

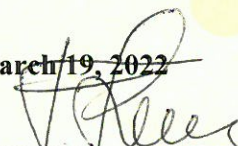


**TYPE APPROVAL CERTIFICATE**  
No. MAC050717CS/006

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

<i>Description</i>	<b>Flanges for piping</b>
<i>Type</i>	<b>FLANGE SERIES 6000 psi 2 ½" CFS408 AND 3" CFS410 2 ½" C408..FF AND 3" C410FF</b>
<i>Applicant</i>	<b>OFFICINE MECCANICHE CIOCCA S.P.A. VIA TREVIGLIO, 44 24053 BRIGNANO DI GERA D'ADDA (BG) ITALY</b>
<i>Manufacturer</i>	<b>OFFICINE MECCANICHE CIOCCA S.P.A.</b>
<i>Place of manufacture</i>	<b>VIA TREVIGLIO, 44 24053 BRIGNANO DI GERA D'ADDA (BG) ITALY</b>
<i>Reference standards</i>	<b>Part C, Chapter 1, Section 10 of RINA Rules</b>
<i>Reference documents</i>	<b>RINA TYPE APPROVAL SYSTEM</b>

Issued in **Genoa** on **March 20, 2017**. This Certificate is valid until **March 19, 2022**

  
RINA Services S.p.A.  
**Francesco Sciacca**

This certificate consists of this page and 1 enclosure



**TYPE APPROVAL CERTIFICATE**

No. **MAC050717CS/006**

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**FLANGE SERIES 6000 psi**

**Reference documents**

CIOCCA drawings Nos. CFS410 and CFS408 approved with Nos. 4367310 and 4367311 on 10/05/2000, valid both for the flanges type CFS.. (with "O" ring groove and through holes) and for the counterflanges C..FF (without "O" ring groove and with thread holes).

**Materials**

Steel ASTM A105 / ST52.3

"O" Ring : Rubber NBR 90 shore

Bolts M24 Class 12.9 (12K) for flanges of 2½"

Bolts M30 Class 12.9 (12K) for flanges of 3"

**Field of application**

Hydraulic Systems

Maximum Allowable Working Pressure : 420 bar

**Acceptance conditions**

The connection of the flanges to the pipes is to be carried out according to RINA Rules Pt. C, Ch 1, Sec.10 Figure 1 and Table 14 with regard to piping service and to class of piping, using welding procedures approved by RINA and welders authorized by RINA.

The flanges are to be installed in accordance with Manufacturer's requirements.

The acceptance of flanges on board ships and other units classed with RINA is subject to satisfactory outcome of testing as per RINA Rules

**Tests carried out**

Bursting test pressure as per RINA Tests Report n. 99/CS/235/TO dated 02 March 2000.

**Remarks**

This Certificate annuls and replaces the previous one issued with No. MAC388611CS/006 on 19/12/2011.

Genoa March 20, 2017

  
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