

Hydraulic Cylinder, 28t



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KL-0040-2800



EN

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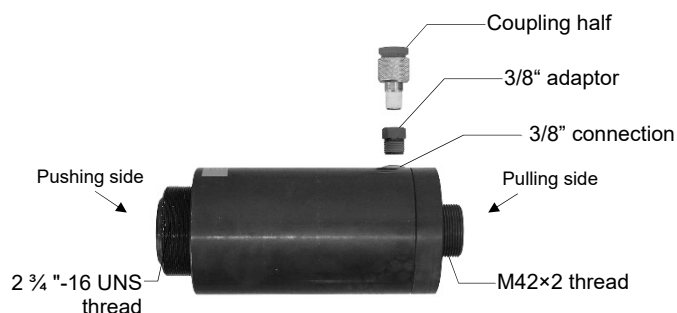
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KL-0040-2800



NOTE: A hydraulic pump such as **KL-0215-35 M28** or **KL-0215-37 M28** will be required to drive the Hydraulic Cylinder **KL-0040-2800**.

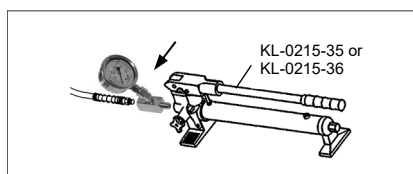
Accessory: Thread adaptors for hydraulic cylinder



Accessory: Hydraulic couplings



Accessory: Pressure gauge



Accessory: KL-0040-2890 Safety Belt



KL-0040-2800 Hydraulic Cylinder (28t)

Field of Application

Due to its special design as a hollow piston cylinder, the **KL-0040-2800** hydraulic cylinder can be used to perform pulling as well as pushing operations, in conjunction with the corresponding spindles available as accessories.

Scope of Delivery:

| Part No. | Description | Qty |
|--------------|-------------------------------------|-----|
| KL-0040-2800 | Hydraulic Cylinder, 28t (assembled) | 1 |
| KL-0040-2520 | Adaptor, 3/8" | 1 |
| KL-0215-322 | Coupling half, cylinder side | 1 |

Warnings and Notes

- Any work on vehicles should only be performed by qualified specialist personnel observing and complying with the directions, provisions, and safety regulations specified by the vehicle manufacturer.
- Always refer to the vehicle manufacturer's data and instructions as only these apply to all work that is carried out on the vehicle.
- Before each use, visually check the tool to make sure that it is not damaged.

Attention

- Use safety belt **KL-0040-2890** to secure tool against falling.
- Always keep all parts of your body away from the line along which the hydraulic cylinder extends or retracts.
- When working with hydraulic tools, specific safety precautions need to be taken and observed.

Accessories

Thread Adaptor

If an already existing hydraulic pump is to be used as a drive for the **KL-0040-2800** hydraulic cylinder, it is important that the hydraulic pump is fitted with a hose or coupling having a 3/8" NPT connection. If the pump (with hose and coupling) has a different connection size, a thread adaptor will be needed. (See table).

| Part No. | Description |
|--------------|---|
| KL-0040-2520 | Adaptor, 3/8"NPT to 1/4"NPT (e.g. Gedore, Longus, Rodcraft) |
| KL-0040-2521 | Adaptor, 3/8"NPT to M16x1.5 (e.g. Matra) |
| KL-0040-2522 | Adaptor, 3/8"NPT to M18x1.5 (e.g. Weber) |
| KL-0040-2523 | Adaptor, 3/8"NPT to G1/4" (e.g. Nike) |

NOTE: The hydraulic cylinders from von Blackhawk, Car Bench, Celette, Enerpac, OTC and Yale are equipped with 3/8"NPT connections.

Couplings (for KL-0215-35, -36 or -37)

| Part No. | Description |
|-------------|------------------------------------|
| KL-0215-321 | Coupling half, hose side, 1/4"NPT |
| KL-0215-322 | Coupling half, cylinder side, 1/4" |

KL-0040-2829 - Pressure Gauge

The pressure gauge needs to be screw-fitted between the hydraulic pump and hydraulic hose so as to allow the hydraulic pressure to be monitored during operation.

The pressure gauge features an additional tonne scale that is specifically adapted to our **KL-0040-2800** hydraulic cylinder.

(E.g. for KL-0215-35 or KL-0215-36)

| | |
|-------------------|----------|
| Measuring range | 1000 bar |
| Pressure gauge Ø | 71mm |
| Connection thread | 1/4" NPT |

KL-0040-2828 - Pressure Gauge

Like the **KL-0040-2829**, but with 3/8" NPT connection thread.

(E.g. for KL-0215-37)

KL-0040-2890 Safety Belt

By attaching the safety belt **KL-0040-2890** to the vehicle and to the hydraulic cylinder **KL-0040-2800** the latter is prevented from falling.

Hydraulic drive:

Hollow piston cylinder for pulling and pushing operations
e.g. KL-0040-2800

Adaptor, e.g. KL-0040-2520

Coupling half, cylinder side
KL-0215-322

Pressure or pull spindle, e.g. KL-0040-2810 (pressure spindle)

Pressure gauge, e.g. KL-0040-2829

Hose, e.g. KL-0215-31

Hydraulic pump, e.g. KL-0215-33 (hand pump)

Spare Parts List: KL-0040-2800 Hydraulic Cylinder

1 2 3 4

5 6 4

7 8 9 10

Accessory: KL-0215-35 M28 Hydraulic Hand Pump

Technical Data:
KL-0040-2800 - Hydraulic Cylinder

| | |
|---|-------------------|
| Admissible maximum force: | 285kN (28t) |
| Maximum stroke: | 50mm |
| Maximum oil volume: | 216.3cm³ |
| Piston area: | 40.6cm² |
| Through bore in hollow piston: | M24 |
| Retaining thread (pushing side): | 2 ¾ "-16 UN |
| Retaining thread (pulling side): | M42×2 |
| Cylinder external diameter | 99mm |
| Cylinder overall height (piston retracted): | 235mm |
| Cylinder overall height (piston extended): | 285mm |
| Oil connection: | 3/8"NPT |
| Weight: | 9.6kg |
| Hydraulic oil: | HLP 46 or HLPD 46 |

Spare Parts List
KL-0040-2800 Hydraulic Cylinder

| Pos. | Part No. | Description | Qty |
|--------------|--------------|---------------------------|-----|
| | KL-0040-2800 | Hydraulic Cylinder, 28t | 1 |
| composed of: | | | |
| 1 | KL-0035-0018 | Cheese Head Screw, M10x16 | 2 |
| 2 | KL-0040-2805 | Adaptor | 1 |
| 3 | KL-0040-2803 | Inner tube | 1 |
| 4 | KL-0040-2808 | Sealing Ring, Ø 43mm | 2 |
| 5 | KL-0040-2801 | Housing | 1 |
| 6 | KL-0040-2807 | Sealing Ring, Ø 80mm | 1 |
| 7 | KL-0040-2802 | Piston | 1 |
| 8 | KL-0040-2806 | Compression Spring | 1 |
| 9 | KL-0040-2804 | Threaded Ring | 1 |
| 10 | KL-0040-2809 | Circlip SB85 | 1 |

Accessory:
KL-0215-35 M28 Hydraulic Hand Pump

The hydraulic hand pump **KL-0215-35 M28** can be used in conjunction with the **KL-0040-2800** hydraulic cylinder as a drive for our pulling and pressing devices.

NOTE:
When operating the pump, the hydraulic pressure and necessary force can be monitored at pressure gauge **KL-0040-2829** (supplied with the tool set). The pressure gauge features an additional tonne scale which is precisely adapted to our **KL-0040-2800** hydraulic cylinder (28t).

Scope of Delivery: (KL-0215-35 M28)

| Part No. | Description | Qty |
|----------------|--|-----|
| KL-0215-35 M28 | Hydraulic Hand Pump | 1 |
| composed of: | | |
| KL-0215-33 | Hydraulic Hand Pump (without hose) | 1 |
| KL-0215-31 | Hydraulic Hose, 1.8m, with hose-side coupling half | 1 |
| KL-0215-322 | Coupling half, cylinder side, 1/4"NPT | 1 |
| KL-0040-2520 | Adaptor 3/8"NPT to 1/4"NPT | 1 |
| KL-0040-2829 | Pressure Gauge | 1 |

Weight: 7.5kg
Maximum pressure:700 bar