



MARSOL
TECHNOLOGIES

DIFF NOZZLE K3GS





ABOUT MARSOL

MARSOL Technologies, Inc., based in Houston, Texas, USA, specializes in designing, manufacturing, and implementing firefighting, safety systems, and related products for onshore, offshore, and marine industry applications. Our ethos is centred on delivering solutions that exceed minimum compliance requirements and ensure safety critical performance.

PRODUCT SERVICE SUPPORT

- 🔧 DiFFs Nozzles
- 🔧 Foam / Deluge Skid
- 🔧 Foam Concentrates
- 🔧 Control Equipment
- 🔧 Custom Engineering
- 🔧 System Integration
- 🔧 Factory Approval Testing
- 🔧 Field Service and Technical Support

PRODUCT OVERVIEW

Marsol K3GS series nozzles are designed to be used as part of Deck Integrated Fire Fighting Systems (DIFFS). An array of these nozzles installed on the helicopter landing area provides an effective spray distribution covering the whole deck surface for a range of weather conditions. The nozzles are manufactured with orifices drilled for horizontal and vertical flow components. The nozzles do not 'pop-up' on the deck and instead, discharge foam from their fixed position. The precise number and layout of nozzles is dependent on the specific helipad / heliport / helideck "D" value and type. The flow rate of the nozzle and its coverage. As required by the standard there will be sufficient overlap of the horizontal flow components when all the nozzles are discharging during the system operation.

Since the nozzle is a non-pop-up, the condition of a blocked nozzle is not relevant (as required in CAP-437). However, if there is a blocked flow (due to a heavy object resting on top of the nozzle); then the foam will continue to flow out from the side orifices of the nozzle.

KEY FEATURES



- NON-POP-UP NOZZLE
- SS-316L
- RANGE OF 'K' FACTORS
- SIMPLE INSTALLATION
- EASY, REDUCED MAINTENANCE
- STRAIGHTFORWARD PIPE SYSTEM TESTING
- QUICK REPLACEMENT OF NOZZLES

Certifications

- American Bureau of Shipping (ABS)
- Civil Aviation Authority (CAAi-UK)
- Directorate Gen. of Dubai Civil Defense (DCD)
- United States Coast Guard (USCG)
- Underwriters Laboratory (UL and ULC)

Standards

- CAP-437
- CAP-1264
- NFPA-418
- CAR-325
- ABS MODU / Marine Vessels
- IMO MSC 1./Circ. 1431 (2012)
- NORSOK, S-001: 2020+AC
- United States Coast Guard (USCG)
- HSAC-RP161
- ICAO-Annex. 14
- ICAO-9261
- Saudi Aramco HSERM

UL Listing is in conjunction with below foam Concentrates

AFFF Foam Concentrates

- Solberg Arctic 3% AFFF
- Solberg ARCTIC 3% MIL SPEC AFFF
- Fomtec AFFF-1% ULTRA LT
- Fomtec AFFF-3% ULTRA LT

Non-Fluorinated Foam Concentrates

- Solberg, RE-HEALING, RF3, 3%



SPECIFICATION

Design Pressure	20 bar (290 psi)	Pipe Diameter	40 mm (1 ½")
Flow Tolerance	±5%	Material	SS-316L
Horizontal Coverage	8 meters (26 feet)	Working Pressure	4 bar (58 psi)
Vertical Coverage	7 meters (23 feet)	Outer Body Finish	Painted
Weight	1.57 Kg (3.46 lbs)	'O'-Ring	NBR

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