

Request data

Hydraulic cylinders

General information

Request date		Telephone	
Company		E-mail	
Contact person		Application	
Road		Quantity required	Prototype
Postcode, location		Requested delivery date	Series
Country		Lot size	

2. Type of cylinder

☐	Differential cylinder
☐	Synchronised cylinder
☐	Plunger
☐	Telescopic cylinder

3. Dimensions

Piston-Ø		mm
Piston rod-Ø		mm
Stroke		mm
Installation dimension retracted		mm
Target weight		kg
Sample drawing / draft	yes	no

4. Load specifications

Pressure / force / speed	Piston side (extend)	Rod side (retract)
Operating pressure	MPa	
Secondary pressure (protection / PRV)	MPa	
Test pressure	MPa	
Known pressure peaks	MPa	
Max. speed	m/s	
Lateral force (shear force)	kN	
External compression and tension forces (kinematics)	kN	Compression
Specifications		yes
Approx. load / collective		no
Min. operation time	oh	
Switching frequency	1/min	
Minimum of standards / policies		

5. End of stroke cushioning

☐	Without cushioning
☐	Piston side
☐	Rod side
☐	Both sides

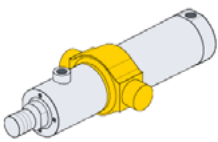
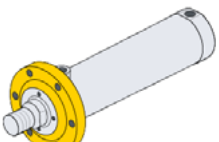
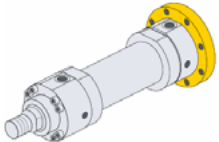
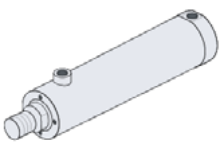
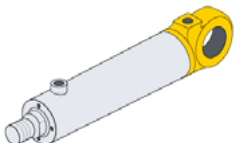
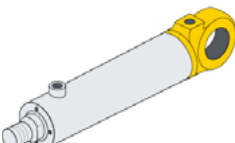
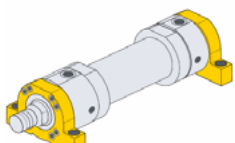
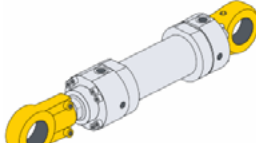
6. Environment

Used medium	
Operating temperature	°C
Ambient temperature	°C
Corrosive media (e.g. sea air)	

7. Painting and rod coating

Corrosion protection (AASS)*	96h	240h	500h
	Special	Rating	
	hardened	yes	no
Painting	RAL	Primer	Paint
		Maritime (3-fold)	Seawater (2-fold)

8. Mounting types

☐	Swivel bearing mounting (MT4)	☐	Round flange at head (MF3)	☐	Round flange at base (MF4)	☐	Basic form
							
☐	Fixed bushing eye at base (MP3)	☐	Spherical bearing eye at base (MP5)	☐	Foot mounting (MS2)	☐	Double-sided sypherical bearings
							

LIEBHERR

Request data

Hydraulic cylinders

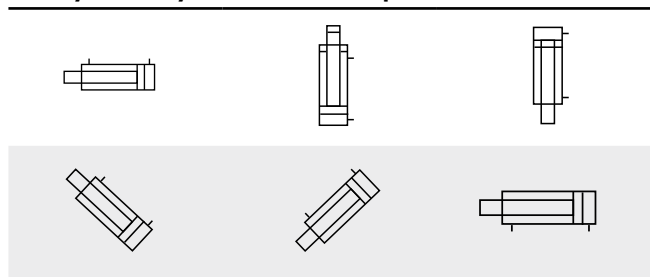
9. Type of connection and size

	Piston side	Rod side
Type of connection		
Bolt- / thread-Ø	mm	
Head radius	mm	
Bearing width	mm	
Sealing bearing position	☐ yes ☐ no	☐ yes ☐ no
Lubrication bearing position	☐ yes ☐ no	☐ yes ☐ no

10. Alignment of oil connection terminals

Piston side	Oil connection size	Rod side
	e. g. SAE, M	
$\alpha=^{\circ}$	Angle (clockwise)	$\beta=^{\circ}$

11. Hydraulic cylinder installation position



12. Options

Position measuring system	Vent port
☐ yes ☐ no	☐ yes ☐ no
Output signal	
☐ 4-20mA	☐ SAEJ1939
☐ 0-10V	☐ CANopen
☐ SSI	☐ ISOBUS
☐ Other	

13. Documentation

An instruction manual is supplied with each hydraulic cylinder as standard. Additional options may be available at a charge.

☐ Spare part catalog

☐ Maintenance and repair instructions

14. Further requirements

Certifications

Use / exchangeability of already existing components

Scope of delivery / attachments, e.g. valve blocks, pipelines, pressure, clamp

Further comments

SEND E-MAIL



For internal use

Date	Created	Audited	Approved	Revision
Name				