



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. P-13633

This is to certify that the
Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings

with type designation(s)
**AVENGER T1A/T3KA, SURVIVOR RQP1, DIEHARD T1D/T3KD, ADVANTAGE DF1E, ADVANTAGE T1E, T1F-Fire
suppression**

Manufactured by
RYCO Hydraulics Pty. Ltd.
FOOTSCRAY VICTORIA, Australia

is found to comply with
Det Norske Veritas' Rules for Classification of Ships
Det Norske Veritas' Standards for Certification 2.9 No. 5-791.70

Application
May be used for: **Water based hydraulics , pneumatic systems (see cert.), fresh water, sanitary, hydraulic oil, fuel oil
and lube oil systems.**

Temperature range:	-40°C to 150°C (see cert.)
Max. working press.:	65 bar to 225 bar (dep. on size and type, see cert.)
Sizes:	DN6 - DN50, 1/4" - 2" (see cert.)

Høvik, 2011-02-07
for Det Norske Veritas AS


Marianne Spæren
Head of Section



DNV local office:
Melbourne

This Certificate is valid until
2014-12-31


Øyvind Skåra
Surveyor

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.
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision 'Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.