

Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 44 788 - 07 HH

Company Cidat S.p.A.
Via Bellini, 124
21042 Caronno Pertusella, ITALY

Product Description FLAME RESISTANT HYDRAULIC HOSES

Type DIN EN 853, 1SN HYDRAULIC HOSES

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application

Inner tube	synth. rubber
Reinforcement	one layer of steel wire
Cover	synth. rubber
Fitting type	Multivos
Size range [DN]	DN 5 to DN 51
Pressure range [bar]	250 to 40
Temperature range	-40 [°C] to 100 [°C] [depending on media used]
Exception air	max. 70 [°C]
and water-glycol and	max. 85 [°C]
water-oil emulsion	

RANGE OF APPLICATION (continued on page 2)

The a.m. hose are type approved for the use in:

- Fuel oil, lubricating oil and hydraulic oil systems
- Bilge and ballast systems
- Fresh and seawater cooling systems

Test Standard Regulations for the Performance of Type Tests, Part 6 - Test Requirements for Mechanical Components and Equipment : 1998

Documents

- Test reports
- Data sheets
- Catalogue

Remarks Remarks / Limitations refer to page 2

Valid until 2012-06-04

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Type Approval Symbol



File No. II.D.01

Hamburg, 2007-06-05

Germanischer Lloyd

Günter Hölzer

Hagen Markus

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

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RANGE OF APPLICATIONS

- Compressed air systems*
- Secondary piping systems

* Pin prick cover is required for air or gas applications above 17 [bar].

For the concrete application, the fluid resistance tables issued by the hose manufacturer are to be observed.

REMARKS / LIMITATIONS

- The current Rules of Germanischer Lloyd Chapter 2-Machinery Installation, Section 11 are to be observed.
- The use of the hoses outside the range of application is subject to special consideration by Germanischer Lloyd in each individual case.
- The combination of high temperatures and high pressure reduce the hose life.
- The use of hose assemblies is not permitted in permanently pressurized starting air lines of diesel engines.
- This type approval certificate is issued for the hose only.
Hose assemblies are to be assembled with type approved end fittings by GL approved manufacturers* solely.

* See VI - Additional Rules and Guidelines, Part 3 - Machinery Installations, Chapter 9 - Guidelines for the Recognition of Manufacturers of Hose Assemblies and Compensators.

Valid until 2012-06-04

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File No. I.D.01

Hamburg, 2007-06-05

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Company	Cidat S.p.A. Via Bellini, 124 21042 Caronno Pertusella, ITALY
Product Description	FLAME RESISTANT HYDRAULIC HOSES
Type	DIN EN 853, 2SN HYDRAULIC HOSES
Environmental Category	None
Technical Data / Range of Application	TECHNICAL DATA Inner tube synth. rubber Reinforcement two layers of steel wire Cover synth. rubber Fitting type Multivos Size range [DN] DN 5 to DN 51 Pressure range [bar] 415 to 80 Temperature range -40 [°C] to 100 [°C] [depending on media used] Exception air max. 70 [°C] and water-glycol and max. 85 [°C] water-oil emulsion RANGE OF APPLICATION (continued on page 2) The a.m. hose are type approved for the use in: • Fuel oil, lubricating oil and hydraulic oil systems • Bilge and ballast systems • Fresh and seawater cooling systems
Test Standard	Regulations for the Performance of Type Tests, Part 6 - Test Requirements for Mechanical Components and Equipment : 1998.
Documents	• Test reports • Data sheets • Catalogue
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Certificate No. 44 790 - 07 HH

Company Cidat S.p.A.
Via Bellini, 124
21042 Caronno Pertusella, ITALY

Product Description FLAME RESISTANT HYDRAULIC HOSES

Type DIN EN 856, R12 HYDRAULIC HOSES

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application

Inner tube synth. rubber
Reinforcement four spiral plies of steel wire
Cover synth. rubber
Fitting type Multivox
Size range [DN] DN 10 to DN 51
Pressure range [bar] 276 to 172
Temperature range -40 [°C] to 100 [°C] [depending on media used]
Exception air max. 70 [°C]
and water-glycol and max. 85 [°C]
water-oil emulsion

RANGE OF APPLICATION (continued on page 2)

The a.m. hose are type approved for the use in:

- Fuel oil, lubricating oil and hydraulic oil systems
- Bilge and ballast systems
- Fresh and seawater cooling systems

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For the concrete application, the fluid resistance tables issued by the hose manufacturer are to be observed.

REMARKS / LIMITATIONS

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Handwritten signature of Günter Hölzer in blue ink.
Günter Hölzer

Handwritten signature of Hagen Markus in blue ink.
Hagen Markus

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Certificate No. 44 791 - 07 HH

Company Cidat S.p.A.
Via Bellini, 124
21042 Caronno Pertusella, ITALY

Product Description FLAME RESISTANT HYDRAULIC HOSES

Type DIN EN 856, 4SH HYDRAULIC HOSES

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application

Inner tube	synth. rubber
Reinforcement	four spiral plies of steel wire
Cover	synth. rubber
Fitting type	Multivocs
Size range [DN]	DN 19 to DN 51
Pressure range [bar]	420 to 250
Temperature range	-40 [°C] to 100 [°C] [depending on media used]
Exception air	max. 70 [°C]
and water-glycol and	max. 85 [°C]
water-oil emulsion	

RANGE OF APPLICATION (continued on page 2)

The a.m. hose are type approved for the use in:

- Fuel oil, lubricating oil and hydraulic oil systems
- Bilge and ballast systems
- Fresh and seawater cooling systems

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Via Bellini, 124
21042 Caronno Pertusella, ITALY

Product Description FLAME RESISTANT HYDRAULIC HOSES

Type DIN EN 856, 4SP HYDRAULIC HOSES

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application

Inner tube	synth. rubber
Reinforcement	four spiral plies of steel wire
Cover	synth. rubber
Fitting type	Multivos
Size range [DN]	DN 6 to DN 51
Pressure range [bar]	450 to 165
Temperature range	-40 [°C] to 100 [°C] [depending on media used]
Exception air	max. 70 [°C]
and water-glycol and	max. 85 [°C]
water-oil emulsion	

RANGE OF APPLICATION (continued on page 2)

The s.m. hose are type approved for the use in:

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