

Coalescing Filters - to 285 psig

285psig @ -20 to 100°F
260psig @ -20 to 200°F

Series R30- Enameled Carbon Steel ♦ Series R32- 304 Stainless



- Intake Air/Gas/Mist Flows to 100,000 SCFM Std.
- ASME U Stamp Std., Nat'l. Board Registered
- Pleated Element Design - Exceptional Filter Area, Low ΔP , High Flow
- Hinged Flange and Lift Lug Std., Service Access W/O Breaking Connections
- 304SS Throat Safety Cages and ΔP Taps Std.
- Rugged Enameled Steel or 304SS Construction

Series R30 coalescing pipeline filters are fabricated from rugged enameled carbon steel, (R32 are 304SS), designed, constructed, and stamped in accordance with ASME Boiler and Pressure Vessel Code requirements for unfired pressure vessels. Any model can be modified to more exactly fit your needs.

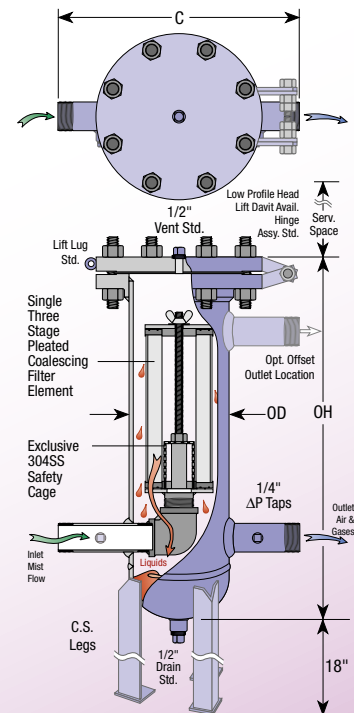
- **Standard Connection Sizes from 1" to 12"** Male NPT or raised face flange in-line connections are std. Alternative orientations and sizes are available. An elevated discharge connection is shown below. A hinged blind face flange closure assembly with lift lug is standard.

- **Coalescing Filter Media.** Sparks™ #907 media is composed of microfine borosilicate glass fibers bonded with phenolic resin. Together with a textile prefilter and a final drain layer, these pleated elements are remarkably effective at coalescing fine entrained oil and aqueous vapor mist from air/gas flows with very low ΔP . Experience has demonstrated high removal (over 90%) in dealing with 1.0 to 0.3 μ aerosols. **Other optional filter media such as #926 exceeds 95% removals.** Individual performance will vary with the specific viscosity and vapor pressure of liquid contaminants.

- **Options:** Models R30-0202-MT-020 and larger include CS leg supports. (add 18" to OH) Carbon steel support legs in any length, gauges, special finishes, and head lift assemblies are optional on any model. Call for information on vessels having other pressure services, 304SS, or other materials of construction.



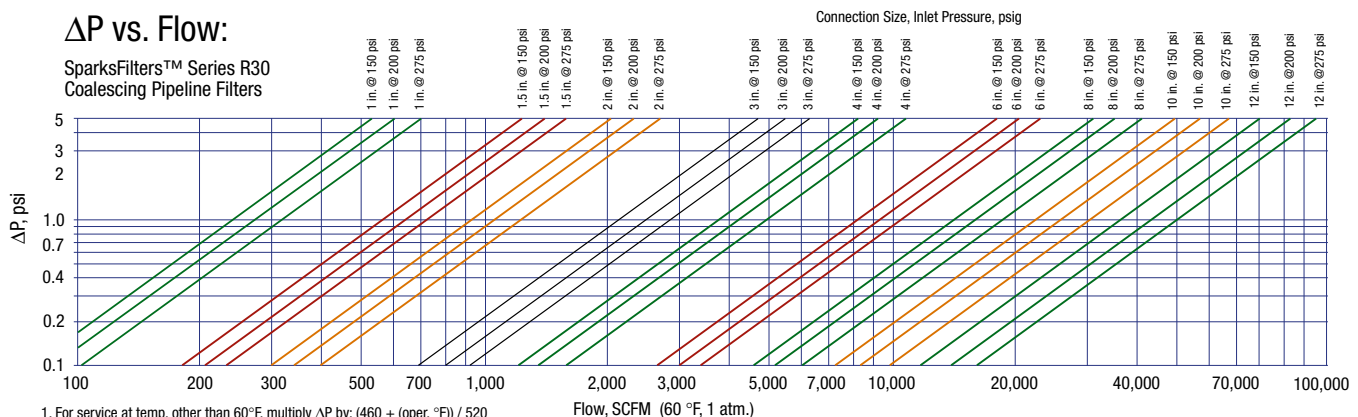
Coalescing filter in service cleaning an eight inch gas pipeline in the midwestern US.



Housing Model No.	Conn. Size	Conn. Type	Cover Style	Dimension in Inches				Wgt. Lbs.	Order Element No.
				OD	OH	C	Serv. Space		
R30-0200-MT-010	1"	MPT	Blind Flg.	6 $\frac{5}{8}$	24	16	16	130	321-1439WK907
R30-0201-MT-015	1 $\frac{1}{2}$ "	MPT	Blind Flg.	6 $\frac{5}{8}$	28	16	16	140	321-3235WK907
R30-0202-MT-020	2"	MPT	Blind Flg.	8 $\frac{5}{8}$	28	16	16	150	321-3236WK907
R30-0203-RF-030	3"	Flg.	Blind Flg.	8 $\frac{5}{8}$	39	20	24	200	321-3237WK907
R30-0204-RF-040	4"	Flg.	Blind Flg.	10 $\frac{3}{4}$	42	20	24	325	321-3238WK907
R30-0205-RF-060	6"	Flg.	Blind Flg.	12 $\frac{3}{4}$	51	24	26	500	321-3239WK907
R30-0206-RF-080	8"	Flg.	Blind Flg.	16	66	28	36	850	321-3240WK907
R30-0207-RF-100	10"	Flg.	Blind Flg.	20	76	32	36	1200	321-3241WK907
R30-0208-RF-120	12"	Flg.	Blind Flg.	24	78	36	39	1400	321-3242WK907

ΔP vs. Flow:

SparksFilters™ Series R30 Coalescing Pipeline Filters



For more information:

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Filter Vessel Options & Features

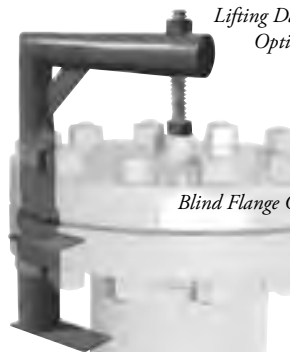
Hinges w/lift ring std.
above 35 lbs.



O-Ring Closure (Hinge std.)
Buna-N Gasket Std., Viton,
Teflon coated, EPDM gaskets
available.



Lifting Davits
Optional



Blind Flange Closure



Optional
Low Profile Lifting Davit.



Removable
perforated 304SS
Safety Screen sits
under (down-
stream of) filter
element(s) to guard against lost pens, stray
coins, and other undesirable items at time
of filter element change out.

*A Superior Finish! We use
a high gloss enamel that
has exceptional resistance to
fungus, salt air, and alkalis.
It is twice as costly as lesser
paints. Some competitors
use paints that are designed
instead to hide welding and
other fabrication defects. Our
standard grey finish is used on
all sheet metal filter housings.
Pressure vessels have a special
"clean white" interior finish. If
you have special requirements
for finishing, let us know.*

Resistance To:
2 % HCL No Effect
2 % NaOH No Effect
5 % Acetic No Effect
Lactic Acid..... No Effect
Mineral Oil..... No Effect
Salt Spray, 200 hrs..... No Effect
Flexibility 180°
Mandrel, 1/4" No Cracking
Fungus Resistance per Fed. Spec.
TTP-18, para. F-3g No Mildew



Our process and pipeline filters can be readily altered from standard design items, with special features and options to suit your requirements. This is a partial list of options. Call us with your special needs, we will be more than helpful.

• Closures, Hinges & Optional Lifting Davits.

We offer an exceptional O-Ring closure design up to 175 psig, and Blind Flange closures operating above 175 psig. Hinges are std. for blind flanges weighing more than 35 lbs., and lifting davits are available as well. Other closure options such as Threaded or Ring Joint Flange are also available. Teflon coated studs and nuts are available.

• Gauge Connections, Support Legs...

Legs are std. on many vessels. Differential pressure gauges, level gauges, and/or switches, adjustable support legs, pipe legs, special NDE (Non Destructive Examination ...like X-ray), mixed metals of construction, ie. stainless steel clean side, and other requests to meet the needs of your specific service environment are available, just ask.

• Superior Wall Thickness of Shells & Heads.

Minimum Schedule Std. Our 10" vessels have 0.365 walls where competitor's lesser drawn shells have only 0.120 to 0.130 walls. This means our vessels have much greater corrosion allowances, much more dependable closure seals, and eliminates shipping damage typical of drawn shell constructions.

• Stainless Steel Safety Cages are standard.

These removable cages have saved many a maintenance person who might have dropped a wrench or pen when changing out a filter element.

• Rust Inhibiting White Interior Enamel Standard !

Superior to clear coats. Everyone loves it! Sandblast and special finishes are available.

• Vessels Through 16" Diameter in a Hurry !

Our rapid 2 to 4 week delivery is legend!

• Detailed Approval Drawings are Fast!

Normally in a week, 2 weeks max. for complex requirements. (Yes, We do the tuff stuff! Try us.) We are very flexible on special orders and design modifications. Our non-code vessels are made from the same materials, quality and welding as our code vessels.

• ASME Code Stamp

Our companion organization, Rush Certified, Inc., is fully certified to provide the ASME Boiler & Pressure Vessel Code "U" Stamp as required by most states for unfired pressure vessels exceeding 15 psig. Each vessel is registered with the National Board of Boiler Pressure Vessel Inspectors. Our code stamp allows design service to 3000 psig.

Most jurisdictions (see table) require certain vessels to comply with the ASME Code. It is the responsibility of the end user to verify the requirements within their jurisdiction, and to advise if vessels are to contain lethal substances, i.e. poisonous gases or liquids of such nature that very small amounts could be dangerous to life (mixed or unmixed with air). ASME Code Section VIII Div. 1 covers pressure vessels for containment of internal or external pressure (vacuum). You should consider need for ASME Cert. when:

(A) Vessels have an internal or external operating pressure of greater than 15 psi max. (no size limitation) or

(B) Vessels have an inside diameter of greater than 6 inches, without limitation on length or pressure.

* Only portions of code.

Tabulation of the Boiler & Pressure Vessel
Laws of the US & Canada Jurisdiction VIII(1)

AL.....Y	MO.....Y	WV.....N
AK.....N	MT.....N	WI.....Y
AZ.....N	NB.....Y	WY.....Y
AR.....Y	NV.....Y	Alb.....Y
CA.....Y	NH.....Y	B.C.....Y
CO.....Y	NJ.....Y	Man.....Y
CT.....N	NM.....N	N.B.....Y
DE.....Y	NY.....Y	N.F.&L.....Y
FL.....N	NC.....Y	NW.T.....Y
GA.....Y	ND.....Y	N.S.....Y
HI.....Y	OH.....Y	Ont.....Y
ID.....Y	OK.....Y	PE Is.....Y
IL.....Y	OR.....Y	Que.....Y
IN.....Y	PA.....Y	Sas.....Y
IA.....Y	PR.....Y	Y.Ter.....Y
KS.....Y	RI.....Y	Albuquerque... N
KY.....Y	SC.....N	Des Moines... N
LA.....N	SD.....N	Miami.....Y
ME.....Y	TN.....Y	New Orleans... Y
MD.....Y	TX.....N	Tucson.....Y
MA.....Y	UT.....Y	Univsty Cty....Y
MI.....Y*	VT.....Y	Dade Co.....Y
MN.....Y	VA.....Y	Jeff Parish.....Y
MS.....Y	WA.....Y	St Louis Co....Y
		Dist.of Clmb....Y

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• The service space requirements are shown on the sales drawing for your project. Ample space should also be allowed for easy access, disassembly, and inspection of the filter and its components.

• The filter should be mounted in an upright vertical position with the legs on a level foundation. To prevent movement the legs may be bolted or lagged. Small or special design filters may be mounted or supported by other means with the consent of the factory.

• Special care should be taken in the design and installation of the piping to the filter. The piping system should be sufficiently sized to minimize ΔP . Most piping systems are sloped to accessible drain points.

• Instrumentation of some type is common for most filter systems in the form of gauges, sensors and/or switches. The use of instruments can save time and money reducing visual inspections. Typical change out is between 5 & 10 PSI differential.

• All systems should be carefully pressure tested, inspected, and cleaned before being placed in service. Many process systems require special purging or pickling, and may require filter changes or special start-up cartridges for this procedure.

ASME U Stamp: Yes / No _____

Gas Type: _____ Air _____ Nat Gas _____ other _____

Gas Spec. Grav.: _____ (if other than air)

Flow:

Normal Flow: _____ SCF/ _____ (Min., Hr., Day)

Maximum Flow: _____ SCF/ _____ (Min., Hr., Day)

Connections:

Inlet Size _____ Inch

Inlet Type _____ (MPT, Flange & Type, etc)

Outlet Size _____ Inch

Outlet Type _____ (MPT, Flange & Type, etc)

Outlet elevation _____ inches above inlet C.L.

_____ (std. is same C.L.)

Inlet Location _____ (std is @ 90°)

Outlet Location _____ (std is @ 270°)

Materials of Construction:

Carbon Steel _____ (Yes / No)

304L _____ (Yes / No)

316L _____ (Yes / No)

other: _____

Pressure:

Design Pres. _____ PSIG

Operating Pres. _____ PSIG

Flange Rating _____ ANSI

Temperature:

Design Temp. _____ ° F

Operating Temp. _____ ° F

Other Ports:

Vent Size, inch _____ Type: _____

Drain Size, inch _____ Type: _____

ΔP Taps Size, inch _____ Type: _____

Cover Options:

w/Hinge & Lug _____ (Yes / No)

w/HeadLift Davit _____ (Yes / No)

Legs: (std is 3 @ 90°, 210°, 330°) _____ (3 or 4)

Tank Gasket:

Std _____ (Yes / No)

other _____

Filter Element:

Cat. No. _____

Reten. Needed _____ μ (micron)

Details & Special Requirements: _____

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Select either Hinged Swing Bolt Closure Shown Above, or Hinged Flange Closure shown below.

