

TEMA System 100

High-Pressure Hoses

Technical description

TEMA high-pressure hose – produced for measurements and mini-hydraulic systems. Exact selection of materials and production under strict control contribute to the satisfaction and reliable safety of the product. Max. working pressure 630 bar.

Material

Inner and outer hose: high-quality POLYAMIDE

Pressure carrier: KEVLAR

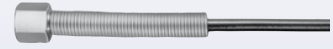
Caution: If the hoses are to be used for compressed air, this must be mentioned in the order.

Advantages

- Remains flexible, even under full working pressure, thanks to its small external dimensions and a suitable choice of materials.
- Resistant to all mineral and most synthetic oils
- Resistant to ageing
- No increase in volume (no differences in measurements)
- Temperature range from -40°C to +100°C

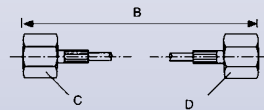
In order to achieve optimal durability, the hoses can be strengthened with a spring at each end.

Add-on code "F" after the item number of each connection.



Ordering example for a complete high-pressure hose:

| | B | C | D |
|-----------|----------------|------------------------------|----------------------------------|
| T200K | 1,6 | T210F | T240 |
| PA11 hose | Total-length m | G 1/8 female thread + spring | Pressure gauge connection G 1/4" |



| Type | Working Pressure | Burst Pressure | Inner dimensions | Outer dimensions |
|-------|------------------|----------------|------------------|------------------|
| T200K | 630 bar | 2000 bar | 2,0 mm | 4,9 mm |
| T400K | 500 bar | 2000 bar | 4,1 mm | 8,0 mm |

Temperature range from -40°C to +93°C.

Connections

TEMA System 100 High-pressure Hoses

Caution! The hoses are produced in various lengths. Please specify hose and/or total length incl. connecting fittings. Design subject to alterations.





| | Part | ND | Part Number | DS |
|--|--|----|-------------|--------------------------|
| | G 1/8 female thread | 2 | T210 | <input type="checkbox"/> |
| | 7/16-20 UNF | 2 | T211 | <input type="checkbox"/> |
| | G 1/8 male thread | 2 | T220 | <input type="checkbox"/> |
| | 9/16-18 UNF | 2 | T212 | <input type="checkbox"/> |
| | 1/2-20 UNF | 2 | T213 | <input type="checkbox"/> |
| | 9/16-18 UNF | 2 | T215 | <input type="checkbox"/> |
| | 9/16-18 UNF | 4 | T415 | <input type="checkbox"/> |
| | 11/16-18 UNF | 2 | T216 | <input type="checkbox"/> |
| | 9/16-18 UNF 90° | 2 | T217 | <input type="checkbox"/> |
| | 9/16-18 UNF 90° | 4 | T417 | <input type="checkbox"/> |
| | DIN connection with O-ring seal for Ø 8 Class L (DKO 08) G: M 14 x 1,5 | 2 | T262L | <input type="checkbox"/> |
| | Pipe socket Ø 6 mm (BE-06) | 2 | T230 | <input type="checkbox"/> |
| | Pipe socket Ø 8 mm (BE-08) | 2 | T231 | <input type="checkbox"/> |
| | Plug | 2 | T235 | <input type="checkbox"/> |
| | Ring socket for banjo bolt Ø 10 mm | 2 | T238 | <input type="checkbox"/> |
| | Pressure gauge connection G 1/4 female thread | 2 | T240 | <input type="checkbox"/> |
| | DIN connection with O-ring seal for Ø 6 Class L (DKO 06) G: M 12 x 1,5 | 2 | T260L | <input type="checkbox"/> |
| | DIN connection with O-ring seal for Ø 6 Class S (DKO 06) G: M 14 x 1,5 | 2 | T260S | <input type="checkbox"/> |
| | DIN connection with O-ring seal for Ø 8 Class L (DKO 08) G: M 14 x 1,5 | 2 | T261L | <input type="checkbox"/> |
| | DIN connection with O-ring seal for Ø 8 Class S (DKO 08) G: M 16 x 1,5 | 2 | T261S | <input type="checkbox"/> |

DS = Delivery Status: in stock on short call medium term delivery

Connections

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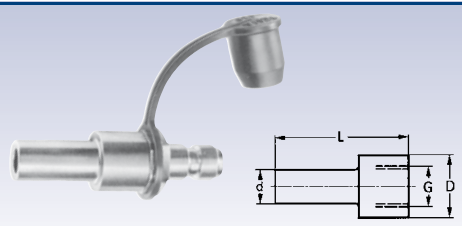
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| | Part | Part Number | DS |
|---|---|-------------|----|
|  | M 16 x 2.0 female thread for measuring nipple | T270 | ■ |
| | M 16 x 1.5 female thread for measuring nipple | T272 | ■ |
|  | M 12 x 1.5 female thread for measuring nipple | T271 | ■ |
| | | | |
|  | M 8 x 1 female thread | T280 | ■ |
| | | | |
|  | M 8 x 1 male thread | T281 | ■ |
| | | | |

Measuring pipe socket

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Measuring nipples can be mounted very easily on machines using measuring supports or screwed pipe joints. Also available with T126 K metal protection cap (see page 432).

| | L | D | G | d | Pressure width | Internal thread | Part Number | Part Number incl. measuring nipple | DS |
|--|----|----|---------|----|----------------|-----------------|-------------|------------------------------------|----|
|  | 32 | 15 | 1/8" i. | 6 | L/S | G 1/8" | T160-1 | T160 | ■ |
| | 32 | 15 | 1/8" i. | 8 | L/S | G 1/8" | T161-1 | T161 | ■ |
| | 32 | 15 | 1/8" i. | 10 | L/S | G 1/8" | T162-1 | T162 | ■ |
| | 32 | 15 | 1/8" i. | 12 | L/S | G 1/8" | T163-1 | T163 | ■ |
| | 32 | 15 | 1/8" i. | 14 | S | G 1/8" | T164-1 | T164 | ■ |
| | 32 | 15 | 1/8" i. | 15 | L | G 1/8" | T165-1 | T165 | ■ |

Measuring cable

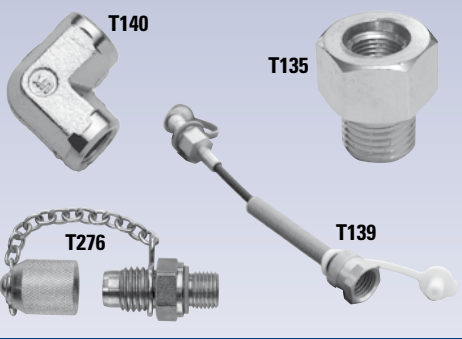
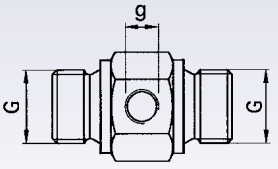
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Measuring cables in other designs and lengths on request.

| | Part | Part Number | DS |
|---|--|-------------|----|
|  | Measuring cable for coupling the measuring handle T101-2 to measuring nipples. Supplied as standard with measuring nipple (T120) and coupling (T150); 2.5 m. | T130 | ■ |
| | Measuring cable for coupling the measuring handle T101-2 to measuring nipples. Supplied as standard with measuring nipple (T120) and coupling (T150); 5 m. | T131 | ■ |
| | | | |
| | | | |

Accessories

TEMA System 100

| | Part | Part Number | DS |
|--|---|---|---------|
|  | Adapter, G 1/4" i. x G 1/8" o. | T135 | ■ |
| | Adapter, G 1/8" i. x G 1/4" o. | T136 | ■ |
| | Adapter, G 1/8" i. x G 1/4" i. | T137 | ■ |
| | Changeover adapter for measuring nipple with M16 thread to TEMA System 100 | T139 | ■ |
| | Angle 90°, G 1/8" i. x G 1/8" i. | T140 | ■ |
| | Plastic case (without picture) | T101-1 | ■ |
| | Rubber guard for pressure gauge, Ø 68 mm (without picture) | T100-40 | ■ |
| | Measuring nipple M 16 x 2 / G 1/4" | T276 | ■ |
| | Measuring nipple M 16 x 2 / G 3/8" | T277 | ■ |
| |  | Double nipple with connecting thread for measuring nipple, G: 1/4"; g: G 1/8" | TDNT2-1 |
| Double nipple with connecting thread for measuring nipple, G: 3/8"; g: G 1/8" | | TDNT3-1 | ■ |
| Double nipple with connecting thread for measuring nipple, G: 1/2"; g: G 1/8" | | TDNT4-1 | ■ |
| Double nipple with connecting thread for measuring nipple, G: 3/4"; g: G 1/8" | | TDNT6-1 | ■ |
| Double nipple with connecting thread for measuring nipple, G: 1"; g: G 1/8" | | TDNT7-1 | ■ |

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■ on short call

□ medium term delivery