

R101™ Mini

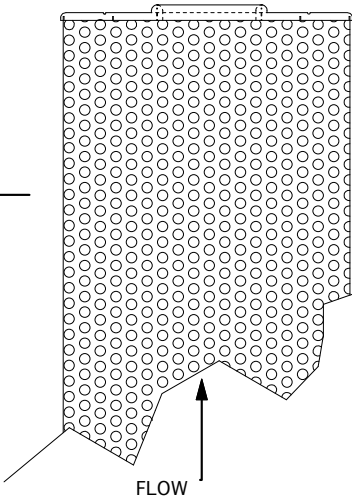
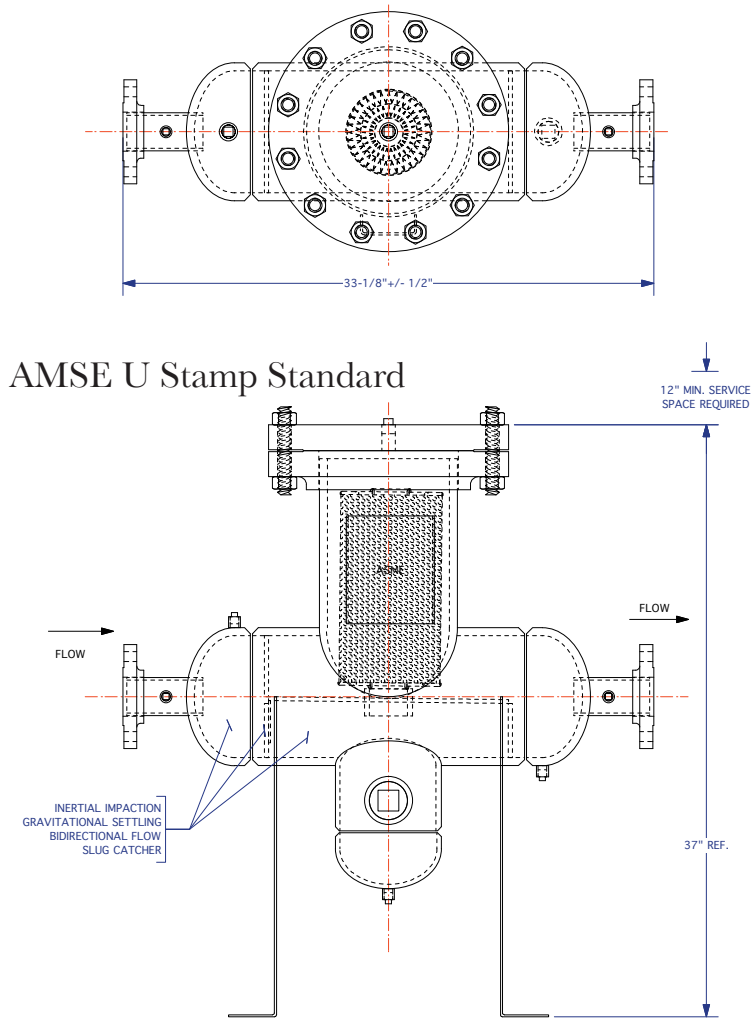
Multiple Stage Pipeline Filter/Coalescer



Built upon our huge success (over 300 in service) of R100™ filter vessels, now introducing the patent pending R101™ mini with patented possiseal™ threaded elements.

Horizontal vessels with vertical oriented coalescing filter elements, multi-stage filtration including gravitational settling, inertial impaction, particulate and coalescing sub micron filtration. Integral slug catcher with (2) sump holding chambers. Ease in maintenance and service. Hundreds in successful service. Vertical filtration (not horizontal or vane packs) proven best in coalescing. Quick opening closures - no tools (compressors or impact tools) required.

All aspects - design, welding, testing, filter manufacturing completed at Shawndra. - ASME VIII Div 1 and ASNT SNT TC1A Level I, II, III.



Patented Element Design
Patent Pending vessel Design

Patent No. 7924160B2
Possiseal™ Threaded

- Notes:
- 1.) Primary tortuous path - intercept and hold solid particles & small drops
 - 2.) Secondary propagation - Coalescence - Impaction - collide and unite
 - 3.) Course Growth - Reduction in flow velocity - increase & maximize size/mass of droplets
 - 4.) Final Growth - Hydropholic foam holds droplets until large enough for Gravity to take effect & drop into sump.
 - 5.) 10 PSI differential max.

Model R101™ -0135-RF-020 Blind Flange Closure
ASME U Stamp
MAWP = 720 psig @ - 20 to + 100 deg F
675 psig @ - 20 to + 200 def F

Model R101™ -0136-RF-020 Hammer Union Closure
ASME U Stamp
MAWP = 720 psig @ - 20 to + 100 deg F
675 psig @ - 20 to + 200 def F

Standard Finish:
Internal - Lightly Oil (Optional - Fast Clad White Urethane)
External - Black (Primer - White Epoxy; Finish Black Urethane)

Independant Lab Tested:

Particulate:	Liquid:
99% 0.7 Micron	99% 0.7 Micron
99.5% 1 Micron	99.3% 1 Micron
99.9% >5 Micron	99.9% >5 Micron

Applications:

Any Air / Gas stream where moisture and/or particulate matter needs to be removed.

Can also be fitted with SulfuRid™ element to also remove small amounts of H₂S (Due to vessel size - 10 ppm max.)

Inlet Pressure (PSI)	ΔP 1 PSI Clean SCFM	Differential SCFD	ΔP 2 PSI Clean SCFM	Differential SCFD
50	500	720 MCFD	800	1.2 MMCFD
100	700	1 MMCFD	1000	1.44 MMCFD
200	1000	1.44 MMCFD	1600	2.4 MMCFD
300	1400	2 MMCFD	1800	2.6 MMCFD
400	1500	2.2 MMCFD	2000	3 MMCFD
500	1700	2.5 MMCFD	2200	3.2 MMCFD
600	1800	2.6 MMCFD	2400	3.5 MMCFD
700	2000	3 MMCFD	2800	4 MMCFD