

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Gas Cylinder Valves**with type designation(s)
YFC-2900

Issued to

Young Do Ind. Co. Ltd.
Busan, Republic of Korea

is found to comply with

DNV GL class programme DNVGL-CP-0186 – Type approval – Valves
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems**Application :****Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV GL.****Max. working pressure 190 bar****Temperature range: max. 200°C****Sizes: Ø12**Issued at **Høvik** on **2019-10-08**This Certificate is valid until **2023-06-30**.for **DNV GL**DNV GL local station: **Busan**Approval Engineer: **Rob Oerlemans**

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.



Product description

Valve for High Pressure CO2 Gas Cylinder acc to standard CGA S-1.1-2011 Type CG-1 Rupture disc.
Pneumatic actuated but may also be manually operated.

Valve type designation:	YFC-2900
Inlet / Outlet:	W28.8 / W21.8-1/14"
Bursting disc:	190 Bar
Materials:	Body: Brass – JIS H3250 C3771BE
	Safety nut: C3604BD or C3771BE
	Safety plate: Nickel
	Seat: 66Nylon+ Fiberglass(13%)

Application/Limitation

For High pressure CO2 Fire Extinguishing System.

Type Approval documentation

Tests carried out

Marking of product

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

- manufacturer's name or trade mark
- valve type designation
- size
- maximum design pressure and temperature

Production Testing

Each valve shall be subjected to:

- The valve housing of each valve shall be subjected to a hydrostatic pressure test at minimum 1.5 times the design pressure. seat leakage testing at least be equal
- The valve assembly shall be subjected to a hydrostatic seat leakage test. The test pressure shall at least be equal to the design pressure. The test shall be performed with closed valve with the other end open to atmosphere.

Testing shall follow procedures and acceptance criteria in as per standard

Periodical assessment

For retention of the Type Approval, a DNV GL 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 DNVGL-CP-0338.