
DC/CS-4	12	10	4.5	2	7.2	1	12
DC/CS-6	14	12	4.5	2	9.1	2	17
DC/CS-10	20	18	9.0	2	12.0	3	33

Methods For Mounting



ANTI-SLOSH FILLER-BREATHER AND TANK BREATHER



ELIMINATES SPLASHING IN SPECIFIC HYDRAULIC APPLICATIONS, ESPECIALLY MOBILE USES

Flow Ezy's new Anti-Slosh Filler-Breather cap meets high quality standards and the special needs of mobile hydraulic applications. It offers the same features and benefits of our standard, non-pressurized filler-breathers, and easily replaces existing caps. It fits threaded or bayonet style assemblies. They allow a large amount of air flow with little or no slosh.

Features and options in addition to the Anti-Slosh design include nylon or stainless steel strainer basket with or without guard, locking cap, dipstick, safety chain, black powder coating on cap, or side mount assembly. The Anti-Slosh cap is virtually available in any combination just like the standard filler breather. All that needs to be added to our standard ordering code is the suffix "-AS", for Anti-Slosh.

The Anti-Slosh design is also available with a $\frac{3}{4}$ " npt male thread, as shown above left, if you do not choose to use it with the bayonet style.

HOW TO ORDER AS FILLER-BREATHER

Example: ABG - 1000 - 3 - AS - *

Model no: _____

ABG

Element micron size: _____

1000 = 40 micron

1010 = 10 micron

Basket length/type: _____

3 = 3" metal

4 = 4" nylon

6 = 6" metal

8 = 8" metal

13 = 13" metal

Anti-Slosh: _____

AS

* Options: _____

B = black powder coating

D** = 3", 6", 8", 13" dipstick

G = guard (same length as basket)

M** = 3", 6", 8" post magnet

** specify length

HOW TO ORDER AS TANK BREATHER

Example: BFG - 2113 - AS

Model no: _____

BFG

Element micron size: _____

2113 = 10 micron

2143 = 40 micron

Anti-Slosh: _____

AS

Model BFG Anti-Slosh tank breather is available in $\frac{3}{4}$ " male npt only

SPLASH-PROOF FILLER-BREATHER AND TANK BREATHER (ALL NYLON)



ELIMINATES SPLASHING IN HYDRAULIC APPLICATIONS PARTICULARLY IN MOBILE APPLICATIONS

This splash-proof tank breather or filler-breather will help meet the needs of the mobile hydraulic industry. It can be used as a filler-breather (shown on the left) or as a tank breather (shown on the right). A special material foam is cemented into the neck of the breather portion to prevent any sloshing by the movement of the fluid up into the breather element in the cap.



The tank breather with the splash-proof feature comes with 1/2", 3/4", 1", 1 1/4", or 1 1/2" male npt thread.

HOW TO ORDER AS FILLER-BREATHER

Example: NAB - 1000 - 4 - SP

Model no: _____

NAB = standard cap,
pictured above

NABG = grip, weather proof cap,
pictured below

Element micron size: _____

1000 = 40 micron
1010 = 10 micron

Basket length/type: _____

3 = 3" metal
4 = 4" nylon
6 = 6" metal
8 = 8" metal
13 = 13" metal

Splash-proof: _____

SP

HOW TO ORDER AS TANK BREATHER

Example: NBFG - 20 - 12 - SP

Model no: _____

NBF = standard cap,
pictured above

NBFG = grip, weather proof cap,
pictured below

Element micron size: _____

21 = 40 micron
20 = 10 micron

Pipe size (npt): _____

12=1/2", 13=3/4", 14=1",
15=1-1/4", 16=1-1/2"

Splash-proof: _____

SP

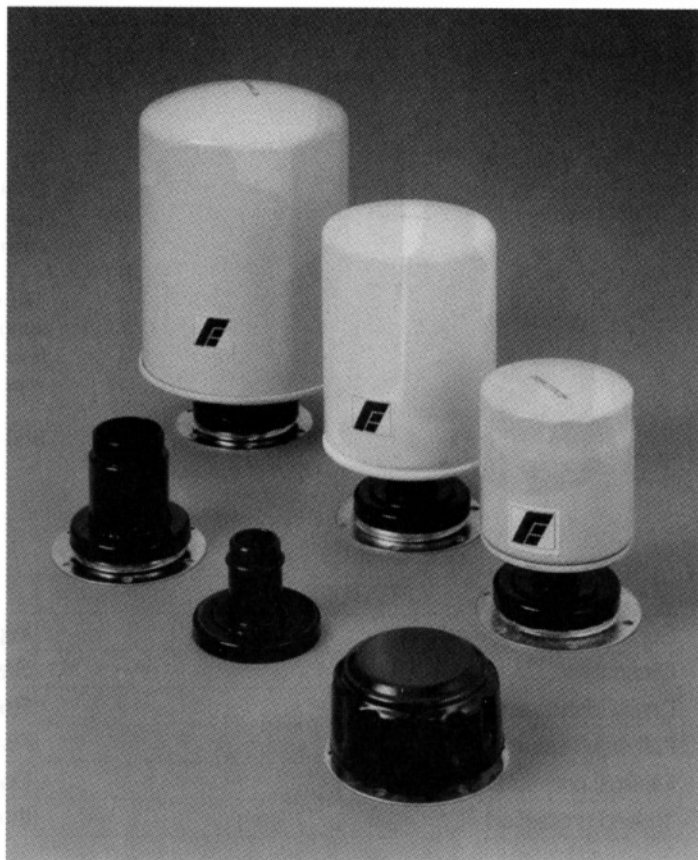


Pictured to the left is the weather-proof cap that can be used if the application requires. Where the standard cap above has open slots on the side of the cap, the weather-proof (grip) cap has the slots underneath the cap. If this cap is required, just indicate it in the ordering codes above.

"TBAB EXTRA" FILLER-BRATHERS / TANK BREATHERS

The "T-BAB EXTRA" is our new high capacity filler-breather. These new filler-breathers bring together high capacity and high efficiency to become the latest edition to our ever increasing product line. The dirt holding capacity is up to 15 times greater than our traditional filler-breather units. With the new "T-BAB EXTRA" you can achieve as low as 3 micron filtration and as high as 149 micron filtration. Also, our 3 micron, water absorbing spin-on element can be used. The breather portion of the unit is simply our spin-on filter element which is threaded onto Flow Ezy's new adapter and then connected to our standard filler-breather neck or high neck. The basket is the same as those used with standard, smaller units. Also, pictured is our ABG filler-breather cap in black powder coated.

Using these larger filtering elements as breathers helps protect system components from airborne contamination and allows more time between servicing. When there is a large volume change greater than 400 gpm, the "T-BAB EXTRA" is the direction you want to go when it comes to keeping ingressed contamination out of the system.



MODEL NUMBER	SIZE	BASKET LENGTH (INCHES)
TBAB	08	3
	12	3
	20	3
	08	4
	12	4
	20	4
	08	6
	12	6
	20	6
	08	8
	12	8
	20	8
	08	13
	12	13
	20	13

Complete unit includes adapter, element, neck, gasket, and screws

COMPLETE UNIT ORDERING CODE: example

MODEL NUMBER	SIZE	MICRON SIZE	BASKET LENGTH (INCHES)
TBAB	-	12	- 10 - 3

ORDERING CODE:

MODEL NUMBER	SIZE	MICRON SIZE	BASKET LENGTH (INCHES)
TBAB	08, 12, 20	03, 10, 25, and 149	3, 4, 6, 8, and 13

ordering example: TBAB-12-10-6

JET PNEUMATIC EXHAUST MUFFLER



FOR PNEUMATIC EXHAUST NOISE CONTROL

JET MUFFLERS reduce noise levels to within acceptable OSHA standards. They are available from 1/8" to 1" npt. They come in two different configurations. Please check the chart below for sizes of the TM and SLM model numbers.

The housings are made of a glass filled polypropylene with a temperature rating of 325 degrees F. The reason this material is made is because it is the most chemically resistant material, which can be used, in many different applications.

Both series have the features and benefits as indicated below:

FEATURE	BENEFIT
Superior noise control	Improves working conditions
Cleanable	Saves replacement costs
Easily disassembled	Reduces maintenance costs
Fail safe feature	Prevents excessive back pressure buildup
Minimal pressure drop	Does not interfere with equipment operations
Thread protection	threading occurs

DISASSEMBLY AND CLEANING

The TM and SLM series mufflers use a multi-layered wire mesh element that is impervious to solvents. The element is easily removed as shown in the illustration. Cleaning solvents should be selected as best suits removing the collected contaminants.



ENGINEERING DATA AND MODEL NUMBERS

MODEL NUMBER	PIPE SIZE (NPT)	DIAMETER (INCHES)	LENGTH (INCHES)	WEIGHT (OUNCES)
TM-1	1/8	1.62	1.76	1.5
TM-2	1/4	1.62	1.76	1.5
TM-3	3/8	2.00	2.82	3.5
TM-4	1/2	2.00	2.94	3.5
TM-6	3/4	2.92	4.15	8.0
TM-8	1	2.92	4.38	8.0
SLM-1	1/8	0.95	2.35	0.5
SLM-2	1/4	0.95	2.48	0.5
SLM-3	3/8	1.34	3.55	1.4
SLM-4	1/2	1.34	3.68	1.4
SLM-6	3/4	1.90	5.60	4.0
SLM-8	1	1.90	5.85	4.0

ALL STAINLESS STEEL SUCTION SCREEN



Our new "ALL STAINLESS STEEL" suction screen is being made to replace nylon, plastic, and all other inferior suction screens.

They are presently being widely used in the commercial paint supply industry but can really be used in any application where fluids need to be strained. They can be used for straining all petroleum based fluids, chemical liquids, or water. They will not rust because they are made of all stainless steel. The "ALL STAINLESS STEEL" suction screen is not affected by temperature and will not strip, pull loose, or crack like a lot of plastic and nylon units will. They are available in pipe sizes of $\frac{1}{2}$, $\frac{3}{4}$, and 1 inch npt.

Mesh sizes available are 16, 30, and 60. All are reinforced with a heavier 8 mesh for inner support. Other mesh sizes are available by special order.

HOW TO ORDER:

Example:

F6 - 30/8 - SS

Model no: _____

F4 = $\frac{1}{2}$ " npt

F6 = $\frac{3}{4}$ " npt

F8 = 1" npt

Mesh size: _____

16/8 = 16 mesh over 8 mesh

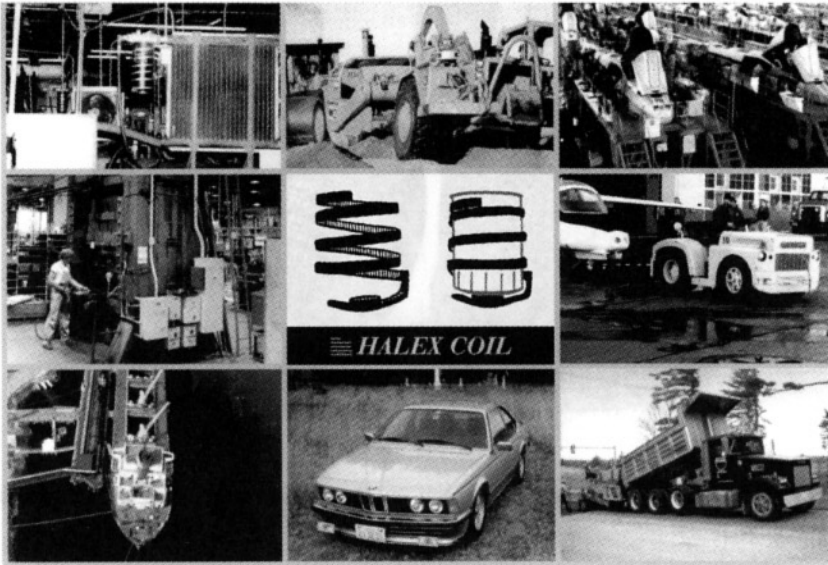
30/8 = 30 mesh over 8 mesh

60/8 = 60 mesh over 8 mesh

SS = stainless steel _____

HALEX MAGNETIC COIL FOR SPIN-ON FILTER ELEMENTS

MAGNETIC FILTRATION FOR HYDRAULIC AND OIL SYSTEMS



The Halex coil creates a magnetic field along the entire inside wall and core of oil canister filters. The Magnetic field continually pulls millions of abrasive micro ferrous particles out of the oil stream. They are trapped in place and removed at each oil change, reducing wear and extending system life, as well as saving repair time and dollars.

Most system wear and damages are caused by minute abrasive alloy particles that wear off the moving surfaces. It would be an ideal situation if the filter within an oil or hydraulic system screened out all of these abrasive materials. Unfortunately a filter with that fine a grade would seriously impede the oil flow and would also filter out several additives that you want to remain suspended with the oil flow.

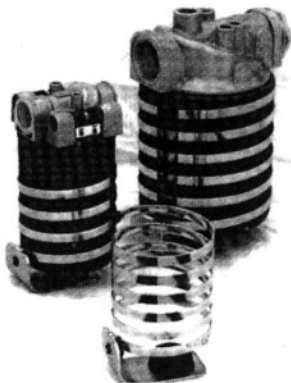
The Halex Coil magnetic filtration system effectively removes these ferrous micro particles from the oil flow without interfering with the lubrication system, this includes the under twenty micron particles that normally pass through standard filters and cause wear and damage. It is applicable to all types of spin-on fluid elements and simply pops onto the filter. When installed a powerful magnetic field forms, which holds the stray ferrous particles against the canister walls. Particles are removed with the canister at each oil change and can be gathered for analysis if needed.

The Halex Coil is designed for commercial applications in which it is used filter change after filter change. The fluid is continuously cleaned, increasing performance, reducing damage, and lengthening engine or machine life.

The Halex Coil utilizes the extremely high magnetic strength of the new high performance Rare Earth Magnets. Rare Earth Magnets are an advanced group of recently developed magnetic materials, with magnetic properties far exceeding those of the commonly used Alnico and Ceramic types (by as much as 10 to 100 times). These magnets are alloys of and are named after the rare earth group of elements (the Lanthanides) including the elements Samarium and Neodymium.

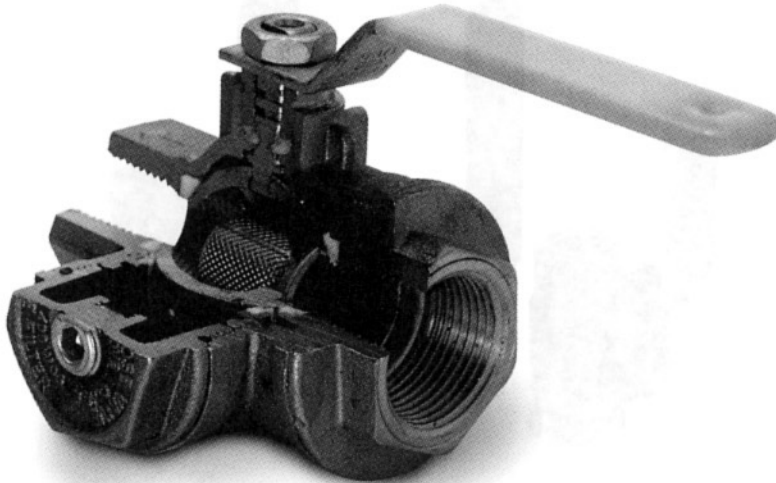
Neodymium Iron Boron magnets are produced by compacting a finely milled powder in the presence of an electromagnetic alignment field. It is sintered and heat treated in a controlled inert gas atmosphere to achieve full density and optimize the magnetic properties. Final shaping of the magnet is accomplished by grinding with diamond abrasives.

We offer 2 sizes, one size fits our FEE30 elements (p/n HX-356-35) and one size fits our FEE51 style elements (p/n HX-406-35). However, keep in mind the flexibility of these coils in that they can fit other size spin-on cans, as well.



FILTER-BALL VALVE

YOUR ACCESS TO CLEANER PIPING



This is our ball-valve with a mesh basket located in the middle. We are showing the cut-away picture so the basket can be easily seen. The Filter-Ball Valve replaces the standard shut-off valve and a separate strainer, giving you:

- Lower material costs
- Lower installation costs
- Smaller space requirements
- Lift-n-lock tamper-proof pad-lock device
- 180° reversible handle
- ISO 9002
- Available in pipe sizes ½" npt to 2" npt
- Made from corrosion resistant dezincified brass
- Double o-rings to prevent stem leakage
- The strainer is readily accessible for cleaning through a screwed plug in the valve body after closing the ball valve
- Baskets are available in 20, 40, 60, 80, and 100 mesh

The Filter Ball-valve is recommended wherever a shut-off valve and a strainer are required. Replacement baskets are available.

HOW TO ORDER

Example:

T-100FB - 1 - 60

Model no: _____

T-100FB

Pipe size (npt): _____

½, ¾, 1, 1 ¼, 1 ½, 2

Mesh size: _____

20, 40, 60, 80, 100

SHUT-OFF VALVES



We have a line of shut-off valves to complement our Filter-Ball Valve. They conform to all Federal specifications.

Model *Compact 100* (two valves show on right above) come with double viton o-rings to prevent stem leakage. They are ISO 9002 certified. They are constructed of heavy duty forged brass for residential, commercial, and industrial use on steam, water, oil, or compressed air. They feature raised wrench flats, Teflon seats, packing, and threaded washer. The ball is solid, as well. The Compact 100 is available in ½", ¾", 1", 1 ¼", 1 ½", and 2" npt, as well as the same pipe sizes with soldered ends. Pressure rating is 150 psi W.S.P. and 600 W.O.G.

For more specific information, dimensions, and technical data please call Flow Ezy Filters.

HOW TO ORDER THE COMPACT 100

Example: T - 100C - 1 ½

Connection type: _____

T = threaded

S = socket

Model no: _____

100C

Pipe size: _____

½, ¾, 1, 1 ¼,

1 ½, 2

Model T-CS/SS 2000 (valve shown on left above) is designed for high pressure and high temperature application. This series of shut off valves is also designed for rugged industrial applications of steam, water, oil, gas, and corrosive materials. They are UL approved for LP gas, and natural and manufactured gas, LP gas – air mixtures, and anhydrous-ammonia. They feature solid ball construction, reinforced PTFE seats, and two piece standard port design. Double viton o-rings prevent stem leakage. Pipe sizes available are ¼", ½", ¾", 1", 1 ¼", 1 ½", and 2" npt. Special 2000 psi seats available upon request.

Model T-CS/SS 2000 is available in 316 stainless steel w/stainless ball and seats and in carbon steel w/316 stainless steel ball and seats.

For more specific information, dimensions, and technical data please call Flow Ezy Filters.

HOW TO ORDER THE T-2000

Example: T - SS2000 - 1 ¼

Model no: _____

T

Material: _____

CS2000 = carbon steel

SS2000 = stainless steel

Pipe size: _____

¼, ½, ¾, 1, 1 ¼,

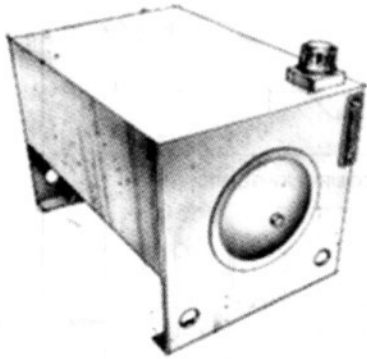
1 ½, 2

RESERVOIRS AND ACCESSORIES

IMPORTANT FEATURES:

- Flow Ezy reservoirs meet or exceed all J.I.C. and ASLE Standards.
- Scale free welding process is used.
- All Flow Ezy reservoirs are fabricated from hot rolled steel plate and sheet, pickled, and oiled, which eliminates the need for sandblasting and subsequent residue.
- Fixed baffle properly slotted for correct oil circulation.
- Single bolt end caps sized for maximum cleanout opening.
- Flow Ezy sight level gauge is plated and has extra large sight area with non-breakable 2X magnifier.
- Combination oil level and temperature gauge is standard. Temperature gauge features readings in centigrade and Fahrenheit.
- Special duty and high temperature level gauge available as an option.
- Flow Ezy filler-breather assembly is plated and guarded. It has a non-corrosive nylon strainer. Ten times the amount of airflow as comparable units now available.
- Four 2 1/4" diameter lift holes.

WCE SERIES ECONOLINE RESERVOIR



MODEL NO.	GALLON CAPACITY
WCE-10	10
WCE-15	15
WCE-20	20
WCE-30	30
WCE-40	40
WCE-50	50
WCE-60	60
WCE-80	80
WCE-100	100

These units are up to 17% less than our J.I.C. reservoirs on the next page. They will be identical to the WC J.I.C. reservoirs with the following exceptions:

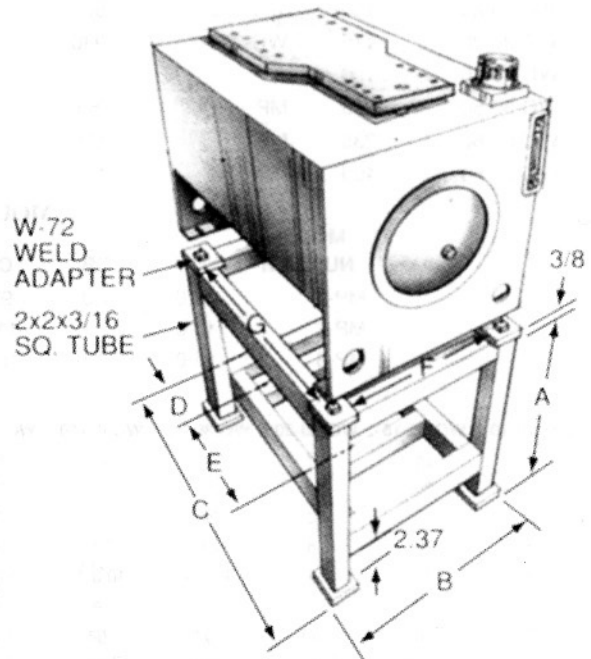
WCE-10 thru WCE-50 – 10 ga. ends and top, end cover on one end only.

WCE-60, WCE-80, WCE-100 – 7 ga. ends 10 ga. top, end cover on both ends.

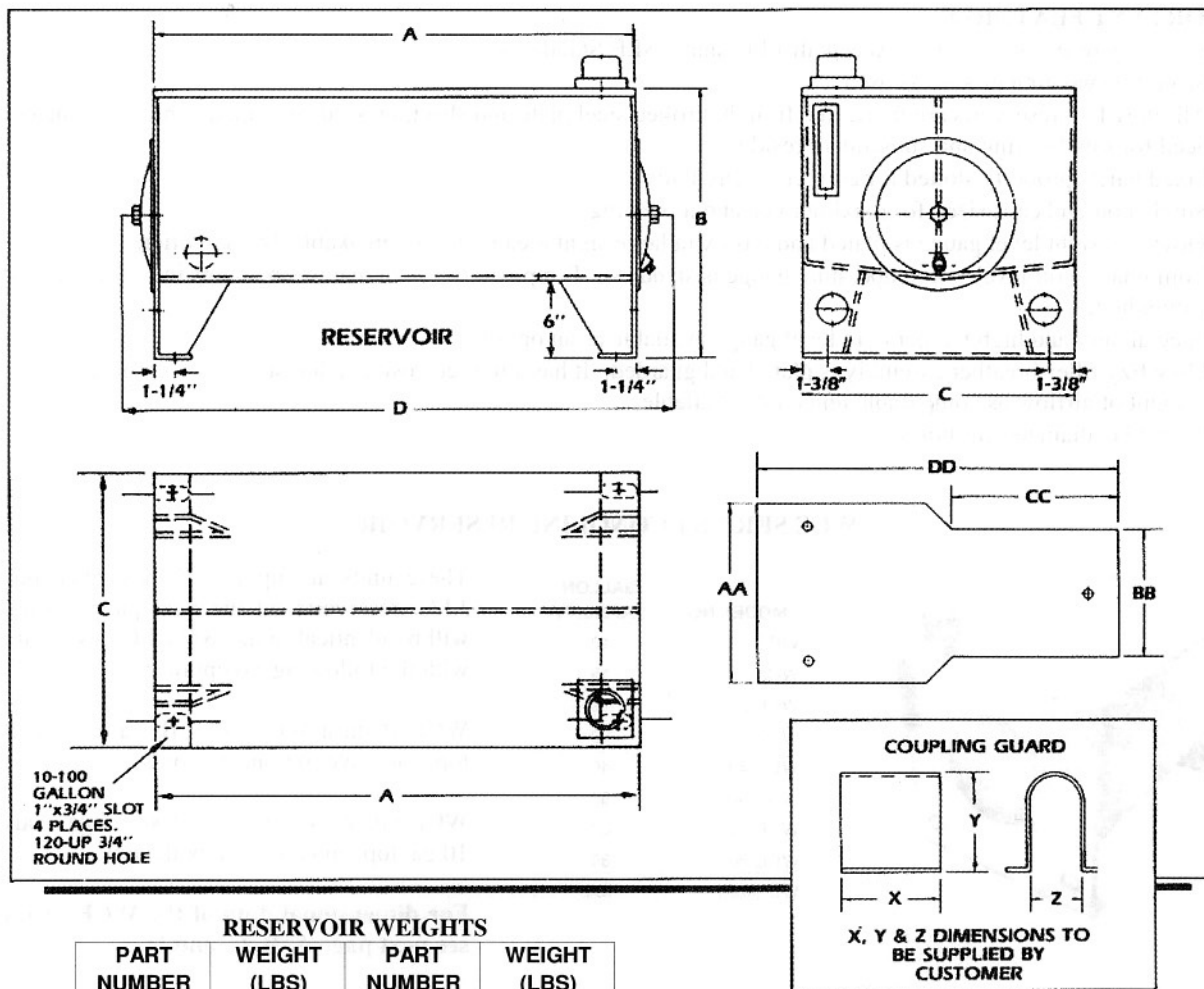
For dimensional data of the WCE series see next page A, B, C, and D.

ELEVATED RESERVOIR STANDS

- Hydraulic reservoir stands for mounting standard J.I.C. type reservoirs over the pump and motor.
- Provides a positive feed to the pump.
- May be stacked for greater floor space saving. Standard units available for Flow Ezy J.I.C. type reservoirs from 10 to 200 gallon capacity.
- Easy reservoir mounting.
- Motor / pump mounting plate supports located per your requirements.
- Optional drip pans available.



J.I.C. RESERVOIR DIMENSIONAL DATA



RESERVOIR WEIGHTS

PART NUMBER	WEIGHT (LBS)	PART NUMBER	WEIGHT (LBS)
WC-10-10	100	WC-100	425
WC-15-15	125	WC-120	540
WC-20-20	130	WC-150	595
WC-30-30	175	WC-200	940
WC-40-40	190		
WC-50-50	195	MP-1	50
WC-60-60	235	MP-2	100
WC-80-80	400	MP-3	185

MOUNTING PLATES

MODEL NUMBER	AA	BB	CC	DD	THICKNESS	MAX FR	HOLES
MP-1	12.0	7.0	9.5	24.0	3/4"	254	3
MP-2	13.0	9.0	11.5	30.0	1"	286	3
MP-3	16.0	11.0	15.0	36.0	1 1/4"	365	5

MODEL	WC-10-10	WC-15-15	WC-20-20	WC-30-30	WC-40-40	WC-50-50	WC-60-60	WC-80-80	WC-100	WC-120	WC-150	WC-200
Gallon	10	15	20	30	40	50	60	80	100	120	150	200
A (length)	22	26	30	36	36	36	48	60	60	60	60	72
B (height)	20	20	20	20	22	23	21	21 1/4	24 1/4	25 5/8	30 5/8	29 3/8
C (width)	18	28	18	24	24	24	27	27	27	30	30	36
D	26	30	34	40 3/4	40 3/4	40 3/4	52 3/4	64 3/4	63 3/4	66	66	78
End Cover	12	12	12	14	14	14	14	14	14	18	18	18
Ends	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	3/8	3/8	3/8	3/8
Top	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	7 ga.	3/8	3/8	3/8	3/8	3/8

MAGNETIC FILTRATION



Flow Ezy magnetic tank traps are designed to maintain hydraulic systems by picking up ferrous particles that can clog ordinary filters. They are easily installed and easily cleaned. The Flow Ezy "RM" series magnetic tank trap features a wipe clean stainless steel wrapped magnet, zinc plated steel rod, and steel plug.

Valuable pump and component protection is provided by these low-cost, easily maintained units.

RESERVOIR MAGNET (RM) should be located within 1" of the reservoir bottom.

Pipe sizes available are 1, 1 ¼, 1 ½, and 2 inch npt. Magnet length is 6" while overall lengths are 10", 12", 16" and 20".

Ordering code: RM - 2 - 12

Model number: _____

Pipe size: _____

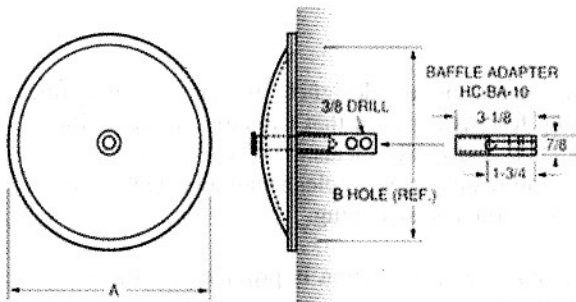
1", 1 ¼", 1 ½", 2" npt

Overall length: _____

10", 12", 16", 20"



END COVERS



OPTIONAL END COVER LIP SEALS

LIP SEAL PART NO.	DESCRIPTION	COVER SIZE
HC-EC-S-12	silicone seal	12
HC-EC-S-14	silicone seal	14
HC-EC-S-18	silicone seal	18
HC-LIP-S-12	Buna-N lip seal	12
HC-LIP-S-14	Buna-N lip seal	14
HC-LIP-S-18	Buna-N lip seal	18
HC LIP-S-12-V	viton lip seal	12
HC LIP-S-14-V	viton lip seal	14
HC LIP-S-18-V	viton lip seal	18

NOTE: Standard seals are compatible with most fluids including phosphate esters.

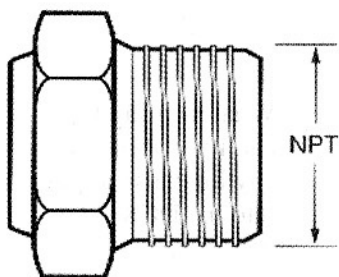
Flow Ezy end covers for replacement or retrofit are available in 12, 14, and 18-inch diameters. Materials used are steel and stainless steel. Steel end covers are zinc plated for corrosion protection. All end covers are available with drain and have a unique form of silicone seal that has excellent resistance to cutting and abrasion, and is compatible with all standard hydraulic fluids. Replacement seals are readily available from stock.

The end cover is attached to the reservoir by the baffle adapter. The design of the HC-BA-10 allows it to be attached to the baffle with press pins or standard bolts, assuring a tight, shockproof installation, and eliminating the need for welding and subsequent weld splatter, warping and stressing of the baffle. The baffle adapter is also available in 304 stainless steel.

SPECIFICATIONS

MODEL NO.	A	B	C	WEIGHT
HC-EC-12	11 7/8	10	7 ga.	6 1/4
HC-EC-14	14	12	7 ga.	8
HC-EC-18	18	16	7 ga.	14 1/2
HC-EC-12SS	12	10	12 ga.	4
HC-EC-14SS	14 5/8	12	7 ga.	9 3/4
HC-EC-18SS	18	16	0.194	8

OIL LEVEL SIGHT PLUG



FLOW EZY SIGHT PLUGS ARE DESIGNED FOR QUICK VISUAL INSPECTION OF LIQUID LEVELS.

HC-SP Series plugs are a transparent window with synthetic rubber seal. Body is of zinc plated steel, reflecting surface behind glass is stainless steel.

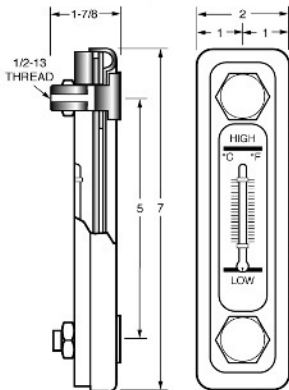
- Eliminate the need for dipsticks.
- Presence of liquid is clearly shown in window.
- Reflecting surface behind glass provides excellent visibility – even in dark locations.
- Compatible with most fluids, including diesel fuel and phosphate esters.

MODEL NO.	NPT	MAXIMUM TEMPERATURE	HEX SIZE	SIGHT AREA
HC-SP-8	1/2	200 degrees F.	1	9/16
HC-SP-12	3/4	200 degrees F.	1 1/4	3/4
HC-SP-16	1	200 degrees F.	1 5/8	1 1/8
HC-SP-24	1 1/2	500 degrees F.	2 1/4	1 7/16

SIGHT LEVEL GAUGES

TECHNICAL DATA FOR SIGHT LEVEL GAUGES

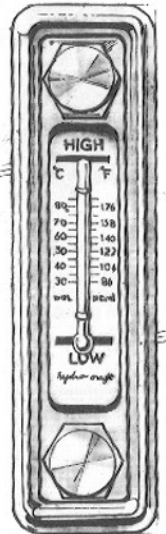
Drill 9/16" Hole 2
Places on 5" Center



MODEL NO. HSG-55

The Flow Ezy standard sight level gauge is available with temperature indicator. Complete with neoprene gaskets and attaching bolts ready for immediate installation.

- Can be installed from either outside or inside reservoir unit. Requires only two mounting holes
- Sturdy low profile outer case
- All external metal parts are plated
- Extra large sight area, nonbreakable 2X magnifier
- Thermometer standard with readings in centigrade or Farenheit
- Will withstand temperatures to 225° F
- Available in stainless steel



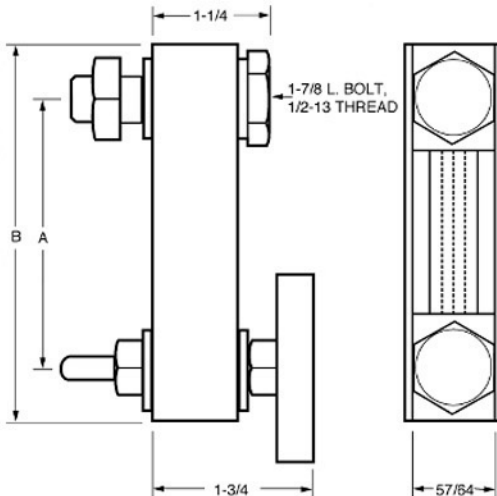
†All dimensions are approximate in in

The HSG-55 cannot be used for pressurized applications. Sight level gauges are not designed for pressure applications.

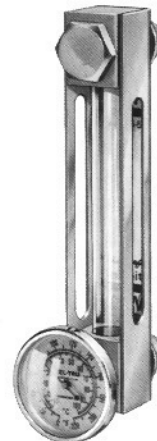
MODEL NO. HSG-66

This series sight level gauge is available in 3, 5, and inch lengths, either with or without a dial type thermometer.

- Rugged construction
- Plated steel shell and end blocks
- Durable Lexan tube will not discolor
- Pyrex glass tube available at no additional cost
- Easy to read high visibility design
- Viton o-ring tube seals
- Unique, easy mounting nylon seals
- Easy to read, precision dial type thermometer
- Will withstand temperatures from 0°-500° F (Pyrex) or 0°-250° F (Lexan)



5- and 10-inch
gauges are
slotted for side
viewing



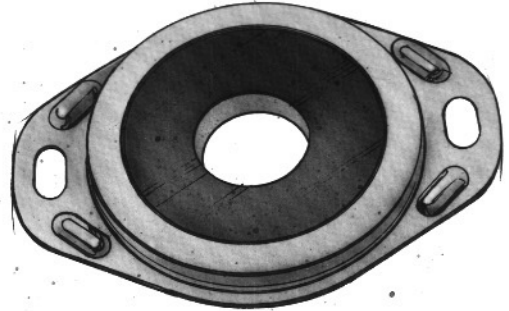
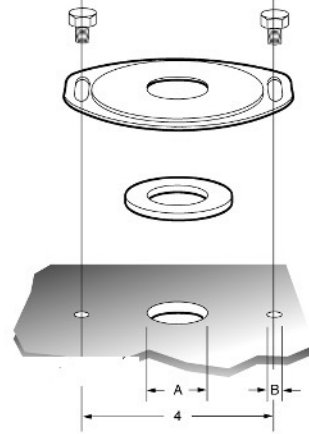
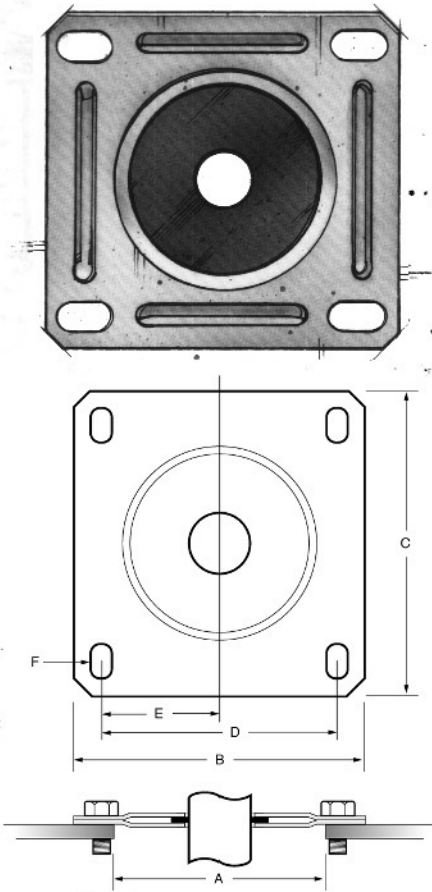
GAUGE SPECIFICATIONS

GAUGE NO.	WITH TEMP INDICATOR	MOUNTING CENTER (A)	OVERALL LENGTH (B)
HSG-66-3	HSG-66T-3	3	4 1/8
HSG-66-5	HSG-66T-5	5	6 1/8
HSG-66-10	HSG-66T-10	10	11 1/8

FLANGE KITS

SUCTION LINE

RETURN LINE



SUCTION LINE

KIT MODEL NUMBER	PIPE SIZE	A	B	C	D	E	F
HA-00-40-8P	1/2	4.00	5.25	5.50	4.25	2.125	.38 x .62
HA-00-40-12P	3/4	4.00	5.25	5.50	4.25	2.125	.38 x .62
HA-00-40-16P	1	4.00	5.25	5.50	4.25	2.125	.38 x .62
HA-00-40-20P	1 1/4	4.00	5.25	5.50	4.25	2.125	.38 x .62
HA-00-40-24P	1 1/2	4.00	5.25	5.50	4.25	2.125	.38 x .62
HA-00-40-32P	2	4.00	5.25	5.50	4.25	2.125	.38 x .62
HA-0060-24P	1 1/2	6.62	7.50	7.50	6.25	3.125	.44 x .88
HA-0060-32P	2	6.62	7.50	7.50	6.25	3.125	.44 x .88
HA-0060-40P	2 1/2	6.62	7.50	7.50	6.25	3.125	.44 x .88
HA-0060-48P	3	6.62	7.50	7.50	6.25	3.125	.44 x .88

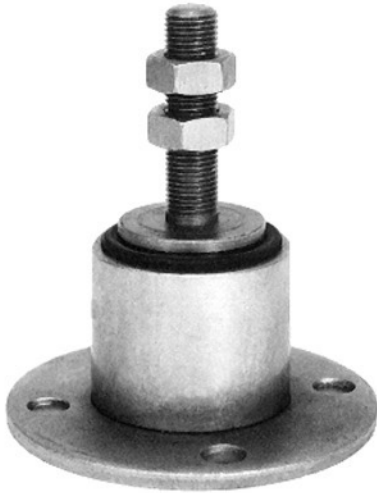
RETURN LINE

KIT MODEL NUMBER	PIPE SIZE	DIAMETER "A"	DIAMETER "B"
HA00-28-8P	1/2	1	7/32
HA00-28-12P	3/4	1 1/4	7/32
HA00-28-16P	1	1 1/2	7/32
HA00-28-20P	1 1/4	1 3/4	7/32
HA00-28-24P	1 1/2	2	7/32
HA00-28-32P	2	2 1/2	7/32

SHOCK MOUNTS

MODEL HC-SM-32

The Flow Ezy shock mount is simple in design, engineered for rugged service and long life, having an inner cylinder attached to the stud, which is insulated from the outer shell by a wall of mechanically bonded rubber. They have an ample safety margin: Overloaded to destruction they will allow a drop of less than 1/2".

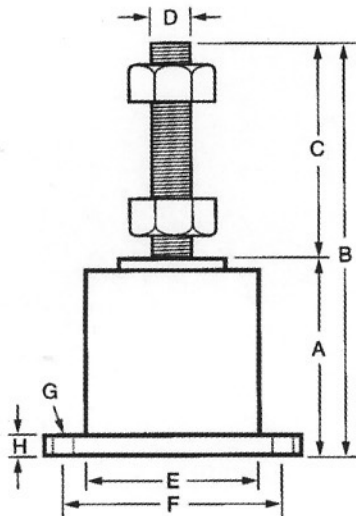


- Cut down vibration
- Helps subdue shock and noise
- Easy to install
- Inexpensive
- No maintenance required
- Allows precision leveling

MOUNTING METHODS

Place plate through shock mount stud, lock both nuts into proper level position. Weld adapters can be inserted into shock mount base and welded position. Shock mounts can easily be removed by removing nuts from weld pads.

Various other mounting configurations can be used. See illustration below.



	Load capacity of each mount	200 lbs
	Shipping weight each	1 lb. 6 oz.
	Maximum (average) deflection under rated load	.0625"
A	Height floor to top of lower face (min. height above floor)	1 7/8
B	Height overall, including stud	3 7/8
C	Height of stud	2
D	Diameter of stud	1/2
E	Diameter of housing	1 3/4
F	Bolt hole centers	2 3/4
G	Diameter of bolt holes in base	3/8
H	flange height	11/64

