



Certificate no.:
TAP00002ZE

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Globe Valve

with type designation(s)
GFLO

issued to

MASCOT Industrial Technology(Shanghai) Co.,Ltd.

,

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems

DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021

DNV class programme DNV-CP-0186 – Type approval – Valves

Application:

Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV.

Temperature range: -50°C to 250°C

Max. working press.: Class 300

Sizes: 6"

Issued at **Høvik** on **2025-08-21**

This Certificate is valid until **2030-08-20**.

for **DNV**

DNV local unit: **Shanghai**

Approval Engineer: **Jane Lozanov**

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.

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 USD 300 000.

Product description

Globe control valve design according to ASME B16.34 (class 300).

Description	Two-piece flanged end globe valve
Designation	GFLO
Body thickness	ASME B16.34
End connection	Flange acc. to ASME B16.5
Face to face	ASME B16.10
Sizes	6"
Leakage Class	IV as per IEC 60534-4 (ANSI FCI 70-2).
Part	Material
Body	ASTM A-351 – CF8M, CF8, CF3M, CF3
Plug	ASTM A-276 – 304, 316, 316L
Stem	ASTM A-276 – 304, 316, 316L
Bonnet	ASTM A-276 – 304, 316, 316L
Bonnet flange	ASTM A-351 – CF8
Seat	ASTM A-276 – 304, 316, 316L
Packings	Graphite
Gasket	316+Graphite

Application/Limitation

Valves covered by this certificate may be used in General machinery service.

Pressure temperature rating shall be according to ASME B16.34.

Materials and material protection chosen for the specific system shall be suitable for the intended medium and environmental conditions. Valves of austenitic stainless steel shall not be used in direct contact with seawater, reference is made to DNV Rules for Ships Pt.4 Ch.6 Sec 2.

The approval does not include actuator and/or other equipment for remote control of the valves.

The valves covered by this certificate are not to be considered fire safe and therefore shall not be installed wherever fire safe application is required, e.g. as shut off or quick closing valves.

Type Approval documentation

Production Testing and Certification

Production Testing and Certification for the actual intended application shall follow the latest applicable edition of the Rules (as mentioned on the front page of this certificate).

Marking of product

Minimum marking requirements shall be as outlined in the valve design standard.

Periodical assessment

The certificate is only valid if required periodical assessments are carried out with satisfactory results.

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338.

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>.

Manufactured by:

MASCOT Industrial Technology(Shanghai) Co.,Ltd.
China