

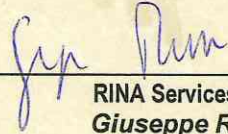


TYPE APPROVAL CERTIFICATE
No. MAC139615XG

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	MECHANICAL JOINTS FOR PIPES
<i>Type</i>	MEGAPRESS; EPDM and HNBR
<i>Applicant</i>	VIEGA GMBH & CO.KG VIEGA PLATZ 1 D-57439 ATTENDORN GERMANY
<i>Manufacturer</i>	VIEGA GMBH & CO.KG
<i>Place of manufacture</i>	VIEGASTRASSE 1 D-99518 GROSSHERINGEN GERMANY
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules
<i>Reference documents</i>	RINA TYPE APPROVAL SYSTEM

Issued in **Hamburg** on **October 1, 2015**. This Certificate is valid until **September 30, 2020**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

MEGAPRESS

EPDM and HNBR

Reference documents

- MPA Test Report 120003993 dated 30/7/2012
- IHA Fire Resistance Test 006-12,007-12 dated 04/7/2012
Fire Resistance Test 0086-12 dated 05/7/2012
- Operating Installation Guidelines , Technical Documentation

Description of the component

Press Fitting Systems in Carbon Steel

Technical characteristics

Fittings	:	Specially shaped carbon steel fittings (exterior zinc nickel coating) sealed with a grip ring, separator ring and sealing element
Material	:	Carbon steel E235 (1.0308 / st35) , E195T (1.0026)
Pipes	:	Black, complete galvanized, industrially coated, powder coated pipes acc to DIN EN 10255, ASTM A53, A 106, A135, A795
Sizes [mm]	:	According to DIN EN 10255, 10220, 10216-1, 10217-1.
Sizes [in]	:	According to ANSI/ASME B36.10M
M.A.W.P [MPa]	:	1.6
M.A.W.T. [°C]	:	EPDM : 0 up to 110 (32° F up to 230° F) HNBR : -40 up to 80 (-40° F up to 180° F)
Pipe O.D. [mm]	:	17.2 up to 60.3 (1/2 up to 2 inches)

Fields of application (not for potable water)

• Fresh water :	water spray systems, cooling water systems, condensate return, foam-,wet-sprinkler-systems and non essential systems, foam sprinkler
• Sanitary /drains / scuppers :	deck and pool drains [internal], sanitary drains, scuppers and discharge [overboard], closed domestic warm water heating, low pressure steam
• Sounding / vent :	water tanks, dry spaces, oil tanks (flash point >60°C)
• Flammable fluids : (flash point > 60°C)	cargo oil lines, fuel oil lines,hydraulic oil lines,thermal oil. (temperature < 60°C)
• Inert gas :	water seal effluent lines, scrubber effluent lines, main lines, distribution lines.
• Miscellaneous :	brine, control air, service air (non essential) air conditioning systems (media: condensed water, ethylene glycol), foam system, water mist.

Remarks

For gaseous and liquid media which will not obstruct the press fitting system or attack carbon steel, synthetic rubbers respectively. The selection of the fittings, pipes and O-rings for the corresponding application and the right mounting with the stipulated pressing tools is to be in accordance with the instructions of the manufacturer
The manufacturer's list of the chemical resistance of the piping components is to be observed
VIEGA MEGAPRESS (EPDM & HNBR) press fitting system may not be used in piping systems of class I and II

Acceptance Conditions

Installation of the piping system is to be carried out in accordance with the instructions of the manufacturer and the installation requirements of the IMO resolution respectively.
handling instructions for pipes and fittings are to be observed.
The acceptance of the a.m. products on board ships and other units classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules.
The use of the products outside the range of application underlines the special consideration by RINA in each individual case.

Hamburg October 1, 2015

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Signature