

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Hydraulic Actuator for Valve (Not Hydraulic Motor)

with type designation(s)
RL, RS

Issued to

MEDANA & VISCA SRL
Borgosesia VC, Italy

is found to comply with

DNVGL-OS-E201 – Oil and gas processing systems, Edition January 2017
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.

Type Dsgn. press./Torque

RL 160 bar / dependent on the size - see approved drawings

RS 160 bar / dependent on the size - see approved drawings

Issued at **Høvik** on **2018-10-17**

This Certificate is valid until **2023-06-30**.

for **DNV GL**

DNV GL local station: **Venice**

Approval Engineer: **Adel Samiei**

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Marianne Spæren Marveng
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

Two Types of hydraulic actuators: Single acting type RS and double acting RL

RS types: RS10, RS13, RS17, RS21, RS26, RS30, RS35, RS39, RS41, RS43, RS47, RS55, RS61

RL types: RL14, RL16, RL26, RL33, RL40, RL47, RL52, RL60, RL67, RL78

Material:

Cylinder/Housing:	S355J2H according to EN10210-1
End cover/Cap:	C40E according to EN10083-2
Piston:	GS500 according to UNI4544
Shaft:	Stainless Steel AISI 420
Bolts	Stainless Steel UNI 6900 A4

Application/Limitation

All actuators covered by this certificate are approved for 160 bar design pressure for the design temperature between -20°C to +80°C.

Type Approval documentation

Tests carried out

Burst Pressure test

Production tests

Each actuator shall be subjected to a hydrostatic test equal to 240 bar before delivery.

Certification

Actuators installed in a DNVGL offshore classed vessel topside system:

- Shall be delivered with 3.1 material certificates for the pressurized parts
- Shall be delivered with a product certificate issued by the manufacturer according to DNVGL-OS-E201

Marking of product

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

- Manufacturer's trade Mark
- Type designation
- Maximum working Pressure

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.