



Certificate No:
TAP00002S1

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Ball Valve

with type designation(s)
Series 31, Series 32

Issued to

Habonim Industrial Valves and Actuators Ltd.
Kfar ha-Nasi, Israel

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.

Type:	Temperature range:	Max. working press.:	Sizes:
Series 31	-55°C to +230°C	Class 150	1/2" - 8"
Series 32	-55°C to +230°C	Class 300	1/2" - 8"

Issued at **Høvik** on **2023-09-11**

This Certificate is valid until **2028-09-10**.

for **DNV**

DNV local unit: **Haifa**

Approval Engineer: **Per Ola Nymoen**

Zeinab Sharifi
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.

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.



Form code: TA 251

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Product description

One piece flanged floating ball valves type 31 and 32 series, constructed according to ASME B16.34 with flange connections according to ASME B16.5.

Sizes covered: 1/2", 3/4", 1", 1 1/2", 2", 3", 4", 6" & 8"

Materials:

Body:	A351 CF8M
Ends:	A351 CF3M
Ball:	A351 CF8M
Stem:	ASTM A-479 XM-19-S (strain hardened)
Body gasket:	Graphite, TFM, PTFE
Seat:	TFM

Application/Limitation

Valves covered by this certificate may be used in under the following design conditions:

Service:	General machinery service
Temperature range :	-55°C to 230°C
Pressure rating:	31 Series: According to Class 150 in ASME B16.34. 32 Series: According to Class 300 in ASME B16.34.

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

The valves covered by this certificate are not fire tested and therefore shall not be installed wherever fire safe application is required.

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.

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

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.