



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00007GU
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Dual-purpose type nozzles (spray/jet type): Hand-held branch pipes for fire service use - Combination branch pipes PN 16

with type designation(s)
Y12, Y16 and Y19

Issued to
Shanghai Yibei Safety Equipment Co. Ltd.
Shanghai, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 7**,
item No. UK/3.55a. 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 **2026-11-14**.

Issued at **London** on **2023-07-20**

DNV local unit:
Shanghai



for **DNV UK Ltd.**

Approval Engineer:
Tessa Biever

Approved Body No.: **0097**

Christine Mydlak-Roeder
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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

'Y12, Y16 and Y19',

are hand-held combination branch pipes of types Y12, Y16 and Y19 fall into type 1 "adjustable pattern at variable flow" as per EN 15182-1:2019 Annex A. An open and shut-off device is accommodated in a twist shut-off nozzle.

Main components and their material are as follows:

Component	Material
Holder	Polyoxymethylene reinforced with glass fibres
Body	CuZn40Pb2 plated with chrome
Head	NBR
Plate	polyamide
Stick	316
Bolt	316
Nut	316

Performance is as follows:

Parameter \ Type	Y12	Y16	Y19
Nominal pressure [bar]	16	16	16
Reference pressure [bar]	6	6	6
Flow rate at straight jet ¹⁾ [l/min]	236	336	382
Flow rate at wide spray jet ¹⁾ [l/min]	583	590	581
Angle of a wide spray jet [°]	114	115	116
Effective throw ¹⁾ [m]	28.5	31	32

1) At reference pressure of 6 bar.

Application/Limitation

Approved as dual-purpose nozzle (spray/jet type) with incorporated shut-off device for fire service use throughout fire main when coupled to fire hoses (SOLAS Reg.II-2/10.2.3.3.4 and 2000 HSC Code Ch.7.7.5.6).

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

Type Examination documentation

Drawings No. 21011001 Rev.V1 dated 2021-11-09 from manufacturer.

Test report No. Cn202100513 dated 2021-05-13.

Test report No. Cn202100514 dated 2021-05-13.

Test report No. Cn202100515 dated 2021-05-13.

Test report No. Cn202100516 dated 2021-08-30.

General description datasheet No. YBMA21051 dated 2021-05-23 from manufacturer.

Instruction and maintenance book No. YBMA21052 dated 2021-09-28 from manufacturer.

Tests carried out

Tested as per EN 15182-1:2019 and EN 15182-2:2019.

Marking of product

The product or packing is to be marked according to EN 15182-1, 8.2 and the UK Mark of Conformity (see first page).