

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Flowmeter**

with type designation(s)

SBM 32, SBM 75 BM 200, BM 400, BM 600, LBM 1000, LBM 1100, LBM 3000,

Issued to

Isoil Impianti S.p.A.**Albano S. Alessandro BG, Italy**

is found to comply with

**GL Rules for Classification and Construction VI - Additional Rules and Guidelines Part 7 -
Guidelines for the Performance of Type Approvals Chapter 8 - Test Requirements for
Components and Systems of Mechanical Engineering and Offshore Technology****Application :****Products approved by this certificate are accepted for installation on all vessels classed by
DNV GL.****Type:****SBM 32, SBM 75 BM 200, BM 400, BM 600,
LBM 1000, LBM 1100, LBM 3000****Temperature
range:****-30 [°C] up to
170 [°C]****Max.
working
press.:****10 bar up
to 30 bar****Sizes:****DN 40 up
to DN 250**This Certificate is valid until **2020-02-02**.Issued at **Hamburg** on **2016-02-17**DNV GL local station: **Milan**Approval Engineer: **Peter Gierhan**for **DNV GL**

Olaf Drews
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-021674-1**
Certificate No: **TAP0000095**

Production Places

Isoil Impianti S.p.A.
Via Madonna delle Rose, 74
24061 Albano S. Alessandro
ITALY

Material

Body & Flanges: Steel cast according to ASTM A216, ASTM A351, ASTM A516, ASTM A436
Vanes: Graphite, Rilsan, Teflon, Aluminium
Gasket: Viton, Nitrile, Teflon
Bearings: Stainless Steel, Carbon Steel, Graphite

Technical Data

Max. working pressure: SBM 32, SBM 75: 10 bar
BM 200, BM 400, BM 600: 20 bar
LBM 1000, LBM 1100, LBM 3000: 30 bar

Temperature range: Gasket Viton: -25 [°C] to 170 [°C]
Gasket Nitril: -30 [°C] to 100 [°C]
Gasket Teflon: -30 [°C] to 100 [°C]

Application/Limitation

The flowmeters may be used in water piping systems, fuel oil, lubricating oil and hydraulic oil piping systems on ships as well as off-shore installations.
The selection of the flowmeters for the corresponding application and the right installation are to be in accordance with the Regulations of the manufacturer.

Type Approval documentation

Tests carried out

Vibration Test No.: VIBP 08_019, dated: 2008-07-08
Tightness Test No.: 1533, dated: 2015-12-18
Functional Test, dated: 2008-07-25

Marking of product

For traceability to this type approval the products are to be marked with:

- Manufacturer's name or trade mark
- Type designation
- Size

Periodical assessment

For retention of the Type Approval, DNVGL surveyor shall perform a survey every second year and before the expiry date of this Certificate to verify that the conditions of the type approval are complied with.