

KL-0040-... / KL-0215-...

Hydraulic Drive Parts and Accessories



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1. READ AND UNDERSTAND FOR YOUR SAFETY



Read and understand these operating instructions **before** using the hydraulic drive parts and observe all safety and warning instructions! Misuse can result in **DEATH** or **SEVERE INJURIES**! These operating instructions are an integral part of the hydraulic drive parts. Keep them at a safe place for future reference, and always pass them on to subsequent users of the hydraulic drive parts! The hydraulic drive parts comply with the recognised rules of technology as well as the relevant safety regulations!

1.1 Target group

These operating instructions are **exclusively** intended for skilled personnel in specialised motor vehicle workshops!

The hydraulic drive parts **may only be** used by skilled personnel in specialised motor vehicle workshops who are familiar with the- regulations on work safety and accident prevention!

▼ **Never** allow unauthorised, inexperienced persons, minors and children, or persons with limited physical, sensory, and mental abilities to use the hydraulic drive parts!

1.2 Obligations of the owner

Pursuant to the German Ordinance on Industrial Safety and Health (*BetrSichV*), employers are obliged to provide their employees with safe work equipment in accordance with the recognised rules of technology and the relevant safety regulations!

▼ The owner of the hydraulic drive parts **must** ensure that **only** trained personnel in specialised vehicle workshops use the hydraulic drive parts!

▼ The owner of the hydraulic drive parts **must** ensure that the operating instructions are available to the user and that the user has completely read and understood the operating instructions **before** using the hydraulic drive parts!

▼ The owner of the hydraulic drive parts **must** ensure that the user is familiar with the basic regulations on work safety and accident prevention, and that personal protective equipment is available to him!

1.3 Intended use

The hydraulic drive parts...

▼ **may only** be used to drive **GEDORE Automotive** special tools, for repair work on motor vehicles*, as a pulling and pushing device!

* For example, for removing and installing cardan shafts, wheel hubs, wheel bearings, silent blocks, suspension joints as well as pulling out injectors, etc.

▼ **may only** be used up to the **max. specified load**!

▼ **may only** be used manually by muscle power, especially the hydraulic cylinders, **only** with a hand pump!

▼ **may only** be used with a **GEDORE Automotive** pressure gauge specially adapted to the hydraulic cylinder for safe pressure control!

▼ **may only** be used with **GEDORE Automotive** genuine spare parts and accessories!

▼ **may only** be used in the way described in these operating instructions!

▲ Any other use can result in **DEATH** or **SEVERE INJURIES**!

1.4 Reasonably foreseeable misuse

The hydraulic drive parts...

▼ **must never** be used to drive other tools or in any other way than intended!

▼ **must never** be used with a machine-driven hydraulic pump or any other drive than intended!

▼ **must never** be used for series production with many operations within a few minutes!

▼ **must never** be used with a bridged, modified, or removed safety device!

▼ **must never** be modified, converted, or used for other purposes without authorisation!

▲ Use the hydraulic drive parts **always** as intended. Any other use can result in **DEATH** or in **SERIOUS INJURIES**!

1.5 Personal protective equipment

For your safety, **always** wear personal protective equipment when using the hydraulic drive parts! The hydraulic drive parts can bring about mechanical hazards, such as crushing, cutting, and shock injuries.



Always wear **EYE PROTECTION** (see DIN EN 166, OSHA 29 CFR 1910.133, ANSI Z87) when using the hydraulic drive parts to protect yourself against parts or particles flying about!

When using the hydraulic drive parts, flying parts or particles can cause **SEVERE INJURIES** to your **eyes**!



Always wear **PROTECTIVE GLOVES** (e.g. DIN EN 388, OSHA 29 CFR 1910.138, ANSI 105) when using the hydraulic drive parts to protect yourself against sharp edges and crushing between parts!

When working with the hydraulic drive parts, sharp edges and crushing between parts can cause **SEVERE INJURIES** to your **hands**!



Always wear **SAFETY SHOES** (for example to DIN EN ISO 20345, OSHA 29 CFR 1910.136, ANSI Z41) when using the hydraulic drive parts to protect yourself against dropping parts!

When working with the hydraulic drive parts, dropping parts can cause **SEVERE INJURIES** to your **feet and toes**!

1.6 Labelling of the warnings

Warnings warn of potential **hazards**. **Always** observe these warnings to avoid **DEATH** or **INJURIES**!

For better differentiation, warnings in these operating instructions are classified as follows:

Warning sign	Meaning
	Indicates a hazardous situation, which, if not avoided, could cause DEATH or SERIOUS INJURIES .
	Indicates a hazardous situation which, if not avoided, could cause MODERATE or MINOR INJURIES .
	Indicates a situation which, if not avoided, could cause damage to the tool or an object in its vicinity.
	Note on important information and useful tips.

1.7 Work environment

Only use the hydraulic drive parts in a safe working environment and **do not** expose it to extreme temperatures, direct sunlight or extreme humidity and moisture!

- When the workplace **must** be clean and tidy.
- When the workplace **must** be sufficiently large and illuminated.
- When the workplace **must** be on a solid and non-skidding floor.
- When the workplace **must** be safeguarded against access of unauthorised persons.
- When the workplace **must** be at room temperature between -10 °C and +40 °C.

1.8 Emissions

Molybdenum disulphide paste and hydraulic oil can drip or escape when using the hydraulic drive parts and thus pose a hazard to the environment.

- When **immediately** remove leaking hydraulic oil as well as excess molybdenum disulphide paste (using oil binding agents or a cleaning cloth, for example).
- When in case of skin contact with hydraulic oil, clean the affected area **immediately** with degreasing soap and water.
- When dispose of pollutants such as hydraulic oil and molybdenum disulphide paste **always in an environmentally friendly** manner.
- When safety data sheets *in accordance with Regulation (EC) No. 1907/2006*, for hydraulic oil (**Alsus Hyd HLP 32 or 46**) as well as for molybdenum disulphide paste (**MOLYKOTE® G-N PLUS PASTEP-74 PASTE**) can be found on the manufacturer's site on the Internet (**World Wide Web**) or, if required, contact **GEDORE Automotive GmbH**.

1.9 Basic safety instructions and warnings

⚠ WARNING / CAUTION - Failure to observe this warning may result in an accident or death.

When using the hydraulic drive parts, **always** observe the following safety and warning instructions as well as measures to avoid **DEATH** or **SERIOUS INJURY** as well as property damage due to hazards, misuse, abuse and unsafe handling!

- ✔ Read and understand these operating instructions **before using** the hydraulic drive parts, and observe all safety and warning instructions for **safe use!**
- ✔ **Always** read and understand the instructions for the special tool on which the hydraulic drive parts are to be used!
- ✔ **Always** work with the hydraulic drive parts in accordance with the basic regulations on work safety, accident prevention and environmental protection!
- ✔ **Always** use the hydraulic drive parts as intended. **GEDORE Automotive** does not accept any liability or warranty or guarantee claims for injuries and damage resulting from improper use or disregard of the safety regulations.
- ✔ **Before each use**, check the hydraulic drive parts **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive**
- ✔ **Only** use original spare parts and accessories from **GEDORE Automotive** for the hydraulic drive parts!
- ✔ **Always** observe the vehicle-specific manufacturer's specifications when working with the hydraulic drive parts!
- ✔ **Always** secure the hydraulic cylinder against falling down and being thrown around, for example by holding it or using the **GEDORE** safety holding belt - **KL-0040-2590** or **KL-0040-2592** or **KL-0040-2890** or **KL-0040-1790** or alternatively using the holding device **KL-0040-258 A** or **KL-0040-288!**
- ✔ **Never** use the hydraulic cylinder with a machine-operated or any other drive than intended! Drive it **only** by hand and with muscle power and a **manually** operated **GEDORE Automotive** hydraulic cylinder / pump combination with a pressure gauge for safe pressure control!
- ✔ **Never** use the hydraulic drive parts for batch processing with many operations within a few minutes!
- ✔ **Never** use the hydraulic drive parts when you are tired or under the influence of alcohol, drugs, or medication!
- ✔ **If necessary**, carry, lift, and position severe parts with the help of a second specialist!
- ✔ **Before using** the hydraulic drive parts, ensure that **no** unauthorised persons are in the immediate environment!
- ✔ If an existing hydraulic hand pump in the workshop is to be used as the drive for the **GEDORE Automotive** hydraulic cylinder, it **must** first be equipped with a **GEDORE Automotive** pressure gauge matched to the hydraulic cylinder! Corresponding thread adapters can be found under **chapter 3.4**.
- ✔ **Always** observe the **max. load capacity** when using the hydraulic drive parts, and **never** exceed it!
- ✔ **Never** stand in axial extension of the hydraulic drive parts, especially when they are under load!
- ✔ Wear your personal protective equipment such as safety goggles, protective gloves, safety shoes during work!
- ✔ **Never** leave the hydraulic drive parts unattended in loaded condition on the vehicle!
- ✔ **Never** hit the hydraulic drive parts with a hammer or other objects and **never** clamp them in a vice!
- ✔ **Always** avoid dropping, hitting or knocking the hydraulic drive parts, especially when they are under load! **Always** place the parts on a clean shelf or workbench to prevent it from falling down!
- ✔ **Before each use**, check the moving parts of the hydraulic drive parts for sufficient lubrication and lubricate them if necessary!
- ✔ Stop work **immediately** if you are unsure about using the hydraulic drive parts and contact **GEDORE Automotive** if **necessary!**
- ✔ If damage to the hydraulic drive parts is detected, they must no longer be used for safety reasons! Professional inspection and repair may only be carried out by specially trained personnel from **GEDORE Automotive!**

1.10 Maintenance

Perform maintenance on the hydraulic drive parts **at regular intervals** and **only** when the tool is not subject to pressure! Poor and improper maintenance can damage the hydraulic drive parts, thus causing **DEATH** or **SEVERE INJURIES!**

Prior to each use:

- ✔ **Prior to each use**, check the hydraulic drive parts **carefully** for damage, loose parts, or unauthorised modifications!
- ✔ **Prior to each use** of the hydraulic drive parts, check the spindle for contamination and damage. If necessary, clean it and subsequently lubricate them!

Recommended: Every 24 months:

- ✔ Have the hydraulic drive parts professionally checked **every 24 months** by authorised **GEDORE Automotive** specialists!

1.11 Troubleshooting

Always troubleshoot the hydraulic drive parts when they are depressurised.

Problem: Hydraulic oil escapes from the hydraulic coupling between hydraulic cylinder and hand pump.

Reason: Hydraulic coupling dirty or loose.

Remedy: Clean and retighten the hydraulic coupling. Top up lacking hydraulic oil (**HLP 32 or 46**) at the hand pump.

Problem: The hydraulic hand pump does not build up pressure or only very slowly.

Reason: The pressure release valve on the hand pump is open or hydraulic oil is missing.

Remedy: Close the pressure release valve on the hand pump completely and top up missing hydraulic oil (**HLP 32 or 46**) on the hydraulic hand pump.

1.12 Care / Storage

CAUTION

Improper care and storage can damage the hydraulic drive parts for gearbox jacks.

- ✔ Therefore, **never** immerse the hydraulic drive parts in water, solvents, or other cleaning liquids.
- ✔ After use, clean all parts of the hydraulic drive parts with a dry and clean cleaning cloth.
- ✔ Store the hydraulic drive parts and the operating instructions in a dry and clean place.

1.13 Repair

WARNING

Improper repair of the hydraulic drive parts can result in **DEATH** or **SEVERE INJURIES**.

- ✔ If damage, loose parts or unauthorised modifications have been found on the hydraulic drive parts, it must no longer be used for safety reasons!
 - ✔ Repair may only be carried out by specially trained personnel from **GEDORE Automotive GmbH**!
 - ✔ **Only** use original spare parts and accessories from **GEDORE Automotive** for the hydraulic drive parts!
- If necessary, contact us, the **GEDORE Automotive** for a professional inspection and repair of the hydraulic drive parts.

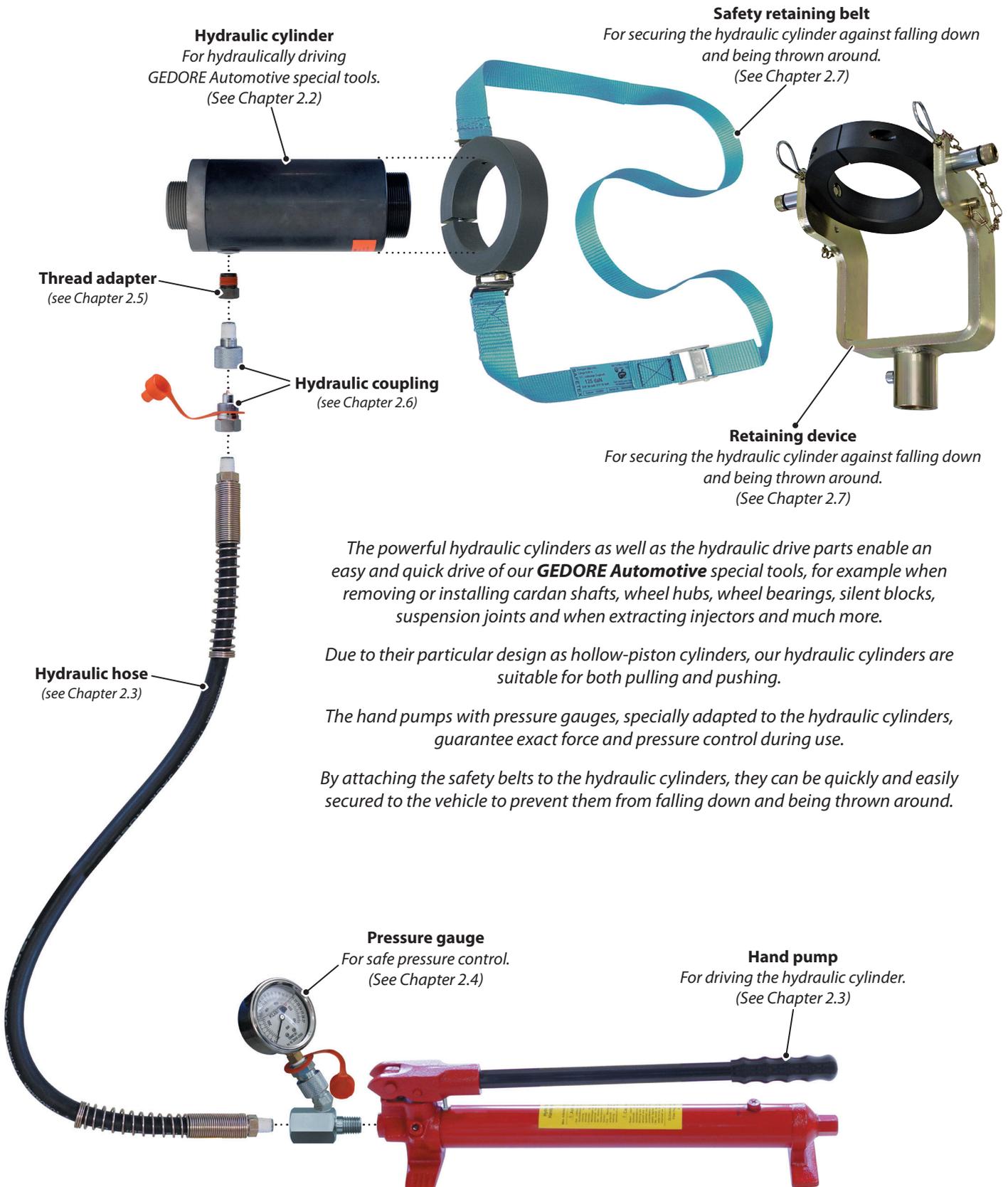
1.14 Environmentally friendly disposal

Dispose of the hydraulic drive parts and the packaging material in an environmentally compatible way in accordance with the legal requirements. If necessary, ask your local authorities about environmentally friendly disposal options.

2. PRODUCT DESCRIPTION

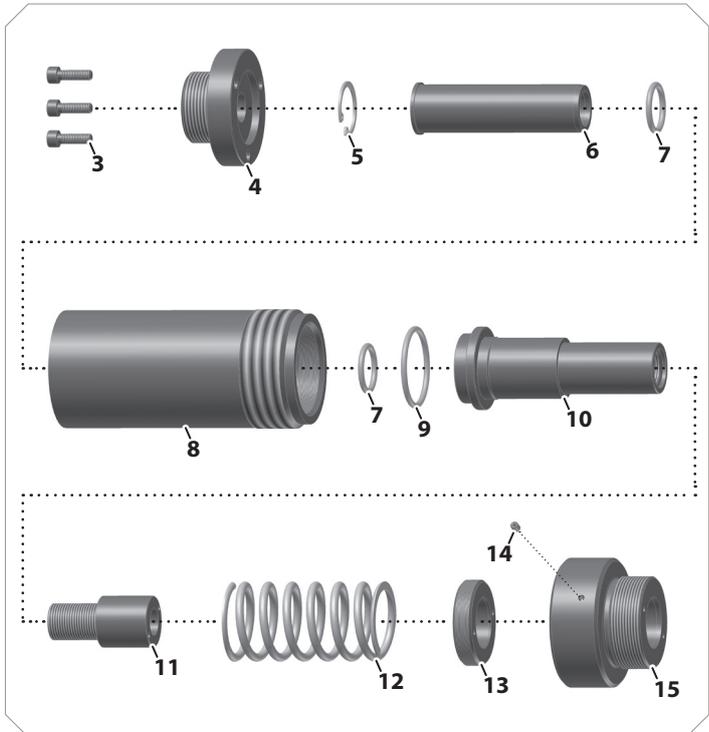
2.1 Component overview

This overview shows basic components, designations, and information on **GEDORE AUTOMOTIVE** hydraulic drive parts.



2.2 Hydraulic cylinder - KL-0040-...

KL-0040-2200 - Hydraulic cylinder, 10t



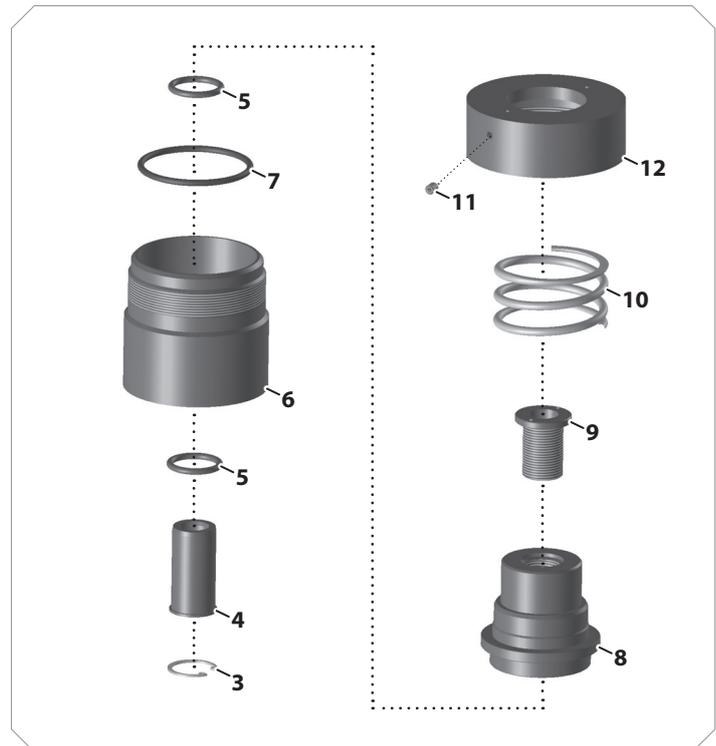
Specifications

- Max. admissible force max.: 105.8 kN (10t)
- Max. stroke: 45mm
- Max. oil volume: 75.91 cm³
- Piston surface: 15.11 cm²
- Thread in the hollow piston: M16/Ø 16.5
- Fastening thread, pressure side: 2 ¼ in -14 UNS
- Fastening thread, pull side: M42x2
- Cylinder outside diameter: 69mm
- Overall cylinder height retracted: 202mm
- Overall cylinder height extended: 247mm
- Oil connection: 3/8" NPT
- Weight: 5.2kg
- Hydraulic oil HLP 32 or 46

Scope of supply/single parts overview

Item	Part no.	Description	Qty.
1	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1
2	KL-0215-322	Coupling half, cylinder side 1/4"	1
3	KL-0040-2211	Cheese-head screw M6 x 20	3
4	KL-0040-2205	Adapter	1
5	KL-0040-2209	Retaining ring I26	1
6	KL-0040-2203	Inner tube	1
7	KL-0040-2207	Sealing ring Ø 24	2
8	KL-0040-2201	Housing	1
9	KL-0040-2208	Sealing ring Ø 42	1
10	KL-0040-2202	Piston	1
11	KL-0040-2212	Threaded sleeve M16, long	1
12	KL-0040-2206	Pressure spring	1
13	KL-0040-2210	Screw ring	1
14	KL-0040-2214	Grub screw M5x6	1
15	KL-0040-2204	Threaded ring 2 ¾"-16 UN / 2 ¼"-14 UNS	1

KL-0040-1700 - Hydraulic cylinder 17t, short



Specifications

Max. admissible force:	170KN (17t)
Max. oil volume:	41cm ³
Max. oil pressure:	700 bars
Piston surface:	27cm ³
Max. stroke:	15mm
Oil connection	3/8" - 18NPT
Through hole in the hollow piston:	Ø 16.5mm
Overall cylinder height retracted:	89mm
Overall piston height extended	104mm
Cylinder Ø (outside)	79mm
Weight:	2.7kg
Hydraulic oil:	HLP 32 or 46

KL-0040-170 A - Hydr. cylinder, short, 17t

as **KL-0040-1700**, but with safety belt **KL-0040-1790** and collar nut **M16x1.5 - KL-0040-1741-2**.

KL-0040-175 C - Hydr. cylinder, short, 17t

as **KL-0040-1700**, but with safety belt - **KL-0040-1790**, collar nut M16x1,5 - **KL-0040-1741-2**, pull spindle 285mm - **KL-0186-1403** and spacer ring 20mm - **KL-0040-1751**.

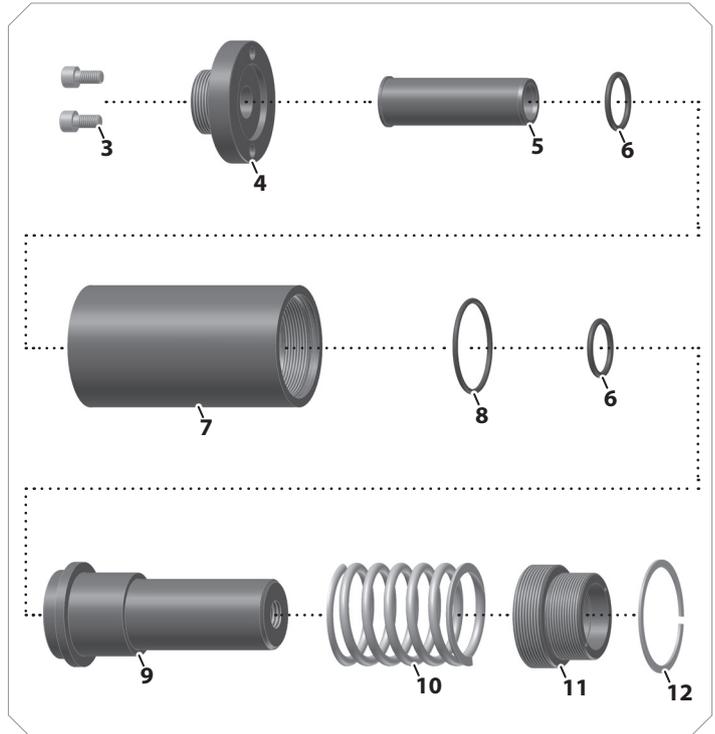
Scope of supply/single parts overview

Item	Part no.	Description	Qty.
1	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1
2	KL-0215-322	Coupling half, cylinder side 1/4"	1
3	KL-0040-2209	Retaining ring I26	1
4	KL-0040-1703	Inner tube	1
5	KL-0040-2207	Sealing ring Ø 24mm	2
6	KL-0040-1701	Housing	1
7	KL-0040-2507	Sealing ring Ø 65mm	1
8	KL-0040-1702	Piston	1
9	KL-0040-2216	Threaded sleeve Ø 16.5mm, short	1
10	KL-0040-1705	Pressure spring	1
11	KL-0040-2214	Grub screw M5x6mm	1
12	KL-0040-1704	Threaded ring	1

KL-0040-2500 - Hydraulic cylinder, 17t



PULL SIDE **THRUST SIDE**



Specifications

- Max. admissible force: 170 KN (17t)
- Max. stroke: 45mm
- Max. oil volume: 122cm³
- Piston surface: 27cm³
- Thread with hollow piston M20
- Fastening thread, pressure side: 2 ¼ in -14 UNS
- Fastening thread, pull side: M42x2
- Cylinder outside diameter: 80mm
- Overall cylinder height retracted: 202mm
- Overall piston height extended 247mm
- Oil connection: 3/8" NPT
- Weight: 5.2kg
- Hydraulic oil: HLP 32 or 46

Scope of supply/single parts overview

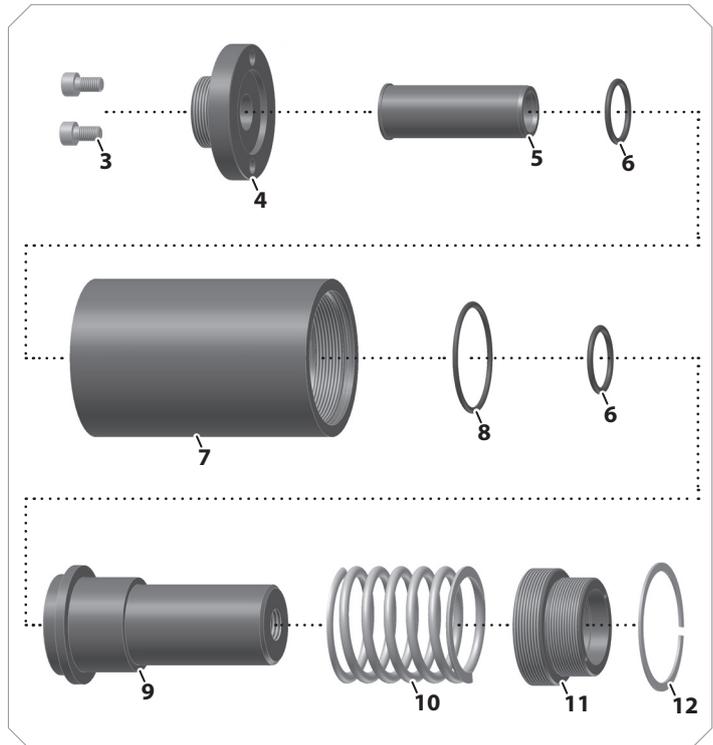
Item	Part no.	Description	Qty.
1	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1
2	KL-0215-322	Coupling half, cylinder side 1/4"	1
3	KL-0040-2511	Cheese-head screw M8 x 16	2
4	KL-0040-2505	Adapter	1
5	KL-0040-2503	Inner tube	1
6	KL-0040-2508	Sealing ring Ø 36mm	2
7	KL-0040-2501	Housing	1
8	KL-0040-2507	Sealing ring Ø 65mm	1
9	KL-0040-2502	Piston	1
10	KL-0040-2506	Pressure spring	1
11	KL-0040-2504	Threaded ring	1
12	KL-0040-2509	Retaining ring SB68	1

KL-0040-2800 - Hydraulic cylinder, 28t



PULL SIDE

THRUST SIDE



Specifications

Max. admissible force:	285kN (28t)
Max. stroke:	50mm
Max. oil volume:	216.3cm ³
Piston surface:	40.6cm ²
Thread with hollow piston	M24
Fastening thread, pressure side:	2 3/4" -16 UN
Fastening thread, pull side:	M42x2
Cylinder outside diameter:	99mm
Overall cylinder height retracted:	235mm
Overall piston height extended	285mm
Oil connection:	3/8"NPT
Weight:	9.6kg
Hydraulic oil:	HLP 32 or 46

Scope of supply/single parts overview

Item	Part no.	Description	Qty.
1	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1
2	KL-0215-322	Coupling half, cylinder side 1/4"	1
3	KL-0035-0018	Cheese-head screw M10 x 16	2
4	KL-0040-2805	Adapter	1
5	KL-0040-2803	Inner tube	1
6	KL-0040-2808	Sealing ring Ø 43mm	2
7	KL-0040-2801	Housing	1
8	KL-0040-2807	Sealing ring Ø 80mm	1
9	KL-0040-2802	Piston	1
10	KL-0040-2806	Pressure spring	1
11	KL-0040-2804	Threaded ring	1
12	KL-0040-2809	Retaining ring SB85	1

2.3 Hand pumps - KL-0215-35...



KL-0215-35 M22 - Hydraulic hand pump with pressure gauge 10t



Specifications

Max. working pressure: 700 bars
 Oil quantity:..... 0.5l
 Hydraulic oil: HLP 32 or 46
 Measuring range pressure gauge: 0...10t
 Weight: 7.0kg

Scope of supply/overview of single components

Item	Part no.	Description	Qty.
1	KL-0215-33	Hydraulic hand pump without hose	1
2	KL-0040-2229	Pressure gauge 10t	1
3	KL-0215-31	Hydraulic hose 1.8m with coupling half, hose side	1
4	KL-0215-322	Coupling half, cylinder side 1/4"NPT	1
5	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1

KL-0215-35 M25 - Hydraulic hand pump with pressure gauge 17t



Specifications

Max. working pressure: 700 bars
 Oil quantity:..... 0.5l
 Hydraulic oil..... HLP 32 or 46
 Measuring range pressure gauge: 0...17t
 Weight: 7.0kg

Scope of supply/overview of single components

Item	Part no.	Description	Qty.
1	KL-0215-33	Hydraulic hand pump without hose	1
2	KL-0040-2529	Pressure gauge 17t	1
3	KL-0215-31	Hydraulic hose 1.8m with coupling half, hose side	1
4	KL-0215-322	Coupling half, cylinder side 1/4"NPT	1
5	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1

KL-0215-35 M28 - Hydraulic hand pump with pressure gauge 28t



Specifications

Max. working pressure: 700 bars
 Oil quantity:..... 0.5l
 Hydraulic oil: HLP 32 or 46
 Measuring range pressure gauge: 0...28t
 Weight: 7.0kg

Scope of supply/overview of single components

Item	Part no.	Description	Qty.
1	KL-0215-33	Hydraulic hand pump without hose	1
2	KL-0040-2829	Pressure gauge 28t	1
3	KL-0215-31	Hydraulic hose 1.8m with coupling half, hose side	1
4	KL-0215-322	Coupling half, cylinder side 1/4"NPT	1
5	KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT	1

2.4 Pressure gauge - KL-0040-2...



KL-0040-2229 - Pressure gauge for hydraulic cylinder 10t



Specifications

Max. measuring gauge:..... 0 - 1000 bar / 0 - 15t
 Pressure gauge Ø:71mm
 Connecting thread:..... 1/4"NPT

KL-0040-2529 - Pressure gauge for hydraulic cylinder 17t



Specifications

Max. measuring gauge:..... 0 - 1000 bar / 0 - 27t
 Pressure gauge Ø:71mm
 Connecting thread:..... 1/4"NPT

KL-0040-2829 - Pressure gauge for hydraulic cylinder 28t



Specifications

Max. measuring gauge:..... 0 - 1000 bar / 0 - 40t
 Pressure gauge Ø:71mm
 Connecting thread:..... 1/4"NPT

2.5 Thread adapter - KL-0040-252...



Part no.	Description
KL-0040-2520	Adapter 3/8"NPT to 1/4"NPT (e.g. Gedore, Longus, Rodcraft)
ⓘ Hydraulic cylinder from Blackhawk, Car Bench, Celette, Enerpac, OTC and Yale already have 3/8"NPT connections.	

2.6 Hydraulic couplings - KL-0215-32...



Item	Part no.	Description
1	KL-0215-322	Coupling half, <u>cylinder</u> side 1/4"
2	KL-0215-321	Coupling half, <u>hose</u> side 1/4"

2.7 Safety belts - KL-0040-2...



KL-0040-2290 - Safety belt for KL-0040-2200 - Hydraulic cylinder 10t



Specifications

Inner diameter:..... 69mm
 Belt length: 500mm
 Weight:0.4kg

KL-0040-1790 - Safety belt for KL-0040-1700 - Hydraulic cylinder 17t, short



Specifications

Inner diameter:..... 87mm
 Belt length: 500mm
 Weight:0.5kg

KL-0040-2890 - Safety belt for KL-0040-2800 - Hydraulic cylinder 28t



Specifications

Inner diameter:..... 99mm
 Belt length: 500mm
 Weight:0.5kg

KL-0040-258 A - Retaining device for KL-0040-2500 - Hydraulic cylinder 17t



Scope of delivery/single part overview

Part no.	Description	Qty.
KL-0040-2582 A	Retaining device without clamping ring	1
KL-0040-2587	Clamping ring for KL-0040-2500	1

Technical Data

Bore-Ø of retaining sleeve: 30mm

Inner diameter: 80mm

Weight: 2.5kg

