



Germanischer Lloyd

Approval Certificate

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No. 12 268 - 98 HH
Company A4 Hydrauliek B.V.
Gildestraat 19
8263 AH Kampen, NETHERLANDS

Product Hydraulic Cylinders

Type Differential cylinders (piston type cylinders)

Technical Data / Application	Bore (mm)	Diameter of piston rod (mm)	Bore (mm)	Diameter of piston rod (mm)
	50	25; 30; 35	120	60; 70; 80; 85
	60	30; 35; 40	125	60; 70; 80; 85
	63	32; 35; 40; 45	130	70; 80; 85
	65	32; 35; 40; 45	140	70; 80; 85; 90; 100
	70	35; 40; 45; 50	150	80; 85; 90; 100
	80	40; 45; 50; 55	160	85; 90; 100; 110
	90	45; 50; 55; 60	180	90; 100; 110; 120; 125
	100	50; 55; 60; 70	200	100; 110; 120; 125; 140
	110	50; 55; 60; 70		

Maximum stroke = 4000 mm. For strokes above 1200 mm cylinders to be used as pull-cylinders only. Remarks to be observed.

Working Pressure : 250 bar
Test Pressure : 375 bar

Approval Standard Germanischer Lloyd - "Rules for Classification and Construction" Part 1, Chapter 2, Section 14F "Hydraulic Systems"

Documents Arrangement drawings Nos. GL50-130 and GL140 and detail drawings approved with Ref. No. 22452/98 WSz of 1998-07-07

Remarks For the piston rod a safety factor of at least 1,7 against buckling strength has to be ensured.

Valid until 2013-09-10

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Hamburg, 2008-09-11

Germanischer Lloyd

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(Handwritten signatures: i.v. Sideris and W. Schütz)