

proMESH™

Woven Metal Mesh Screen

RGL's proMESH is a sand control device (SCD) designed for more challenging reservoirs with non-uniform sand and higher fines and clay content. The engineered multi-layer screen provides a high flow efficiency that resists plugging and offers a high retained permeability. It is available for a variety of micron ratings and metallurgies.

RGL's proMESH design and manufacturing processes are formulated and tested to increase the integrity of the sand control media for high dog-leg wells and extended reach horizontal wells. proMESH offers a variety of filtration layers engineered and selected specifically for the reservoir sand print and flow dynamics of the application. The layers reduce localized high velocity points and lower the risk of screen erosion and premature failure.

proMESH is manufactured in an API Q1™ and ISO 9001:2015 certified facility.



Features and Benefits

- Large open flow area (in excess of 20% or more) with high solid retention and retained permeability
- Available in high alloy stainless steel and Ni alloys
- Plugging-resistant design and high erosion resistance
- High strength slotted or perforated basepipe
- High flow rate with low pressure drop
- Flexibility in design and production

Applications

- Openhole standalone completions
- Remedial sand control
- Cased and perforated completions
- Horizontal, deviated, and vertical wells
- Producer, injector, and infill wells
- Ideal for high-flow wells with high GOR

Options

- RGL proLAB™ Sand Control Lab Testing and modelling
- High-grade alloys
- Custom slotting and perforating patterns
- Multiple casing grades available with 13 Chrome and 28 Chrome coating options
- Finite Element Analysis (FEA) for installation and thermal loadings
- Patented non-welded or welded end caps
- Direct Wrap or Slip-on Jacket
- Available in ultra-fine (<100µm), fine (100µm<>200µm), medium (200µm<>300µm), and coarse (>300µm)



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Technical Specifications									
proMESH™ Technical Data	Description	Basepipe Size, in. (mm)							
		4.5 (114.3)	5 (127)	5.5 (139.7)	6.5 (168.23)	7 (177.8)	8.63 (219.08)	9.63 (244.48)	
	Basepipe Weight	kg/m	17.26	22.32	25.3	35.72	34.23	53.57	59.53
		lb/ft	11.6	15	17	24	23	36	40
	Base pipe ID	mm	101.6	111.96	124.26	150.40	161.7	198.76	224.4
		in.	4	4.408	4.892	5.921	6.366	7.825	8.835
	Joint length	m / ft	Range 1- Range 3: 4.88 - 14.63 / 16 - 48						
	proMESH™ OD	mm	Varies						
	Screen length	°C / °F	2.88 - 12.63 / 9.45- 41.44						
Filtration media type	-	Woven Metal Mesh							
Weave Type	-	Engineered to Fit Application							
Basepipe	Port diameter	mm / in.	9.5 or 12.7 / 0.375 or 0.5						
	*Ports/unit length	/m	210	236	262	289	315	341	420
		/ft	64	72	80	88	96	104	128
	*Total basepipe port flow area	m ² /m	0.015	0.017	0.019	0.021	0.022	0.024	0.030
		in ² /ft	7.07	7.95	8.84	9.72	10.60	11.49	14.14
	Basepipe capacity (axial)	m ³ /m	0.008	0.010	0.012	0.018	0.0205	0.031	0.040
ft ³ /ft		0.087	0.106	0.131	0.191	0.221	0.334	0.426	
OFA of basepipe	%	3-5							



Notes: Specs and illustrations for reference only. Dimensions are subject to change. Smaller pipe sizes for remedial application are available.

Additional Product Information:

****Based on port diameter of 9.5 mm / 0.375 in.**

Additional base pipe and screen specifications are available upon request.

