RigDeluge[®]

Free Flow Nozzle™ MKI 6" Heat Suppression Nozzle

The RigDeluge® Award Winning Patented Free Flow Nozzles[™] have been developed through 20 years real time experience in the rig cooling / heat suppression industry designed to attenuate thermal radiation to within the safety parameters set in API 521 and align with firefighting codes API 14G and good engineering practices ASME B31.1: 2010. They attenuate thermal radiation to a greater level than 90% transmissivity (0.1t) and operate without blocking where debris and delivery line contaminants are present allowing for a consistent barrier to be implemented against the adverse effects of thermal radiation.





6" FFN Flanged



Design Details:

Certified By Bureau VERITAS:	6.0" Cert No 12ABD61732 Rev. A
Design Working Pressure:	1 - 16 bar Max (10-16 Bar for Heat Suppression Activities)
Design Test Pressure:	30 Bar
Service:	Sea Water
Design Reference:	API 521 / ASME B31.3 2012 / API 14G 2007
Materials:	Stainless Steel (GR. 304) Yield ≥ 210 Mpa; Tensile ≥ 520 Mpa
Thermal Attenuation:	90% +
Profile Angle:	5 Degree
Profile Diameter:	36.5 Meters
K-Factor:	993 @ 16 Bar (3140Lpm (830USGPM))
Weight:	24Kg







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B U R E A U V E R I T A S

Company Registration: 425439

VAT Number: 137709300



Free Flow Nozzle™ MKI 6" Heat Suppression Nozzle

PROVEN TECHNOLOGEY



Boom Plate Temp 9.9°C @ 25ft

Air Temp Below 1°C @ 25ft

A safe working environment and escape route is created for personnel while ensuring the integrity of the asset and the environment.

Designed specifically to attenuate the high levels of thermal radiation produced through the ever green well test burner heads.

No longer do designers of heat suppression systems have to use nozzles designed for low pressure deluge systems they can now use nozzles proven and independently witness tested to be the most effective and efficient heat suppression nozzle in the industry.





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When utilised with the RD44® you will have the only fully certified flare boom deluge system in the world. Noted also as the safest and most efficient flare boom cooling system in the world. (PROVEN)



RD44® Patents: GB2501945 - GB2510757

INDUSTRY BENEFITS:

- Operates with debris in delivery line fluid (Salt Water Bi-Products)
- Proven Attenuation of greater than 90% thermal attenuation
- Efficient water utilisation
- Water profile forces water away from structures reducing salt water contamination
- Water profile forces water away from personnel allowing for safer passage and work activities
- Operates efficiently at 10 Bar Pressure
- Reduced None Productive Time
- Debris management built in
- Independently Certified
- Complies to API 521 Safety Parameters
- Complies with API 14G
- Designed to ASME B31.3
- Sea Water Compliant
- Utilised with RD44® Clear Flare Boom Walk Way
- Utilised with RD44® Certified Flare Boom Deluge System
- Utilised with RD44® Reduced Installation and Rig Down time
- Utilised with RD44® No Crane Requirements

20 Years' experience in the field of rig cooling and heat suppression has allowed all lessons learnt and problems encountered with these systems and operations be considered while designing the Free Flow Nozzles[™]. Risks encountered through this period have been mitigated and reduced where efficiency and performance cannot be matched.







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