

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00001WZ**  
Revision No:  
**1**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

## This is to certify:

**That the Dual-purpose type nozzles (spray/jet type): Hand-held branch pipes for fire service use - Smooth bore jet and/or one fixed spray jet angle branch pipes PN 16**

with type designation(s)  
**HS 12, HS 16, HS 20**

Issued to

**AWG Fittings GmbH**  
**Ballendorf, Baden-Württemberg, Germany**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2021/1158,**

**item No. MED/3.55b. SOLAS 74 as amended Regulation II-2/10 & X/3, 1994 HSC code 7 & 2000 HSC code 7**

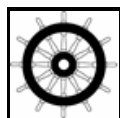
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-10-26**.

Issued at **Høvik** on **2021-10-27**

DNV local station:  
**Augsburg**

Approval Engineer:  
**Helge Bjørnarå**



Notified Body  
No.: **0575**



for **DNV AS**

Digitally Signed By: Sæle-Nilsen, Dag

Location: DNV Høvik, Norway  
on behalf of

**Sverre Olav Bergli**  
**Head of Notified Body**



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

“HS 12, HS 16, HS 20”

are smooth bore and one fixed spray angle branchpipes. They generate a defined smooth straight jet or a defined wide spray jet, only these two jet types are marked on the nozzle. The hand-held branchpipes are comprised of a fitting system and a nozzle with a twistable head operating both the open/shut-off function and the jet/spray system by rotating the head between 0° and 120°.

Type	HS 12	HS 16	HS 20
Outlet opening diameter [mm]	12	16	20
Type of spray	Full cone	Full cone	Full cone
Maximum working pressure $\rho_N$ [bar]	16	16	16
Standard working pressure $\rho_R$ [bar]	6	6	6
Flow rate [lpm] at $\rho_R$	228	230	378
Throwing range [m] at $\rho_R$	27.5	30.2	32.2
Spray angle at $\rho_R$	54°	42°	53°

For further details, see drawings and test reports stated under Type Examination documentation below.

## Application/Limitation

Approved for use throughout the fire main.

The dual-purpose nozzle may be equipped with fixed couplings as well, if the operability of the nozzle does not get impaired.

Each product is to be supplied with its manual for use and maintenance.

## Type Examination documentation

Test report No. LW 002/11 dated 16 June 2011 from TZW, Karlsruhe, Germany.

Test report No. LW 003/11 dated 16 June 2011 from TZW, Karlsruhe, Germany.

Test report No. LW 004/11 dated 16 June 2011 from TZW, Karlsruhe, Germany.

Drawing list dated 18 January 2011 provided by AWG, stamped by TZW 14 June 2011.

## Tests carried out

Satisfies NS-EN 15182-1:2019 and NS-EN 15182-3:2019.

(Tested according to NS-EN 15182-1:2007+A1:2009 and NS-EN 15182-3:2007+A1:2009).

## Marking of product

The product is to be marked acc. to EN 15182-1 Ch. 8.2 and in addition with the MED Mark of Conformity, Notified Body No. and the year of manufacturing (see first page).