



Certificate No:
TAP00002GH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pressure Regulator

with type designation(s)
J45 Spring Loaded Regulator

Issued to
THOMPSON VALVES LIMITED
Poole, Dorset, United Kingdom

is found to comply with
DNV rules for classification – Ships Pt.4 Ch.6 Piping systems
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: -40°C to +150°C
Max. working press.: 40 bar
Sizes: 1" BSPP

Issued at **Høvik** on **2022-02-24**

This Certificate is valid until **2027-02-23**.

DNV local station: **UK & Ireland CMC & VMC**

Approval Engineer: **Maheshraja Venkatesan**

for **DNV**

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

The J45B9SV Spring Loaded Pressure Reducer is used for the accurate control of outlet pressure, in low to medium pressure applications.

The Reducer is of the balanced pressure type - deriving its regulating force from the spring, which is adjusted by an adjusting screw to produce a pressure equal to the reduced pressure desired.

The Reducer is designed in accordance with EN 12516-2.

J45B9SV spring loaded pressure regulator consists of following main parts:

- Body – Stainless Steel BS EN 10272 (10088) 1.4401/1.4404
- Housing ring – Stainless Steel BS EN 10272 (10088) 1.4401/1.4404
- Body Plug – Stainless Steel BS EN 10272 (10088) 1.4401/1.4404
- Hex Head Screws – BS EN 3506 Grade A4-80 Stainless Steel
- Blanking Plug – Stainless Steel BS EN 10272 (10088) 1.4401/1.4404
- Adjusting Screw – M12 X 1.75 X 70 LG HEX HD SET SCREW, GRADE A4-70
- O-ring, Diaphragm – Viton

Application/Limitation

This valve is intended to be part of a system containing the requisite inlet and outlet isolation valves, gauges and safety devices. It is intended that the valve be supported on the connecting pipeline.

The valve is not designed specifically to function without any effect from shock loads incurred as a result of adverse traffic, wind or seismic conditions.

The valve is not subject to fluctuating internal pressure.

Material body	Austenitic Stainless Steel
Primary pressure (inlet)	40 bar
Secondary pressure (outlet)	2.8 bar to 28 bar
Temperature range	-40°C to +150°C

Type Approval documentation

Production Testing

The pressure regulator shall be subject to a pressure test at 1.5 times the maximum working pressure and shall be delivered with the pressure test report with reference to the type approval certificate.

Marking of product

For traceability to this type approval, each pressure regulator is to be marked with:

- Manufacturer's name
- Type and Size
- Part Number and Serial Number
- Inlet pressure and Outlet pressure range
- Temperature range

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.