

# CENTRALISED LUBRICATION TECHNOLOGY

- LUBRICATION SYSTEMS AND ACCESSORIES
- LUBRICATION PUMPS
- PUMP MOUNTING
- GREASE DISTRIBUTION AND ACCESSORIES
- OIL DISTRIBUTION AND ACCESSORIES

### Complete system kits

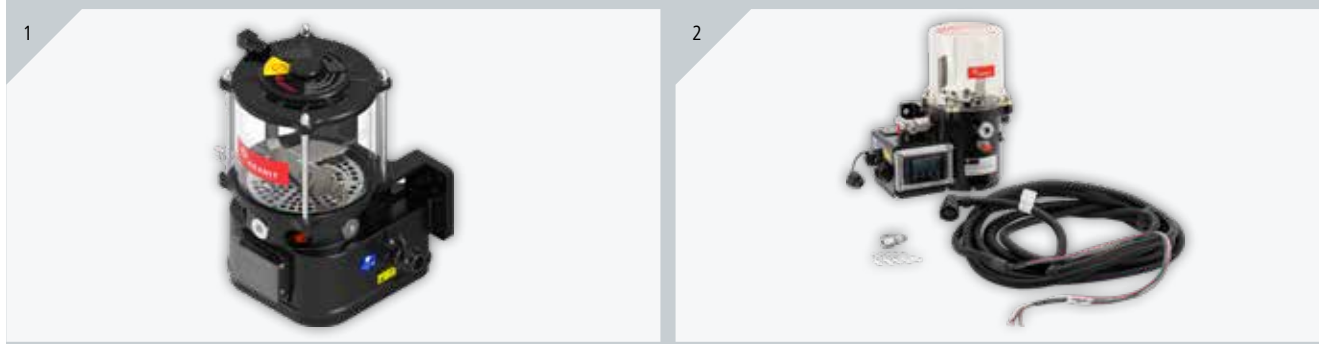


| Part no. | Description                                     | Pump type  | Operating voltage (V) | Tank volume (l) | To fit                           | Technical data            | Fig. no. | PP |
|----------|-------------------------------------------------|------------|-----------------------|-----------------|----------------------------------|---------------------------|----------|----|
| 19173032 | Lubrication system, progressive Complete system | ALPB pump  | 12                    | 2               | Mini excavators up to 3.5 t      | For 18 lubrication points | 1        | 1  |
| 36727005 | Lubrication system, progressive Complete system | ALP81 pump | 12                    | 1.2             | Mini excavators up to 3.5 t      | For 18 lubrication points | 2        | 1  |
| 36573800 | Lubrication system, progressive Complete system | ALP81 pump | 12                    | 1.2             | CAT wheel loaders 906M/907M/908M | For 19 lubrication points | 2        | 1  |

### Lubrication pumps

- Connection for pump element: M22x1.5
- With integrated AK06 control unit

- Protection class: IP65
- Pumped medium: grease up to NLGI class 2 (no lubricants containing solids), no oils

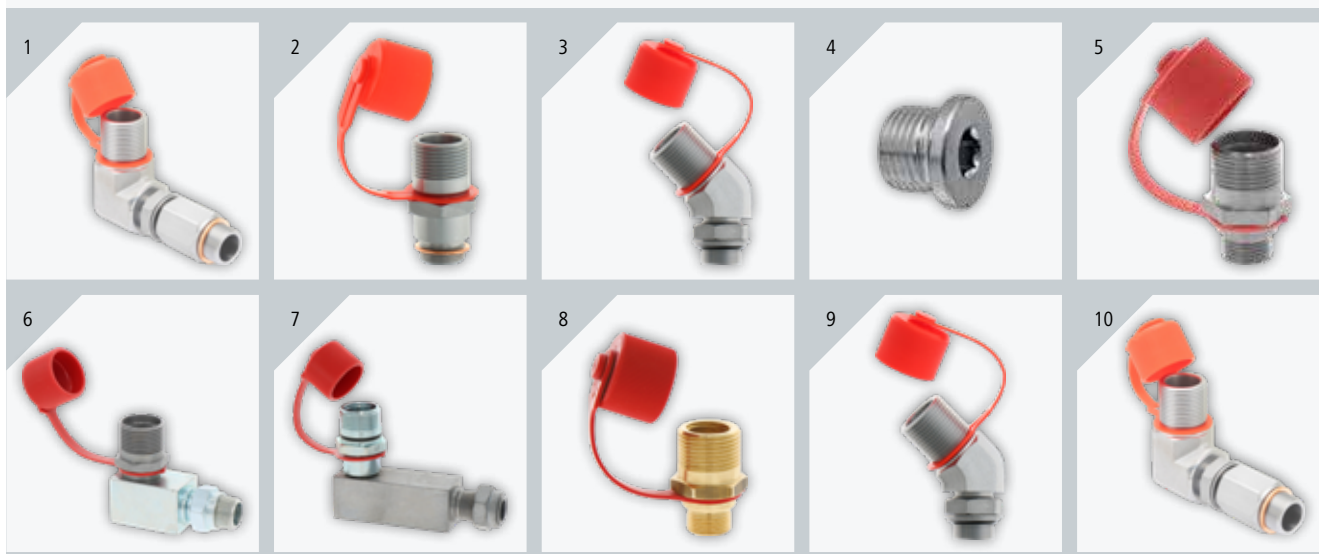


| Part no. | Description                                    | Voltage (V) | Filling capacity (kg) | Version                                                                                                                                                                   | Fig. no. | PP |
|----------|------------------------------------------------|-------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| 11092131 | Electric pump With 12V control and grease tank | 12          | 2                     | With min. filling level warning, PE 2.5 cm³/min. - PE with safety valve type C (without grease return), cover and housing made of aluminium, grease refill: grease nipple | 1        | 1  |
| 11088243 | Electric pump With 24V control and grease tank | 24          | 2                     | With min. filling level warning, PE 2.5 cm³/min. - PE with safety valve type C (without grease return), cover and housing made of aluminium, grease refill: grease nipple | 1        | 1  |
| 11094514 | Electric pump With 24V control and grease tank | 24          | 4                     | With min. filling level warning, PE 2.5 cm³/min. - PE with safety valve type C (without grease return), cover and housing made of aluminium, grease refill: grease nipple | 1        | 1  |
| 35898007 | Electric pump With 12V control and grease tank | 12          | 1.2                   | With min. filling level warning, PE 2.5 cm³/min. - PE with safety valve type C (without grease return), cover and housing made of aluminium, grease refill: grease nipple | 2        | 1  |
| 19968858 | Electric pump With 24V control and grease tank | 24          | 1.2                   | With min. filling level warning, PE 2.5 cm³/min. - PE with safety valve type C (without grease return), cover and housing made of aluminium, grease refill: grease nipple | 2        | 1  |

Other pump versions can be found in our webshop.

**Pump parts**


| Part no. | Description                                         | Technical data                                                                                                                                                                                                                                                                              | To fit            | Connection type       | Version                  | PP |
|----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------------------|----|
| 11934243 | <b>Pump part</b><br>Without pressure limiting valve | Delivery rate 4.5 cm <sup>3</sup> /min.                                                                                                                                                                                                                                                     | Pumps series ALPB | Male thread M22 x 1.5 | With copper sealing ring | 1  |
| 11936646 | <b>Pump part</b><br>Without pressure limiting valve | Delivery rate 2.5 cm <sup>3</sup> /min.                                                                                                                                                                                                                                                     | Pumps series ALPB | Male thread M22 x 1.5 | With copper sealing ring | 1  |
| 11736202 | <b>Pump part</b><br>Without pressure limiting valve | Delivery rate 1.5 cm <sup>3</sup> /min.                                                                                                                                                                                                                                                     | Pumps series ALPB | Male thread M22 x 1.5 | With copper sealing ring | 1  |
| 11513775 | <b>Pressure limiting valve</b><br>Type A (SV-A) kit | DBV-C without bypass function<br>DBV-C is set to 300 bar<br>If the system pressure exceeds the valve's preset pressure, the DBV-C safety valve opens, and lubricant is discharged through the safety valve's overpressure outlet<br>Please observe the applicable environmental regulations |                   |                       |                          | 1  |

**Grease tank filling and accessories**


| Part no.    | Description                          | To fit                           | Version                                                  | Thread 1 (mm) | Fig. no. | PP |
|-------------|--------------------------------------|----------------------------------|----------------------------------------------------------|---------------|----------|----|
| 11087156    | <b>Adjustable filling connection</b> | Granit central lubrication pumps | 90°, long version, without check valve                   | M22 x 1.5     | 1        | 1  |
| 11087439    | <b>Straight filling connection</b>   | Granit central lubrication pumps | Straight version, without check valve                    | M22 x 1.5     | 2        | 1  |
| 11094512    | <b>Adjustable filling connection</b> | Granit central lubrication pumps | 45°, long version                                        | M22 x 1.5     | 3        | 1  |
| 11094513    | <b>Blanking plug</b>                 | Granit central lubrication pumps | With seal, for pump outlet                               | M22 x 1.5     | 4        | 1  |
| 30615ZS1939 | <b>Straight filling connection</b>   | Filling electric pump EP-1       | Straight version, without check valve                    | M20 x 1.5     | 5        | 1  |
| 30615ZS2028 | <b>Filling connection 90°, short</b> | Filling electric pump EP-1       | 90° version, without check valve                         | M20 x 1.5     | 6        | 1  |
| 30615ZS2078 | <b>Filling connection 90°, long</b>  | Filling electric pump EP-1       | 90° version, without check valve                         | M20 x 1.5     | 7        | 1  |
| 30615ZS2086 | <b>Filling connection</b>            | (Rainer) Fuchs cartridges        | Straight version, without check valve, with Fuchs thread | M20 x 1.5     | 8        | 1  |
| 11084168    | <b>Adjustable filling connection</b> | Beka & SKF                       | 45°, long version, without check valve                   | M20 x 1.5     | 9        | 1  |
| 11088553    | <b>Adjustable filling connection</b> | Beka & SKF                       | 90°, long version                                        | M20 x 1.5     | 10       | 1  |

**Grease tank filling and accessories**


| Part no. | Description                             | To fit                              | Version                                                 | Thread 1 (mm) | Fig. no. | PP |
|----------|-----------------------------------------|-------------------------------------|---------------------------------------------------------|---------------|----------|----|
| 11091921 | Straight filling connection             | Beka & SKF                          | Straight version, without check valve                   | M20 x 1.5     | 1        | 1  |
| 11646352 | High-pressure filling adaptor, straight | Pneumatic or electric filling pumps | Quick filling connection with protective cap, pump side | M14 x 1.5     | 2        | 1  |
| 11674870 | Quick filling coupling                  | Pneumatic or electric filling pumps | Quick filling connection on hose side, female           | 1/4"          | 3        | 1  |
| 11051933 | One-handed filling gun                  |                                     | For 400 g pull-off cartridges or 500 g bulk grease      |               | 4        | 1  |
| 11053313 | Filling gun                             |                                     | For 400 g pull-off cartridges or 500 g bulk grease      |               | 5        | 1  |

**Progressive distributors**

Connection M10 x 1  
 Distributor elements from different manufacturers cannot be combined with one another



| Part no. | Description     | Technical data                                          | Included in delivery            | Fig. no. | PP |
|----------|-----------------|---------------------------------------------------------|---------------------------------|----------|----|
| 18525139 | Initial element | Without outlets                                         | Including O-ring and guide pins | 1        | 1  |
| 19172875 | Middle element  | Metering volume 80 mm <sup>3</sup> per outlet / stroke  | Including O-ring and guide pins | 2        | 1  |
| 18542427 | Middle element  | Metering volume 320 mm <sup>3</sup> per outlet / stroke | Including O-ring and guide pins | 2        | 1  |
| 18542711 | Middle element  | Metering volume 240 mm <sup>3</sup> per outlet / stroke | Including O-ring and guide pins | 2        | 1  |
| 12427082 | Middle element  | Metering volume 160 mm <sup>3</sup> per outlet / stroke | Including O-ring and guide pins | 2        | 1  |
| 19175017 | End element     | Metering volume 160 mm <sup>3</sup> per outlet / stroke |                                 | 3        | 1  |
| 19190793 | End element     | Metering volume 80 mm <sup>3</sup> per outlet / stroke  |                                 | 3        | 1  |
| 18446031 | End element     | Metering volume 240 mm <sup>3</sup> per outlet / stroke |                                 | 3        | 1  |
| 19175018 | End element     | Metering volume 320 mm <sup>3</sup> per outlet / stroke |                                 | 3        | 1  |

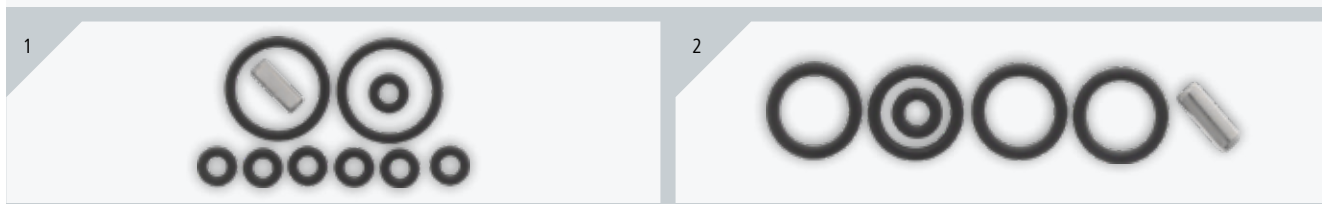
**Tie rods for distributor assemblies**

Distributor elements and accessories from different manufacturers cannot be combined with one another



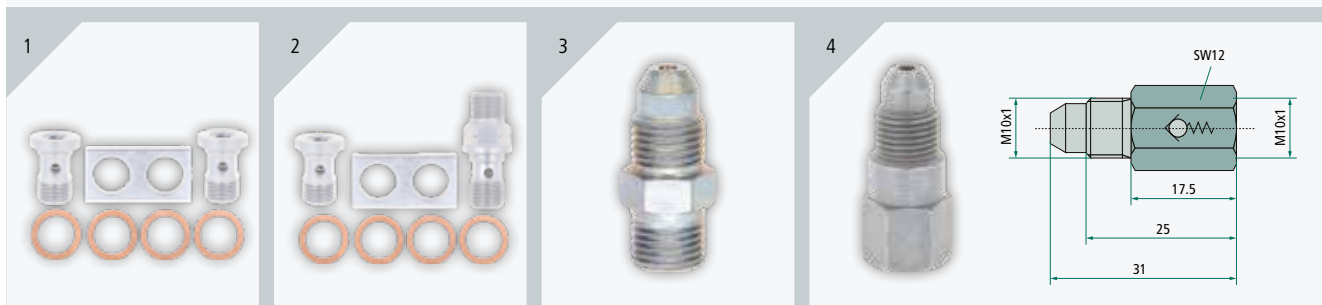
| Part no. | Description   | Version                                                            | Fig. no. | PP |
|----------|---------------|--------------------------------------------------------------------|----------|----|
| 12403499 | Tie rod       | Tie rod for 1 initial element, 2 middle elements and 1 end element | 1        | 1  |
| 19173349 | Tie rod       | Tie rod for 1 initial element, 3 middle elements and 1 end element | 1        | 1  |
| 19200271 | Tie rod       | Tie rod for 1 initial element, 4 middle elements and 1 end element | 1        | 1  |
| 11011494 | Tie rod       | Tie rod for 1 initial element, 5 middle elements and 1 end element | 1        | 1  |
| 19405258 | Tie rod       | Tie rod for 1 initial element, 7 middle elements and 1 end element | 1        | 1  |
| 19382262 | Tie rod       | Tie rod for 1 initial element, 8 middle elements and 1 end element | 1        | 1  |
| 19191012 | Spring washer |                                                                    | 2        | 1  |

### Seal kits for progressive distributors



| Part no. | To fit          | Fig. no. | PP |
|----------|-----------------|----------|----|
| 36698463 | Initial element | 1        | 1  |
| 36691167 | Middle element  | 2        | 1  |

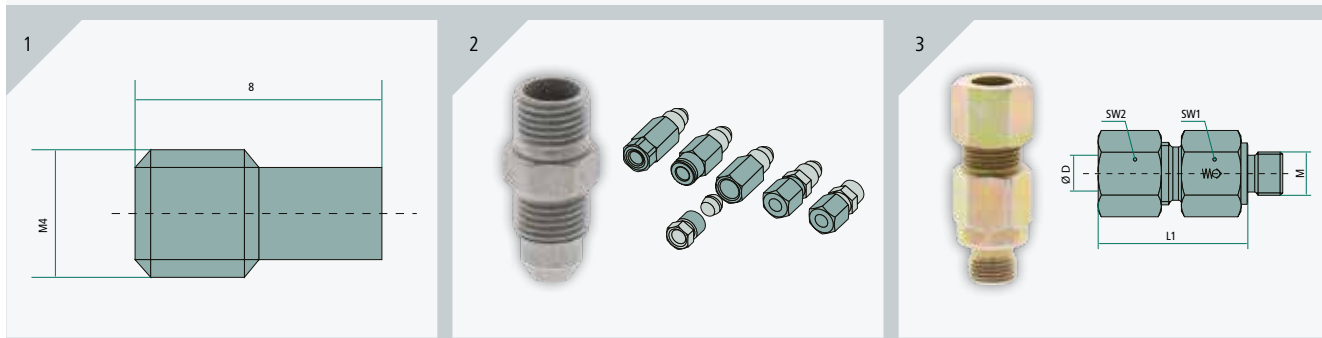
### Accessories for Granit distributors



| Part no. | Description        | Technical data                                                     | Version                             | Included in delivery                     | L1 (mm) | Pipe D (mm) | Thread 1 (mm) | Thread 2 (mm) | Fig. no. | PP |
|----------|--------------------|--------------------------------------------------------------------|-------------------------------------|------------------------------------------|---------|-------------|---------------|---------------|----------|----|
| 11011495 | Distributor bridge | Kit without outlet                                                 | Connection M10 x 1 as blanking plug | Including sealing rings for installation |         |             |               |               | 1        | 1  |
| 12557457 | Distributor bridge | Kit with an outlet for single-edge cutting ring                    | Connection M10 x 1 with check valve | Including sealing rings for installation |         |             |               |               | 2        | 1  |
| 19226063 | Check valve        | Opening pressure (bar): 3 - 4<br>Flow direction: from screw-in pin | Straight                            |                                          | 26.5    | 6           | M10 x 1 male  | M10 x 1 male  | 3        | 1  |
| 19226360 | Check valve        |                                                                    |                                     |                                          | 31      | 6           | M10 x 1       | M10 x 1       | 4        | 1  |

### GRANIT accessories for BEKA distributors

Distributor elements and accessories from different manufacturers cannot be combined with one another



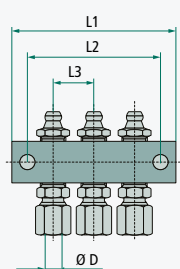
| Part no.    | Description      | Series | Pipe D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | S2 (mm) | Thread 1 (mm) | Fig. no. | PP |
|-------------|------------------|--------|-------------|---------|---------|---------|---------|---------|---------------|----------|----|
| 30615ZS2018 | Separating screw | MX-F   | 8           |         |         |         |         |         | M4            | 1        | 1  |
| 30615ZS1972 | Check valve      | MX-F   | 6           | 32.5    | 13.5    | 6       | 11      |         | M10 x 1       | 2        | 1  |
| 30615ZS2067 | Check valve      | L      | 8           | 34      |         |         | 14      | 17      | 1/8"          | 3        | 1  |



**GRANIT**  
QUALITY PARTS

Lubrication systems and accessories  
Lubrication lines, grease distribution and replacement parts assortments

### Nipple blocks



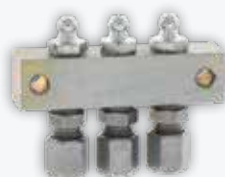
1



2



3



4



5



6



7



8



| Part no.    | L1 (mm) | L2 (mm) | L3 (mm) | Pipe D (mm) | Connection type                                                        | Fig. no. | PP |
|-------------|---------|---------|---------|-------------|------------------------------------------------------------------------|----------|----|
| 30615ZS1944 | 32      | 20      |         | 6           | 1x tapered grease nipple 180°, 1x pipe connection Ø 6 with cap screw 6 | 1        | 1  |
| 30615ZS1945 | 52      | 40      | 16      | 6           | 2x tapered grease nipple 180°, 2x pipe connection Ø 6 with cap screw 6 | 2        | 1  |
| 30615ZS1960 | 64      | 52      | 16      | 6           | 3x tapered grease nipple 180°, 3x pipe connection Ø 6 with cap screw 6 | 3        | 1  |
| 30615ZS1937 | 88      | 81      | 21      | 6           | 4x tapered grease nipple 180°, 4x pipe connection Ø 6 with cap screw 6 | 4        | 1  |
| 30615ZS1975 | 96      | 84      | 16      | 6           | 5x tapered grease nipple 180°, 5x pipe connection Ø 6 with cap screw 6 | 5        | 1  |
| 30615ZS2013 | 112     | 100     | 16      | 6           | 6x tapered grease nipple 180°, 6x pipe connection Ø 6 with cap screw 6 | 6        | 1  |
| 30615ZS1992 | 128     | 116     | 16      | 6           | 7x tapered grease nipple 180°, 7x pipe connection Ø 6 with cap screw 6 | 7        | 1  |
| 30615ZS2014 | 144     | 132     | 16      | 6           | 8x tapered grease nipple 180°, 8x pipe connection Ø 6 with cap screw 6 | 8        | 1  |

90° version can be found in our webshop.

### Lubrication strips

Without VS/grease nipple



1



2



3



4



| Part no.    | Description            | Thread 1 (mm) | Fig. no. | PP |
|-------------|------------------------|---------------|----------|----|
| 30615ZS2082 | Lubrication strip SL 1 | R 1/8         | 1        | 1  |
| 30615ZS2083 | Lubrication strip SL 2 | R 1/8         | 2        | 1  |
| 30615ZS2084 | Lubrication strip SL 3 | R 1/8         | 3        | 1  |
| 30615ZS2085 | Lubrication strip SL 4 | R 1/8         | 4        | 1  |



**GRANIT**  
QUALITY PARTS

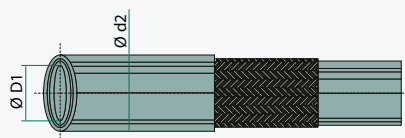
# Lubrication systems and accessories

## Lubrication lines, grease distribution and replacement parts assortments



### High-pressure hose

Material: plastic/synthetic mesh



| Part no.    | Dimensions (mm) | Outer Ø (mm) | Version        | Roll length (m) | PP |
|-------------|-----------------|--------------|----------------|-----------------|----|
| 11095719    | 8.6 x 2.3       | 8.6          | With grease    | 3               | 1  |
| 11054689    | 8.6 x 2.3       | 8.6          | With grease    | 5               | 1  |
| 11055482    | 8.6 x 2.3       | 8.6          | With grease    | 10              | 1  |
| 11059574    | 8.6 x 2.3       | 8.6          | With grease    | 15              | 1  |
| 11013063    | 8.6 x 2.3       | 8.6          | With grease    | 20              | 1  |
| 11055799    | 8.6 x 2.3       | 8.6          | With grease    | 25              | 1  |
| 30615ZS1881 | 8.6 x 2.3       | 8.6          | With grease    | 50              | 1  |
| 30615ZS1924 | 8.6 x 2.3       | 8.6          | Without grease | 50              | 1  |



### Polyamide tube

Material: polyamide plastic tube



| Part no.    | Dimensions (mm) | Outer Ø (mm) | Version                          | Specification | Roll length (m) | PP |
|-------------|-----------------|--------------|----------------------------------|---------------|-----------------|----|
| 30615ZS1901 | 4 x 0.85        | 4            | Without low-viscosity grease     | Soft plastic  |                 | 1  |
| 30615ZS1920 | 4 x 0.85        | 4            | Filled with low-viscosity grease | Hard plastic  |                 | 1  |
| 11055481    | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 3               | 1  |
| 11055798    | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 5               | 1  |
| 11028694    | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 10              | 1  |
| 11095036    | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 15              | 1  |
| 11052711    | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 20              | 1  |
| 11095035    | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 25              | 1  |
| 30615ZS2101 | 6 x 1.5         | 6            | Filled with low-viscosity grease | Hard plastic  | 100             | 1  |
| 30615ZS2074 | 6 x 1.5         | 6            | Without low-viscosity grease     | Hard plastic  | 100             | 1  |

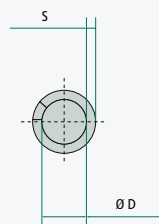
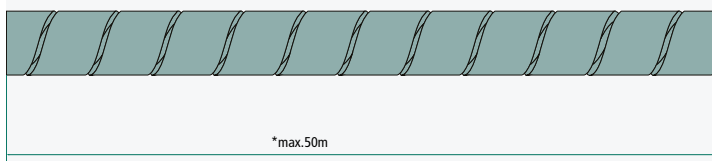
Further versions can be found in our webshop.



### Line protection

Application temperature range: -50°C to +85°C

Material: polyethylene, black



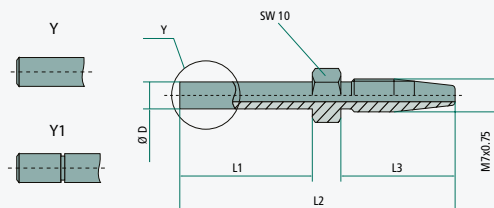
| Part no. | Description | Outer Ø (mm) | Pipe D (mm) | S (mm) | Roll length (m) | PP |
|----------|-------------|--------------|-------------|--------|-----------------|----|
| 11060066 | Coiled pipe | 12           | 9           | 1.5    | 10              | 1  |
| 12138562 | Coiled pipe | 12           | 9           | 1.5    | 25              | 1  |

### Pipe connection 180°

Galvanised steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors,  
can be removed without tools



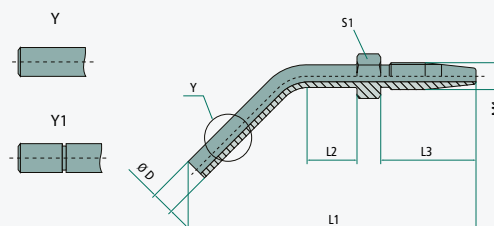
| Part no.    | L1 (mm) | L2 (mm) | L3 (mm) | Connection type | Thread 1 (mm) | Pipe D (mm) | Application                                 | PP |
|-------------|---------|---------|---------|-----------------|---------------|-------------|---------------------------------------------|----|
| 30615ZS1897 | 18      | 49.1    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1890 | 20      | 51.1    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1917 | 24      | 55.1    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1977 | 24      | 55.1    | 25      | Y1              | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1891 | 30      | 61.1    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1930 | 30      | 61.1    | 25      | Y1              | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 19226359    | 30      | 61.1    | 25      |                 | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1929 | 22      | 67.3    | 38      | Y               | M9x1          | 8           | For mounting a high-pressure hose Ø11.2x6.3 | 1  |

### Pipe connection 45°

Galvanised steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors,  
can be removed without tools



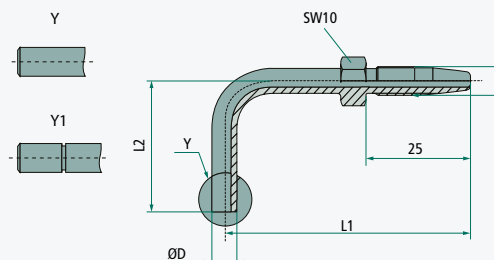
| Part no.    | L1 (mm) | L2 (mm) | L3 (mm) | Connection type | Thread 1 (mm) | Pipe D (mm) | Application                                 | PP |
|-------------|---------|---------|---------|-----------------|---------------|-------------|---------------------------------------------|----|
| 30615ZS1943 | 68.3    | 18.5    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1909 | 79.1    | 28.4    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1990 | 61      |         |         | Y1              | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS2007 | 104     | 6       | 40      | Y               | M9x1          | 8           | For mounting a high-pressure hose Ø11.2x6.5 | 1  |

### Pipe connection 90°

Galvanised steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors,  
can be removed without tools



| Part no.    | L1 (mm) | L2 (mm) | L3 (mm) | Connection type | Thread 1 (mm) | Pipe D (mm) | Application                                 | PP |
|-------------|---------|---------|---------|-----------------|---------------|-------------|---------------------------------------------|----|
| 30615ZS1911 | 45.1    | 20.7    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1928 | 45.1    | 32.7    | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1983 | 45.1    | 32.7    | 25      | Y1              | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1997 | 55      | 30      | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1895 | 59      | 38      | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1915 | 59      | 50      | 25      | Y               | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS2076 | 59      | 50      | 25      | Y1              | M7x0.75       | 6           | For mounting a high-pressure hose Ø8.6x4    | 1  |
| 30615ZS1996 | 35      | 63.5    | 40      | Y               | M9x1          | 8           | For mounting a high-pressure hose Ø11.2x6.5 | 1  |
| 30615ZS2038 | 55      | 63.5    | 40      | Y               | M9x1          | 8           | For mounting a high-pressure hose Ø11.2x6.5 | 1  |



### Cable connection

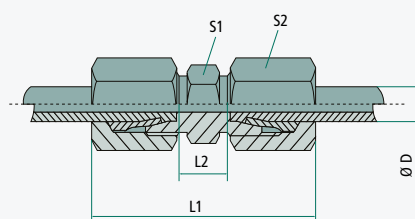
Cutting rings, double taper rings, screw sleeves and union nuts for cable connection



| Part no.    | Description       | Pipe D (mm) | Series | Thread 1 (mm) | Material         | Fig. no. | PP |
|-------------|-------------------|-------------|--------|---------------|------------------|----------|----|
| 30615ZS1903 | Double taper ring | 4           |        |               | Brass            | 1        | 1  |
| 30615ZS1973 | Double taper ring | 4           |        |               | Galvanised steel | 2        | 1  |
| 30615ZS1888 | Double taper ring | 6           |        |               | Brass            | 3        | 1  |
| 30615ZS1900 | Double taper ring | 6           |        |               | Galvanised steel | 4        | 1  |
| 30615ZS1902 | Cutting ring      | 4           | LL     |               | Galvanised steel | 5        | 1  |
| 30615ZS1880 | Cutting ring      | 6           | LL     |               | Galvanised steel | 6        | 1  |
| 30615ZS1893 | Cutting ring      | 6           | L/S    |               | Galvanised steel | 7        | 1  |
| 30615ZS1938 | Cutting ring      | 8           | LL     |               | Galvanised steel | 8        | 1  |
| 30615ZS1965 | Cutting ring      | 8           | L/S    |               | Galvanised steel | 9        | 1  |
| 30615ZS1941 | Union nut         | 4           | LL     | M8x1          | Galvanised steel | 10       | 1  |
| 30615ZS1886 | Union nut         | 6           | LL     | M10x1         | Galvanised steel | 11       | 1  |
| 30615ZS1912 | Union nut         | 6           | L      | M12x1.5       | Galvanised steel | 12       | 1  |
| 30615ZS1982 | Union nut         | 6           | S      | M14x1.5       | Galvanised steel | 13       | 1  |
| 30615ZS1935 | Union nut         | 8           | LL     | M12x1         | Galvanised steel | 14       | 1  |
| 30615ZS1968 | Union nut         | 8           | L      | M14x1.5       | Galvanised steel | 15       | 1  |
| 30615ZS1916 | Cap screw         | 6           |        | M10x1         | Galvanised steel | 16       | 1  |
| 30615ZS1879 | Screw sleeve      | 4           |        | M7x0.75       | Galvanised steel | 17       | 1  |
| 19217895    | Screw sleeve      |             |        | M7x0.75       | Stainless steel  | 17       | 1  |
| 12365908    | Screw sleeve      |             |        | M9 x 1        | Galvanised steel | 17       | 1  |



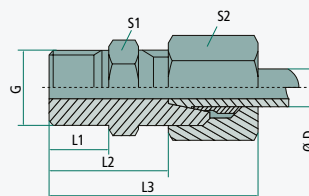
### Straight threaded fittings



| Part no.    | Series | Pipe D (mm) | L1 (mm) | L2 (mm) | S1 (mm) | S2 (mm) | Material         | PP |
|-------------|--------|-------------|---------|---------|---------|---------|------------------|----|
| 30615ZS1914 | LL     | 4           | 31      | 12      | 9       | 10      | Galvanised steel | 1  |
| 30615ZS1883 | LL     | 6           | 32      | 9       | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1927 | L      | 6           | 39      | 10      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS1940 | S      | 6           | 45      | 16      | 14      | 17      | Galvanised steel | 1  |
| 30615ZS1921 | LL     | 8           | 35      | 12      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS1989 | L      | 8           | 40      | 11      | 14      | 17      | Galvanised steel | 1  |
| 30615ZS2048 | S      | 8           | 47      | 18      | 17      | 19      | Galvanised steel | 1  |
| 19225486    | LL     | 6           | 39      | 9       | 11      | 12      | Stainless steel  | 1  |



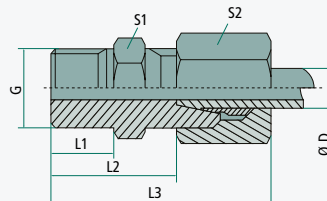
### Straight screw-in fittings with straight thread



| Part no.    | Series | Thread 1 (mm) | Pipe D (mm) | S1 (mm) | S2 (mm) | Material         | PP |
|-------------|--------|---------------|-------------|---------|---------|------------------|----|
| 30615ZS1955 | LL     | 1/8"          | 6           | 14      | 12      | Galvanised steel | 1  |
| 30615ZS1985 | LL     | 1/8"          | 8           | 14      | 14      | Galvanised steel | 1  |
| 30615ZS2030 | L      | 1/4"          | 6           | 19      | 14      | Galvanised steel | 1  |
| 30615ZS2002 | L      | 1/4"          | 8           | 19      | 17      | Galvanised steel | 1  |
| 30615ZS2032 | S      | 1/4"          | 6           | 19      | 17      | Galvanised steel | 1  |
| 30615ZS2003 | S      | 1/4"          | 8           | 19      | 19      | Galvanised steel | 1  |
| 19225265    | L      | M10x1         | 6           | 14      | 14      | V4A              | 1  |



### Straight screw-in fittings with tapered thread



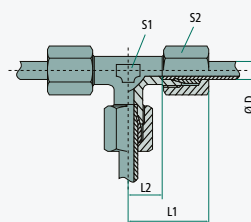
| Part no.    | Series | Thread 1 (mm) | Pipe D (mm) | S1 (mm) | S2 (mm) | Material         | PP |
|-------------|--------|---------------|-------------|---------|---------|------------------|----|
| 30615ZS2043 | LL     | R1/8"t        | 4           | 11      | 10      | Galvanised steel | 1  |
| 30615ZS1926 | LL     | R1/8"t        | 6           | 11      | 12      | Galvanised steel | 1  |
| 30615ZS2022 | S      | R1/4"t        | 6           | 17      | 17      | Galvanised steel | 1  |
| 30615ZS2001 | LL     | M6t           | 4           | 10      | 10      | Galvanised steel | 1  |
| 30615ZS1892 | LL     | M6t           | 6           | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1987 | LL     | M8x1t         | 4           | 10      | 10      | Galvanised steel | 1  |
| 30615ZS1884 | LL     | M8x1t         | 6           | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1953 | LL     | M10x1t        | 4           | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1885 | LL     | M10x1t        | 6           | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1899 | L      | M10x1t        | 6           | 14      | 14      | Galvanised steel | 1  |
| 30615ZS1934 | LL     | M10x1t        | 8           | 12      | 14      | Galvanised steel | 1  |
| 19220910    | LL     | R1/8"t        | 6           | 11      | 12      | V2A              | 1  |



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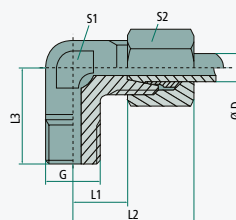
Lubrication systems and accessories  
Lubrication lines, grease distribution and replacement parts assortments

### T-shaped threaded fittings



| Part no.    | Series | Pipe D (mm) | L1 (mm) | L2 (mm) | S1 (mm) | S2 (mm) | PP |
|-------------|--------|-------------|---------|---------|---------|---------|----|
| 30615ZS1979 | LL     | 6           | 21      | 9.5     | 11      | 12      | 1  |
| 30615ZS2050 | L      | 6           | 27      | 12      | 12      | 14      | 1  |
| 30615ZS2049 | LL     | 8           | 23      | 11.5    | 12      | 14      | 1  |
| 30615ZS2051 | L      | 8           | 29      | 14      | 14      | 17      | 1  |

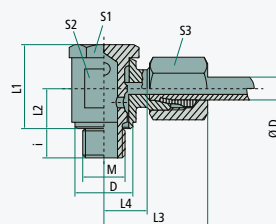
### Angled screw-in fittings



| Part no.    | Series | Thread 1 (mm) | Pipe D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | S2 (mm) | Material         | PP |
|-------------|--------|---------------|-------------|---------|---------|---------|---------|---------|------------------|----|
| 30615ZS1962 | LL     | M6t           | 4           | 11      | 21      | 17      | 9       | 10      | Galvanised steel | 1  |
| 30615ZS1988 | LL     | M8x1t         | 4           | 11      | 21      | 17      | 9       | 10      | Galvanised steel | 1  |
| 30615ZS1970 | LL     | M10x1t        | 4           | 11      | 21      | 17      | 11      | 10      | Galvanised steel | 1  |
| 30615ZS2044 | LL     | R1/8"t        | 4           | 11      | 21      | 17      | 11      | 10      | Galvanised steel | 1  |
| 30615ZS1894 | LL     | M6t           | 6           | 9.5     | 21      | 17      | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1887 | LL     | M8x1t         | 6           | 9.5     | 21      | 17      | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1882 | LL     | M10x1t        | 6           | 9.5     | 21      | 17      | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1913 | L      | M10x1t        | 6           | 12      | 27      | 20      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS1951 | LL     | R1/8"t        | 6           | 10      | 22      | 17      | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1966 | LL     | M10x1t        | 8           | 11.5    | 23      | 20      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS2004 | LL     | R1/8"t        | 8           | 11.5    | 23      | 20      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS2024 | L      | R1/4"t        | 8           | 14      | 29      | 27      | 14      | 17      | Galvanised steel | 1  |
| 19208114    | S      | R1/4"t        | 6           | 16      | 31      | 27      | 14      | 17      | Galvanised steel | 1  |

### Angled swivelling threaded fittings

Material: galvanised steel



| Part no.    | Series | Thread 1 (mm) | Pipe D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | S1 (mm) | S2 (mm) | S3 (mm) | PP |
|-------------|--------|---------------|-------------|---------|---------|---------|---------|---------|---------|---------|----|
| 30615ZS2033 | LL     | M8x1          | 4           | 18      | 8       | 21      | 11.5    | 14      | 14      | 12      | 1  |
| 30615ZS2025 | LL     | M10x1         | 4           | 20      | 9.5     | 22      | 10      | 14      | 14      | 12      | 1  |
| 30615ZS1957 | LL     | M8x1          | 6           | 20      | 9.5     | 22      | 10      | 14      | 14      | 12      | 1  |
| 30615ZS1993 | LL     | M10x1         | 6           | 20      | 9.5     | 22      | 10      | 14      | 14      | 12      | 1  |
| 30615ZS1976 | L      | M10x1         | 6           | 22      | 10      | 26      | 11.5    | 14      | 17      | 14      | 1  |
| 30615ZS2045 | L      | 1/8"          | 6           | 22      | 10      | 26      | 11.5    | 14      | 17      | 14      | 1  |
| 30615ZS1994 | S      | 1/4"          | 6           | 26      | 12.5    | 29      | 14.5    | 19      | 19      | 17      | 1  |
| 30615ZS2016 | LL     | M10x1         | 8           | 21.5    | 10      | 23      | 11      | 14      | 14      | 14      | 1  |
| 30615ZS2046 | LL     | 1/8"          | 8           | 21.5    | 10      | 23      | 11      | 14      | 14      | 14      | 1  |
| 30615ZS2047 | L      | 1/4"          | 8           | 26      | 12.5    | 28      | 13      | 19      | 19      | 17      | 1  |

Our entire range of threaded fittings including further sizes and versions can be found in our webshop.

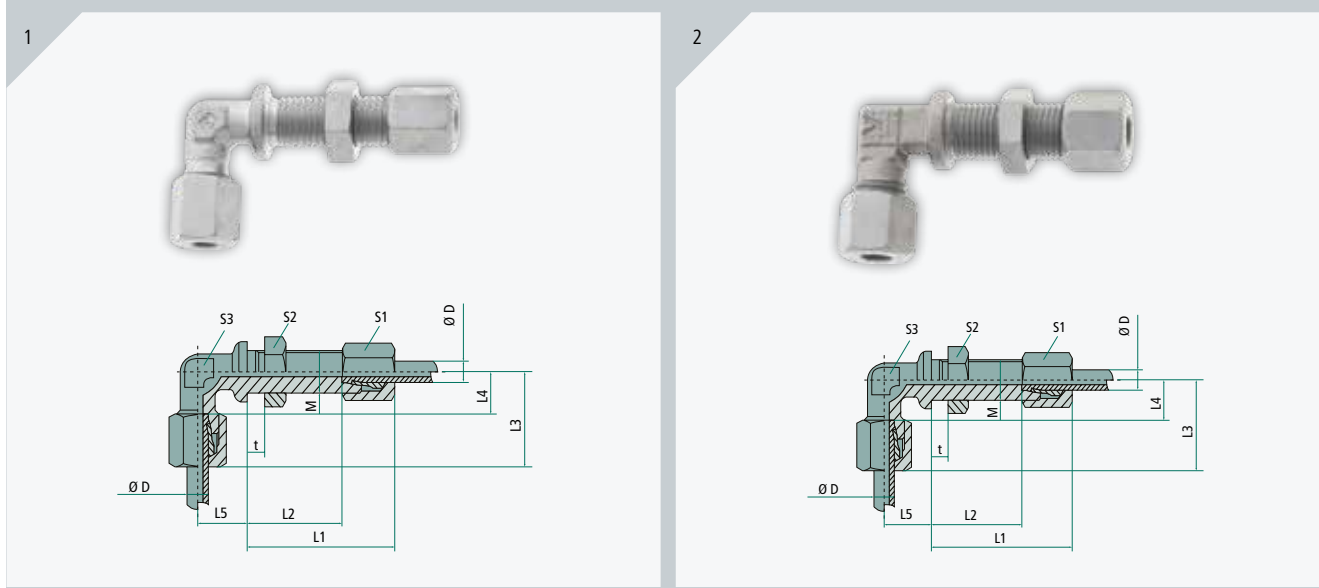


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Lubrication systems and accessories  
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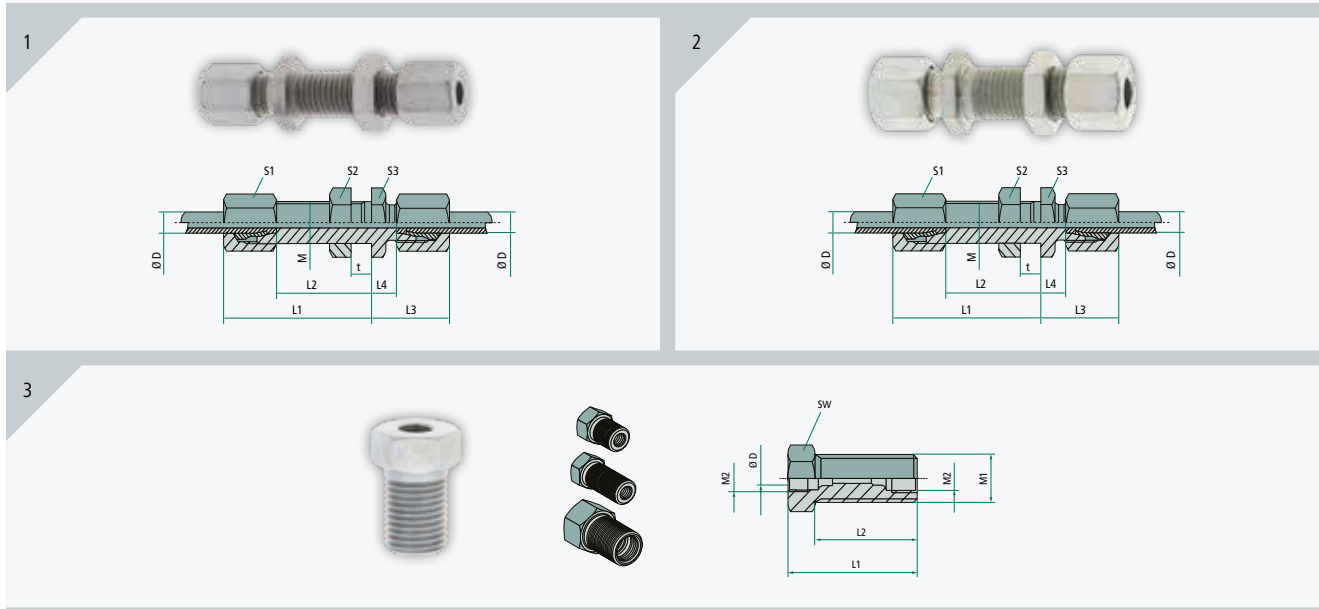
### Angled bulkhead threaded fittings



| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | S1 (mm) | S2 (mm) | S3 (mm) | Pipe D (mm) | Fig. no. | PP |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|----------|----|
| 30615ZS2053 | M12x1.5       | 42      | 27      | 27      | 12      | 14      | 14      | 17      | 12      | 6           | 1        | 1  |
| 30615ZS2054 | M14x1.5       | 42      | 27      | 29      | 14      | 17      | 17      | 19      | 12      | 8           | 2        | 1  |

### Bulkhead threaded fittings

Material: galvanised steel



| Part no.    | Description                              | Series | Thread 1 (mm) | Thread 2 (mm) | Pipe D (mm) | S1 (mm) | S2 (mm) | L1 (mm) | Fig. no. | PP |
|-------------|------------------------------------------|--------|---------------|---------------|-------------|---------|---------|---------|----------|----|
| 30615ZS1995 | Straight bulkhead threaded fitting       | L      | M12x1.5       |               | 6           | 14      | 17      | 42      | 1        | 1  |
| 30615ZS2026 | Straight bulkhead threaded fitting       | L      | M14x1.5       |               | 8           | 17      | 19      | 42      | 2        | 1  |
| 30615ZS2077 | Bulkhead threaded fitting, female thread |        | M14x1.5       | M8x1          | 4           | 17      |         | 38      | 3        | 1  |
| 19211123    | Bulkhead threaded fitting, female thread |        | M14x1.5       | M8x1          | 4           | 17      |         | 27      | 3        | 1  |
| 30615ZS2031 | Bulkhead threaded fitting, female thread |        | M14x1.5       | M10x1         | 6           | 17      |         | 30      | 3        | 1  |



**GRANIT**  
QUALITY PARTS

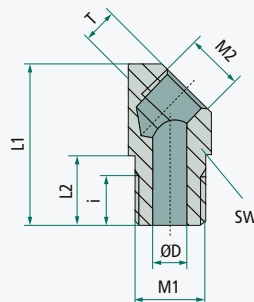
# Lubrication systems and accessories

## Lubrication lines, grease distribution and replacement parts assortments



### Corner threaded fittings 45°

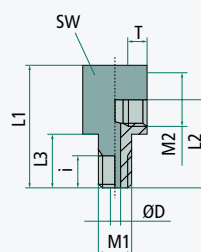
Material: galvanised steel



| Part no.    | L1 (mm) | L2 (mm) | S1 (mm) | Thread 1 (mm) | Thread 2 (mm) | PP |
|-------------|---------|---------|---------|---------------|---------------|----|
| 30615ZS1974 | 23      | 10      | 12      | M6t           | M8x1          | 1  |
| 30615ZS1925 | 23      | 10      | 12      | M8x1t         | M8x1          | 1  |
| 30615ZS2008 | 23      | 10      | 12      | M8x1.25t      | M8x1          | 1  |
| 30615ZS1922 | 23      | 10      | 12      | M10x1t        | M8x1          | 1  |
| 30615ZS2009 | 24.5    | 16.5    | 12      | M10x1t        | M10x1         | 1  |

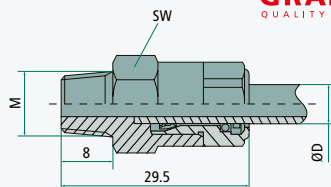
### Corner threaded fittings 90°

Material: galvanised steel



| Part no.    | L1 (mm) | L2 (mm) | S1 (mm) | Thread 1 (mm) | Thread 2 (mm) | PP |
|-------------|---------|---------|---------|---------------|---------------|----|
| 30615ZS1931 | 23      | 16.5    | 12      | M6t           | M10x1         | 1  |
| 30615ZS2011 | 23      | 16.5    | 12      | M6t           | M10x1         | 1  |
| 30615ZS1932 | 23      | 16.5    | 12      | M8x1t         | M10x1         | 1  |
| 30615ZS1998 | 23      | 16.5    | 12      | M8x1t         | M10x1         | 1  |
| 30615ZS2019 | 23      | 16.5    | 12      | M8x1.25t      | M10x1         | 1  |
| 30615ZS2027 | 23      | 16.5    | 12      | M8x1.25t      | M8x1.25t      | 1  |
| 30615ZS1948 | 26      | 19      | 12      | M10x1t        | M8x1t         | 1  |
| 30615ZS1907 | 23      | 16.5    | 12      | M10x1t        | M10x1         | 1  |
| 30615ZS1959 | 26      | 19      | 12      | R1/8"t        | M10x1         | 1  |
| 30615ZS2020 | 26      | 19      | 14      | R1/4"t        | M10x1         | 1  |

### Plug connectors



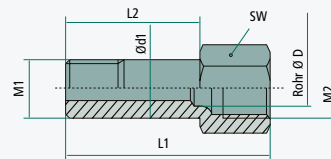
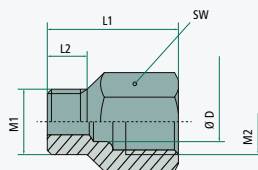
| Part no.    | Description             | Version                            | Pipe D (mm) | Thread 1 (mm) | Material         | Fig. no. | PP |
|-------------|-------------------------|------------------------------------|-------------|---------------|------------------|----------|----|
| 30615ZS2017 | Straight plug connector | With plug connection, BEKA version | 4           | M10x1t        | Galvanised steel | 1        | 1  |
| 30615ZS1971 | Straight plug connector | With plug connection, BEKA version | 6           | M6t           | Galvanised steel | 2        | 1  |
| 30615ZS1958 | Straight plug connector | With plug connection, BEKA version | 6           | M8x1t         | Galvanised steel | 3        | 1  |
| 30615ZS1946 | Straight plug connector | With plug connection, BEKA version | 6           | M10x1t        | Galvanised steel | 4        | 1  |





### Extensions for lubrication point connections

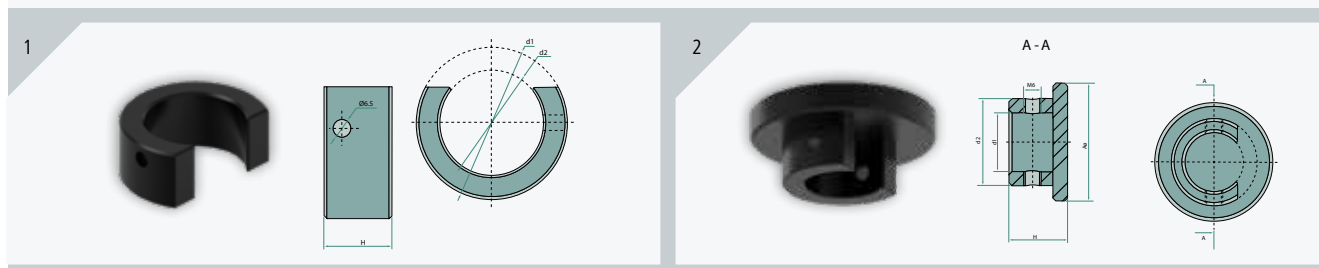
Material: galvanised steel



| Part no.    | Thread 1 (mm) | Thread 2 (mm) | L1 (mm) | L2 (mm) | Pipe D (mm) | PP |
|-------------|---------------|---------------|---------|---------|-------------|----|
| 30615ZS1936 | M6t           | M8x1          | 10      | 6       | 4           | 1  |
| 30615ZS1896 | M8x1t         | M8x1          | 17      | 7.4     | 4           | 1  |
| 30615ZS1898 | M8x1t         | M8x1          | 35      | 23      | 4           | 1  |
| 30615ZS1942 | M8x1t         | M8x1          | 50      | 37.5    | 4           | 1  |
| 30615ZS1969 | M10x1t        | M8x1          | 16      | 7.4     | 4           | 1  |
| 30615ZS1905 | M6t           | M10x1         | 24      | 6       | 6           | 1  |
| 30615ZS1906 | M8x1t         | M10x1         | 21      | 6       | 6           | 1  |
| 30615ZS1910 | M10x1t        | M10x1         | 17.5    | 6       | 6           | 1  |
| 30615ZS1889 | M10x1t        | M10x1         | 21      | 6       | 6           | 1  |
| 30615ZS1978 | M10x1t        | M10x1         | 26      | 6       | 6           | 1  |
| 30615ZS1918 | M10x1t        | M10x1         | 35      | 23      | 6           | 1  |
| 30615ZS1908 | M10x1t        | M10x1         | 50      | 38      | 6           | 1  |
| 30615ZS1933 | R1/8"t        | M10x1         | 21      | 6       | 6           | 1  |
| 30615ZS2021 | R1/8"t        | M10x1         | 50      | 38      | 6           | 1  |
| 30615ZS2041 | R1/4"t        | M10x1         | 35      | 23      | 6           | 1  |
| 30615ZS2042 | R1/4"t        | M10x1         | 55      | 43      | 6           | 1  |
| 30615ZS1991 | 1/4"          | M10x1t        | 21.5    | 10      | 6           | 1  |

### Lubrication point protection

Lubrication point protection consisting of protective ring and cover for the ring



| Part no. | Description                        | Ø d1 (mm) | Ø d2 (mm) | Outer Ø (mm) | To fit                                    | Fig. no. | PP |
|----------|------------------------------------|-----------|-----------|--------------|-------------------------------------------|----------|----|
| 36812506 | Lubrication point protective ring  | 40        | 30        |              |                                           | 1        | 1  |
| 36801559 | Lubrication point protective ring  | 50        | 40        |              |                                           | 1        | 1  |
| 36804049 | Lubrication point protective ring  | 60        | 40        |              |                                           | 1        | 1  |
| 36804050 | Lubrication point protective ring  | 70        | 50        |              |                                           | 1        | 1  |
| 36797349 | Lubrication point protective ring  | 80        | 60        |              |                                           | 1        | 1  |
| 36812507 | Lubrication point protective ring  | 90        | 70        |              |                                           | 1        | 1  |
| 36774291 | Lubrication point protective ring  | 100       | 80        |              |                                           | 1        | 1  |
| 36787073 | Lubrication point protection cover | 20        | 29.5      | 40           | Protective ring outer/inner Ø = 40/30 mm  | 2        | 1  |
| 36796504 | Lubrication point protection cover | 30        | 39.5      | 50           | Protective ring outer/inner Ø = 50/40 mm  | 2        | 1  |
| 36803142 | Lubrication point protection cover | 25        | 39.5      | 60           | Protective ring outer/inner Ø = 60/40 mm  | 2        | 1  |
| 36798528 | Lubrication point protection cover | 35        | 49.5      | 70           | Protective ring outer/inner Ø = 70/50 mm  | 2        | 1  |
| 36812505 | Lubrication point protection cover | 45        | 59.5      | 80           | Protective ring outer/inner Ø = 80/60 mm  | 2        | 1  |
| 36801558 | Lubrication point protection cover | 55        | 69.5      | 90           | Protective ring outer/inner Ø = 90/70 mm  | 2        | 1  |
| 36781191 | Lubrication point protection cover | 65        | 79.5      | 100          | Protective ring outer/inner Ø = 100/80 mm | 2        | 1  |

## Assortments

Sets for repairing lubrication lines with and without replacement lines, in different configurations

1



2



| Part no. | Description                                   | Comes with                                                                                                                                                | Fig. no. | PP |
|----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| 11012078 | <b>Assortment case</b><br>Box of tools, small | Plastic tube, high-pressure hose, screw sleeves, pipe nozzles, cap screws, various threaded fittings and extensions                                       | 1        | 1  |
| 11053122 | <b>Assortment case</b><br>Box of tools, large | Plastic tube, high-pressure hose, coiled tube, screw sleeves, pipe nozzles, cap screws, various threaded fittings, swivel joints, reducers and extensions | 2        | 1  |

Further assortment case sizes can be found in our webshop.





# BEKA ZEPTO

**Simple. Robust. Versatile.**

**From construction machinery to agriculture,  
the BEKA Zepto is your solution**



- Versatile thanks to 12 V or 24 V operation
- Compatible with S-type cartridges – L/F-type cartridges also possible with the available adaptor
- Tool-free filling for fast, clean maintenance
- Easy installation and ready for immediate use – plug-and-play for compact machines
- Integrated control system for a compact, efficient solution
- Space-saving design for tight installation spaces and modern machine designs
- High-performance 290 bar operating pressure for reliable lubrication under heavy loads
- Maximum durability thanks to IP6K9K – designed for the harshest operating conditions
- Can be combined with BEKA progressive distributors for a comprehensive lubrication concept

With its compact design, high performance and easy integration, the BEKA Zepto offers a reliable lubrication solution for a wide range of applications.

**BEKA Zepto – because powerful technology deserves simple solutions.**



### ZEPTO grease lubrication pump

The main areas of application for the cartridge pump are smaller machines and systems such as:

- Industrial machines: robots, CNC manufacturing machines, small printing machines, chain drives, conveyor belts, roller systems, woodworking machines
- Construction machinery: mini excavators, wheel loaders, pavers, roller and compact crushers
- Agricultural, forestry and special machine construction: farm loaders, rice planters and rice harvesters

#### Contents:

With adaptor for cartridge type S Lube-Shuttle®

#### To fit:

Type S (Lube-Shuttle®)

Type L (Ritter grease cartridge 400 ml)

Type F (Reiner system)

Voltage (V): 12 / 24

Connection type: Deutsch plug, 4-pin

Pumped substance: grease from NLGI class 000 to 2

Part no. 11933991



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

### Electric pump EP-1 without control

| Part no.    | Voltage (V) | Filling capacity (kg) | Version                     | PP |
|-------------|-------------|-----------------------|-----------------------------|----|
| 30615ZS1001 | 12          | 1.9                   | 1x PE-120 at outlet point 3 | 1  |
| 30615ZS1004 | 12          | 2.5                   | 1x PE-120 at outlet point 3 | 1  |
| 30615ZS1006 | 24          | 2.5                   | 1x PE-120 at outlet point 3 | 1  |
| 30615ZS1010 | 24          | 4                     | 1x PE-120 at outlet point 3 | 1  |

### Electric pump EP-1 with integrated BEKA-troniX1 control

| Part no.    | Voltage (V) | Filling capacity (kg) | Version                                          | PP |
|-------------|-------------|-----------------------|--------------------------------------------------|----|
| 30615ZS1016 | 12          | 1.9                   | 1x PE-120 at outlet point 3, without microswitch | 1  |
| 30615ZS1017 | 24          | 1.9                   | 1x PE-120 at outlet point 3, without microswitch | 1  |
| 30615ZS1019 | 24          | 2.5                   | 1x PE-120 at outlet point 3, without microswitch | 1  |
| 30615ZS1022 | 12          | 4                     | 1x PE-120 at outlet point 3, without microswitch | 1  |
| 30615ZS1023 | 24          | 4                     | 1x PE-120 at outlet point 3, without microswitch | 1  |

### Electric pump EP-1 with integrated EP-tronic control

| Part no.    | Voltage (V) | Filling capacity (kg) | Version                                                               | PP |
|-------------|-------------|-----------------------|-----------------------------------------------------------------------|----|
| 30615ZS1058 | 24          | 1.9                   | 1x PE-120 at outlet point 3 including intermediate lubrication button | 1  |

### PiCO central lubrication pump with control

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Voltage (V) | Control      | Filling capacity (kg) | Tank version                                   | PP |
|-------------|-------------|--------------|-----------------------|------------------------------------------------|----|
| 30615ZS1064 | 12          | PICO-troniX1 | 1.2                   | Container, plastic with grease follower piston | 1  |
| 30615ZS1065 | 24          | PICO-troniX1 | 1.2                   | Container, plastic with grease follower piston | 1  |
| 19248264    | 12          | PICO-troniX1 | 1.2                   | Container, plastic with agitator blade         | 1  |

### Grease lubrication pump

The robust and compact HPM hydraulic pump for centralised lubrication is suitable for use in combination with progressive distributors.

An ideal solution for numerous applications such as disc harrows, ploughs, front attachments for telehandlers, mini excavators and hydraulic attachments.

Delivery volume (cm<sup>3</sup>): from 0.2 to 2.0 cm<sup>3</sup>/stroke

Version: with cartridge type S

Pumped substance: grease up to NLGI class 2

Operating pressure max. (bar): 250

Application: hydraulically driven piston pump

Part no. 12221019

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



Accessories for the HPM pumps can be found in our webshop.

### Pump control

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

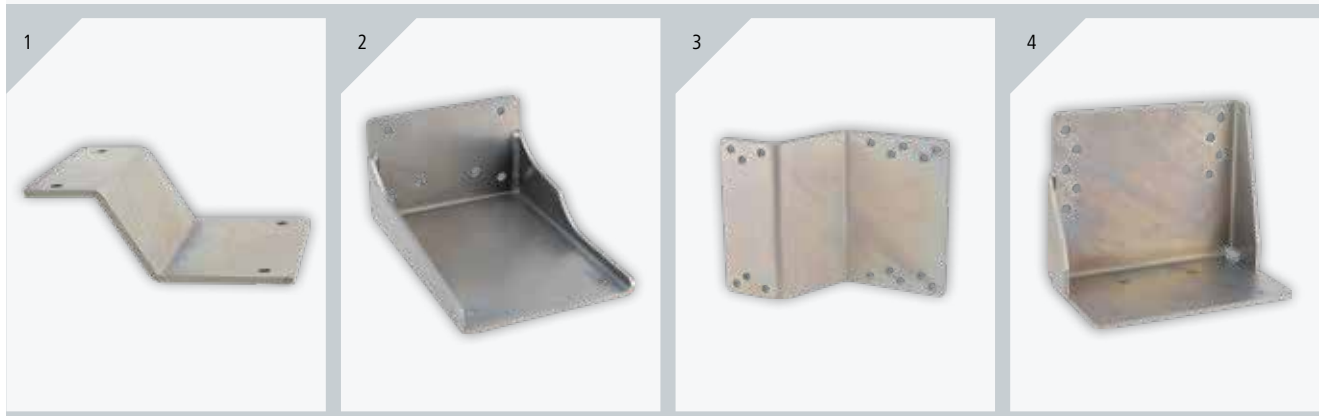


| Part no.    | Description                            | Version                                                                                                                                                                                      | PP |
|-------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 30615ZS1073 | BEKA-troniX1 control<br>Including seal | (10 - 160 revolutions, 0.5 - 8 h), without connector for additional equipment                                                                                                                | 1  |
| 30615ZS1075 | EP-tronic control<br>Including seal    | Without connection to the control unit (connector present, not connected, not activated),<br>lubrication parameters: (1 - 16 cycles, 0.5 - 8 h), with external status signal as error signal | 1  |
| 30615ZS1079 | EP-tronic T1 control<br>Including seal | Lubrication parameters: (1 - 16 min., 0.5 - 8 h) including intermediate lubrication button                                                                                                   | 1  |
| 11458207    | EP-tronic control                      | Without additional equipment                                                                                                                                                                 | 1  |
| 30615ZS1081 | PICO-troniX1 control                   | Lubrication parameters: (1 - 16 min., 0.5 - 8 h)                                                                                                                                             | 1  |
| 30615ZS1082 | PICO-troniX1 control                   | Lubrication parameters: (1 - 16 min., 0.5 - 8 h)                                                                                                                                             | 1  |

Further pump controls can be found in our webshop.

## Mounting brackets

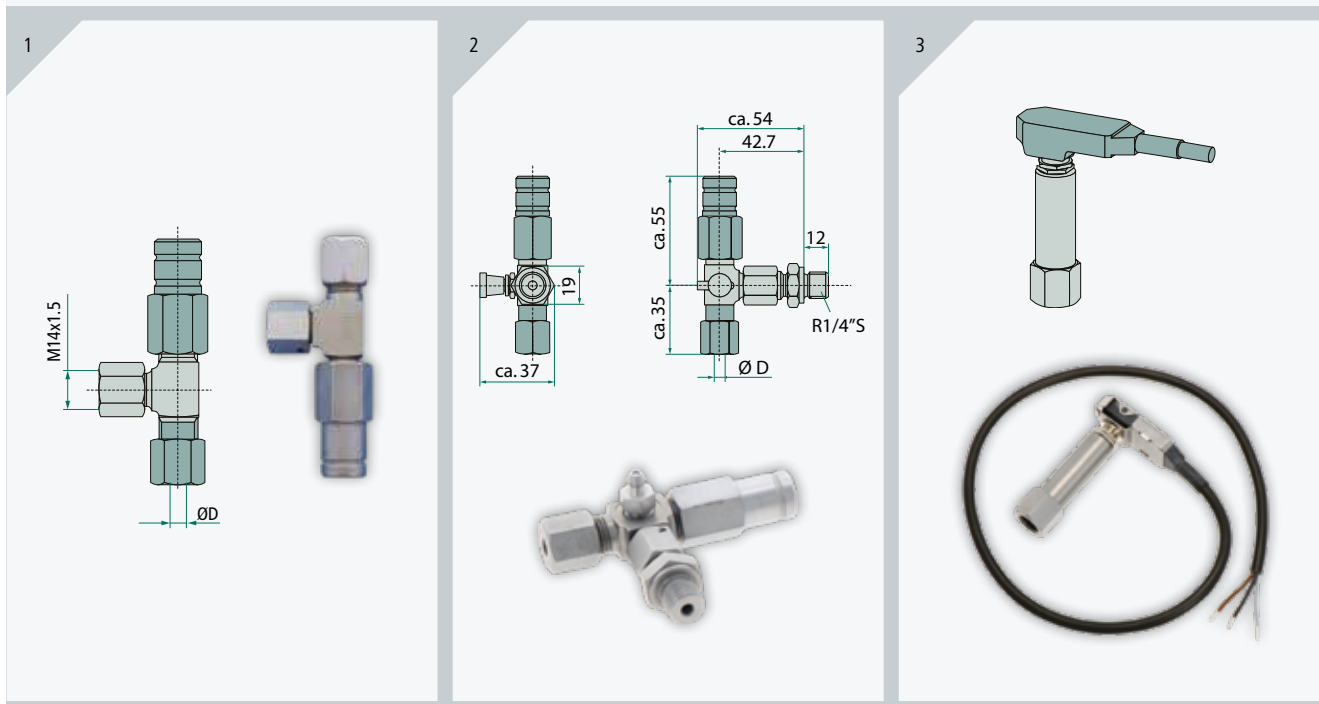
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Description                | Fig. no. | PP |
|-------------|----------------------------|----------|----|
| 30615ZS1318 | Pump mounting bracket EP-1 | 1        | 1  |
| 30615ZS1327 | Bracket EP-1               | 2        | 1  |
| 30615ZS1332 | Pump mounting bracket PICO | 3        | 1  |
| 30615ZS1333 | Bracket PICO               | 4        | 1  |

## Pressure relief valves

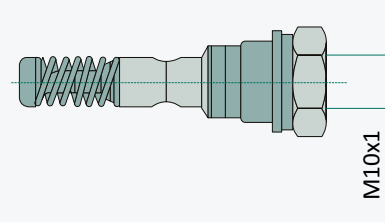
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Description                                                       | To fit                                                                              | Technical data                                                                                                                    | Pipe D (mm) | Thread 1 (mm) | Cable length (m) | Fig. no. | PP |
|-------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|------------------|----------|----|
| 30615ZS1584 | Pressure relief valve                                             | Pump elements PE60, PE-120, PE170, PE-60F, PE120F and PE-170F                       | Max. operating pressure: set to 280 bar                                                                                           | 6           |               |                  | 1        | 1  |
| 30615ZS1586 | Pressure relief valve with grease nipple<br>With fitting          | Pump elements PE60, PE-120, PE170, PE-60F, PE-120F and PE-170F                      | Max. operating pressure: set to 280 bar                                                                                           | 6           |               |                  | 2        | 1  |
| 30615ZS1600 | Pressure relief valve with microswitch<br>Cable loose on one side | Pump elements PE-60, PE-120, PE170, PE-60F, PE120F, PE-170F, PE-120 V and PE-120 FV | Opening pressure preset to 280 bar, contact type: 1 changeover contact, temperature range: -25°C to +85°C, protection class: IP67 |             | M14x1.5       | 0.5              | 3        | 1  |

**Pump elements, Pico**

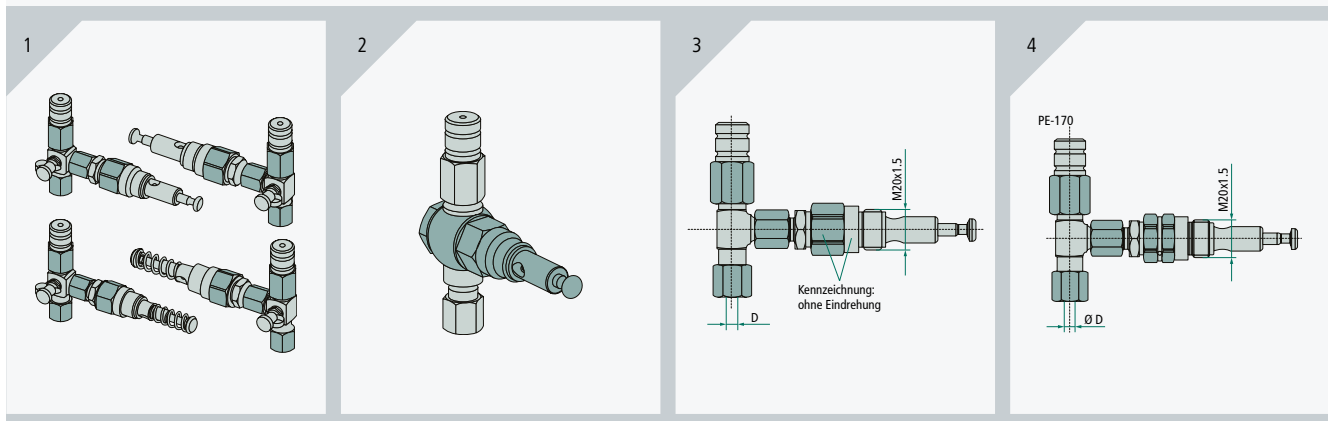
Galvanised steel  
 Grease up to NLGI class 2 (without solids), mineral oils up to 40 mm/s (cSt)  
 To fit: PICO central lubrication pump  
 Threaded connection M10x1


**GROENEVELD-BEKA**  
 LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Technical data                           | PP |
|-------------|------------------------------------------|----|
| 30615ZS1616 | Delivery rate 5 mm <sup>3</sup> /stroke  | 1  |
| 30615ZS1621 | Delivery rate 10 mm <sup>3</sup> /stroke | 1  |
| 30615ZS1626 | Delivery rate 15 mm <sup>3</sup> /stroke | 1  |
| 30615ZS1611 | Delivery rate 25 mm <sup>3</sup> /stroke | 1  |
| 30615ZS1631 | Delivery rate 50 mm <sup>3</sup> /stroke | 1  |

**Pump elements for EP-1 / HP-1**

Galvanised steel, grease up to NLGI class 2 (without solids), mineral oils up to 40 mm/s (cSt)


**GROENEVELD-BEKA**  
 LUBRICATION SYSTEMS BY TIMKEN


| Part no.                   | To fit                           | Version                                              | Technical data                                                                                                                        | Thread 1 (mm) | Pipe D (mm) | Fig. no. | PP |
|----------------------------|----------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|----------|----|
| <b>Pump element PE-60</b>  |                                  |                                                      |                                                                                                                                       |               |             |          |    |
| 30615ZS1604                | Installation in EP-1 pump        | Flow rate not adjustable, with pressure relief valve | Delivery rate 60 mm <sup>3</sup> /stroke, max. operating pressure: set to 280 bar, permissible operating temperature: -35°C to +70°C  | M20x1.5       | 6           | 1        | 1  |
| <b>Pump element PE-120</b> |                                  |                                                      |                                                                                                                                       |               |             |          |    |
| 30615ZS1598                | Installation in EP-1 / HP-1 pump | With grease nipple on the left                       | Delivery rate 120 mm <sup>3</sup> /stroke, max. operating pressure: set to 280 bar, permissible operating temperature: -35°C to +70°C | M20x1.5       | 6           | 1        | 1  |
| 30615ZS1599                | Installation in EP-1 / HP-1 pump | With grease nipple on the right                      | Delivery rate 120 mm <sup>3</sup> /stroke, max. operating pressure: set to 280 bar, permissible operating temperature: -35°C to +70°C | M20x1.5       | 6           | 1        | 1  |
| 30615ZS1601                | Electric pump EP-1               | Flow rate adjustable, with pressure relief valve     | Max. operating pressure: set to 280 bar, permissible operating temperature: -35°C to +70°C                                            | M20x1.5       | 6           |          | 1  |
| 30615ZS1848                | Installation in EP-1 / HP-1 pump | Without pressure relief valve                        | Delivery rate 120 mm <sup>3</sup> /stroke, max. operating pressure: set to 280 bar, permissible operating temperature: -35°C to +70°C | M20x1.5       | 1/4" thread | 2        | 1  |
| 30615ZS1792                | Installation in EP-1 pump        | Flow rate not adjustable, with pressure relief valve | Delivery rate 120 mm <sup>3</sup> /stroke, max. operating pressure: set to 280 bar                                                    | M20x1.5       | 6           | 3        | 1  |
| <b>Pump element PE-170</b> |                                  |                                                      |                                                                                                                                       |               |             |          |    |
| 30615ZS1607                | Installation in EP-1 pump        | Flow rate not adjustable, with pressure relief valve | Delivery rate 170 mm <sup>3</sup> /stroke, max. operating pressure: set to 280 bar                                                    | M20x1.5       | 6           | 4        | 1  |

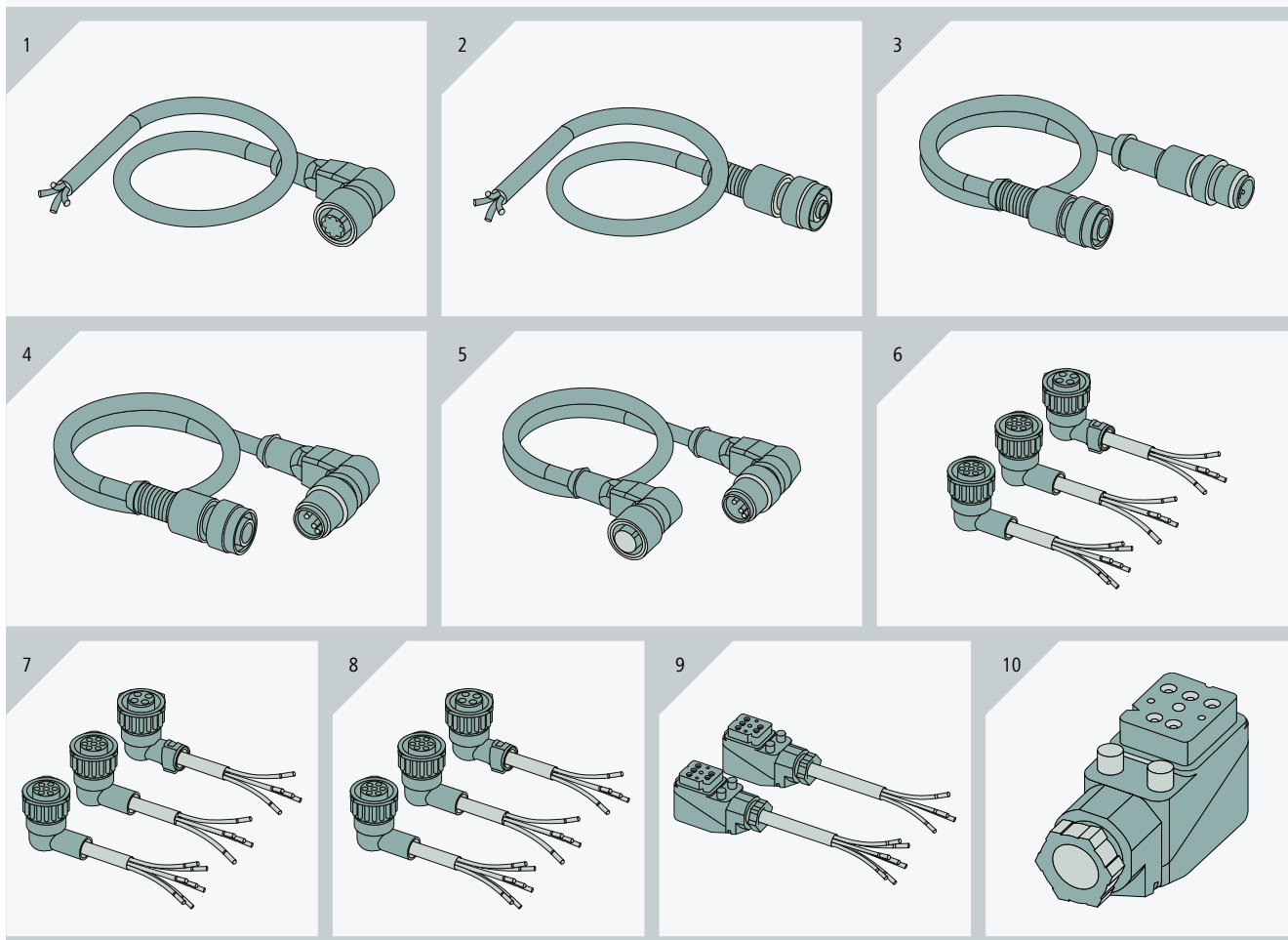
**A complete overview of our pump elements with further design options can be found in our webshop.**

**Grease tank filling and accessories**
 **GROENEVELD-BEKA**  
 LUBRICATION SYSTEMS BY TIMKEN


| Part no.                      | To fit                                    | Version                                                                               | Thread 1<br>(mm) | L1<br>(mm) | L2<br>(mm) | L3<br>(mm) | S1<br>(mm) | Fig. no. | PP |
|-------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|------------------|------------|------------|------------|------------|----------|----|
| <b>Filling gun</b>            |                                           |                                                                                       |                  |            |            |            |            |          |    |
| 30615ZS1582                   | EP-1 and PICO                             | Suitable for grease cartridges according to DIN 1284, 400 g grease up to NLGI class 2 |                  |            |            |            |            | 1        | 1  |
| <b>One-handed filling gun</b> |                                           |                                                                                       |                  |            |            |            |            |          |    |
| 30615ZS1583                   |                                           | Suitable for grease cartridges according to DIN 1284, 400 g grease up to NLGI class 2 |                  |            |            |            |            | 2        | 1  |
| <b>Filling connections</b>    |                                           |                                                                                       |                  |            |            |            |            |          |    |
| 30615ZS1590                   | For filling electric pump EP-1            | 45° version, without check valve                                                      | M20x1.5          |            |            |            | 32         | 3        | 1  |
| 30615ZS1592                   | For filling PICO central lubrication pump | Straight version, with check valve                                                    | M20x1.5          |            |            |            | 30         | 4        | 1  |
| 30615ZS1593                   |                                           | 90° filling connection                                                                | M20x1.5          |            |            |            |            | 5        | 1  |
| 30615ZS1594                   | For filling electric pump EP-1            | 90° version, without check valve                                                      | M20x1.5          | 10-14      | 85-91      | 109        | 27         | 6        | 1  |
| 30615ZS1595                   | For filling electric pump EP-1            | 90° version, without check valve                                                      | M20x1.5          | 10-14      | 50-56      | 74         | 27         | 7        | 1  |
| 30615ZS1596                   | For filling PICO central lubrication pump | 90° version, with check valve                                                         | M20x1.5          | 10-14      | 50-56      | 74         | 27         | 8        | 1  |
| 30615ZS1777                   | (Rainer) Fuchs cartridges                 | Straight, without check valve                                                         | M20x1.5          |            |            |            |            | 9        | 1  |
| 11975729                      | Central lubrication pump PICO and EP-1    | Straight                                                                              | 1/4" male        |            |            |            |            | 10       | 1  |

**Signal lights**
 **GROENEVELD-BEKA**  
 LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Description             | Voltage (V) | Application             | Material | Version                                     | Thread 1<br>(mm) | Fig. no. | PP |
|-------------|-------------------------|-------------|-------------------------|----------|---------------------------------------------|------------------|----------|----|
| 30615ZS1429 | Signal light            | 12          | Signal light 12 V green | Plastic  |                                             |                  | 1        | 1  |
| 30615ZS1445 | Signal light            | 12          | For lubrication control | Plastic  | Red / green                                 |                  | 2        | 1  |
| 30615ZS1446 | Signal light            | 24          | For lubrication control | Plastic  | Red / green                                 |                  | 2        | 1  |
| 30615ZS1414 | Illuminated push button | 12          |                         |          | Push button green, including adhesive label | M20x1            | 3        | 1  |
| 30615ZS1413 | Illuminated push button | 24          |                         |          | Push button green, including adhesive label | M20x1            | 3        | 1  |

**Connection lines**


| Part no.    | Description                           | Socket         | Plug                   | Cable length (m) | To fit                                                                    | Fig. no. | PP |
|-------------|---------------------------------------|----------------|------------------------|------------------|---------------------------------------------------------------------------|----------|----|
| 30615ZS1072 | Connection cable 4-pin                | M12x1 angled   |                        | 5                | Connection cable for grease level monitoring for all 2152... pumps        | 1        | 1  |
| 30615ZS1418 | Connection cable for proximity switch | M12x1 straight | Without                | 10               |                                                                           | 2        | 1  |
| 30615ZS1421 | Connection cable for proximity switch | M12x1 straight | M12x1 straight         | 5                |                                                                           | 3        | 1  |
| 30615ZS1423 | Connection cable for proximity switch | M12x1 straight | M12x1 angled           | 5                |                                                                           | 4        | 1  |
| 30615ZS1428 | Connection cable with plug            | M12x1 angled   | M12x1 angled           | 0.6              |                                                                           | 5        | 1  |
| 30615ZS1732 | Connection cable with plug            |                | Bayonet plug, 4-pin    | 10               | S-EP 4, PICO S-EP 4 control                                               | 6        | 1  |
| 30615ZS1734 | Connection cable with plug            |                | Bayonet plug, 7-pin    | 10               | BEKA-troniX1, PICO S-EP 4 control                                         |          | 1  |
| 30615ZS1735 | Connection cable with plug            |                | Bayonet plug, 7-pin    | 10               | EP-tronic, EP-tronic T1, PICO-tronic T1 control                           | 7        | 1  |
| 30615ZS1736 | Connection cable with plug            |                | Bayonet plug, 7-pin    | 10               | EP-T2, PICO-T2 control                                                    | 8        | 1  |
| 30615ZS1740 | Connection cable with plug            |                | Cable socket GO 070 WF | 10               | EP-tronic, PICO-tronic, EP-tronic T1, PICO-tronic T1 control              | 9        | 1  |
| 30615ZS1416 | Hirschmann plug                       |                | Hirschmann plug, 7-pin |                  | S-EP 4, PICO S-EP 4, EP-tronic, PICO-tronic, EP-tronic T1, PICO-tronic T1 | 10       | 1  |

Further connection lines can be found in our webshop.

**Progressive distributors**


| Part no.    | Description      | Series      | Technical data                                          | PP |
|-------------|------------------|-------------|---------------------------------------------------------|----|
| 30615ZS1689 | Initial element  | MX-F        | With inlet thread M10x1                                 | 1  |
| 30615ZS1690 | Initial element  | MX-F        | With angled screw-in threaded fitting WE6 M10x1t        | 1  |
| 30615ZS1691 | Middle element   | MX-F        | Metering volume 25 mm <sup>3</sup> per outlet / stroke  | 1  |
| 30615ZS1692 | Middle element   | MX-F        | Metering volume 45 mm <sup>3</sup> per outlet / stroke  | 1  |
| 30615ZS1693 | Middle element   | MX-F        | Metering volume 75 mm <sup>3</sup> per outlet / stroke  | 1  |
| 12532147    | Middle element   | MX-F        | Metering volume 105 mm <sup>3</sup> per outlet / stroke | 1  |
| 30615ZS1709 | End element      | MX-F        | Metering volume 25 mm <sup>3</sup> per outlet / stroke  | 1  |
| 30615ZS1710 | End element      | MX-F        | Metering volume 45 mm <sup>3</sup> per outlet / stroke  | 1  |
| 30615ZS1712 | End element      | MX-F        | Metering volume 105 mm <sup>3</sup> per outlet / stroke | 1  |
| 11129146    | End element      | MX-F        | Metering volume 75 mm <sup>3</sup> per outlet / stroke  | 1  |
| 18695200    | Initial element  | LX-4        | Metering volume 75 mm <sup>3</sup> per outlet / stroke  | 1  |
| 18700761    | Initial element  | LX-4        | Metering volume 100 mm <sup>3</sup> per outlet / stroke | 1  |
| 18693407    | Initial element  | LX-4        | Metering volume 150 mm <sup>3</sup> per outlet / stroke | 1  |
| 18697380    | Initial element  | LX-4        | Metering volume 200 mm <sup>3</sup> per outlet / stroke | 1  |
| 18686427    | Middle element   | LX-4        | Metering volume 50 mm <sup>3</sup> per outlet / stroke  | 1  |
| 18697379    | Middle element   | LX-4        | Metering volume 100 mm <sup>3</sup> per outlet / stroke | 1  |
| 18685866    | Middle element   | LX-4        | Metering volume 150 mm <sup>3</sup> per outlet / stroke | 1  |
| 18705255    | Middle element   | LX-4        | Metering volume 200 mm <sup>3</sup> per outlet / stroke | 1  |
| 18687913    | End element      | LX-4        | Metering volume 100 mm <sup>3</sup> per outlet / stroke | 1  |
| 18687715    | End element      | LX-4        | Metering volume 150 mm <sup>3</sup> per outlet / stroke | 1  |
| 18688502    | End element      | LX-4        | Metering volume 200 mm <sup>3</sup> per outlet / stroke | 1  |
| 18705355    | Nipple connector | MX-F / LX-4 | Inlet top, grease nipple left                           | 1  |

**Weld-on plates and mounting brackets for distributors**


| Part no.    | Description                            | Series                        | Version          | Material         | PP |
|-------------|----------------------------------------|-------------------------------|------------------|------------------|----|
| 30615ZS1320 | Mounting bracket for MX-F distributors | MX-F distributors             |                  | Galvanised steel | 1  |
| 30615ZS1747 | Weld-on plate                          | MX-F progressive distributors | 6/X              | Galvanised steel | 1  |
| 18687912    | Retaining plate                        | MX-F                          | Straight version |                  | 1  |
| 18699674    | Retaining bracket                      | LX-4                          | Double angled    |                  | 1  |

**Seals for progressive distributors**


| Part no.    | Description | To fit          | Series | PP |
|-------------|-------------|-----------------|--------|----|
| 30615ZS1705 | Seal kit    | Initial element | MX-F   | 1  |
| 30615ZS1704 | Seal kit    | Middle element  | MX-F   | 1  |
| 18678632    | Seal kit    | Initial element | LX-4   | 1  |
| 18683811    | Seal kit    | Middle element  | LX-4   | 1  |

**Tie rods for distributor assemblies**
 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Description | Technical data                   | Thread 1 (mm) | L1 (mm) | Series | PP |
|-------------|-------------|----------------------------------|---------------|---------|--------|----|
| 30615ZS1374 | Tie rod     | For connecting 3 basic elements  | M6            | 50      | MX-F   | 1  |
| 30615ZS1375 | Tie rod     | For connecting 4 basic elements  | M6            | 65      | MX-F   | 1  |
| 30615ZS1376 | Tie rod     | For connecting 5 basic elements  | M6            | 80      | MX-F   | 1  |
| 30615ZS1377 | Tie rod     | For connecting 6 basic elements  | M6            | 95      | MX-F   | 1  |
| 30615ZS1378 | Tie rod     | For connecting 7 basic elements  | M6            | 110     | MX-F   | 1  |
| 30615ZS1353 | Tie rod     | For connecting 8 basic elements  | M6            | 125     | MX-F   | 1  |
| 30615ZS1354 | Tie rod     | For connecting 9 basic elements  | M6            | 140     | MX-F   | 1  |
| 30615ZS1355 | Tie rod     | For connecting 10 basic elements | M6            | 155     | MX-F   | 1  |
| 30615ZS1357 | Tie rod     | For connecting 12 basic elements | M6            | 185     | MX-F   | 1  |
| 30615ZS1356 | Tie rod     | For connecting 11 basic elements | M6            | 170     | MX-F   | 1  |
| 30615ZS1349 | Washer      | Washer 8.4 for tie rods          |               |         | SXE-2  | 1  |

**Nipple blocks, single- and multi-position**

Steel galvanised, yellow chromated

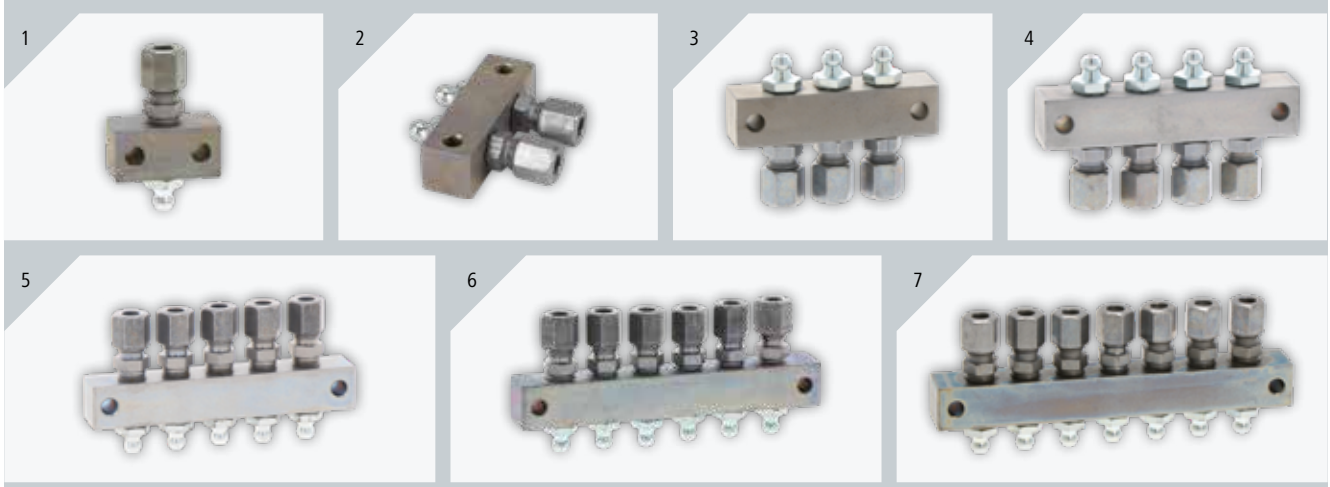
 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Connection type                                                                         | L1 (mm) | L2 (mm) | L3 (mm) | Pipe D (mm) | Fig. no. | PP |
|-------------|-----------------------------------------------------------------------------------------|---------|---------|---------|-------------|----------|----|
| 30615ZS1603 | 1x tapered grease nipple 180°, 1x pipe connection Ø 6 with cap screw 6                  |         |         |         |             | 1        | 1  |
| 30615ZS1637 | 1x tapered grease nipple 90° DIN 71412, form C, 1x pipe connection Ø 6 with cap screw 6 | 32      | 20      |         | 6           | 2        | 1  |
| 30615ZS1638 | 2x tapered grease nipple 90° DIN 71412, form C, 2x pipe connection Ø 6 with cap screw 6 | 52      | 42      | 22      | 6           | 3        | 1  |
| 30615ZS1639 | 3x tapered grease nipple 90° DIN 71412, form C, 3x pipe connection Ø 6 with cap screw 6 | 74      | 64      | 22      | 6           | 4        | 1  |
| 30615ZS1640 | 4x tapered grease nipple 90° DIN 71412, form C, 4x pipe connection Ø 6 with cap screw 6 | 96      | 86      | 22      | 6           |          | 1  |
| 30615ZS1641 | 5x tapered grease nipple 90° DIN 71412, form C, 5x pipe connection Ø 6 with cap screw 6 | 118     | 108     | 22      | 6           |          | 1  |
| 30615ZS1642 | 6x tapered grease nipple 90° DIN 71412, form C, 6x pipe connection Ø 6 with cap screw 6 | 140     | 130     | 22      | 6           | 5        | 1  |
| 30615ZS1643 | 8x tapered grease nipple 90° DIN 71412, form C, 8x pipe connection Ø 6 with cap screw 6 | 184     | 174     | 22      | 6           | 6        | 1  |

### Nipple block, single- and multi-position

Steel galvanised, yellow chromated

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

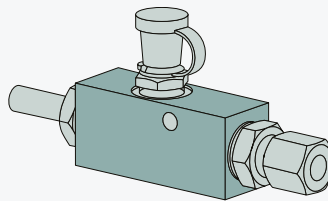


| Part no.    | Connection type                                                        | L1<br>(mm) | L2<br>(mm) | L3<br>(mm) | Pipe D<br>(mm) | Fig. no. | PP |
|-------------|------------------------------------------------------------------------|------------|------------|------------|----------------|----------|----|
| 30615ZS1644 | 1x tapered grease nipple 180°, 1x pipe connection Ø 6 with cap screw 6 | 32         | 20         |            | 6              | 1        | 1  |
| 30615ZS1645 | 2x tapered grease nipple 180°, 2x pipe connection Ø 6 with cap screw 6 | 52         | 40         | 16         | 6              | 2        | 1  |
| 30615ZS1646 | 3x tapered grease nipple 180°, 3x pipe connection Ø 6 with cap screw 6 | 64         | 52         | 16         | 6              | 3        | 1  |
| 30615ZS1647 | 4x tapered grease nipple 180°, 4x pipe connection Ø 6 with cap screw 6 | 80         | 68         | 16         | 6              | 4        | 1  |
| 30615ZS1648 | 5x tapered grease nipple 180°, 5x pipe connection Ø 6 with cap screw 6 | 96         | 84         | 16         | 6              | 5        | 1  |
| 30615ZS1649 | 6x tapered grease nipple 180°, 6x pipe connection Ø 6 with cap screw 6 | 112        | 100        | 16         | 6              | 6        | 1  |
| 30615ZS1650 | 7x tapered grease nipple 180°, 7x pipe connection Ø 6 with cap screw 6 | 128        | 116        | 16         | 6              | 7        | 1  |
| 30615ZS1651 | 8x tapered grease nipple 180°, 8x pipe connection Ø 6 with cap screw 6 | 144        | 132        | 16         | 6              |          | 1  |

### Feed-through nipple block

Connection type:  
1x tapered grease nipple DIN 71412, form A,  
2x pipe connection Ø6 with cap screw 6  
Pipe D (mm): 6

Part no. 30615ZS1655



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

### Lubrication strips

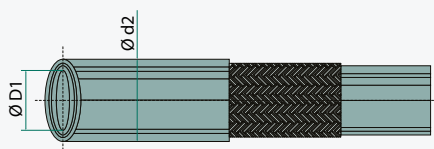
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



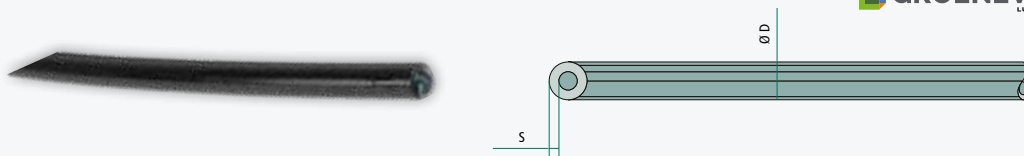
| Part no.    | Version                        | Connection type       | Dimensions (mm) | Material | Fig. no. | PP |
|-------------|--------------------------------|-----------------------|-----------------|----------|----------|----|
| 30615ZS1771 | 1-piece, without grease nipple | 2x connection M10 x 1 | 32 x 16 x 16    | Steel    | 1        | 1  |
| 30615ZS1772 | 2-piece, without grease nipple | 4x connection M10 x 1 | 52 x 16 x 16    | Steel    | 2        | 1  |
| 30615ZS1773 | 3-piece, without grease nipple | 6x connection M10 x 1 | 64 x 16 x 16    | Steel    | 3        | 1  |
| 30615ZS1774 | 4-piece, without grease nipple | 8x connection M10 x 1 | 80 x 16 x 16    | Steel    | 4        | 1  |

**High-pressure hoses**

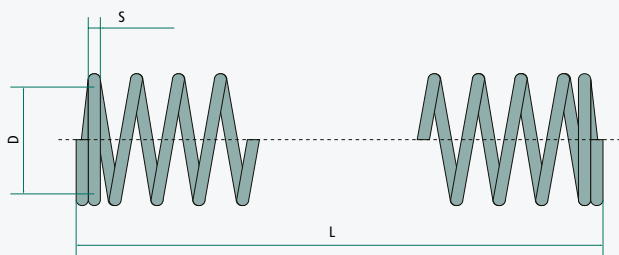
Material: plastic/synthetic mesh

 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Version                             | Inner Ø 1 (mm) | Outer Ø (mm) | Roll length (m) | PP |
|-------------|-------------------------------------|----------------|--------------|-----------------|----|
| 30615ZS1797 | Filled with low-viscosity grease    | 4              | 8.6          | 50              | 1  |
| 30615ZS1798 | Filled with low-viscosity grease    | 4              | 8.6          | 40              | 1  |
| 30615ZS1799 | Filled with low-viscosity grease    | 4              | 8.6          | 30              | 1  |
| 30615ZS1800 | Filled with low-viscosity grease    | 4              | 8.6          | 20              | 1  |
| 30615ZS1801 | Filled with low-viscosity grease    | 4              | 8.6          | 15              | 1  |
| 30615ZS1802 | Filled with low-viscosity grease    | 4              | 8.6          | 10              | 1  |
| 30615ZS1803 | Filled with low-viscosity grease    | 4              | 8.6          | 5               | 1  |
| 30615ZS1818 | Empty, without low-viscosity grease | 4              | 8.6          | 50              | 1  |
| 30615ZS1819 | Empty, without low-viscosity grease | 4              | 8.6          | 40              | 1  |
| 30615ZS1820 | Empty, without low-viscosity grease | 4              | 8.6          | 30              | 1  |
| 30615ZS1821 | Empty, without low-viscosity grease | 4              | 8.6          | 20              | 1  |
| 30615ZS1822 | Empty, without low-viscosity grease | 4              | 8.6          | 15              | 1  |
| 30615ZS1823 | Empty, without low-viscosity grease | 4              | 8.6          | 10              | 1  |
| 30615ZS1824 | Empty, without low-viscosity grease | 4              | 8.6          | 5               | 1  |
| 30615ZS1832 | Curved, with grease                 | 4              | 8.6          | 25              | 1  |
| 30615ZS1833 | Curved, with grease                 | 4              | 8.6          | 20              | 1  |
| 30615ZS1834 | Curved, with grease                 | 4              | 8.6          | 15              | 1  |
| 30615ZS1835 | Curved, with grease                 | 4              | 8.6          | 10              | 1  |
| 30615ZS1836 | Curved, with grease                 | 4              | 8.6          | 5               | 1  |
| 30615ZS1837 | Curved, without grease              | 4              | 8.6          | 25              | 1  |
| 30615ZS1838 | Curved, without grease              | 4              | 8.6          | 15              | 1  |
| 30615ZS1839 | Curved, without grease              | 4              | 8.6          | 10              | 1  |
| 30615ZS1840 | Curved, without grease              | 4              | 8.6          | 5               | 1  |
| 30615ZS1825 | Filled with low-viscosity grease    | 6.5            | 11.2         | 50              | 1  |
| 30615ZS1826 | Filled with low-viscosity grease    | 6.5            | 11.2         | 40              | 1  |
| 30615ZS1828 | Filled with low-viscosity grease    | 6.5            | 11.2         | 20              | 1  |
| 30615ZS1829 | Filled with low-viscosity grease    | 6.5            | 11.2         | 15              | 1  |
| 30615ZS1830 | Filled with low-viscosity grease    | 6.5            | 11.2         | 10              | 1  |
| 30615ZS1831 | Filled with low-viscosity grease    | 6.5            | 11.2         | 5               | 1  |
| 30615ZS1841 | Empty, without low-viscosity grease | 6.5            | 11.2         | 45              | 1  |
| 30615ZS1842 | Empty, without low-viscosity grease | 6.5            | 11.2         | 40              | 1  |
| 30615ZS1843 | Empty, without low-viscosity grease | 6.5            | 11.2         | 30              | 1  |
| 30615ZS1844 | Empty, without low-viscosity grease | 6.5            | 11.2         | 20              | 1  |
| 30615ZS1845 | Empty, without low-viscosity grease | 6.5            | 11.2         | 15              | 1  |
| 30615ZS1846 | Empty, without low-viscosity grease | 6.5            | 11.2         | 10              | 1  |
| 30615ZS1847 | Empty, without low-viscosity grease | 6.5            | 11.2         | 5               | 1  |

**Plastic tubes**


| Part no.    | Version                             | Inner Ø 1 (mm) | Outer Ø (mm) | Bending radius (mm) | Material                     | Roll length (m) | PP |
|-------------|-------------------------------------|----------------|--------------|---------------------|------------------------------|-----------------|----|
| 12268858    | Filled with low-viscosity grease    | 2.3            | 4            | 40                  |                              | 50              | 1  |
| 12268857    | Filled with low-viscosity grease    | 2.3            | 4            | 40                  |                              | 30              | 1  |
| 12292644    | Filled with low-viscosity grease    | 2.3            | 4            | 40                  |                              | 20              | 1  |
| 12141265    | Filled with low-viscosity grease    | 2.3            | 4            | 40                  |                              | 15              | 1  |
| 12216672    | Filled with low-viscosity grease    | 2.3            | 4            | 40                  |                              | 10              | 1  |
| 12271696    | Filled with low-viscosity grease    | 2.3            | 4            | 40                  |                              | 5               | 1  |
| 30615ZS1851 | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 100             | 1  |
| 12332214    | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 50              | 1  |
| 12140559    | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 30              | 1  |
| 12329745    | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 20              | 1  |
| 12267179    | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 15              | 1  |
| 12293858    | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 10              | 1  |
| 12329635    | Empty, without low-viscosity grease | 2.3            | 4            | 40                  |                              | 5               | 1  |
| 30615ZS1804 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 50              | 1  |
| 30615ZS1805 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 40              | 1  |
| 30615ZS1806 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 30              | 1  |
| 30615ZS1807 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 20              | 1  |
| 30615ZS1808 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 15              | 1  |
| 30615ZS1809 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 10              | 1  |
| 30615ZS1810 | Filled with low-viscosity grease    | 3              | 6            |                     | Polyamide plastic tube, hard | 5               | 1  |
| 30615ZS1811 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 50              | 1  |
| 30615ZS1812 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 40              | 1  |
| 30615ZS1813 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 30              | 1  |
| 30615ZS1814 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 20              | 1  |
| 30615ZS1815 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 15              | 1  |
| 30615ZS1816 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 10              | 1  |
| 30615ZS1817 | Empty, without low-viscosity grease | 3              | 6            |                     | Polyamide plastic tube, hard | 5               | 1  |

**Anti-kink protection**


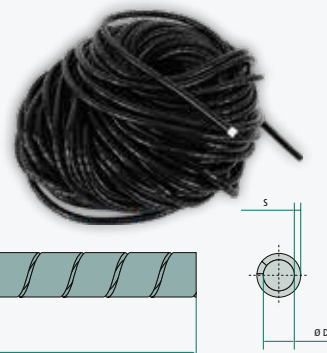
| Part no.    | Material         | L1 (mm) | Pipe D (mm) | S (mm) | PP |
|-------------|------------------|---------|-------------|--------|----|
| 30615ZS1461 | Galvanised steel | 200     | 10.6        | 1.2    | 1  |
| 30615ZS1462 | V2A              | 5000    | 10.6        | 1.2    | 1  |
| 30615ZS1466 | V2A              | 2000    | 10.6        | 1.2    | 1  |
| 30615ZS1467 | V2A              | 1300    | 10.6        | 1.2    | 1  |
| 30615ZS1468 | V2A              | 750     | 10.6        | 1.2    | 1  |

**Line protection - coiled tube**

**Material:**

Polyethylene, black

**Technical data:**

 Application temperature range:  
 -50°C to +85°C


| Part no.    | Pipe D (mm) | S (mm) | Roll length (m) | PP |
|-------------|-------------|--------|-----------------|----|
| 30615ZS1861 | 9           | 1.5    | 15              | 1  |
| 30615ZS1862 | 9           | 1.5    | 20              | 1  |
| 30615ZS1863 | 9           | 1.5    | 25              | 1  |
| 30615ZS1864 | 9           | 1.5    | 30              | 1  |
| 30615ZS1865 | 9           | 1.5    | 40              | 1  |
| 30615ZS1463 | 9           | 1.5    | 50              | 1  |

### Pipe connection, straight

Material: galvanised steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors, can be removed without tools

Y2 = version for BEKA plug connectors, can be removed with tools

Y3 = version for Camozzi plug connectors, can be removed without tools

With thread M7x0.75, L3 = 25 mm

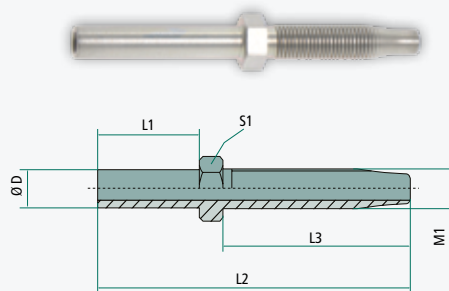
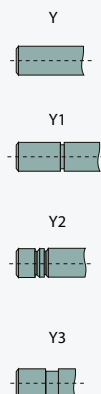
With thread M9x1, L3 = 40 mm

#### Application:

For mounting a high-pressure hose Ø8.6x4

For threaded fittings with cap screw and cutting ring

for mounting a high-pressure hose Ø11.2x6.5



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

| Part no.    | Pipe D (mm) | Connection type | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | PP |
|-------------|-------------|-----------------|---------------|---------|---------|---------|---------|----|
| 30615ZS1502 | 5           | Y               | M7x0.75       | 30      | 64      | 28      | 10      | 1  |
| 30615ZS1486 | 6           | Y               | M7x0.75       | 18      | 49.1    | 25      | 10      | 1  |
| 30615ZS1484 | 6           | Y               | M7x0.75       | 20      | 51.1    | 25      | 10      | 1  |
| 30615ZS1487 | 6           | Y               | M7x0.75       | 24      | 55.1    | 25      | 10      | 1  |
| 30615ZS1511 | 6           | Y1              | M7x0.75       | 24      | 55.1    | 25      | 10      | 1  |
| 30615ZS1507 | 6           | Y1              | M7x0.75       | 30      | 61.1    | 25      | 10      | 1  |
| 30615ZS1522 | 6           | Y2              | M7x0.75       | 18      | 49.1    | 25      | 10      | 1  |
| 30615ZS1488 | 6           | Y2              | M7x0.75       | 30      | 61.1    | 25      | 10      | 1  |
| 30615ZS1500 | 6           | Y3              | M7x0.75       | 21      | 52.1    | 25      | 10      | 1  |
| 30615ZS1478 | 8           | Y               | M7x0.75       | 22      | 53      | 25      | 10      | 1  |
| 30615ZS1479 | 8           | Y               | M7x0.75       | 30      | 61      | 25      | 10      | 1  |
| 30615ZS1513 | 8           | Y               | M9x1          | 22      | 67.3    | 40      | 12      | 1  |
| 30615ZS1469 | 8           | Y               | M9x1          | 42      | 87.3    | 40      | 12      | 1  |
| 30615ZS1503 | 10          | Y               | M7x0.75       | 30      | 64      | 28      | 10      | 1  |

### Pipe connection, straight, stainless steel

Material stainless steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors, can be removed without tools

Y2 = version for BEKA plug connectors, can be removed with tools

Y3 = version for Camozzi plug connectors, can be removed without tools

With thread M7x0.75, L3 = 25 mm

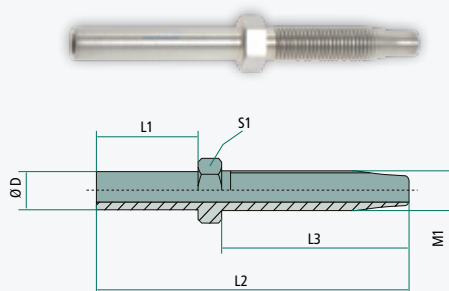
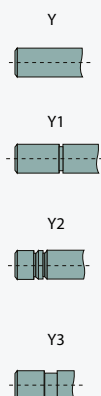
With thread M9x1, L3 = 40 mm

#### Application:

For mounting a high-pressure hose Ø8.6x4

For threaded fittings with cap screw and cutting ring

for mounting a high-pressure hose Ø11.2x6.5



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

| Part no.    | Pipe D (mm) | Connection type | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | PP |
|-------------|-------------|-----------------|---------------|---------|---------|---------|---------|----|
| 30615ZS1521 | 6           | Y               | M7x0.75       | 18      | 49.1    | 25      | 10      | 1  |
| 30615ZS1489 | 6           | Y               | M7x0.75       | 30      | 61.1    | 25      | 10      | 1  |
| 30615ZS1491 | 6           | Y               | M7x0.75       | 30      | 61.1    | 25      | 10      | 1  |
| 30615ZS1508 | 6           | Y1              | M7x0.75       | 30      | 61.1    | 25      | 10      | 1  |
| 30615ZS1504 | 10          | Y               | M7x0.75       | 30      | 64      | 28      | 10      | 1  |
| 30615ZS1516 | 8           | Y               | M9x1          | 22      | 67.3    | 40      | 12      | 1  |

### Pipe connection, bent 45°

Material: galvanised steel

Y = version for cutting/double taper ring

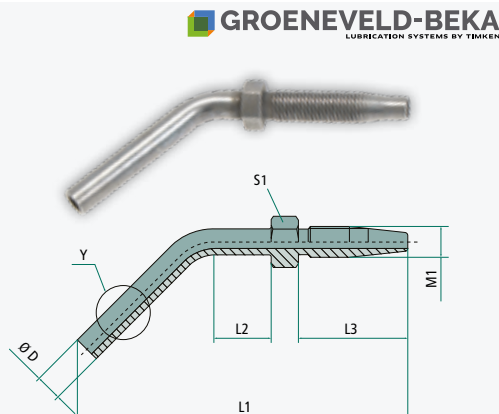
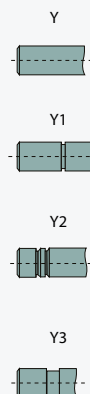
Y1 = version for HP plug connectors, can be removed without tools

Y2 = version for BEKA plug connectors, can be removed with tools

Y3 = version for Camozzi plug connectors, can be removed without tools

With thread M7x0.75, L3 = 25 mm

With thread M9x1, L3 = 40 mm



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

| Part no.    | Pipe D (mm) | Connection type | Thread 1 (mm) | L1 (mm) | L2 (mm) | S1 (mm) | PP |
|-------------|-------------|-----------------|---------------|---------|---------|---------|----|
| 30615ZS1497 | 6           | Y               | M7x0.75       | 79.1    | 28.4    | 10      | 1  |
| 30615ZS1501 | 6           | Y               | M7x0.75       | 93.2    | 43.3    | 10      | 1  |
| 30615ZS1505 | 6           | Y               | M7x0.75       | 68.3    | 18.5    | 10      | 1  |
| 30615ZS1509 | 6           | Y1              | M7x0.75       | 79.1    | 12.9    | 10      | 1  |
| 30615ZS1523 | 6           | Y2              | M7x0.75       | 79.1    | 28.4    | 10      | 1  |
| 30615ZS1470 | 8           | Y               | M9x1          | 104     | 6       | 12      | 1  |
| 30615ZS1480 | 8           | Y               | M7x0.75       | 68.5    | 13      | 10      | 1  |
| 30615ZS1481 | 8           | Y               | M7x0.75       | 76.5    | 13      | 10      | 1  |

### Pipe connection, bent 90°

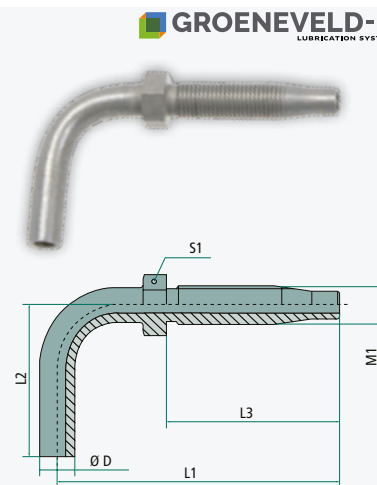
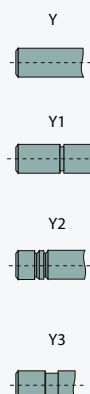
Material: galvanised steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors, can be removed without tools

Y2 = version for BEKA plug connectors, can be removed with tools

Y3 = version for Camozzi plug connectors, can be removed without tools



**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

| Part no.    | Pipe D (mm) | Connection type | Thread 1 (mm) | L1 (mm) | L2 (mm) | S1 (mm) | PP |
|-------------|-------------|-----------------|---------------|---------|---------|---------|----|
| 30615ZS1494 | 6           | Y               | M7x0.75       | 59      | 38      | 10      | 1  |
| 30615ZS1495 | 6           | Y               | M7x0.75       | 59      | 50      | 10      | 1  |
| 30615ZS1498 | 6           | Y               | M7x0.75       | 45.1    | 20.7    | 10      | 1  |
| 30615ZS1499 | 6           | Y               | M7x0.75       | 45.1    | 32.7    | 10      | 1  |
| 30615ZS1506 | 6           | Y1              | M7x0.75       | 45.1    | 32.7    | 10      | 1  |
| 30615ZS1510 | 6           | Y1              | M7x0.75       | 59      | 38      | 10      | 1  |
| 30615ZS1512 | 6           | Y1              | M7x0.75       | 59      | 50      | 10      | 1  |
| 30615ZS1524 | 6           | Y2              | M7x0.75       | 45.1    | 32.7    | 10      | 1  |
| 30615ZS1525 | 6           | Y2              | M7x0.75       | 59      | 38      | 10      | 1  |
| 30615ZS1526 | 6           | Y2              | M7x0.75       | 59      | 50      | 10      | 1  |
| 30615ZS1472 | 8           | Y               | M9x1          | 63.5    | 35      | 12      | 1  |
| 30615ZS1474 | 8           | Y               | M9x1          | 63.5    | 55      | 12      | 1  |
| 30615ZS1476 | 8           | Y               | M9x1          | 63.5    | 75      | 12      | 1  |
| 30615ZS1482 | 8           | Y               | M7x0.75       | 55      | 30      | 10      | 1  |
| 30615ZS1483 | 8           | Y               | M7x0.75       | 55      | 30      | 10      | 1  |

### Pipe connection, bent, stainless steel

Material: stainless steel

Y = version for cutting/double taper ring

Y1 = version for HP plug connectors, can be removed without tools

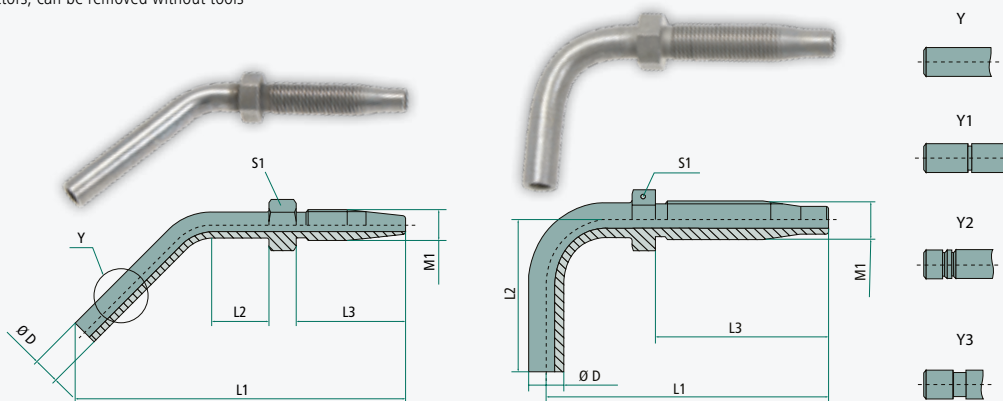
Y2 = version for BEKA plug connectors, can be removed with tools

Y3 = version for Camozzi plug connectors, can be removed without tools

With thread M7x0.75, L3 = 25 mm

With thread M9x1, L3 = 40 mm

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Pipe D (mm) | Connection type | Thread 1 (mm) | L1 (mm) | L2 (mm) | S1 (mm) | PP |
|-------------|-------------|-----------------|---------------|---------|---------|---------|----|
| 30615ZS1485 | 6           | Y 45°           | M7x0.75       | 79.1    | 28.4    | 10      | 1  |
| 30615ZS1517 | 6           | Y 90°           | M7x0.75       | 59      | 38      | 10      | 1  |
| 30615ZS1518 | 6           | Y 90°           | M7x0.75       | 59      | 50      | 10      | 1  |
| 30615ZS1519 | 6           | Y 90°           | M7x0.75       | 45.1    | 20.7    | 10      | 1  |
| 30615ZS1520 | 6           | Y 90°           | M7x0.75       | 45.1    | 32.7    | 10      | 1  |
| 30615ZS1471 | 8           | Y 45°           | M9x1          | 104     | 6       | 12      | 1  |
| 30615ZS1473 | 8           | Y 90°           | M9x1          | 63.5    | 35      | 12      | 1  |
| 30615ZS1475 | 8           | Y 90°           | M9x1          | 63.5    | 55      | 12      | 1  |
| 30615ZS1477 | 8           | Y 90°           | M9x1          | 63.5    | 75      | 12      | 1  |

### Cutting rings and double taper rings

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

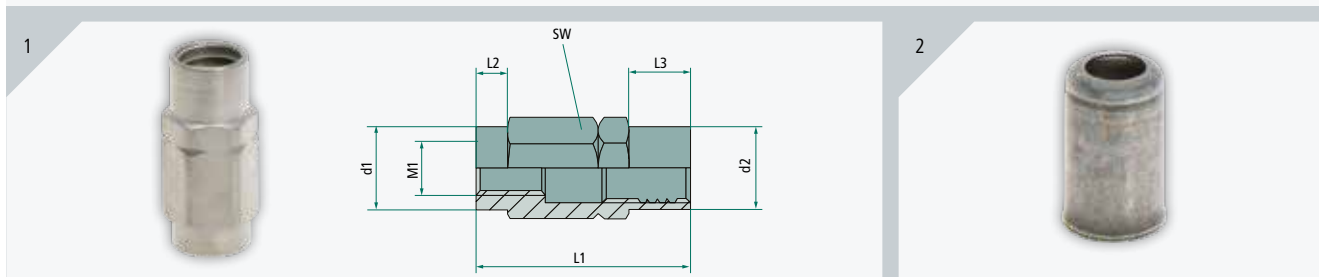


Similar to illustration

| Part no.    | Description                        | Series | Pipe D (mm) | L1 (mm) | Material         | PP |
|-------------|------------------------------------|--------|-------------|---------|------------------|----|
| 30615ZS1359 | Cutting ring                       | LL     | 4           | 6       | Galvanised steel | 1  |
| 30615ZS1360 | Cutting ring                       | LL     | 6           | 7       | Galvanised steel | 1  |
| 30615ZS1361 | Cutting ring                       | L/S    | 6           | 9.5     | Stainless steel  | 1  |
| 30615ZS1362 | Cutting ring                       | L/S    | 6           | 9.5     | Galvanised steel | 1  |
| 30615ZS1363 | Cutting ring                       |        | 8           | 7       | Galvanised steel | 1  |
| 30615ZS1364 | Cutting ring                       |        | 8           | 9.5     | Stainless steel  | 1  |
| 30615ZS1365 | Cutting ring                       | L/S    | 8           | 9.5     | Galvanised steel | 1  |
| 30615ZS1366 | Double taper ring, steel           |        | 4           | 5.5     | Galvanised steel | 1  |
| 30615ZS1367 | Double taper ring, brass           |        | 4           | 5.5     | Brass            | 1  |
| 30615ZS1368 | Double taper ring, stainless steel |        | 4           | 5.5     | Stainless steel  | 1  |
| 30615ZS1369 | Double taper ring, steel           |        | 6           | 6.5     | Galvanised steel | 1  |
| 30615ZS1370 | Double taper ring, brass           |        | 6           | 6.5     | Brass            | 1  |
| 30615ZS1371 | Double taper ring, stainless steel |        | 6           | 6.5     | Stainless steel  | 1  |
| 30615ZS1372 | Double taper ring, steel           |        | 8           | 6.5     | Galvanised steel | 1  |
| 30615ZS1373 | Double taper ring, brass           |        | 8           | 6.5     | Brass            | 1  |

### Screw and crimp sleeves

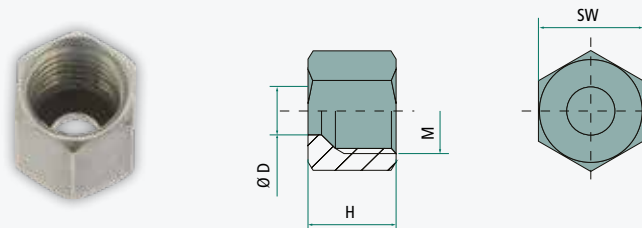
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Description                  | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | Application                     | Ø d1 (mm) | Ø d2 (mm) | Material         | Fig. no. | PP |
|-------------|------------------------------|---------------|---------|---------|---------|---------|---------------------------------|-----------|-----------|------------------|----------|----|
| 30615ZS1492 | Screw sleeve                 | M7x0.75       | 28      | 4       | 8       | 12      | For high-pressure hose 8.6x4    | 11        | 10.8      | Galvanised steel | 1        | 1  |
| 30615ZS1514 | Screw sleeve                 | M9x1          | 35.8    | 4       | 9       | 17      | For high-pressure hose 11.2x6.5 | 14        | 16        | Galvanised steel | 1        | 1  |
| 30615ZS1490 | Screw sleeve stainless steel | M7x0.75       | 28      | 2       | 8       | 12      | For high-pressure hose 8.6x4    | 10        | 11        | Stainless steel  | 1        | 1  |
| 30615ZS1515 | Screw sleeve stainless steel | M9x1          | 35.8    | 4       | 9       | 17      | For high-pressure hose 11.2x6.5 | 14        | 16        | Stainless steel  | 1        | 1  |
| 30615ZS1496 | Crimp sleeve                 |               | 17      |         |         |         | Crimp sleeve DN4                | 10.5      | 6.2       | Galvanised steel | 2        | 1  |

### Union nuts

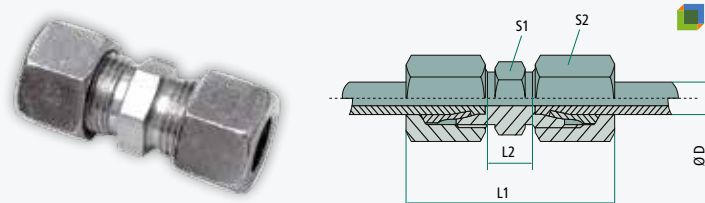
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Series | Thread 1 (mm) | S1 (mm) | Pipe D (mm) | Material         | PP |
|-------------|--------|---------------|---------|-------------|------------------|----|
| 30615ZS1254 | LL     | M8x1          | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1255 | LL     | M10x1         | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1256 | LL     | M12x1         | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1257 | L      | M12x1.5       | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1258 | L      | M12x1.5       | 14      | 6           | Stainless steel  | 1  |
| 30615ZS1259 | L      | M14x1.5       | 17      | 8           | Galvanised steel | 1  |
| 30615ZS1260 | L      | M14x1.5       | 17      | 8           | Stainless steel  | 1  |
| 30615ZS1261 | S      | M14x1.5       | 17      | 6           | Galvanised steel | 1  |
| 30615ZS1262 | S      | M16x1.5       | 19      | 8           | Galvanised steel | 1  |

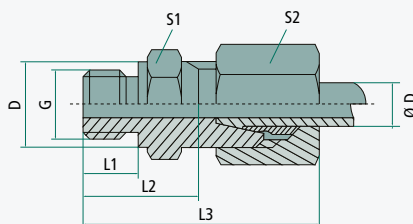
### Straight threaded fittings

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



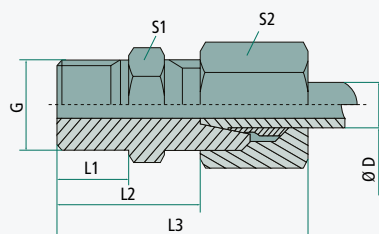
| Part no.    | Series | Pipe D (mm) | L1 (mm) | L2 (mm) | S1 (mm) | S2 (mm) | Material         | PP |
|-------------|--------|-------------|---------|---------|---------|---------|------------------|----|
| 30615ZS1206 | LL     | 4           | 31      | 12      | 9       | 10      | Galvanised steel | 1  |
| 30615ZS1207 | LL     | 6           | 32      | 9       | 11      | 12      | Galvanised steel | 1  |
| 30615ZS1208 | LL     | 6           | 39      | 9       | 11      | 12      | Stainless steel  | 1  |
| 30615ZS1209 | LL     | 8           | 35      | 12      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS1210 | L      | 6           | 39      | 10      | 12      | 14      | Galvanised steel | 1  |
| 30615ZS1211 | L      | 8           | 40      | 11      | 14      | 17      | Galvanised steel | 1  |
| 30615ZS1212 | S      | 6           | 45      | 16      | 14      | 17      | Galvanised steel | 1  |
| 30615ZS1213 | S      | 8           | 47      | 18      | 17      | 19      | Galvanised steel | 1  |

### Straight screw-in fittings with straight thread



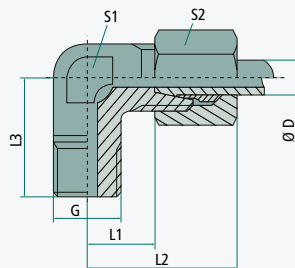
| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Series | S1 (mm) | S2 (mm) | Pipe D (mm) | Material         | PP |
|-------------|---------------|---------|---------|---------|--------|---------|---------|-------------|------------------|----|
| 30615ZS1162 | 1/8"          | 8       | 16      | 28      | LL     | 14      | 12      | 4           | V4A              | 1  |
| 30615ZS1150 | 1/8"          | 8       | 16      | 28      | LL     | 14      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1151 | 1/8"          | 8       | 16      | 28      | LL     | 14      | 12      | 6           | V4A              | 1  |
| 30615ZS1152 | 1/4"          | 12      | 25      | 40      | S      | 19      | 17      | 6           | Galvanised steel | 1  |
| 30615ZS1153 | 1/4"          | 12      | 22      | 37      | L      | 19      | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1154 | 1/4"          | 12      | 25      | 40      | S      | 19      | 17      | 6           | V4A              | 1  |
| 30615ZS1155 | 3/8"          | 12      | 23.5    | 38      | L      | 22      | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1139 | M10x1         | 8       | 16.5    | 31      | L      | 14      | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1140 | M10x1         | 8       | 16.5    | 31      | L      | 14      | 14      | 6           | V4A              | 1  |
| 30615ZS1166 | 1/8"          | 8       | 18      | 29      | LL     | 14      | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1167 | 1/8"          | 8       | 18      | 29      | LL     | 14      | 14      | 8           | V4A              | 1  |
| 30615ZS1168 | 1/4"          | 12      | 22      | 37      | L      | 19      | 17      | 8           | Galvanised steel | 1  |
| 30615ZS1169 | 1/4"          | 12      | 27      | 42      | S      | 19      | 19      | 8           | Galvanised steel | 1  |
| 30615ZS1170 | 1/4"          | 12      | 22      | 37      | L      | 19      | 17      | 8           | V4A              | 1  |
| 30615ZS1171 | 3/8"          | 12      | 23.5    | 38      | L      | 22      | 17      | 8           | Galvanised steel | 1  |
| 30615ZS1172 | 3/8"          | 12      | 23.5    | 38      | L      | 22      | 17      | 8           | V4A              | 1  |

### Straight screw-in fittings with tapered thread



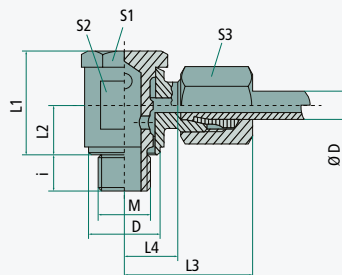
| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Series | S1 (mm) | S2 (mm) | Pipe D (mm) | Material         | PP |
|-------------|---------------|---------|---------|---------|--------|---------|---------|-------------|------------------|----|
| 30615ZS1158 | M6t           | 8       | 16      | 26      | LL     | 10      | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1159 | M8x1t         | 8       | 16      | 26      | LL     | 10      | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1160 | M8x1t         | 8       | 16      | 26      | LL     | 10      | 10      | 4           | V4A              | 1  |
| 30615ZS1157 | M10x1t        | 8       | 14.5    | 26      | LL     | 11      | 12      | 4           | Galvanised steel | 1  |
| 30615ZS1161 | R1/8"t        | 8       | 16      | 26      | LL     | 11      | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1143 | M6t           | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1144 | M6t           | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | V4A              | 1  |
| 30615ZS1156 | M7x1t         | 8       | 14.5    | 26      | LL     | 12      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1145 | M8x1t         | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1146 | M8x1t         | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | V4A              | 1  |
| 30615ZS1141 | M10x1t        | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1142 | M10x1t        | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | V2A              | 1  |
| 30615ZS1147 | R1/8"t        | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1148 | R1/8"t        | 8       | 14.5    | 26      | LL     | 11      | 12      | 6           | V2A              | 1  |
| 30615ZS1149 | R1/4"t        | 11.5    | 23.5    | 40      | S      | 17      | 17      | 6           | Galvanised steel | 1  |
| 30615ZS1163 | M10x1t        | 8       | 16.5    | 28      | LL     | 12      | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1164 | M10x1t        | 8       | 16.5    | 28      | LL     | 12      | 14      | 8           | V2A              | 1  |
| 30615ZS1165 | R1/4"t        | 12      | 20      | 35      | L      | 17      | 17      | 8           | Galvanised steel | 1  |

### Angled screw-in fittings

 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Series | S1 (mm) | S2 (mm) | Pipe D (mm) | Material         | PP |
|-------------|---------------|---------|---------|---------|--------|---------|---------|-------------|------------------|----|
| 30615ZS1185 | M6t           | 11      | 21      | 17      | LL     | 9       | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1186 | M8x1t         | 11      | 21      | 17      | LL     | 9       | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1187 | M8x1t         | 11      | 21      | 17      | LL     | 9       | 10      | 4           | Stainless steel  | 1  |
| 30615ZS1184 | M10x1t        | 11      | 21      | 17      | LL     | 11      | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1188 | R1/8"t        | 11      | 21      | 17      | LL     | 11      | 10      | 4           | Galvanised steel | 1  |
| 30615ZS1189 | R1/8"t        | 11      | 21      | 17      | LL     | 11      | 10      | 4           | Stainless steel  | 1  |
| 30615ZS1176 | M6t           | 9.5     | 21      | 17      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1177 | M6t           | 9.5     | 21      | 17      | LL     | 11      | 12      | 6           | Stainless steel  | 1  |
| 30615ZS1178 | M8x1t         | 9.5     | 21      | 17      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1179 | M8x1t         | 9.5     | 21      | 17      | LL     | 11      | 12      | 6           | Stainless steel  | 1  |
| 30615ZS1857 | M8x1t         |         |         |         | LL     |         |         | 6           | Steel            | 1  |
| 30615ZS1173 | M10x1t        | 9.5     | 21      | 17      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1174 | M10x1t        | 12      | 27      | 20      | L      | 12      | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1175 | M10x1t        | 9.5     | 21      | 17      | LL     | 11      | 12      | 6           | Stainless steel  | 1  |
| 30615ZS1180 | R1/8"t        | 10      | 22      | 17      | LL     | 11      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1181 | R1/8"t        | 10      | 22      | 17      | LL     | 11      | 12      | 6           | Stainless steel  | 1  |
| 30615ZS1182 | R1/4"t        | 16      | 31      | 27      | S      | 14      | 17      | 6           | Galvanised steel | 1  |
| 30615ZS1183 | R1/4"t        | 16      | 31      | 27      | S      | 14      | 17      | 6           | Stainless steel  | 1  |
| 30615ZS1190 | M10x1t        | 11.5    | 23      | 20      | LL     | 12      | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1191 | M10x1t        | 11.5    | 23      | 20      | LL     | 12      | 14      | 8           | Stainless steel  | 1  |
| 30615ZS1192 | R1/8"t        | 11.5    | 23      | 20      | LL     | 12      | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1193 | R1/8"t        | 11.5    | 23      | 20      | LL     | 12      | 14      | 8           | Stainless steel  | 1  |
| 30615ZS1194 | R1/4"t        | 14      | 29      | 27      | L      | 14      | 17      | 8           | Galvanised steel | 1  |
| 30615ZS1195 | R1/4"t        | 14      | 29      | 27      | L      | 14      | 17      | 8           | Stainless steel  | 1  |

### Angled swivelling threaded fittings

 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | Series | S1 (mm) | S2 (mm) | S3 (mm) | Pipe D (mm) | Material         | PP |
|-------------|---------------|---------|---------|---------|---------|--------|---------|---------|---------|-------------|------------------|----|
| 30615ZS1202 | M8x1          | 18      | 8       | 21      | 11.5    | LL     | 14      | 14      | 12      | 4           | Galvanised steel | 1  |
| 30615ZS1201 | M10x1         | 20      | 9.5     | 22      | 10      | LL     | 14      | 14      | 12      | 4           | Galvanised steel | 1  |
| 30615ZS1198 | M8x1          | 20      | 9.5     | 22      | 10      | LL     | 14      | 14      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1197 | M10x1         | 20      | 9.5     | 22      | 10      | LL     | 14      | 14      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1196 | M10x1         | 22      | 10      | 26      | 11.5    | L      | 14      | 17      | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1199 | 1/8"          | 22      | 10      | 26      | 11.5    | L      | 14      | 17      | 14      | 6           | Galvanised steel | 1  |
| 30615ZS1200 | 1/4"          | 26      | 12.5    | 29      | 14.5    | S      | 19      | 19      | 17      | 6           | Galvanised steel | 1  |
| 30615ZS1203 | M10x1         | 21.5    | 10      | 23      | 11      | LL     | 14      | 14      | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1204 | 1/8"          | 21.5    | 10      | 23      | 11      | LL     | 14      | 14      | 14      | 8           | Galvanised steel | 1  |
| 30615ZS1205 | 1/4"          | 26      | 12.5    | 28      | 13      | L      | 19      | 19      | 17      | 8           | Galvanised steel | 1  |

### Threaded T-, L-, S-pieces, adjustable

Material: galvanised steel

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Description                                 | Series | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | S2 (mm) | Pipe D (mm) | Fig. no. | PP |
|-------------|---------------------------------------------|--------|---------------|---------|---------|---------|---------|---------|-------------|----------|----|
| 30615ZS1214 | Threaded T-piece                            | LL     |               | 21      | 9.5     |         | 11      | 12      | 6           | 1        | 1  |
| 30615ZS1215 | Threaded T-piece                            | LL     |               | 23      | 11.5    |         | 12      | 14      | 8           | 1        | 1  |
| 30615ZS1216 | Threaded T-piece                            | L      |               | 27      | 12      |         | 12      | 14      | 6           | 1        | 1  |
| 30615ZS1217 | Threaded T-piece                            | L      |               | 29      | 14      |         | 14      | 17      | 8           | 1        | 1  |
| 30615ZS1218 | Threaded T-piece                            | S      |               | 31      | 16      |         | 14      | 17      | 6           | 1        | 1  |
| 30615ZS1227 | Threaded T-piece, adjustable, pre-assembled | S      | M14x1.5       | 27      | 27      |         | 17      | 13      | 6           | 2        | 1  |
| 30615ZS1228 | Threaded L-piece, adjustable, pre-assembled | L      | M12x1.5       | 27      | 12      | 26      | 14      | 12      | 6           | 3        | 1  |
| 30615ZS1229 | Threaded L-piece, adjustable, pre-assembled | L      | M14x1.5       | 29      | 14      | 27.5    | 17      | 12      | 8           | 3        | 1  |
| 30615ZS1230 | Threaded L-piece, adjustable, pre-assembled | S      | M14x1.5       | 31      | 16      | 27      | 17      | 12      | 6           | 3        | 1  |
| 30615ZS1231 | Threaded S-piece, adjustable, pre-assembled | S      | M16x1.5       | 32      | 17      | 27.5    | 17      | 14      | 8           | 3        | 1  |

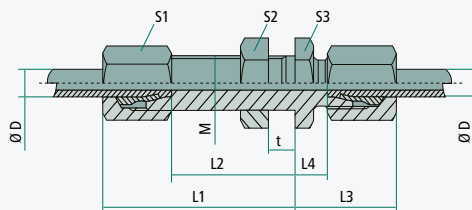
### Other threaded fittings

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Description                        | Thread 1 (mm) | L1 (mm) | L2 (mm) | Material         | S1 (mm) | S2 (mm) | S3 (mm) | Pipe D (mm) | PP |
|-------------|------------------------------------|---------------|---------|---------|------------------|---------|---------|---------|-------------|----|
| 30615ZS1233 | Angled swivelling threaded fitting | 1/8"          | 26      |         | Galvanised steel |         |         |         | 6           | 1  |
| 30615ZS1234 | Angled swivelling threaded fitting | M10x1         | 26      |         | Galvanised steel |         |         |         | 6           | 1  |
| 30615ZS1238 | Straight rotating connection       | M10x1t        | 34.5    |         | Brass            | 14      | 14      |         |             | 1  |
| 30615ZS1246 | Straight rotating connection       | M10x1t        | 36.5    |         | Brass            | 14      | 14      |         |             | 1  |
| 30615ZS1279 | Reducing threaded fitting          | M14x1.5       |         |         | Galvanised steel | 17      | 17      | 19      |             | 1  |
| 30615ZS1336 | Cap screw                          | M10x1         |         |         | Galvanised steel | 10      |         |         | 6           | 1  |
| 30615ZS1337 | Reducer                            |               |         |         | Galvanised steel |         |         |         |             | 1  |
| 30615ZS1338 | Cap screw                          | M10x1         |         |         | Galvanised steel | 10      |         |         | 4           | 1  |
| 30615ZS1742 | Straight plug connector            | M10x1         | 31.5    | 17.5    | Galvanised steel | 12      |         |         | 6           | 1  |
| 30615ZS1743 | Straight plug connector            | M10x1         | 31.5    | 17.5    | Galvanised steel | 12      |         |         | 4           | 1  |

### Straight bulkhead threaded fittings



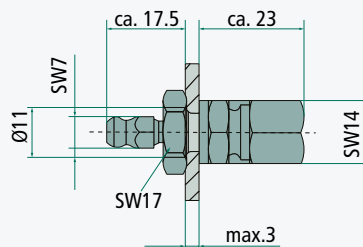
| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | S1 (mm) | S2 (mm) | Pipe D (mm) | Material         | PP |
|-------------|---------------|---------|---------|---------|---------|---------|---------|-------------|------------------|----|
| 30615ZS1219 | M12x1.5       | 42      | 27      | 22      | 7       | 14      | 17      | 6           | Galvanised steel | 1  |
| 30615ZS1220 | M12x1.5       | 42      | 27      | 22      | 7       | 14      | 17      | 6           | V4A              | 1  |
| 30615ZS1221 | M14x1.5       | 42      | 27      | 23      | 8       | 17      | 19      | 8           | Galvanised steel | 1  |
| 30615ZS1222 | M14x1.5       | 42      | 27      | 23      | 8       | 17      | 19      | 8           | V4A              | 1  |

### Bulkhead threaded fitting with grease nipple

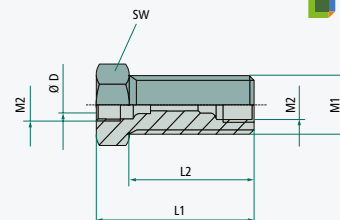


S1 (mm): 14  
 S2 (mm): 17  
 S3 (mm): 7  
 Size I approx. (mm): 40.5

Part no. 30615ZS1741

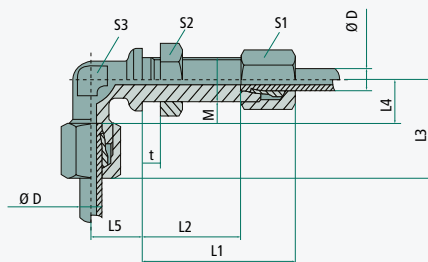


### Bulkhead threaded fittings with female thread

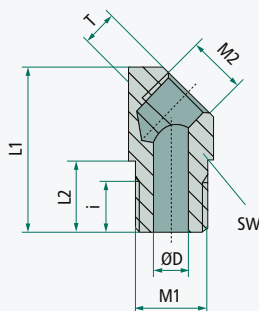


| Part no.    | Thread 1 (mm) | Thread 2 (mm) | L1 (mm) | L2 (mm) | Material         | Pipe D (mm) | S1 (mm) | PP |
|-------------|---------------|---------------|---------|---------|------------------|-------------|---------|----|
| 30615ZS1567 | M14x1.5       | M8x1          | 27      | 19      | Galvanised steel | 4           | 17      | 1  |
| 30615ZS1568 | M14x1.5       | M8x1          | 38      | 30      | Galvanised steel | 4           | 17      | 1  |
| 30615ZS1569 | M14x1.5       | M10x1         | 30      | 20      | Galvanised steel | 6           | 17      | 1  |
| 30615ZS1570 | M20x1.5       | M16x1.5       | 42      | 27      | Galvanised steel | 10          | 24      | 1  |

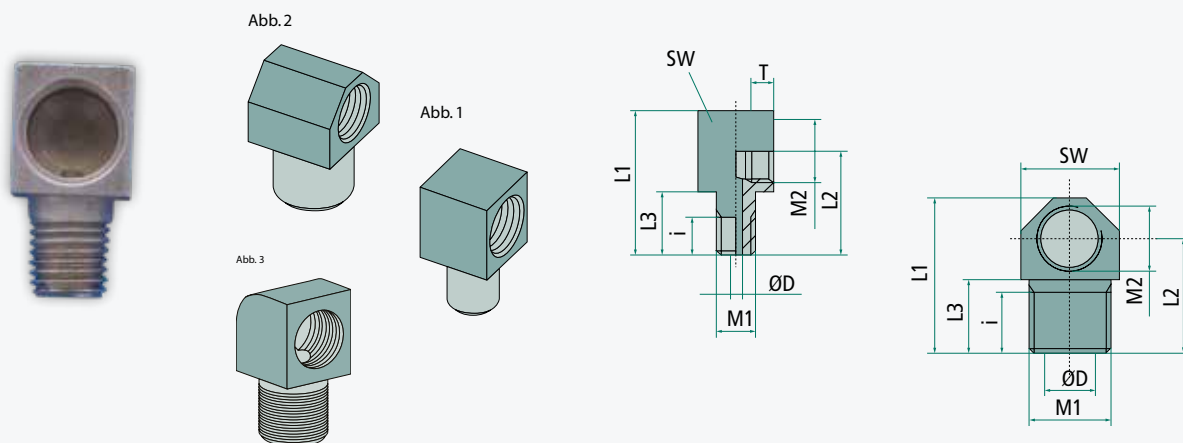
### Angled bulkhead threaded fittings



| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) | S1 (mm) | S2 (mm) | S3 (mm) | Pipe D (mm) | Material         | PP |
|-------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|------------------|----|
| 30615ZS1223 | M12x1.5       | 42      | 27      | 27      | 12      | 14      | 14      | 17      | 12      | 6           | Galvanised steel | 1  |
| 30615ZS1224 | M12x1.5       | 42      | 27      | 27      | 12      | 14      | 14      | 17      | 12      | 6           | Stainless steel  | 1  |
| 30615ZS1225 | M14x1.5       | 42      | 27      | 29      | 14      | 17      | 17      | 19      | 12      | 8           | Galvanised steel | 1  |
| 30615ZS1226 | M14x1.5       | 44      | 29      | 31      | 16      | 17      | 17      | 19      | 12      | 6           | Galvanised steel | 1  |

**Corner threaded fittings 45°**
 **GROENEVELD-BEKA**  
 LUBRICATION SYSTEMS BY TIMKEN


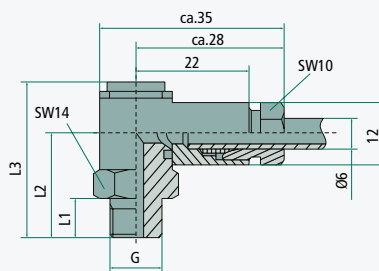
| Part no.    | Thread 1 (mm) | Thread 2 (mm) | L1 (mm) | L2 (mm) | S1 (mm) | D (mm) | Size I approx. (mm) | Material         | PP |
|-------------|---------------|---------------|---------|---------|---------|--------|---------------------|------------------|----|
| 30615ZS1562 | M6t           | M8x1          | 23      | 10      | 12      | 4      | 6                   | Galvanised steel | 1  |
| 30615ZS1560 | M8x1t         | M8x1          | 23      | 10      | 12      | 2      | 7                   | Galvanised steel | 1  |
| 30615ZS1561 | M8x1.25t      | M8x1          | 23      | 10      | 12      | 4      | 7                   | Galvanised steel | 1  |
| 30615ZS1559 | M10x1t        | M8x1          | 23      | 10      | 12      | 5      | 7                   | Galvanised steel | 1  |
| 30615ZS1563 | 1/4"-28UNF    | M8x1          | 23      | 10      | 12      | 2      | 6                   | Galvanised steel | 1  |
| 30615ZS1232 | 1/4"          | R1/4"t        | 32.5    | 14.5    | 18      | 7      | 14.5                | Galvanised steel | 1  |

**Corner threaded fittings 90°**
 **GROENEVELD-BEKA**  
 LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Version                           | Thread 1 (mm) | Thread 2 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | Size I approx. (mm) | D (mm) | PP |
|-------------|-----------------------------------|---------------|---------------|---------|---------|---------|---------|---------------------|--------|----|
| 30615ZS1552 | Fig. 1, corner - stainless steel  | M10x1t        | M10x1         | 25      | 18.5    | 10      | 12      | 7                   | 5      | 1  |
| 30615ZS1553 | Fig. 1, corner - stainless steel  | M10x1t        | M10x1         | 65      | 58.5    | 10      | 12      | 7                   | 5      | 1  |
| 30615ZS1554 | Fig. 1, corner - stainless steel  | M10x1t        | M10x1         | 75      | 68.5    | 10      | 12      | 7                   | 5      | 1  |
| 30615ZS1546 | Fig. 1, corner - galvanised steel | M6t           | M10x1         | 23      | 16.5    | 10      | 12      | 6                   | 2      | 1  |
| 30615ZS1547 | Fig. 1, corner - galvanised steel | M8x1t         | M10x1         | 23      | 16.5    | 10      | 12      | 7                   | 4      | 1  |
| 30615ZS1548 | Fig. 1, corner - galvanised steel | M8x1.25t      | M10x1         | 23      | 16.5    | 10      | 12      | 7                   | 4      | 1  |
| 30615ZS1549 | Fig. 1, corner - galvanised steel | M10x1t        | M10x1         | 23      | 16.5    | 10      | 12      | 7                   | 5      | 1  |
| 30615ZS1550 | Fig. 1, corner - galvanised steel | 1/4"-28UNF    | M10x1         | 23      | 16.5    | 10      | 12      | 6                   | 2      | 1  |
| 30615ZS1564 | Fig. 1, corner - galvanised steel | R1/8"t        | M10x1         | 26      | 19      | 12      | 12      |                     | 5      | 1  |
| 30615ZS1551 | Fig. 1, corner - galvanised steel | R1/4"t        | M10x1         | 26      | 19      | 12      | 14      | 10                  | 7      | 1  |
| 30615ZS1566 | Fig. 2, corner - galvanised steel | M10x1t        | M8x1          | 19      | 14      | 9       | 12      |                     | 6      | 1  |
| 30615ZS1558 | Fig. 3, corner - galvanised steel | M6t           | M10x1         |         |         |         | 12      | 6                   | 2      | 1  |
| 30615ZS1557 | Fig. 3, corner - galvanised steel | M8x1t         | M10x1         |         |         |         | 12      | 7                   | 4      | 1  |
| 30615ZS1556 | Fig. 3, corner - galvanised steel | M8x1.25t      | M10x1         |         |         |         | 12      | 7                   | 4      | 1  |
| 30615ZS1555 | Fig. 3, corner - galvanised steel | M10x1t        | M10x1         |         |         |         | 12      | 7                   | 5      | 1  |

### Swivel joints with screw connection

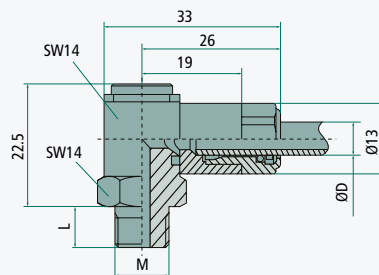
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Thread 1 (mm) | Pipe D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Connection type       | PP |
|-------------|---------------|-------------|---------|---------|---------|-----------------------|----|
| 30615ZS1235 | M6t           | 6           | 7.5     | 20      | 30      | Screw connection SW10 | 1  |
| 30615ZS1236 | M8x1t         | 6           | 7.5     | 20      | 30      | Screw connection SW10 | 1  |
| 30615ZS1237 | M10x1t        | 6           | 7.5     | 20      | 30      | Screw connection SW10 | 1  |
| 30615ZS1239 | R1/8"t        | 6           | 7.5     | 20      | 30      | Screw connection SW10 | 1  |
| 30615ZS1245 | 1/8-27 NPT    | 6           | 7.5     | 20      | 30      | Screw connection SW10 | 1  |

### Swivel joints with plug connection

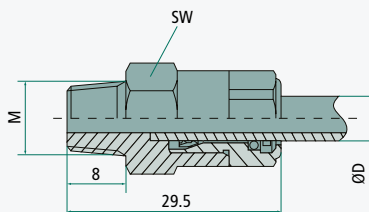
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



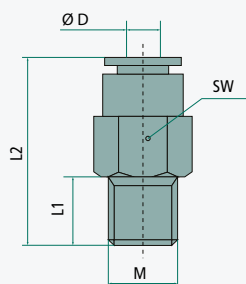
| Part no.    | Thread 1 (mm) | L1 (mm) | Pipe D (mm) | Material | PP |
|-------------|---------------|---------|-------------|----------|----|
| 30615ZS1249 | M6t           | 7.5     | 4           | Brass    | 1  |
| 30615ZS1250 | M8x1t         | 7.5     | 4           | Brass    | 1  |
| 30615ZS1251 | M10x1t        | 7.5     | 4           | Brass    | 1  |
| 30615ZS1252 | R1/4"t        | 9       | 4           | Brass    | 1  |
| 30615ZS1253 | R1/8"t        | 7.5     | 4           | Brass    | 1  |
| 30615ZS1240 | M6t           | 7.5     | 6           | Brass    | 1  |
| 30615ZS1241 | M8x1t         | 7.5     | 6           | Brass    | 1  |
| 30615ZS1242 | M10x1t        | 7.5     | 6           | Brass    | 1  |
| 30615ZS1243 | R1/4"t        | 9       | 6           | Brass    | 1  |

### Straight connectors, BEKA version

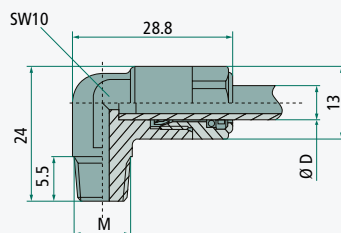
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Thread 1 (mm) | Pipe D (mm) | S1 (mm) | Material         | PP |
|-------------|---------------|-------------|---------|------------------|----|
| 30615ZS1273 | M6t           | 4           | 11      | Galvanised steel | 1  |
| 30615ZS1272 | M8x1t         | 4           | 11      | Galvanised steel | 1  |
| 30615ZS1271 | M10x1t        | 4           | 11      | Galvanised steel | 1  |
| 30615ZS1274 | R1/8"t        | 4           | 11      | Galvanised steel | 1  |
| 30615ZS1277 | M6t           | 6           | 13      | Galvanised steel | 1  |
| 30615ZS1276 | M8x1t         | 6           | 13      | Galvanised steel | 1  |
| 30615ZS1275 | M10x1t        | 6           | 13      | Galvanised steel | 1  |

**Straight connectors, HP version**

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

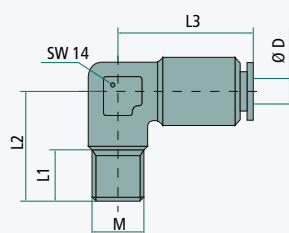
| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | Pipe D (mm) | S1 (mm) | Material             | PP |
|-------------|---------------|---------|---------|-------------|---------|----------------------|----|
| 30615ZS1284 | M6t           | 8       | 25      | 4           | 10      | Brass, nickel-plated | 1  |
| 30615ZS1280 | M8x1t         | 8       | 22      | 4           | 10      | Brass, nickel-plated | 1  |
| 30615ZS1282 | M10x1t        | 8       | 21      | 4           | 11      | Brass, nickel-plated | 1  |
| 30615ZS1303 | R1/8"t        | 7.5     | 21      | 4           | 10      | Brass, nickel-plated | 1  |
| 30615ZS1285 | M6t           | 8       | 28      | 6           | 12      | Brass, nickel-plated | 1  |
| 30615ZS1281 | M8x1t         | 8       | 28      | 6           | 12      | Brass, nickel-plated | 1  |
| 30615ZS1283 | M10x1t        | 8       | 24      | 6           | 12      | Brass, nickel-plated | 1  |
| 30615ZS1304 | R1/8"t        | 7.5     | 24      | 6           | 12      | Brass, nickel-plated | 1  |
| 30615ZS1305 | R1/4"t        | 11      | 26      | 6           | 14      | Brass, nickel-plated | 1  |

**Angled plug connectors, BEKA version**

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

| Part no.    | Thread 1 (mm) | Pipe D (mm) | Material | PP |
|-------------|---------------|-------------|----------|----|
| 30615ZS1265 | M6t           | 4           | Brass    | 1  |
| 30615ZS1264 | M8x1t         | 4           | Brass    | 1  |
| 30615ZS1263 | M10x1t        | 4           | Brass    | 1  |
| 30615ZS1268 | M8x1t         | 6           | Brass    | 1  |
| 30615ZS1267 | M10x1t        | 6           | Brass    | 1  |

**Angled plug connectors, HP version**

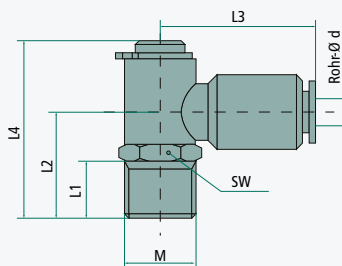
Can be removed without tools  
 Pressure range: max. 150 bar  
 Temperature range: -20°C to +70°C


**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Pipe D (mm) | Material             | PP |
|-------------|---------------|---------|---------|---------|-------------|----------------------|----|
| 30615ZS1288 | M6t           | 6       | 17      | 21      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1290 | M8x1t         | 8       | 17      | 21      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1292 | M10x1t        | 8       | 17      | 21      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1286 | R1/8"t        | 7.5     | 17      | 21      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1289 | M6t           | 6       | 20      | 22      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1291 | M8x1t         | 8       | 20      | 22      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1306 | M8x1.25t      | 8       | 20      | 22      | 6           | Brass, nickel-plated | 1  |
| 11053154    | M10x1t        | 8       | 20      | 22      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1287 | R1/8"t        | 7.5     | 20      | 22      | 6           | Brass, nickel-plated | 1  |

### Swivel joint plug connectors

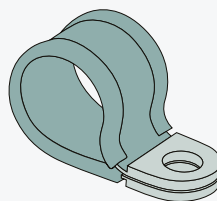
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | S1 (mm) | Pipe D (mm) | Material             | PP |
|-------------|---------------|---------|---------|---------|---------|---------|-------------|----------------------|----|
| 30615ZS1294 | R1/8"t        | 7.5     | 14.5    | 22      | 24.5    | 11      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1297 | M6t           | 8       | 15      | 22      | 24      | 11      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1299 | M8x1t         | 8       | 15      | 22      | 24      | 11      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1301 | M10x1t        | 8       | 15      | 22      | 25      | 11      | 4           | Brass, nickel-plated | 1  |
| 30615ZS1295 | R1/8"t        | 7.5     | 14.5    | 22      | 24.5    | 11      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1296 | R1/4"t        | 11      | 20.5    | 24      | 28      | 14      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1298 | M6t           | 8       | 15      | 22      | 24      | 11      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1300 | M8x1t         | 8       | 15      | 22      | 24      | 11      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1302 | M10x1t        | 8       | 15      | 22      | 25      | 11      | 6           | Brass, nickel-plated | 1  |
| 30615ZS1307 | M8x1.25t      | 8       | 15      | 24      | 24      | 11      | 6           | Brass, nickel-plated | 1  |

### Pipe clamps with rubber insert

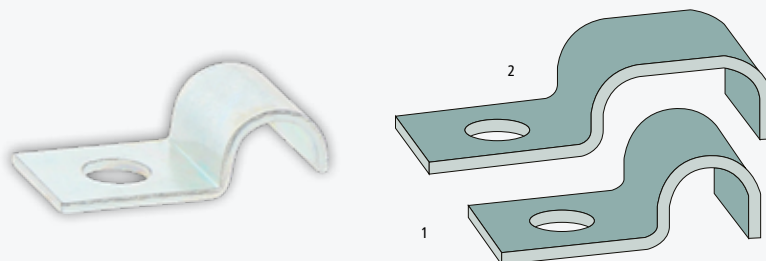
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



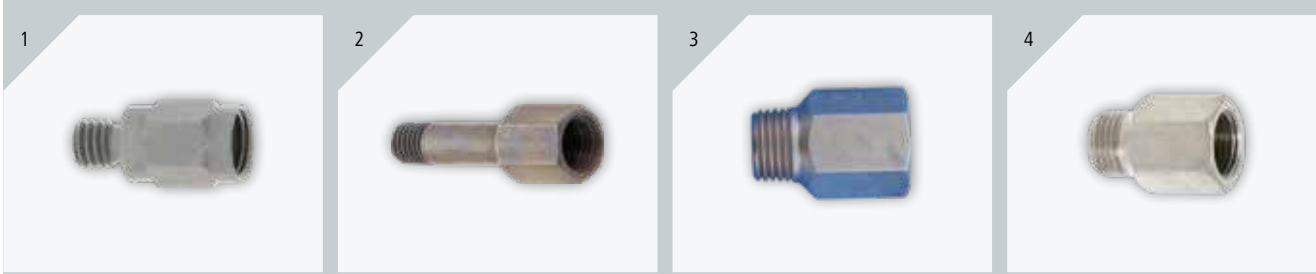
| Part no.    | Pipe D (mm) | Version | Material         | S (mm) | Fixing hole (mm) | PP |
|-------------|-------------|---------|------------------|--------|------------------|----|
| 30615ZS1530 | 6           | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1531 | 9           | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1532 | 12          | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1533 | 15          | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1535 | 17          | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1536 | 18          | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1534 | 20          | 12 mm   | Galvanised steel | 0.5    | 5.3              | 1  |
| 30615ZS1578 | 6           | 15 mm   | Galvanised steel | 0.6    | 6.4              | 1  |
| 30615ZS1573 | 9           | 15 mm   | Galvanised steel | 0.6    | 6.4              | 1  |
| 30615ZS1579 | 10          | 15 mm   | Galvanised steel | 0.6    | 6.4              | 1  |
| 30615ZS1574 | 12          | 15 mm   | Galvanised steel | 0.6    | 6.4              | 1  |
| 30615ZS1575 | 18          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |
| 30615ZS1580 | 15          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |
| 30615ZS1571 | 17          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |
| 30615ZS1581 | 19          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |
| 30615ZS1572 | 20          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |
| 30615ZS1576 | 22          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |
| 30615ZS1577 | 25          | 15 mm   | Galvanised steel | 0.8    | 6.4              | 1  |

**Pipe clamps with fixing on one side**

Fixing on one side, according to DIN 72571  
 Material: galvanised steel  
 Fixing hole: 4.8 mm diameter

 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


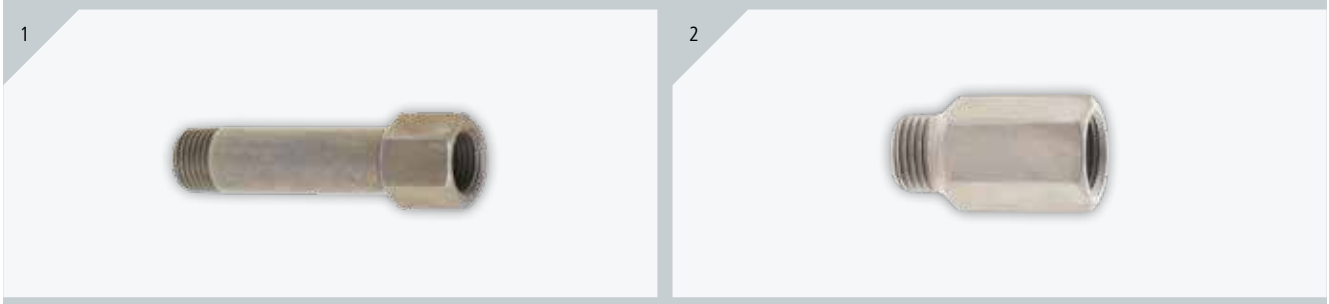
| Part no.    | Pipe D (mm) | Series | PP |
|-------------|-------------|--------|----|
| 30615ZS1381 | 4           | 1      | 1  |
| 30615ZS1383 | 6           | 1      | 1  |
| 30615ZS1385 | 8           | 1      | 1  |
| 30615ZS1386 | 8           | 2      | 1  |

**Extensions for lubrication point connections**
 **GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN


| Part no.    | Thread 1 (mm) | Thread 2 (mm) | L1 (mm) | L2 (mm) | S1 (mm) | Pipe D (mm) | Material         | Fig. no. | PP |
|-------------|---------------|---------------|---------|---------|---------|-------------|------------------|----------|----|
| 30615ZS1537 | M6            | M8x1          | 20      | 6.5     | 11      | 4           | Galvanised steel | 1        | 1  |
| 30615ZS1132 | M6t           | M8x1          | 35      | 23      | 10      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1538 | M6t           | M8x1          | 10      | 6       | 11      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1539 | M8x1          | M8x1          | 18      | 7.5     | 11      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1540 | M8x1t         | M8x1          | 17      | 7.4     | 11      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1120 | M8x1t         | M8x1          | 35      | 23      | 10      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1130 | M8x1t         | M8x1          | 50      | 37.5    | 10      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1542 | M10x1t        | M8x1          | 16      | 7.4     | 11      | 4           | Galvanised steel | 2        | 1  |
| 30615ZS1129 | UNF 1/4"-28   | M10x1         | 24      | 6       | 13      | 6           | Galvanised steel | 2        | 1  |
| 30615ZS1114 | R1/8"t        | M10x1         | 21      | 6       | 13      | 6           | Galvanised steel | 3        | 1  |
| 30615ZS1138 | R1/8"t        | M10x1         | 50      | 38      | 13      | 6           | Galvanised steel | 3        | 1  |
| 30615ZS1122 | R1/4"t        | M10x1         | 35      | 23      | 14      | 6           | Galvanised steel | 3        | 1  |
| 30615ZS1126 | R1/4"t        | M10x1         | 26      | 14      | 14      | 6           | Galvanised steel | 3        | 1  |
| 30615ZS1117 | M6t           | M10x1         | 24      | 6       | 13      | 6           | Galvanised steel | 3        | 1  |
| 30615ZS1111 | M8x1t         | M10x1         | 21      | 6       | 13      | 6           | Galvanised steel | 4        | 1  |
| 30615ZS1116 | M8t           | M10x1         | 21      | 6       | 13      | 6           | Galvanised steel | 4        | 1  |
| 30615ZS1543 | M8x1          | M10x1         | 23      | 7.5     | 14      | 6           | Galvanised steel | 4        | 1  |
| 30615ZS1112 | M10x1t        | M10x1         | 21      | 6       | 13      | 6           | Galvanised steel | 4        | 1  |

### Extensions for lubrication point connections

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Thread 1 (mm) | Thread 2 (mm) | L1 (mm) | L2 (mm) | S1 (mm) | Pipe D (mm) | Material         | Fig. no. | PP |
|-------------|---------------|---------------|---------|---------|---------|-------------|------------------|----------|----|
| 30615ZS1118 | M10x1t        | M10x1         | 50      | 38      | 13      | 6           | Galvanised steel | 1        | 1  |
| 30615ZS1119 | M10x1t        | M10x1         | 35      | 23      | 13      | 6           | Galvanised steel | 1        | 1  |
| 30615ZS1121 | M10t          | M10x1         | 21      | 6       | 13      | 6           | Galvanised steel | 1        | 1  |
| 30615ZS1133 | M10x1t        | M10x1         | 26      | 6       | 13      | 6           | Galvanised steel | 2        | 1  |
| 30615ZS1134 | M12x1.5t      | M10x1         | 21      | 8.5     | 13      | 6           | Galvanised steel | 2        | 1  |
| 30615ZS1135 | M10x1t        | M10x1         | 17.5    | 6       | 13      | 6           | Galvanised steel | 2        | 1  |
| 30615ZS1544 | M10x1         | M10x1         | 20.5    | 7.5     | 14      | 6           | Galvanised steel | 2        | 1  |

### Protective parts for lubrication points

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN

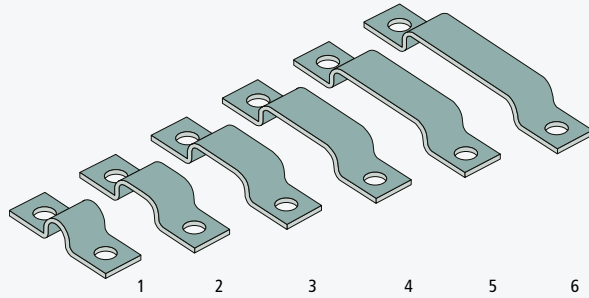


| Part no.    | Description                  | Thread 1 (mm) | Pipe D (mm) | L1 (mm) | L2 (mm) | S1 (mm) | Material             | Fig. no. | PP |
|-------------|------------------------------|---------------|-------------|---------|---------|---------|----------------------|----------|----|
| 30615ZS1348 | Protective ring              |               |             | 70      | 50      |         | Galvanised steel     | 1        | 1  |
| 30615ZS1764 | Protective ring              |               |             | 60      | 50      |         | Galvanised steel     | 1        | 1  |
| 30615ZS1765 | Protective ring              |               |             | 90      | 78      |         | Galvanised steel     | 1        | 1  |
| 30615ZS1766 | Lubrication point protection |               |             | 70      | 50      |         | Steel, blank         | 3        | 1  |
| 30615ZS1763 | Lubrication point protection |               |             | 70      | 60      |         | Steel, primer finish | 3        | 1  |
| 30615ZS1767 | Weld-on piece                | M10x1         | 6           |         |         |         | Galvanised steel     | 4        | 1  |
| 30615ZS1762 | Weld-on nut                  | M27           |             |         |         | 41      |                      | 2        | 1  |
| 30615ZS1729 | Cap screw                    | M10x1         | 6           |         |         | 10      | Stainless steel      |          | 1  |

### Pipe clamps with fixing on both sides

Fixing on both sides, according to DIN 72573  
Material: galvanised steel  
Fixing hole: 4.8 mm diameter

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | L1 (mm) | Pipe D (mm) | To fit            | Series | PP |
|-------------|---------|-------------|-------------------|--------|----|
| 30615ZS1401 | 29      | 4           | Clamp for 1 line  | 1      | 1  |
| 30615ZS1402 | 33      | 4           | Clamp for 2 lines | 2      | 1  |
| 30615ZS1403 | 39      | 4           | Clamp for 3 lines | 3      | 1  |
| 30615ZS1404 | 44      | 4           | Clamp for 4 lines | 4      | 1  |
| 30615ZS1405 | 48      | 4           | Clamp for 5 lines | 5      | 1  |
| 30615ZS1406 | 52      | 4           | Clamp for 6 lines | 6      | 1  |
| 30615ZS1389 | 32      | 6           | Clamp for 1 line  | 1      | 1  |
| 30615ZS1390 | 38      | 6           | Clamp for 2 lines | 2      | 1  |
| 30615ZS1391 | 45      | 6           | Clamp for 3 lines | 3      | 1  |
| 30615ZS1392 | 51      | 6           | Clamp for 4 lines | 4      | 1  |
| 30615ZS1393 | 57      | 6           | Clamp for 5 lines | 5      | 1  |
| 30615ZS1394 | 64      | 6           | Clamp for 6 lines | 6      | 1  |
| 30615ZS1395 | 34      | 8           | Clamp for 1 line  | 1      | 1  |
| 30615ZS1396 | 42      | 8           | Clamp for 2 lines | 2      | 1  |
| 30615ZS1397 | 51      | 8           | Clamp for 3 lines | 3      | 1  |
| 30615ZS1398 | 59      | 8           | Clamp for 4 lines | 4      | 1  |
| 30615ZS1399 | 68      | 8           | Clamp for 5 lines | 5      | 1  |
| 30615ZS1400 | 76      | 8           | Clamp for 6 lines | 6      | 1  |

Further sizes can be found in our webshop.

### Assortment case

Box of tools, small

#### Comes with:

- Plastic tube
- High-pressure hose
- Screw sleeves
- Pipe nozzles
- Cap screws
- Various threaded fittings and extensions

Part no. 30615ZS1853

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



### Assortment case

Box of tools, large

#### Comes with:

- Plastic tube
- High-pressure hose
- Coiled pipe
- Screw sleeves
- Pipe nozzles
- Cap screws
- Various threaded fittings, swivel joints, reducers and extensions

Part no. 30615ZS1855

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



The case contents can be found in our webshop.

Series AZU-L

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no. | Description   | Reduction ratio | Outlets | Inlet connection | Outlet connection | Delivery volume                              | Viscosity                    | Temperature range                                 | Max. speed (rpm) | Max. operating pressure (bar) | PP |
|----------|---------------|-----------------|---------|------------------|-------------------|----------------------------------------------|------------------------------|---------------------------------------------------|------------------|-------------------------------|----|
| 36794822 | AZU-L 8.25-1  | 8.25:1          | 4       | ø 10 mm          | ø 4 mm straight   | Max. 0.06 cm <sup>3</sup> /stroke and outlet | 25 - 1500 mm <sup>2</sup> /s | Medium: 0°C - +70°C<br>Environment: 0°C - +70°C   | 200              | 5                             | 1  |
| 46507690 | AZU-L 16.66-1 | 16.66:1         | 2       | ø 10 mm angled   | ø 4 mm straight   | Max. 0.06 cm <sup>3</sup> /stroke and outlet | 25 - 1500 mm <sup>2</sup> /s | Medium: 0°C to +70°C<br>Environment: 0°C to +70°C | 400              | 5                             | 1  |
| 46543616 | AZU-L 25-1    | 25:1            | 6       | ø 10 mm          | ø 4 mm straight   | Max. 0.06 cm <sup>3</sup> /stroke and outlet | 25 - 1500 mm <sup>2</sup> /s | Medium: 0°C to +70°C<br>Environment: 0°C to +70°C | 600              | 5                             | 1  |

Oil containers

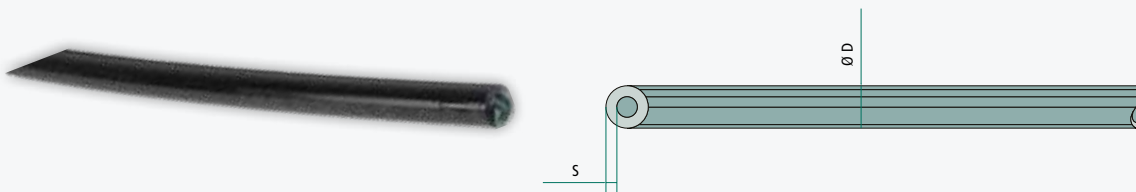
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no. | Description       | Capacity | Version                         | Fig. no. | PP |
|----------|-------------------|----------|---------------------------------|----------|----|
| 46531445 | Oil container set | 7.2 l    | With filling strainer and mount | 1        | 1  |
| 46544137 | Oil container set | 4.2 l    | With filling strainer and mount | 2        | 1  |

### Plastic tubes

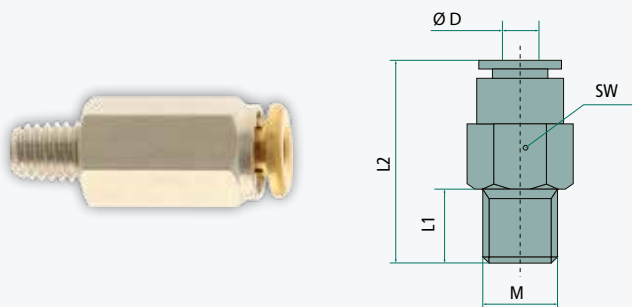
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no.    | Dimensions (mm) | Material                     | Roll length (m) | PP |
|-------------|-----------------|------------------------------|-----------------|----|
| 46507691    | 4 x 0.85        | Polyamide plastic tube, hard | 5               | 1  |
| 30615ZS1452 | 4 x 0.85        | Polyamide plastic tube, hard | 10              | 1  |
| 46531781    | 4 x 0.85        | Polyamide plastic tube, hard | 20              | 1  |
| 46542744    | 4 x 0.85        | Polyamide plastic tube, hard | 50              | 1  |
| 46531446    | 4 x 0.85        | Polyamide plastic tube, hard | 100             | 1  |

### Straight screw-in plug connectors

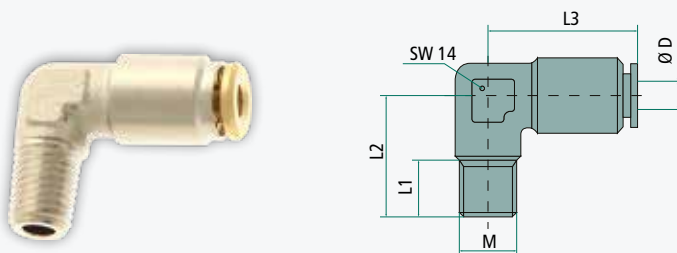
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no. | Thread 1 (mm) | L1 (mm) | L2 (mm) | Pipe Ø (mm) | S1 (mm) | PP |
|----------|---------------|---------|---------|-------------|---------|----|
| 46504514 | 1/8"          | 23.5    | 18      | 4           | 10      | 1  |
| 46507689 | M6            | 27.5    | 21.5    | 4           | 10      | 1  |
| 46529187 | R1/8t         | 23.2    | 15.2    | 4           | 10      | 1  |
| 46530865 | M8x1t         | 24.5    | 17.5    | 4           | 10      | 1  |
| 46533460 | M8x1          | 27      | 21      | 4           | 10      | 1  |
| 46546451 | M10x1t        | 23.2    | 15.2    | 4           | 11      | 1  |
| 46549417 | M10x1         | 23      | 17      | 4           | 10      | 1  |

### Angled screw-in plug connectors

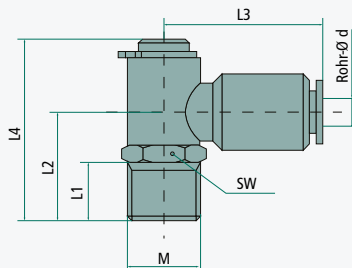
**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no. | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | Pipe Ø (mm) | PP |
|----------|---------------|---------|---------|---------|---------|-------------|----|
| 46530866 | R1/8t         | 23.5    | 22.5    | 14.5    | 10      | 4           | 1  |
| 46531084 | M10x1t        | 23.5    | 22.5    | 14.5    | 10      | 4           | 1  |

### Angled swivelling plug connectors

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no. | Thread 1 (mm) | L1 (mm) | L2 (mm) | L3 (mm) | S1 (mm) | S2 (mm) | Pipe Ø (mm) | PP |
|----------|---------------|---------|---------|---------|---------|---------|-------------|----|
| 46517617 | M8x1t         | 23.5    | 27.3    | 20.3    | 13      | 13      | 4           | 1  |
| 46525495 | M6t           | 24      | 27.3    | 21.3    | 13      | 13      | 4           | 1  |
| 46525496 | M10x1         | 23.5    | 27.3    | 21.3    | 13      | 13      | 4           | 1  |
| 46533461 | 1/8"          | 23.5    | 26.8    | 21.3    | 13      | 13      | 4           | 1  |
| 46540475 | M8x1          | 23.5    | 27.3    | 21.3    | 13      | 13      | 4           | 1  |
| 46544138 | M6            | 23.5    | 27.3    | 21.3    | 13      | 13      | 4           | 1  |
| 46545037 | R1/8t         | 23.5    | 28.3    | 20.3    | 13      | 13      | 4           | 1  |

### Y-shaped plug connectors

Can be removed without tools

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



| Part no. | Version | L1 (mm) | L2 (mm) | L3 (mm) | Pipe Ø (mm) | Material      | PP |
|----------|---------|---------|---------|---------|-------------|---------------|----|
| 46517616 | HL      | 35      | 11      | 22      | 4           | Plastic       | 1  |
| 46532240 | HL      | 29.5    | 9.5     | 18.5    | 4           | Nickel-plated | 1  |

### Plastic tube Ø 10 x 2

Dimensions (mm): 10 x 2

Roll length (m): 2.5

Part no. 46544549

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN



### Oil brush

Plug connector must have a counterbalance valve, otherwise the oil will drain out through the brush

Nylon bristles 0.3 mm

Black, corrugated

Part no. 46524943

**GROENEVELD-BEKA**  
LUBRICATION SYSTEMS BY TIMKEN





#### P203 central lubrication pump without control

| Part no. | Control | Contents | Voltage | Delivery volume                 | PP |
|----------|---------|----------|---------|---------------------------------|----|
| 12527521 | Without | 2 kg     | 12 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12531441 | Without | 4 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12527983 | Without | 2 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |

#### P203 central lubrication pump with M-control

| Part no. | Control           | Contents | Voltage | Delivery volume                 | PP |
|----------|-------------------|----------|---------|---------------------------------|----|
| 12522781 | M08 control panel | 2 kg     | 12 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12487760 | M08 control panel | 2 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12518054 | M08 control panel | 4 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12518553 | M09 control panel | 2 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12531367 | M09 control panel | 4 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |

#### P203 central lubrication pump with V-control

| Part no. | Control           | Contents | Voltage | Delivery volume                 | PP |
|----------|-------------------|----------|---------|---------------------------------|----|
| 12531251 | V10 control panel | 2 kg     | 12 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12534232 | V10 control panel | 2 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |
| 12522371 | V10 control panel | 4 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |

#### P203 central lubrication pump with H-control

| Part no. | Control         | Contents | Voltage | Delivery volume                 | PP |
|----------|-----------------|----------|---------|---------------------------------|----|
| 12520455 | H control panel | 2 kg     | 24 V DC | 0.16 cm <sup>3</sup> per stroke | 1  |

Further pumps can be found in our webshop.

### CLP Touch central lubrication pumps

#### Electrical connection:

Bayonet plug left, 7-pin, A-coded, M12x1, 5-pin, right, B-coded for cycle switches



**SKF**

| Part no. | Voltage | Version        | Delivery volume (cm³) | Contents | Inlet                            | Control           | PP |
|----------|---------|----------------|-----------------------|----------|----------------------------------|-------------------|----|
| 19381369 | 12 V DC | 1 pump element | 0.16 cm³ per stroke   | 1 l      | Standard grease nipple M22 x 1.5 | IMS circuit board | 1  |
| 12367424 | 24 V DC | 1 pump element | 0.16 cm³ per stroke   | 1 l      | Standard grease nipple M22 x 1.5 | IMS circuit board | 1  |

### P502 central lubrication pumps

#### Electrical connection:

1 cubic plug left for power supply, low level notification and illuminated push button, cubic plug with socket and 10 m cable to external devices



**SKF**

| Part no. | Voltage | Version                                                                                | Delivery volume     | Contents | Tank version                                       | Control           | PP |
|----------|---------|----------------------------------------------------------------------------------------|---------------------|----------|----------------------------------------------------|-------------------|----|
| 12528766 | 24 V DC | For lubricating grease without low level notification, pump element with piston ø 6 mm | 1.44 cm³ per stroke | 1 l      | Container with blade without grease follower plate | V10 control panel | 1  |
| 12534233 | 12 V DC | For lubricating grease without low level notification, pump element with piston ø 6 mm | 1.44 cm³ per stroke | 1 l      | Container with blade without grease follower plate | V10 control panel | 1  |

### KFG piston pumps

Without pump element, without lubricant, without attachments



**SKF**

| Part no. | Voltage | Contents | Tank version               | Equipment                                              | PP |
|----------|---------|----------|----------------------------|--------------------------------------------------------|----|
| 12520349 | 12 V DC | 2 kg     | With grease follower plate | Without control unit, without filling level monitoring | 1  |
| 12538114 | 24 V DC | 2 kg     | With grease follower plate | With mechanical filling level monitoring (minimum)     | 1  |
| 12528764 | 12 V DC | 6 kg     | With grease follower plate | Without mechanical filling level monitoring (minimum)  | 1  |
| 12536543 | 12 V DC | 6 kg     | With grease follower plate | Without control unit, without filling level monitoring | 1  |
| 12538113 | 24 V DC | 6 kg     | With grease follower plate | Without mechanical filling level monitoring (minimum)  | 1  |
| 12521781 | 24 V DC | 6 kg     | With grease follower plate | Without control unit, without filling level monitoring | 1  |

### Pump elements

Pump elements with spring return, flow rate indicated by different number of grooves

**SKF**



| Part no. | Series                      | Delivery volume           | Thread 1 (mm)  | Thread 2 (mm)    | Version   | PP |
|----------|-----------------------------|---------------------------|----------------|------------------|-----------|----|
| 19626367 | P203, P502, CLP             | 2.0 cm <sup>3</sup> /min. |                |                  |           | 1  |
| 11194001 | P203, P223, P233, P502, CLP | 3.2 cm <sup>3</sup> /min. |                |                  |           | 1  |
| 12539714 | KFG                         | 0.8 cm <sup>3</sup> /min. | M20 x 1.5 male | M14 x 1.5 female | 4 grooves | 1  |
| 12416149 | KFG                         | 1.3 cm <sup>3</sup> /min. | M20 x 1.5 male | M14 x 1.5 female | 3 grooves | 1  |
| 12517097 | KFG                         | 1.8 cm <sup>3</sup> /min. | M20 x 1.5 male | M14 x 1.5 female | 2 grooves | 1  |
| 12517518 | KFG                         | 2.5 cm <sup>3</sup> /min. | M20 x 1.5 male | M14 x 1.5 female | 1 groove  | 1  |
| 12518961 | KFG                         | 5.0 cm <sup>3</sup> /min. | M20 x 1.5 male | M14 x 1.5 female | No groove | 1  |

### Pressure limiting valves

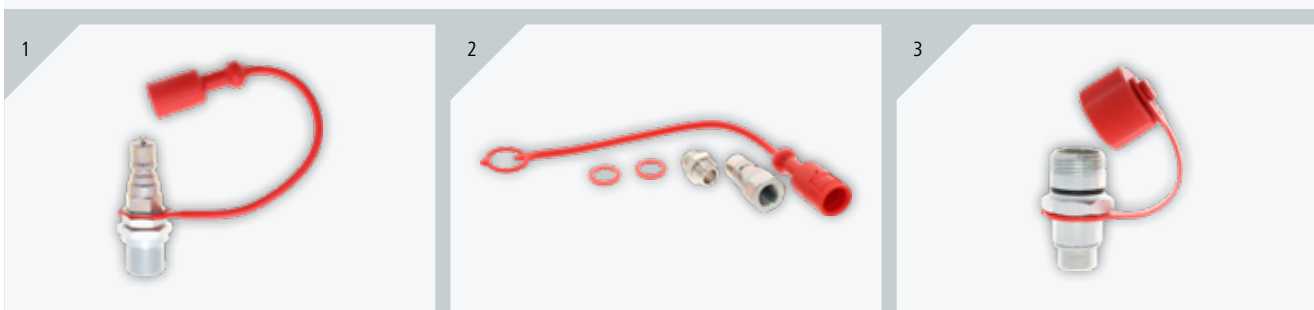
**SKF**



| Part no. | To fit                            | Version                            | Thread 1 (mm) | Pipe Ø (mm) | Description                                               | PP |
|----------|-----------------------------------|------------------------------------|---------------|-------------|-----------------------------------------------------------|----|
| 12535032 | Lubrication pump P203             | With emergency grease nipple, left | R1/4          | 6           | Pressure relief valve 350 bar for connection to pump part | 1  |
| 11198851 | Lubrication pump P203             | Pressure relief valve (PRV)        | R1/4          | 6           | Pressure relief valve 350 bar for connection to pump part | 1  |
| 12520454 | Piston pump series KFG, KFGS, KFA | With emergency grease nipple       | M14 x 1.5     | 6           | Opening pressure: 300 +/-20 bar                           | 1  |

### Grease container filling

**SKF**



| Part no. | Description                                       | Thread 1 (mm) | To fit                         | Fig. no. | PP |
|----------|---------------------------------------------------|---------------|--------------------------------|----------|----|
| 12367994 | Filling pump FP - 500<br>Without threaded fitting |               | 400 cm <sup>3</sup> cartridges |          | 1  |
| 12367166 | Filling connection                                | M22 x 1.5     | Lubrication pump P203, CS203   | 1        | 1  |
| 11012735 | Filling connection                                | 1/4"          | Lubrication pump P203          | 2        | 1  |
| 12540003 | Filling connection                                | M20 x 1.5     | KFG piston pump unit           | 3        | 1  |
| 36483069 | Coupling sleeve                                   |               | Coupling plug ø 14.2 mm max.   |          | 1  |

### Grease lubrication pump

The HTL 201 lubrication pump is mounted directly on the hydraulic tool. It provides continuous lubrication throughout the tool's entire operating cycle. The lubrication pump is powered by the carrier's hydraulic system. The pump remains attached to the tool requiring lubrication even when the carrier is changed.

The HTL 201 is ideal for reducing friction and wear in hydraulic hammers, grapples, tongs and mini excavators. The pump can be installed even in the smallest spaces.

The HTL 201 uses 310 ml cartridges filled with chisel paste or grease up to NLGI 2. Thanks to the extensive range of adaptors, almost all common cartridges can be used, from 310 ml cartridges to standard cartridges. For applications with higher lubricant consumption, e.g. tunnel boring machines, versions with refillable containers for 8 or 17 l are available. Thanks to a mounting plate, the pump can be mounted horizontally to save space. The container features a quasi-analogue lubricant level switch with multiple switching points in the analogue signal range of 4 to 20 mA. The user can monitor lubricant delivery during operation and is notified in a timely manner when the level is about to become low.

#### To fit:

- Hydraulic hammers from 0.3 t (carrier weight)
- Hydraulic attachments such as demolition grapples and tongs
- Mini excavators and smaller equipment

Part no. 46540381



**SKF**

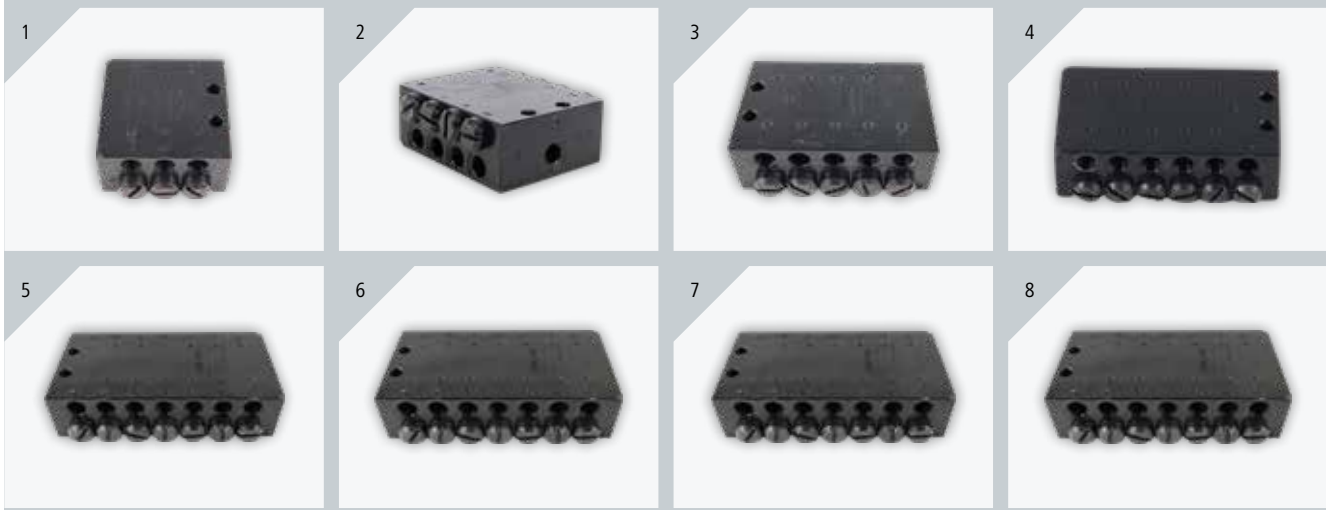
Suitable accessories such as an adaptor set and cartridges can be found in our webshop under the item.

### Lubricant distributors SSV

Progressive distributors with block design, 6 - 22 outlets, lines Ø 4 and Ø 6 mm can be connected, operating pressure max. 350 bar, grease up to NLGI 2, function monitoring possible

**Equipment:** without grease nipple, without line connection, without function monitoring

**SKF**

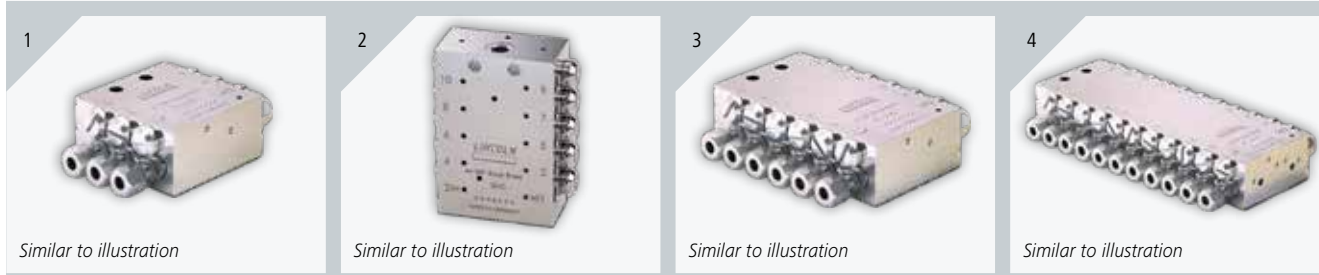


| Part no. | Series | Outlet  | Inlet       | Version               | Fig. no. | PP |
|----------|--------|---------|-------------|-----------------------|----------|----|
| 11193265 | SSV6   | M10 x 1 | 1/8" thread | Metering not possible | 1        | 1  |
| 11190702 | SSV8   | M10 x 1 | 1/8" thread | Metering not possible | 2        | 1  |
| 11206411 | SSV10  | M10 x 1 | 1/8" thread | Metering not possible | 3        | 1  |
| 11194170 | SSV12  | M10 x 1 | 1/8" thread | Metering not possible | 4        | 1  |
| 11304938 | SSV14  | M10 x 1 | 1/8" thread | Metering not possible | 5        | 1  |
| 12365786 | SSV16  | M10 x 1 | 1/8" thread | Metering not possible | 6        | 1  |
| 12518055 | SSV18  | M10 x 1 | 1/8" thread | Metering not possible | 7        | 1  |
| 12517856 | SSV20  | M10 x 1 | 1/8" thread | Metering not possible | 8        | 1  |

### Lubricant distributors SSVC

Progressive distributors with block design, 6 - 22 outlets, operating pressure max. 350 bar, grease up to NLGI 2, oil with at least 40 mm<sup>2</sup>/s, function monitoring possible

**Equipment:** without grease nipple, without line connection, without function monitoring



| Part no. | Outlet      | Inlet          | Delivery volume                | Version               | Fig. no. | PP |
|----------|-------------|----------------|--------------------------------|-----------------------|----------|----|
| 19380580 | 6x M10 x 1  | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 1        | 1  |
| 19334988 | 8x M10 x 1  | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 2        | 1  |
| 19340586 | 10x M10 x 1 | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 2        | 1  |
| 19340587 | 12x M10 x 1 | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 3        | 1  |
| 19334081 | 14x M10 x 1 | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 3        | 1  |
| 19334082 | 16x M10 x 1 | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 3        | 1  |
| 19050189 | 18x M10 x 1 | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 4        | 1  |
| 19383678 | 20x M10 x 1 | 1x 1/8" thread | 0.2 cm <sup>3</sup> per outlet | Metering not possible | 4        | 1  |

### Lubricant distributors SSVD

Progressive distributors with block design, 6 - 22 outlets, lines Ø 4 and Ø 6 mm can be connected, operating pressure max. 350 bar, grease up to NLGI 2, function monitoring possible

**Equipment:**  
Without grease nipple, without line connection, without function monitoring



| Part no. | Description                                            | Inlet          | Outlet      | PP |
|----------|--------------------------------------------------------|----------------|-------------|----|
| 12420626 | Lubricant distributor SSVD 6, metering possible        | 1x 1/8" thread | 6x M10 x 1  | 1  |
| 12531656 | Lubricant distributor SSVD 6/5 V1, metering possible   | 1/8" thread    | M10 x 1     | 1  |
| 12538112 | Lubricant distributor SSVD 8, metering possible        | 1/8" thread    | M10 x 1     | 1  |
| 12531548 | Lubricant distributor SSVD 8/7 V1, metering possible   | 1/8" thread    | M10 x 1     | 1  |
| 12514263 | Lubricant distributor SSVD 10/9 V1, metering possible  | 1/8" thread    | M10 x 1     | 1  |
| 12507881 | Lubricant distributor SSVD 12, metering possible       | 1/8" thread    | M10 x 1     | 1  |
| 12539805 | Lubricant distributor SSVD 12/11 V1, metering possible | 1/8" thread    | M10 x 1     | 1  |
| 12510139 | Lubricant distributor SSVD 14, metering possible       | 1/8" thread    | M10 x 1     | 1  |
| 12528765 | Lubricant distributor SSVD 14/13 V1, metering possible | 1/8" thread    | M10 x 1     | 1  |
| 12536731 | Lubricant distributor SSVD 16, metering possible       | 1/8" thread    | M10 x 1     | 1  |
| 12529971 | Lubricant distributor SSVD 16/15 V1, metering possible | 1/8" thread    | M10 x 1     | 1  |
| 12526388 | Lubricant distributor SSVD 18, metering possible       | 1/8" thread    | M10 x 1     | 1  |
| 12531368 | Lubricant distributor SSVD 18/17 V1, metering possible | 1/8" thread    | M10 x 1     | 1  |
| 12514262 | Lubricant distributor SSVD 20, metering possible       | 1/8" thread    | M10 x 1     | 1  |
| 12528763 | Lubricant distributor SSVD 20/19 V1, metering possible | 1/8" thread    | M10 x 1     | 1  |
| 12529969 | Lubricant distributor SSVD 22                          | 1/8" thread    | M10 x 1     | 1  |
| 12531547 | Lubricant distributor SSVD 22/21 V1, metering possible | 1/8" thread    | M10 x 1     | 1  |
| 11283164 | Lubricant distributor SSVD 10, metering possible       | 1x 1/8" thread | 10x M10 x 1 | 1  |

**Metering screws SSVD**
**SKF**


| Part no. | Description                                                   | PP |
|----------|---------------------------------------------------------------|----|
| 36473765 | Coding: 8/A, metering quantity 0.08 cm <sup>3</sup> /stroke   | 1  |
| 36494028 | Coding: 14/B, metering quantity 0.14 cm <sup>3</sup> /stroke  | 1  |
| 36452167 | Coding: 20/C, metering quantity 0.20 cm <sup>3</sup> /stroke  | 1  |
| 36491083 | Coding: 30/D, metering quantity 0.30 cm <sup>3</sup> /stroke  | 1  |
| 36491201 | Coding: 40/E, metering quantity 0.40 cm <sup>3</sup> /stroke  | 1  |
| 36491852 | Coding: 60/F, metering quantity 0.60 cm <sup>3</sup> /stroke  | 1  |
| 36493247 | Coding: 80/G, metering quantity 0.80 cm <sup>3</sup> /stroke  | 1  |
| 36498224 | Coding: 100/H, metering quantity 1.00 cm <sup>3</sup> /stroke | 1  |
| 36469533 | Coding: 140/I, metering quantity 1.40 cm <sup>3</sup> /stroke | 1  |
| 36494940 | Coding: 180/J, metering quantity 1.80 cm <sup>3</sup> /stroke | 1  |

**Lubricant distributors SSVM**

Progressive distributors with block design, 6 - 12 outlets, line Ø 4 mm can be connected, operating pressure max. 200 bar, grease up to NLGI 2, function monitoring possible

**SKF**


| Part no. | Inlet       | Outlet | Series  | Delivery volume                         | PP |
|----------|-------------|--------|---------|-----------------------------------------|----|
| 12533748 | 1/8" thread | M8 x 1 | SSVM 6  | 0.07 cm <sup>3</sup> /stroke and outlet | 1  |
| 12518394 | 1/8" thread | M8 x 1 | SSVM 8  | 0.07 cm <sup>3</sup> /stroke and outlet | 1  |
| 12533839 | 1/8" thread | M8 x 1 | SSVM 10 | 0.07 cm <sup>3</sup> /stroke and outlet | 1  |

**Progressive distributors VPB**

Progressive distributors with block design, 6 - 20 outlets, operating pressure with grease max. 300 bar, grease up to NLGI 2, subsequent internal connection of two opposite outlets by unscrewing a sealing plug screwed into the right-hand outlet hole (outlet holes at the top, viewed from the lubricant inlet) and closing one of the two outlets. Combination of two or more neighbouring outlets using external connectors. Without built-in check valves, without alternative outlets

**SKF**


| Part no. | Equipment                            | Delivery volume                        | PP |
|----------|--------------------------------------|----------------------------------------|----|
| 12522671 | 1x inlet M10 x 1, 6x outlet M10 x 1  | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12526168 | 1x inlet M10 x 1, 8x outlet M10 x 1  | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12518962 | 1x inlet M10 x 1, 10x outlet M10 x 1 | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12539716 | 1x inlet M10 x 1, 12x outlet M10 x 1 | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12519059 | 1x inlet M10 x 1, 14x outlet M10 x 1 | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12530959 | 1x inlet M10 x 1, 16x outlet M10 x 1 | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12537121 | 1x inlet M10 x 1, 18x outlet M10 x 1 | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |
| 12520270 | 1x inlet M10 x 1, 20x outlet M10 x 1 | 0.2 cm <sup>3</sup> /stroke and outlet | 1  |

## Function monitoring

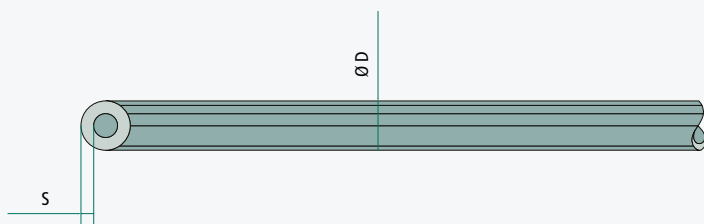
**SKF**



| Part no. | Description     | Version                                                | To fit                                 | Contents                                     | Material        | Fig. no. | PP |
|----------|-----------------|--------------------------------------------------------|----------------------------------------|----------------------------------------------|-----------------|----------|----|
| 12504081 | Piston detector | Electric version: 2 wires, DC PNP/NPN                  | VPB                                    | Set with piston detector, O-ring and adaptor | Stainless steel | 1        | 1  |
| 12536542 | Piston detector | Electric version: 3 wires, DC PNP, 2 wires, DC PNP/NPN | VPB                                    | Single piston detector                       | Stainless steel | 1        | 1  |
| 12416150 | Piston detector | Electric version: 2 wires, DC PNP/NPN                  | VPK                                    | Set with piston detector, O-ring and adaptor | Stainless steel | 1        | 1  |
| 12540103 | Adaptor sleeve  |                                                        | Universal and bipolar piston detectors |                                              |                 | 2        | 1  |
| 12533838 | Piston detector | Electric version: 3 wires, DC PNP, 2 wires, DC PNP/NPN | VPB                                    | Set with piston detector, O-ring and adaptor | Stainless steel | 1        | 1  |

## Plastic tubes

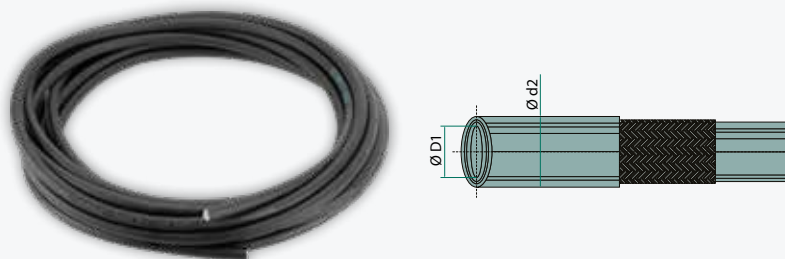
**SKF**



| Part no. | Dimensions | Material                      | Version                  | Roll length (m) | Pumped substance                                        | PP |
|----------|------------|-------------------------------|--------------------------|-----------------|---------------------------------------------------------|----|
| 19335120 | 6 x 1.5 mm | Polyamide (semi-rigid), black | Straight, without grease | 5               | Oil, low-viscosity grease and grease up to NLGI class 3 | 1  |
| 36984205 | 6 x 1.5 mm | Polyamide (semi-rigid), black | Straight, with grease    | 10              | Oil, low-viscosity grease and grease up to NLGI class 3 | 1  |
| 36984206 | 6 x 1.5 mm | Polyamide (semi-rigid), black | Straight, with grease    | 30              | Oil, low-viscosity grease and grease up to NLGI class 3 | 1  |
| 36773014 | 6 x 1.5 mm | Polyamide (semi-rigid), black | Straight, without grease | 50              | Oil, low-viscosity grease and grease up to NLGI class 3 | 1  |

## High-pressure hoses

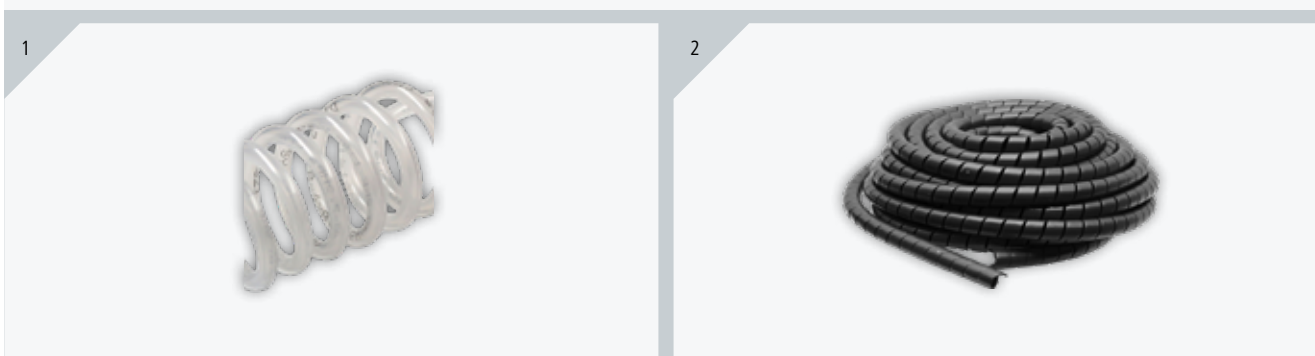
**SKF**



| Part no. | Dimensions    | Material                                                    | Version                  | Roll length (m) | PP |
|----------|---------------|-------------------------------------------------------------|--------------------------|-----------------|----|
| 12365399 | 8.6 x 2.3 mm  | Polyamide (soft), polyurethane (high-strength outer), black | Straight, without grease | 5               | 1  |
| 36935918 | 8.6 x 2.3 mm  | Polyamide (soft), polyurethane (high-strength outer), black | Straight, without grease | 25              | 1  |
| 19669632 | 8.6 x 2.3 mm  | Polyamide (soft), polyurethane (high-strength outer), black | Straight, with grease    | 10              | 1  |
| 36937122 | 8.6 x 2.3 mm  | Polyamide (soft), polyurethane (high-strength outer), black | Straight, with grease    | 50              | 1  |
| 12365400 | 11.3 x 6.4 mm | Polyamide (soft), polyurethane (high-strength outer), black | Straight, with grease    | 5               | 1  |
| 36648451 | 11.3 x 6.4 mm | Polyamide (soft), polyurethane (high-strength outer), black | Straight, with grease    | 20              | 1  |
| 36696269 | 11.3 x 6.4 mm | Polyamide (soft), polyurethane (high-strength outer), black | Straight, without grease | 5               | 1  |

## Anti-kink protection and line protection

**SKF**



| Part no. | Description            | Dimensions                          | Material          | Version | Description                                                             | Fig. no. | PP |
|----------|------------------------|-------------------------------------|-------------------|---------|-------------------------------------------------------------------------|----------|----|
| 12517517 | Kink protection spiral | Inner: 10.6 mm                      | Stainless steel   |         | For high-pressure hose                                                  | 1        | 1  |
| 12366391 | Protective coil        | Inner: 9 mm, wall thickness: 1.5 mm | Soft polyethylene | Black   | Protective coil as line protection or for combining several small lines | 2        | 1  |

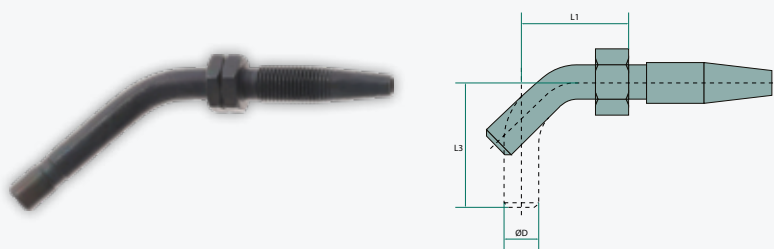
## Pipe connection, straight

**SKF**



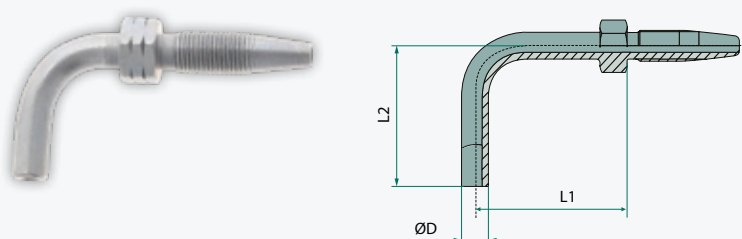
| Part no. | Pipe Ø (mm) | To fit                           | Material               | Dimensions | PP |
|----------|-------------|----------------------------------|------------------------|------------|----|
| 12540203 | 6           | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 25 mm long | 1  |
| 12495796 | 6           | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 26 mm long | 1  |
| 12507880 | 6           | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 30 mm long | 1  |
| 12533837 | 6           | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 32 mm long | 1  |
| 12510137 | 6           | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 39 mm long | 1  |
| 12529968 | 6           | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 75 mm long | 1  |
| 12520269 | 8           | High-pressure hose 11.3 x 6.4 mm | Zinc-nickel, Cr-6-free | 26 mm long | 1  |

**Pipe connection, bent 45°**



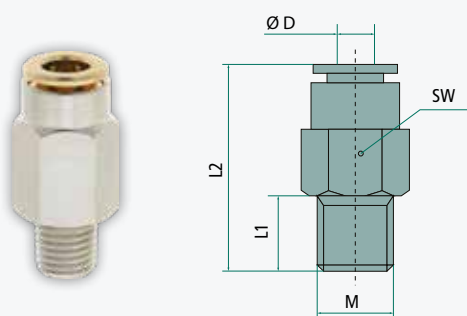
| Part no. | Pipe Ø (mm) | L1 (mm) | To fit                           | Material               | PP |
|----------|-------------|---------|----------------------------------|------------------------|----|
| 12329079 | 6           |         | High-pressure hose 8.75 x 4.1 mm |                        | 1  |
| 36494941 | 6           | 29      | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 1  |
| 36469534 | 6           | 40      | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 1  |

**Pipe connection, bent 90°**



| Part no. | L1 (mm) | L2 (mm) | Pipe Ø (mm) | To fit                           | PP |
|----------|---------|---------|-------------|----------------------------------|----|
| 12529972 | 21      | 19      | 6           | High-pressure hose 8.75 x 4.1 mm | 1  |
| 11199256 | 29.5    | 37      | 6           | High-pressure hose 8.75 x 4.1 mm | 1  |
| 12420627 | 29.5    | 53      | 6           | High-pressure hose 8.75 x 4.1 mm | 1  |
| 12532754 | 35      | 19      | 6           | High-pressure hose 8.75 x 4.1 mm | 1  |
| 12476489 | 36      | 24      | 6           | High-pressure hose 8.75 x 4.1 mm | 1  |

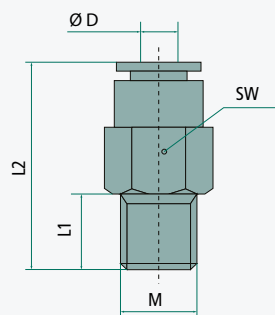
**Plug connectors, straight**



| Part no. | Seal material | Thread 1 (mm) | L1 (mm) | L2 (mm) | Pipe Ø (mm) | AF (mm) | PP |
|----------|---------------|---------------|---------|---------|-------------|---------|----|
| 36039182 | NBR           | 1/8"          | 6       | 23.8    | 4           | 12      | 1  |
| 36035360 | NBR           | M6t           | 6       | 25.8    | 4           | 10      | 1  |
| 36034179 | NBR           | M8 x 1        | 6       | 23.8    | 4           | 10      | 1  |
| 36046546 | NBR           | M8 x 1t       | 6       | 23.3    | 4           | 10      | 1  |
| 36047521 | NBR           | M10 x 1       | 6       | 23.8    | 4           | 12      | 1  |
| 35832970 | NBR           | 1/8"          | 6       | 27      | 6           | 12      | 1  |
| 36040342 | NBR           | 1/4"          | 7       | 28      | 6           | 12      | 1  |
| 36480678 | NBR           | M6 x 1t       | 6       | 24      | 6           | 12      | 1  |
| 36036998 | NBR           | M8 x 1t       | 6       | 29.5    | 6           | 12      | 1  |
| 36028637 | NBR           | M10 x 1       | 6       | 27      | 6           | 12      | 1  |
| 36032868 | NBR           | M12 x 1       | 7       | 28      | 6           | 14      | 1  |
| 36046241 | NBR           | M10 x 1       | 6       | 32.3    | 8           | 14      | 1  |
| 36040584 | NBR           | M12 x 1       | 7       | 32.8    | 8           | 14      | 1  |

### Connectors

Detachable plug connectors as screw-in connectors



**SKF**

| Part no. | Thread 1 (mm) | L1 (mm) | Pipe Ø (mm) | PP |
|----------|---------------|---------|-------------|----|
| 12513383 | R1/8t         | 27      | 6           | 1  |
| 12522670 | M10 x 1t      | 27      | 6           | 1  |
| 12531365 | M6t           | 30      | 6           | 1  |

### Swivelling threaded fittings with cylindrical thread



**SKF**

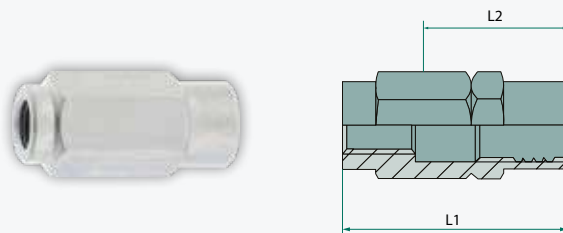
| Part no. | Insertion depth (mm) | Seal material | Thread 1 (mm) | L2 (mm) | L3 (mm) | Pipe Ø (mm) | PP |
|----------|----------------------|---------------|---------------|---------|---------|-------------|----|
| 35995889 | 19                   | NBR           | 1/8"          | 20.5    | 21.8    | 4           | 1  |
| 36047409 | 19                   | NBR           | M8 x 1        | 20.5    | 21.8    | 4           | 1  |
| 36047218 | 19                   | NBR           | M10 x 1       | 20.5    | 21.8    | 4           | 1  |
| 36027865 | 22                   | NBR           | 1/8"          | 21      | 26      | 6           | 1  |
| 36042554 | 22                   | NBR           | M8 x 1        | 21      | 26      | 6           | 1  |
| 36019652 | 22                   | NBR           | M10 x 1       | 21      | 26      | 6           | 1  |
| 36048324 | 22                   | NBR           | M12 x 1       | 21      | 26      | 6           | 1  |
| 36027465 | 24                   | NBR           | M12 x 1       | 23      | 28.8    | 8           | 1  |
| 36045043 | 24                   | NBR           | M12 x 1       | 23      | 28.8    | 8           | 1  |

### Swivelling threaded fittings with tapered thread

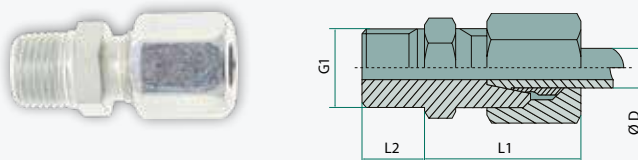


**SKF**

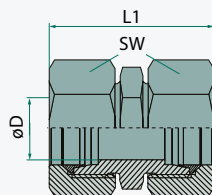
| Part no. | Insertion depth (mm) | Seal material | Thread 1 (mm) | L2 (mm) | L3 (mm) | Pipe Ø (mm) | PP |
|----------|----------------------|---------------|---------------|---------|---------|-------------|----|
| 36037397 | 22                   | NBR           | R1/8t         | 20.5    | 21.8    | 4           | 1  |
| 35980195 | 19                   | NBR           | M6t           | 20      | 21.8    | 4           | 1  |
| 36028157 | 19                   | NBR           | M6t           | 20      | 21.8    | 4           | 1  |
| 36043141 | 19                   | NBR           | M8 x 1t       | 20      | 21.8    | 4           | 1  |
| 36046431 | 19                   | NBR           | M10 x 1t      | 20      | 21.8    | 4           | 1  |
| 12487761 |                      |               | M8 x 1t       |         |         | 6           | 1  |
| 12527522 |                      |               | M10 x 1t      |         |         | 6           | 1  |

**Screw sleeves**


| Part no. | Pipe Ø (mm) | L1 (mm) | To fit                           | Material               | Version                            | PP |
|----------|-------------|---------|----------------------------------|------------------------|------------------------------------|----|
| 12531657 | 6           | 28      | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 17 mm screw-in length on hose line | 1  |
| 36491628 | 6           | 28      | High-pressure hose 8.75 x 4.1 mm | Stainless steel 1.4305 | 17 mm screw-in length on hose line | 1  |
| 12532233 | 6           | 28      | High-pressure hose 8.75 x 4.1 mm | Zinc-nickel, Cr-6-free | 19 mm screw-in length on hose line | 1  |
| 12510138 | 8           | 35      | High-pressure hose 11.3 x 6.4 mm | Zinc-nickel, Cr-6-free | 23 mm screw-in length on hose line | 1  |

**Straight screw-in fittings**


| Part no. | Pipe Ø (mm) | Thread 1 (mm) | Version | L1 (mm) | L2 (mm) | AF (mm) | Description                            | PP |
|----------|-------------|---------------|---------|---------|---------|---------|----------------------------------------|----|
| 36475364 | 4           | M10 x 1t      | GE4-LL  | 26      | 8       | 10      | With metric thread, tapered            | 1  |
| 11196958 | 6           | R1/8t         | GE 6-LL | 26      | 8       | 11      | With tapered Whitworth pipe thread     | 1  |
| 12533747 | 6           | R1/8t         | GE6-LL  | 26      | 8       | 11      | With tapered Whitworth pipe thread     | 1  |
| 36481175 | 6           | R1/8t         | GE6-LL  | 26      | 8       | 11      | With Whitworth pipe thread             | 1  |
| 12367164 | 6           | 1/4" male     | GE 6-L  | 25      | 12      | 19      | With cylindrical Whitworth pipe thread | 1  |
| 11186173 | 6           | M6 x 1t       | GE6-LL  | 26      | 8       | 11      | With metric thread, tapered            | 1  |
| 36490045 | 6           | M8 x 1t       | GE6-LL  | 26      | 8       | 11      | With metric thread                     | 1  |
| 11196559 | 6           | M8 x 1t       | GE6-LL  | 26      | 8       | 11      | With metric thread, tapered            | 1  |
| 36458302 | 6           | M10 x 1       | GE6-L   | 23      | 8       | 14      | With metric thread, cylindrical        | 1  |
| 11196167 | 8           | M10 x 1t      | GE6-LL  | 26      | 8       | 11      | With metric thread, tapered            | 1  |

**Straight pipe connectors**


1



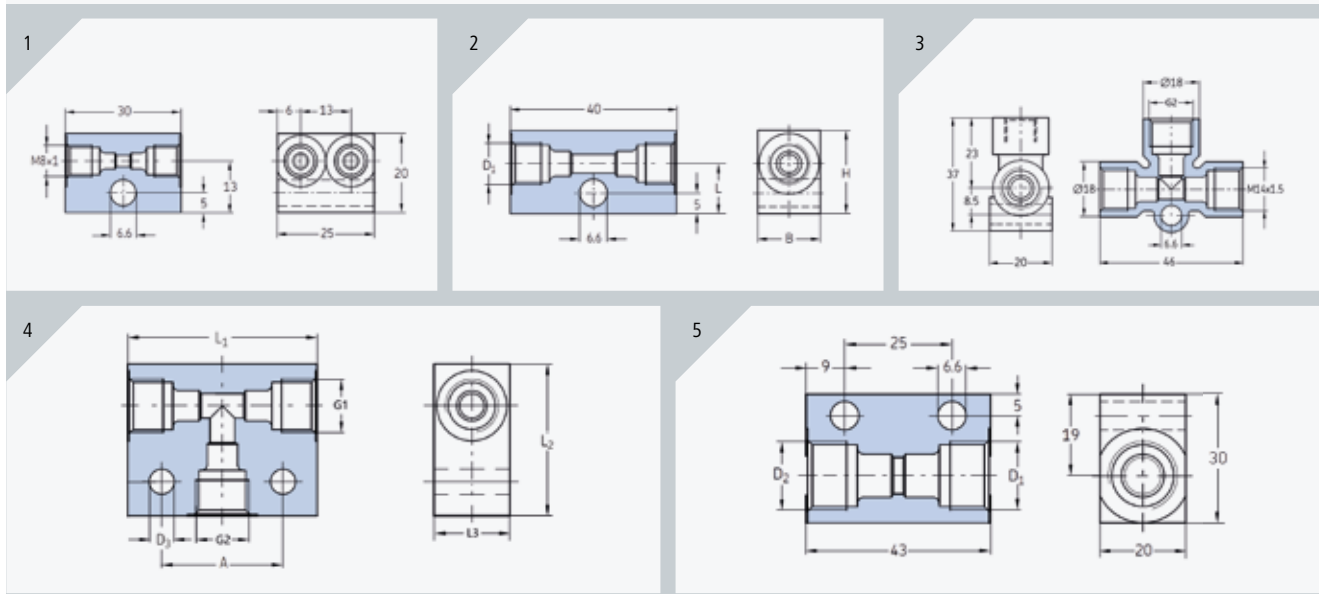
2



| Part no. | Description             | Description                                  | To fit              | L1 (mm) | Pipe Ø (mm) | Fig. no. | PP |
|----------|-------------------------|----------------------------------------------|---------------------|---------|-------------|----------|----|
| 12539713 | <b>Threaded fitting</b> | Straight pipe connector                      |                     | 32      | 6           | 1        | 1  |
| 12531443 | <b>Plug connector</b>   | Detachable plug connector as cable connector | Polyamide line 6 mm | 44.5    | 6           | 2        | 1  |

## Pipe connectors with fixing

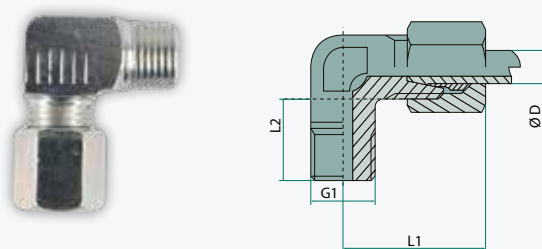
**SKF**



| Part no. | A (mm) | L1 (mm) | L2 (mm) | L3 (mm) | Pipe Ø (mm) | Thread 1 (mm) | Thread 2 (mm) | Fig. no. | PP |
|----------|--------|---------|---------|---------|-------------|---------------|---------------|----------|----|
| 36022094 |        | 30      | 20      | 25      | 4           | M8 x 1        | M8 x 1        | 1        | 1  |
| 36046240 |        | 40      | 20      | 15      | 6           | M10 x 1       | M10 x 1       | 2        | 1  |
| 36036373 |        | 40      | 25      | 20      | 8           | M14 x 1.5     | M14 x 1.5     | 2        | 1  |
| 35978163 |        | 46      | 37      | 20      | 8 / 6       | M14 x 1.5     | M10 x 1       | 3        | 1  |
| 36022095 |        | 46      | 37      | 20      | 8           | M14 x 1.5     | M14 x 1.5     | 3        | 1  |
| 36039183 | 22     | 40      | 30      | 20      | 6           | M10 x 1       | M10 x 1       | 4        | 1  |
| 36040343 | 32     | 50      | 40      | 20      | 8           | M14 x 1.5     | M14 x 1.5     | 4        | 1  |
| 36047217 | 25     | 52      | 40      | 20      | 10          | M16 x 1.5     | M16 x 1.5     | 4        | 1  |
| 35980196 |        | 43      | 30      | 20      | 10          | M16 x 1.5     | M16 x 1.5     | 5        | 1  |

## Angled screw-in fittings

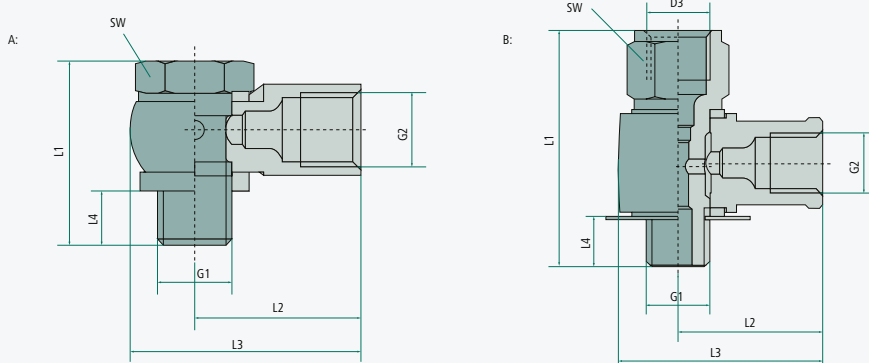
**SKF**



| Part no.     | Pipe Ø (mm) | Thread 1 (mm) | L1 (mm) | L2 (mm) | Description                                        | Material               | PP |
|--------------|-------------|---------------|---------|---------|----------------------------------------------------|------------------------|----|
| 36491835     | 6           |               | 19      | 8       | Angled screw-in fitting with metric thread         | Stainless steel 1.4571 | 1  |
| 12513384     | 6           | R1/8t male    |         |         | Angled screw-in fitting with Whitworth pipe thread | Steel, galvanised      | 1  |
| 11202032     | 6           | R1/8t male    |         |         | Angled screw-in fitting with Whitworth pipe thread | Steel, galvanised      | 1  |
| 12529238     | 6           | R1/4          | 21      | 12      | Angled screw-in fitting with Whitworth pipe thread | Steel, galvanised      | 1  |
| 11195966     | 6           | M6 x 1t male  | 19      | 8       | Angled screw-in fitting with metric thread         | Steel, galvanised      | 1  |
| 500223130233 | 6           | M8 x 1t male  | 21      | 8       | Angled screw-in fitting with metric thread         | Steel, galvanised      | 1  |
| 12536806     | 6           | M10 x 1t      | 19      | 8       | Angled screw-in fitting with metric thread         | Steel, galvanised      | 1  |
| 11201423     | 6           | M10 x 1t male | 15      | 8       | Angled screw-in fitting with metric thread         | Steel, galvanised      | 1  |
| 36478002     | 8           | M10 x 1t      | 17      | 8       | Angled screw-in fitting with metric thread         | Steel, galvanised      | 1  |

### Swivelling threaded fittings

**SKF**



| Part no. | Description | Pipe Ø (mm) | Thread 1 (mm) | Thread 2 (mm) | Version                                                                                                                | PP |
|----------|-------------|-------------|---------------|---------------|------------------------------------------------------------------------------------------------------------------------|----|
| 36027292 | Form A      | 4           | M6            | M8 x 1        | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36042023 | Form A      | 4           | M8 x 1        | M8 x 1        | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36032751 | Form A      | 4           | M8 x 1        | M8 x 1        | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36045153 | Form A      | 4           | M10 x 1       | M8 x 1        | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36043229 | Form A      | 4           | 1/8" male     | M8 x 1        | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36044140 | Form A      | 6           | M10 x 1       | M10 x 1       | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36023993 | Form A      | 6           | M12 x 1       | M10 x 1       | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36038992 | Form A      | 6           | 1/8" male     | M10 x 1       | Including banjo bolt and ring connector with female thread                                                             | 1  |
| 36025965 | Form B      | 6           | M10 x 1       | M10 x 1       | Including banjo bolt with female thread connection at the top for 3rd connection and ring connector with female thread | 1  |
| 36042971 | Form B      | 6           | M12 x 1       | M10 x 1       | Including banjo bolt with female thread connection at the top for 3rd connection and ring connector with female thread | 1  |
| 36027293 | Form B      | 6           | M14 x 1.5     | M10 x 1       | Including banjo bolt with female thread connection at the top for 3rd connection and ring connector with female thread | 1  |

### T-shaped threaded fitting

**SKF**

Pipe Ø (mm): 6  
Series: LL  
Version: T6-LL  
Description: T-shaped threaded fitting  
Material: steel, galvanised  
Part no. 12395470



### Screw plugs

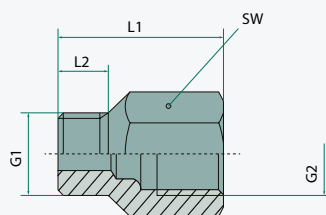
**SKF**



| Part no. | Description | L1 (mm) | L2 (mm) | AF (mm) | Thread 1 (mm) | Material          | PP |
|----------|-------------|---------|---------|---------|---------------|-------------------|----|
| 36042553 | Screw plug  | 9.5     | 5.5     | 11      | M8 x 1        | Steel, galvanised | 1  |
| 36040227 | Screw plug  | 12      | 7       | 12      | M10 x 1       | Steel, galvanised | 1  |
| 36047636 | Screw plug  | 12      | 7       | 17      | M12 x 1       | Steel, galvanised | 1  |
| 36040867 | Bleed screw | 17      | 8       | 11      | M10 x 1       | Steel, galvanised | 1  |

### Reducing connections

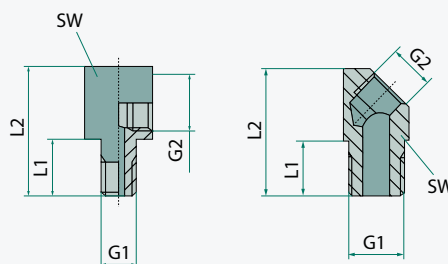
**SKF**



| Part no. | Thread 1 (mm) | Thread 2 (mm)  | L1 (mm) | L2 (mm) | SW (mm) | PP |
|----------|---------------|----------------|---------|---------|---------|----|
| 35980498 | 1/4" male     | M10 x 1        | 20      | 10      | 17      | 1  |
| 36033587 | 1/4" male     | M14 x 1.5      | 23      | 10      | 17      | 1  |
| 36038577 | 1/4" male     | M16 x 1.5      | 30      | 10      | 19      | 1  |
| 36027466 | 1/8" male     | M8 x 1         | 18      | 8       | 14      | 1  |
| 36033091 | 1/8" male     | M14 x 1.5      | 29      | 8       | 17      | 1  |
| 36036465 | M6 x 0.75t    | M8 x 1         | 20      | 6       | 11      | 1  |
| 12367165 | M6 x 1t male  | M8 x 1 female  | 20      | 6       | 10      | 1  |
| 12517098 | M6t           | M8 x 1         | 20      | 6       | 11      | 1  |
| 12531252 | M8 x 1        | M8 x 1         | 32      | 22      | 11      | 1  |
| 36045042 | M8 x 1        | M8 x 1         | 18      | 7.5     | 11      | 1  |
| 12535333 | M8 x 1t       | M8 x 1         | 17      | 7.4     | 11      | 1  |
| 11196269 | M8 x 1t male  | M8 x 1 female  | 16      | 5       | 10      | 1  |
| 12519911 | M10 x 1       | M8 x 1         | 18      | 7.5     | 14      | 1  |
| 12533840 | M10 x 1       | M10 x 1        | 18      | 7.5     | 14      | 1  |
| 36029546 | M10 x 1       | M14 x 1.5      | 28      | 7.5     | 17      | 1  |
| 36047410 | M10 x 1       | M16 x 1.5      | 30      | 7.5     | 19      | 1  |
| 12530544 | M10 x 1t      | M10 x 1        | 23      | 7.4     | 14      | 1  |
| 11205509 | M10 x 1t male | M10 x 1 female | 18      | 6.5     | 13      | 1  |
| 36036790 | M12 x 1       | M16 x 1.5      | 31      | 9       | 19      | 1  |
| 36048123 | M12 x 1       | M10 x 1        | 19      | 9       | 17      | 1  |
| 35995890 | M14 x 1.5     | M16 x 1.5      | 29      | 9       | 19      | 1  |
| 36003031 | M14 x 1.5     | M14 x 1.5      | 26      | 9       | 17      | 1  |
| 36042972 | M14 x 1.5     | M10 x 1        | 18      | 9       | 17      | 1  |

### Angled reducers

**SKF**



| Part no. | Version | Thread 1 (mm) | Thread 2 (mm) | PP |
|----------|---------|---------------|---------------|----|
| 12395469 | 45°     | M8 x 1t male  | M8 x 1 female | 1  |
| 11304847 | 45°     | M10 x 1t male | M8 x 1 female | 1  |
| 12520272 | 90°     | M8 x 1t       | M8 x 1        | 1  |
| 11190894 | 90°     | M8 x 1t male  | M8 x 1 female | 1  |
| 11307807 | 90°     | M10 x 1t male | M8 x 1 female | 1  |
| 12522669 | 90°     | M10 x 1t      | M8 x 1        | 1  |

### Threaded parts

**SKF**



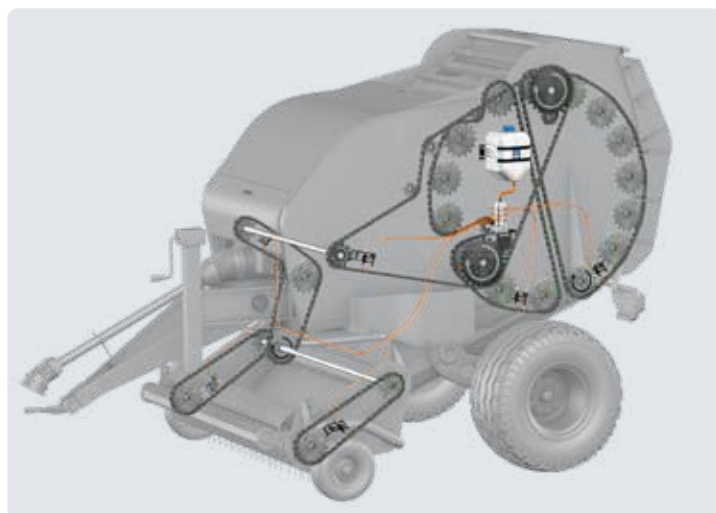
| Part no. | D3 (mm) | Thread 1 (mm) | L1 (mm) | Material | PP |
|----------|---------|---------------|---------|----------|----|
| 35978162 | 4       | M10 x 1       | 26      | Brass    | 1  |
| 36048615 |         | M10 x 1       | 18      | Steel    | 1  |
| 36025082 |         | M12 x 1       | 17      | Steel    | 1  |

# More time in the field thanks to reliable chain lubrication

The SKF Lincoln OCL-M (Oil Chain Lubrication – Mechanical) chain lubrication system offers farmers the peace of mind that comes with reliable operation

The OCL-M automatic chain lubrication system from SKF Lincoln has been specially developed for agricultural machinery such as balers and combine harvesters. The continuous and precise supply of lubricant to the running chain ensures a high level of machine availability. This helps to extend the service life of the chain and improve machine reliability.

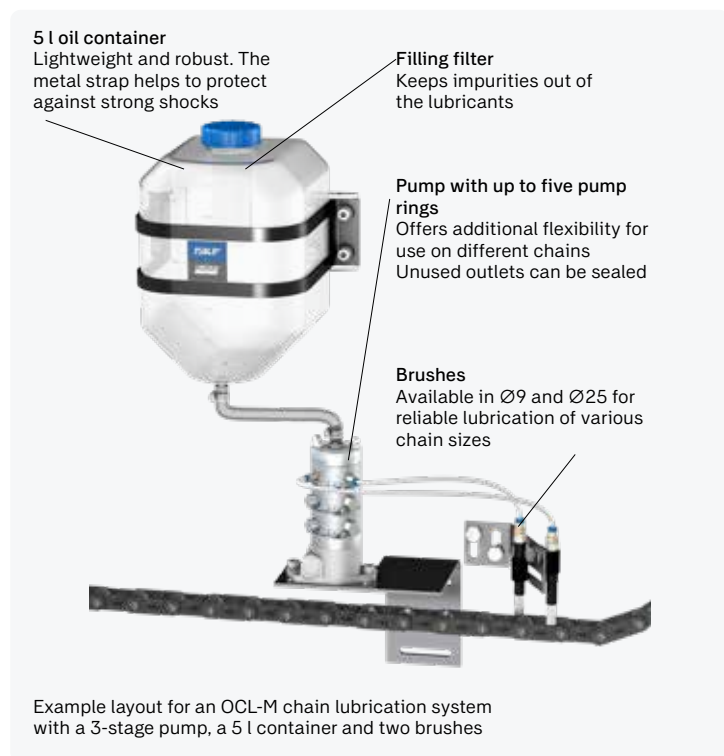
OCL-M eliminates the need for manual lubrication. This not only saves time, but also improves safety – because manually lubricating chains isn't without its own risks. In addition, the precise metering provided by the automatic lubrication system can help to reduce lubricant costs.



The OCL-M pump is driven directly by the machine's shaft and supplies the moving chain with precisely metered quantities of oil during operation. Thanks to the mechanical drive, no hydraulic or electrical connections are required, and the simple design means that maintenance is kept to a minimum. The system also has brushes that clean the chain whilst it is in operation.

## How to order:

The quickest and easiest way to order an OCL-M is to select a ready-made kit for a specific number of outlets.



OCL-MK-0001300-3 OCL-M kit for up to 12 outlets  
OCL-MK-0031200-3 OCL-M kit for up to 8 outlets

The kits contain a pump with a gear ratio of 1:6.75, with either two or three D7 pump elements, plus a container, the appropriate number of brushes and hoses, as well as all the accessories required to install the system on the machine.

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### Oil lubrication pump kits

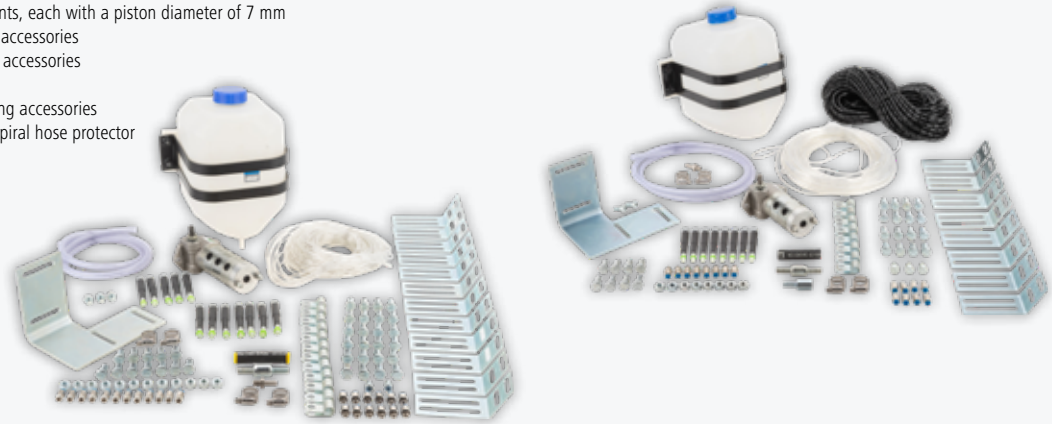
For reliable, consistent chain lubrication. The OCL-M eliminates the need for manual lubrication, which improves safety and reduces lubricant costs. A perfect solution for applications where simplicity and reliability are key, e.g. in agricultural machinery such as balers or in industrial chains such as high-speed or light-duty conveyor chains.

The OCL-M features a robust design and is built to withstand harsh conditions. If necessary, the system brushes clean the chain during operation. The system is mechanically operated and requires no hydraulic or electrical connections. Due to its simple operation, only minimal maintenance is required.

The mechanically operated system is available as a preconfigured kit or in component sets for custom configurations. Its simple selection and installation ensure high operational efficiency.

#### Contents:

- Pump with three pump elements, each with a piston diameter of 7 mm
- 5 l container with installation accessories
- Pump mount with installation accessories
- Pump connection accessories
- 12 brushes (Ø 9) with mounting accessories
- 36 m hose, including plastic spiral hose protector and mounting accessories



| Part no. | Outlets | Viscosity                     | Inlet                 | Outlet                | Equipment         | Version                                 | PP |
|----------|---------|-------------------------------|-----------------------|-----------------------|-------------------|-----------------------------------------|----|
| 46525386 | 12      | 32 to 2000 mm <sup>2</sup> /s | 1/8 female BSP thread | 1/8 female BSP thread | 3x D7 pump 1:6.75 | Mechanically driven radial piston pumps | 1  |
| 46545047 | 8       | 32 to 2000 mm <sup>2</sup> /s | 1/8 female BSP thread | 1/8 female BSP thread | 2x D7 pump 1:6.75 | Mechanically driven radial piston pumps | 1  |

### Mounting bracket set

#### Contents:

- 1 universal pump mount
- 2 hexagon socket bolts M8x16

Part no. 46534254



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### Container set

#### Contents:

- 1 assembly with 5 l container
- 1 knurled 1/8" threaded fitting
- 1.5 m PVC hose made of transparent nylon (ID 8 mm, OD 12 mm)
- 2 hose clamps 11-20 mm (SS301)

Part no. 46525730



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### Hose sets



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| Part no. | Version                  | Contents                                                                                                                                             | PP |
|----------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 46502614 | With straight connection | <ul style="list-style-type: none"> <li>• 4 plug connections R1/8 (straight)</li> <li>• 3 screw plugs 1/8 BSP</li> <li>• 12 m hose 4.0x1.0</li> </ul> | 1  |
| 46545870 | With elbows              | <ul style="list-style-type: none"> <li>• 4 plug connectors R1/8 (elbows)</li> <li>• 3 screw plugs 1/8 BSP</li> <li>• 12 m hose 4.0x1.0</li> </ul>    | 1  |

## Brush sets

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| Part no. | Contents                                                                                                                                                                                                                                  | Fig. no. | PP |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| 46561504 | <ul style="list-style-type: none"> <li>• 4 brushes, Ø 9 mm</li> <li>• 4 plug connections, M8x1</li> <li>• 4 clips, Ø 10 mm</li> <li>• 4 hexagon head bolts, ISO 4017, M10x25, 10.9</li> <li>• 4 hexagon nuts, ISO 4032, M10x8</li> </ul>  | 1        | 1  |
| 46531787 | <ul style="list-style-type: none"> <li>• 4 brushes, Ø 25 mm</li> <li>• 4 plug connections, M8x1</li> <li>• 4 clips, Ø 25 mm</li> <li>• 4 hexagon head bolts, ISO 4017, M10x25, 10.9</li> <li>• 4 hexagon nuts, ISO 4032, M10x8</li> </ul> | 2        | 1  |
| 46551006 | <ul style="list-style-type: none"> <li>• 4 brush mounting plates</li> <li>• 8 hexagon head bolts, ISO 4017, M10x25, 10.9</li> </ul>                                                                                                       | 3        | 1  |

## Pump connection set

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### Contents:

- 1 hydraulic hose SAE100R1-4 75 mm
- 2 hose clamps 11-20 mm

Part no. 46533468



## Y-connector set

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### Contents:

- 4 plug connections C901 HSN 4-M8x1

Part no. 46546824



## Lines

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| Part no. | Description          | Version    | Roll length (m) | PP |
|----------|----------------------|------------|-----------------|----|
| 46531089 | Flexible spiral hose | 3/8"       | 12              | 1  |
| 46550814 | Plastic spiral       | 6 mm black | 25              | 1  |
| 46561505 | Flexible metal line  | 3/8"       | 12              | 1  |



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