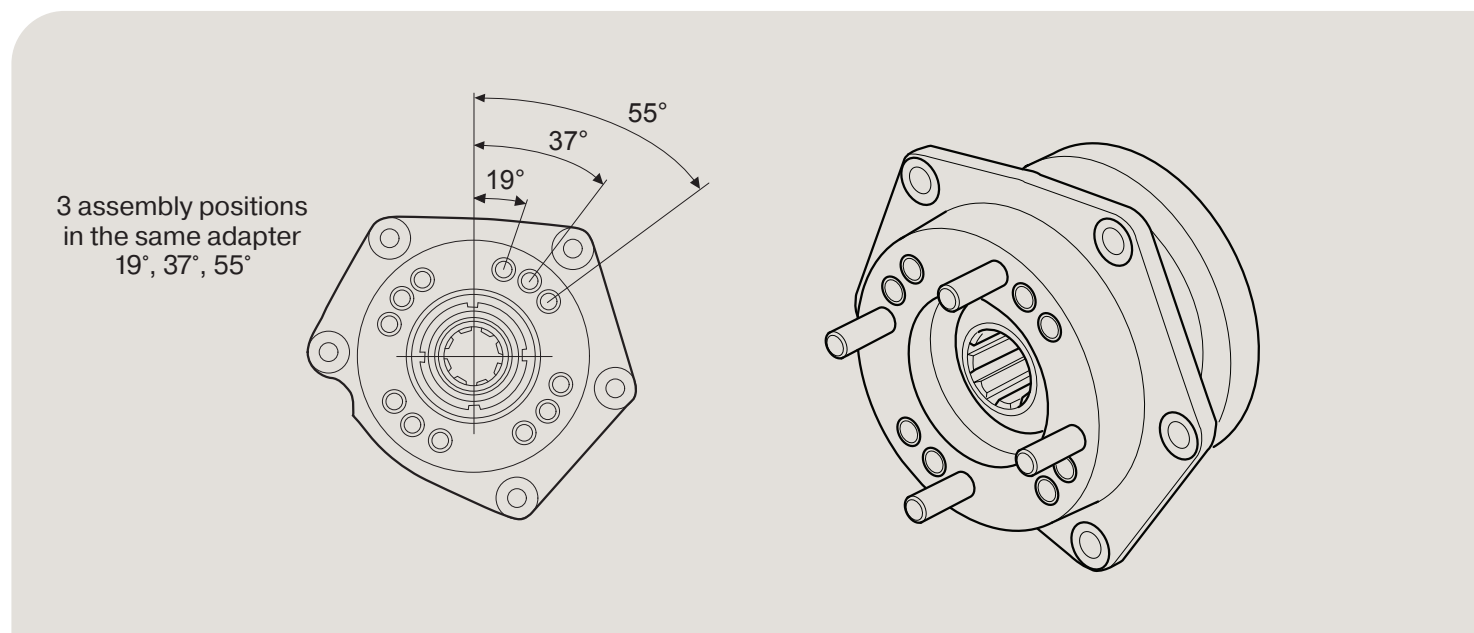


PTO adapter kit for Scania ED 120 and 160 engine - PTO

- With the adapter kit, a hydraulic pump (e.g. F1 or VP1) that meets the ISO standard can be installed on the PTO of the Scania engine.
- The PTO gear is supplied with the chassis.
- **Please note:** The engine must be ordered with a PTO.



ED 120

Technical Information	
Max. torque [Nm]	600
Gear ratio (engine : pump)	1 : 1.19
Pump rotation	Right hand (clockwise)

PTO adapter kit	Ordering number
ED120, bearing supported 19°, 37°, 55°	378 9592

ED 160

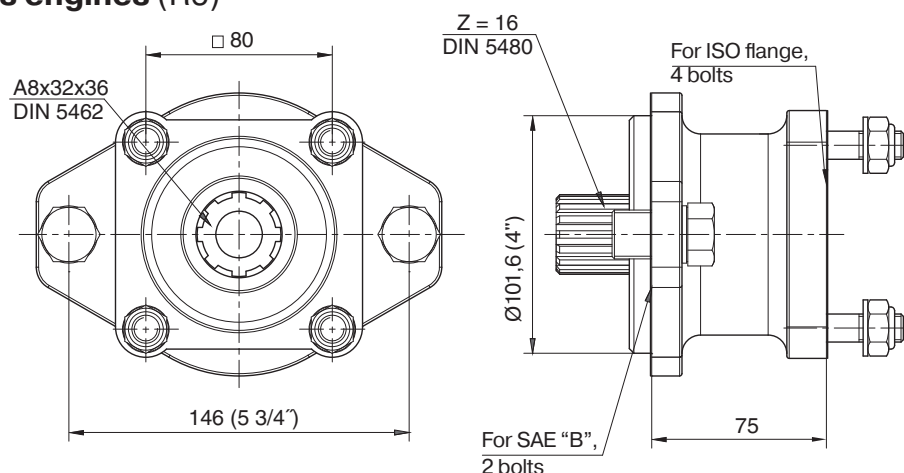
Technical Information	
Max. torque [Nm]	600
Gear ratio (engine : pump)	1 : 1.19
Pump rotation	Left hand (counter clockwise)

PTO adapter kit	Ordering number
ED-160, bearing supported 19°, 37°, 55°	378 9970

PTO adapter kit for Mercedes engines (R6)

With the adapter kit, a hydraulic pump that meets the ISO standard can be installed on the PTO of the Mercedes R6 engines.

Torque continuous	300 Nm
Torque intermittent	330 Nm
Gear ratio (engine to pump)	1 : 1.071
Pump rotation	Right hand
Ordering No.	0050706404

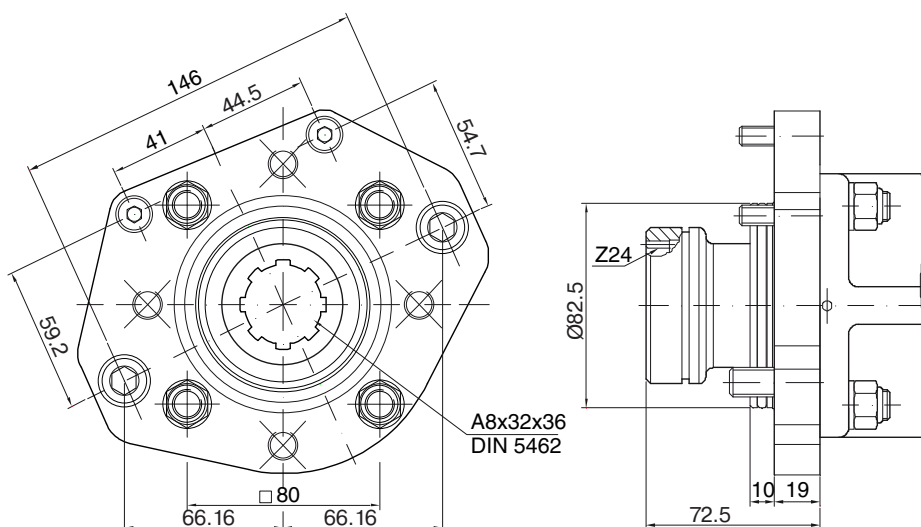


PTO adapter kit for Mercedes engines (V6, V8)

With the adapter kit, a hydraulic pump that meets the ISO standard can be installed on the PTO of the Mercedes V6 and V8 engines.

This adapter (7012104), can be fitted on the original DC SAE-A adapter, delivered together with the new ACTROS from DC factory.

Torque continuous	390 Nm
Torque intermittent	470 Nm
Gear ratio (engine to pump)	1 : 1.15
Pump rotation	Right hand
Ordering No.	00507012104

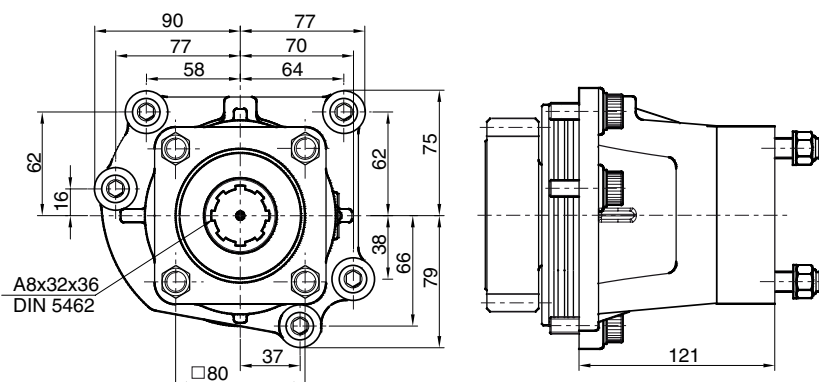


PTO adapter kit for MAN (D20, D26)

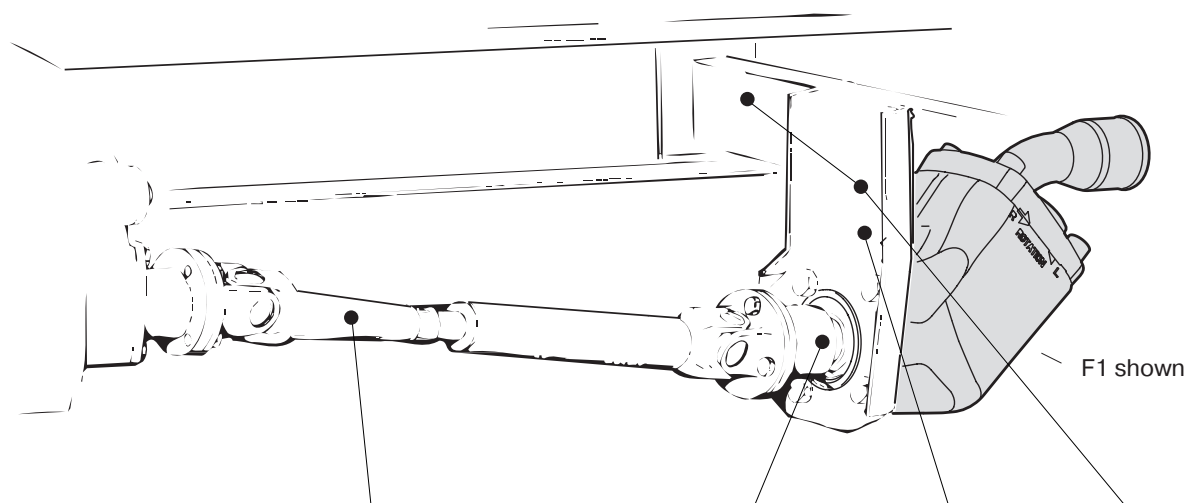
With the adapter kit, a hydraulic pump that meets the ISO standard can be installed on the PTO of the MAN D20 engines.

PTO adapter	D20, D26
Torque continuous	400 Nm
Torque intermittent	570 Nm
Gear ratio (engine to pump)	1 : 1.233
Pump rotation	Right hand

PTO adapter	Ordering No.
D20, D26	0050081903



Cardan shafts, pump couplings and mounting brackets



Pump or split-ter box type	Cardan shaft kit		Pump coupling		Bracket	Bracket kit
	Type	Ordering no.	Type	Ordering no.	ordering no.	ordering no.
F1 (New)	SAE 88 ¹⁾	73 001	SAE 88 ¹⁾	378 0644	379 7831	379 7832
F1 (New)	SAE 97	370 0315	SAE 97	378 0645	379 7831	379 7832
F1	SAE 97	370 0315	SAE 97	370 4631	379 7831	379 7832
F2	SAE 97	370 0315	SAE 97	370 4631	379 7831	379 7832
T1-51	SAE 97	370 0315	SAE 97	370 4631	379 7831	379 7832
VP1	SAE 97	370 0315	SAE 97	370 4631	379 7831	379 7832
SB154, SB118	SAE 97	370 0315	SAE 97/ DIN 90	Included with splitter box		370 5220

1) The SAE 88 cardan shaft and pump coupling can also be used to drive a series F2, T1-51 or VP1 pump providing max allowed shaft torque (below) is not exceeded.

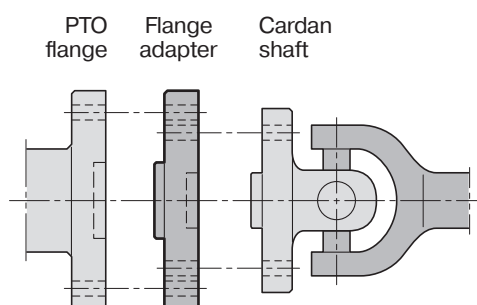
Cardan shaft specifications

Cardan shaft type	Spicer designation	Max length [mm]	Diameter [mm]	Max torque peak/contin. [Nm]	Ordering number
SAE 88	K1140	1500	45	600/300	73 001
SAE 97	K1310	1500	50	1000/500	370 0315

PTO flange adapters

Cardan shaft type	PTO flange type	Flange adapter ordering no.
DIN 100	DIN 90	370 5899³⁾

3) **WARNING!** The utilised cardan shaft torque limits (above) must not be exceeded.



Pump couplings

Designation	DIN 90 (fig. 1)
A	90
B	74.5
C	47 h7
D	M8
E ₁	61.5
E ₂ (F1)	57.2
VP1, F2, F1*	370 4634
F1	378 0642

NOTE: Max torque is limited by the cardan shaft.

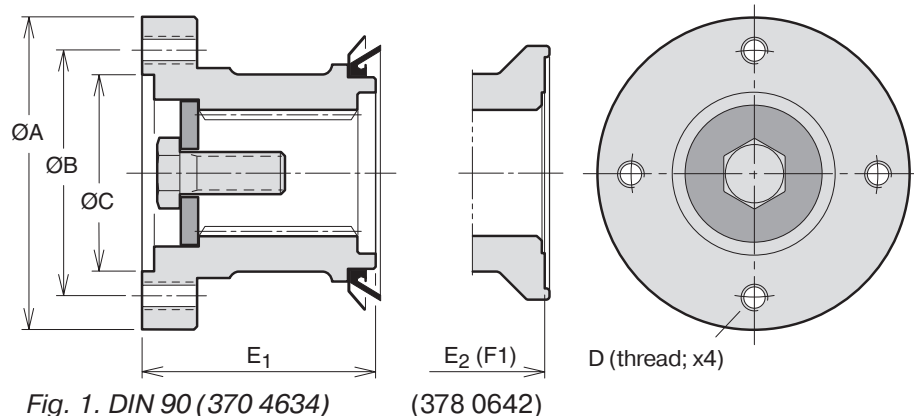


Fig. 1. DIN 90 (370 4634)

(378 0642)

Designation	DIN 90 (fig. 2)
A	90
B	74.5
C	47 h7
D	8.2
E ₁	61.5
VP1, F2, F1*	370 7423

NOTE: Max torque is limited by the cardan shaft.

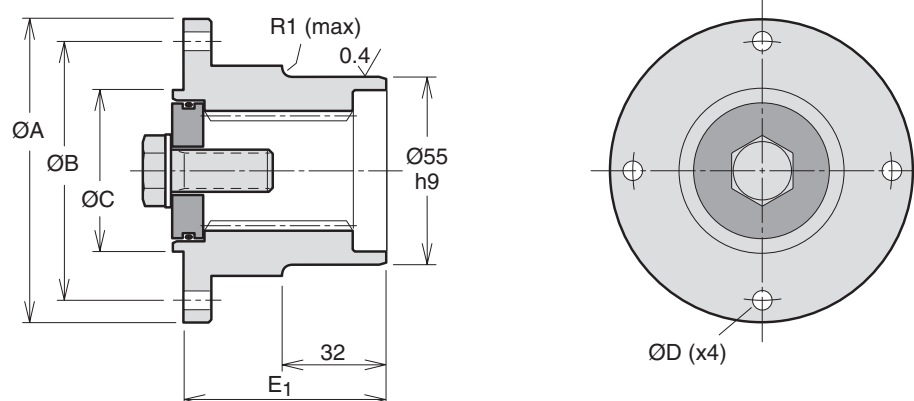


Fig. 2. DIN 90 (370 7423)

Designation	SAE88 (fig. 3)
A	88
B	69.9
C	57.15 H8
D	5/16" UNC
E ₁	59.5
Max torque [Nm] interm./contin.	600/300
F1	378 0644

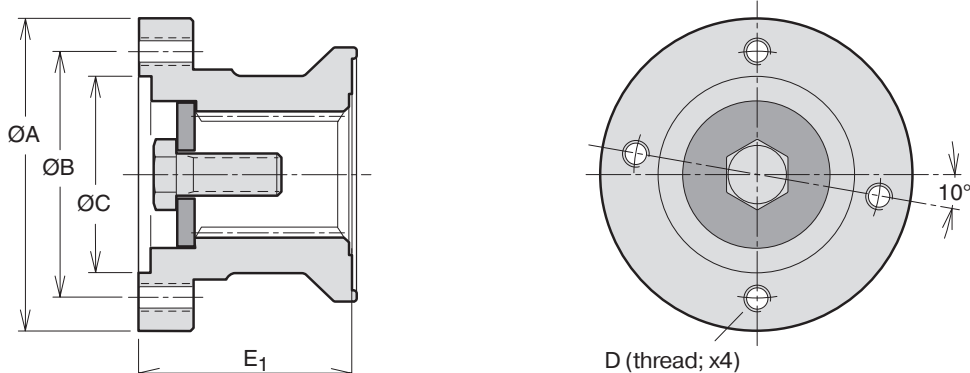


Fig. 3. SAE 88 (378 0644)

Designation	SAE97 (fig. 4)
A	97
B	79.4
C	60.33 H8
D	3/8" UNC
E ₁	65
E ₂ (F1)	59.5
Max torque [Nm] interm./contin.	1000/500
VP1, F2, F1*	370 4631
F1	378 0645

F1* Old versions

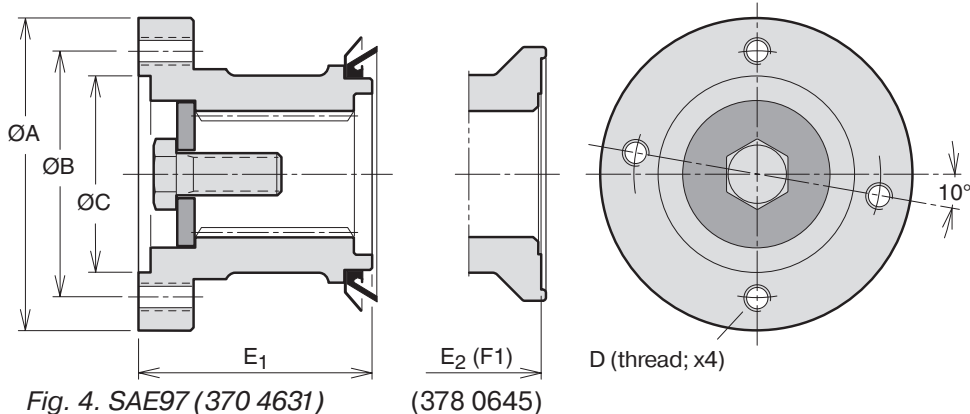


Fig. 4. SAE97 (370 4631)

(378 0645)

Installation and start up

Installing couplings, sleeves, and gears on the pump shaft.

This is a short installation and start up information. To have the complete and latest installation information, always see the installation info supplied together with the pump.

PTO installation

- 'Left hand' and 'Right hand' rotation defined in the illustrations on page 77.
- The driving gear of the PTO and the driven gear of the pump are shown in the illustration below. (A right hand rotating pump is shown).

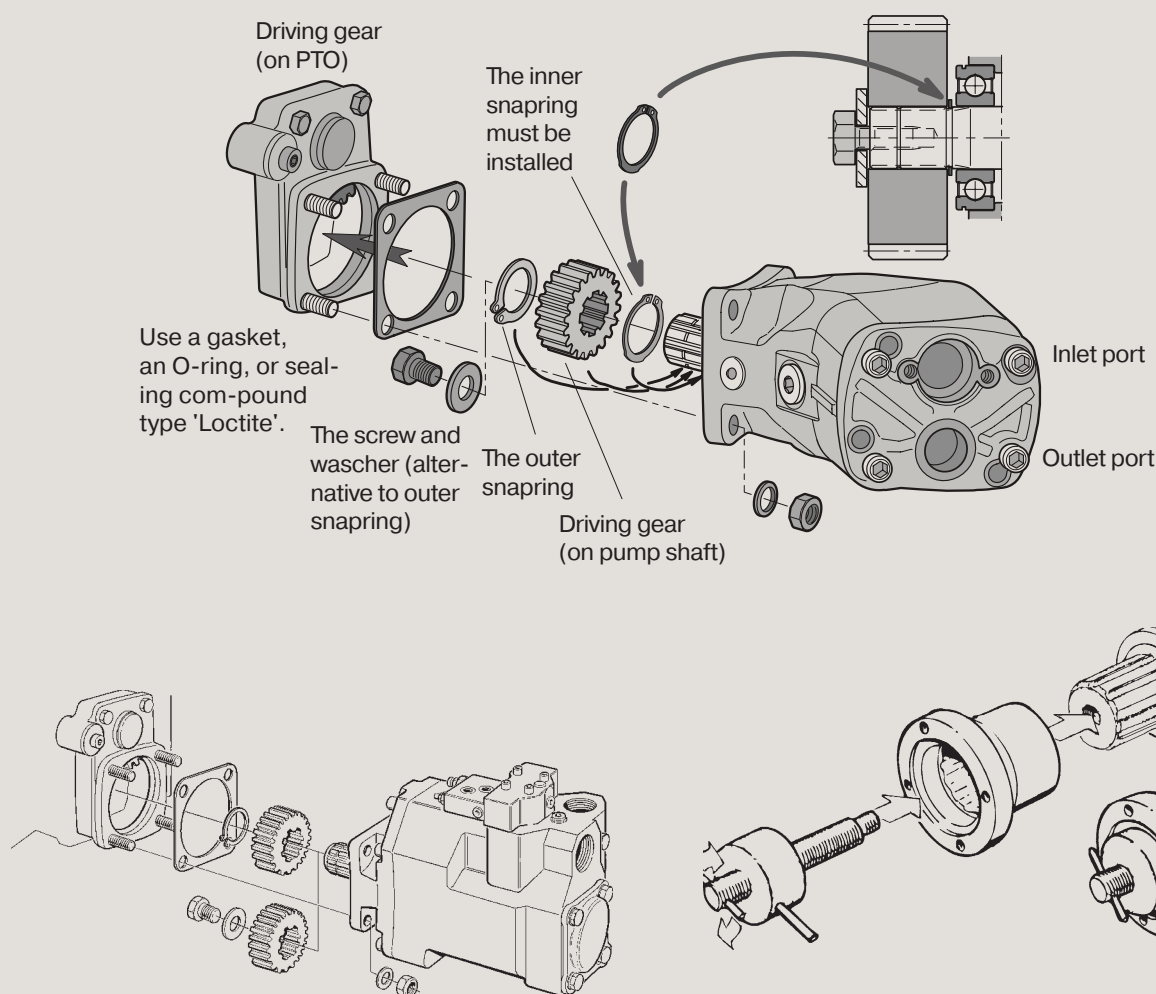


Fig. 6. VP1-to-PTO installation.

Fig. 7 Mounting tool.

IMPORTANT

Use some kind of special tool when you install couplings, sleeves, and gears on the pump shaft. Force must never be used when installing these parts on the F1 shaft.