

POWER TAKE OFF RECOMMENDATIONS BEFORE START-UP



Manufacturer's Declaration

ABER ensures compliance of its products with the essential health and safety requirements of the Directive 2006/42/EC and harmonized standard EN ISO 12100:2010.

General information

The Power Take Offs (PTO's) are mechanical devices that transmit mechanical power. They are usually applied to gearboxes from where the power is taken to be transmitted to the hydraulic pumps, intermediate shafts, etc. Normally applied in dumpers, cranes, cleaning systems, moving floors, compressors, power generators, etc. This device stands out due to its low noise and its high efficiency.

How to use

The following procedure is not valid for automatic gearboxes. The procedure to operate the PTO should always be made with the vehicle parked, parking brake actuated, engine running and gear box in neutral.

- 1.press the clutch for 5/10 seconds;
- 2.turn on PTO control (pneumatic, vacuum, electric or
- 3.release the clutch slowly.
- To disconnect the PTO:
- 1.press the clutch for 5/10 seconds;
- 2.turn off PTO control;
- 3.release the clutch.

ATTENTION

PTO must be turned off, before the vehicle starts moving again. Do not exceed the limits of power and torque

indicated in the technical sheet. The incorrect engagement and disengagement may cause premature equipment damage.

Maintenance

Daily	Monthly	Annually
-Check the tightness of the pneumatic system and the light switches.	-Check the tightness of the pneumatic system and the light switchesCheck the oil level and refill if necessary. We advise consulting the gearbox manufacturer recommendationsCheck the tightness of the fixation studs and if necessary tighten more. Consult torque table to tight studs correctlyVisual inspection of all the components and if necessary proceed with the repair.	-Check the tightness of the pneumatic system and the light switches -Check the oil level and refill if necessary. We advise seeing the gearbox manufacturer recommendationsCheck the tightness of the fixation studs and if necessary tighten more. Consult torque table to tight studs correctlyVisual inspection of all the components and if necessary proceed with the repairClean the gearbox and if necessary proceed with the repair.

General information to mount a PTO

- -The general instructions contained in this document do not replace specific information of any component involved in the assembly.
- -To install the PTO, the vehicle must be parked on a flat surface with the engine off and parking brake applied.
- -Use only the components supplied with the PTO.
- -Before final tightening, we recommend that you tighten the lock-nuts to the minimum torque and operate the PTO for 10/15 seconds. This allows the gears in the gearbox to selfalign and also to check for any excessive noise.
- -Before re-filling the gear-box with oil it is advisable to check the noise level of the PTO. If the PTO produces a hissing noise, this means that there is insufficient backlash in which case another gasket must be added. If the Power Take-off rattles, this indicates that there is too much backlash and the number of gaskets must be reduced. Once the gearbox has been refilled with oil, make sure there are no leaks. Make sure that the power required from the unit is effectively obtainable from the gearbox. If the Power Take Off becomes noisy after the additional assembly of a universal joint, make sure that the joint is not damaged nor are the edges of the gearbox and PTO.

Torque Table				
Size (mm - inch)	M8 5/16´´	M10 3/8′′	M12 1/2′′	
Screws and nuts Torque (Nm)	25	50	80	
Studs Torque (Nm)	10	20	30	

Installation of a side mount PTO

1 - Drain the oil from the gearbox, remove hatch cover and the respective gasket and verify if the PTO and gearbox gears are compatible:



2 - Clean the lip of the hatch with a wire brush or spatula, being careful not to let any foreign bodies into the gearbox;



3 - If the PTO uses studs, fit them on the gearbox. Consult torque table to tighten studs correctly. In the case of through-threading, make sure that the studs do not interfere with the gears inside the gearbox. Apply a sealing glue to the thread of the studs;



4 - Fit one or more gaskets as needed, between the inspection hatch and the PTO body. Ensure that between the teeth of the gears in the gearbox and those in the PTO there is a backlash of 0,15-0,3 mm.

ATTENTION

Do not use more than three gaskets.



5 - Fit the PTO to the gearbox. On the PTO body there is a plug that, if unscrewed, is large enough to allow manual checking of backlash between the PTO and the gears of the gearbox. The upper wheel of the PTO should move manually and not be too loose, that is, not hitting anything.



This procedure should be checked with the engine off and the truck blocked with the parking brake.

ABER is constantly engaged in improving its products and, therefore, reserves itself the right to modify without any further notice the characteristics shown

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6 - Fit the PTO tightly onto the gearbox. Consult torque table to tighten studs correctly. This operation is more secure when using a dynamometric spanner. Check the oil quality and level recommended by the manufacturer of the vehicle and of the gearbox.

7 - Place fittings and accessories for control.

Installation of a rear mount PTO

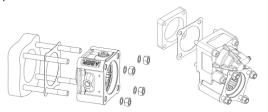
1-Drain the oil from the gearbox (in some gearboxes this step is not needed because the oil level does not reach the rear door), find the rear open and remove its cover and the respective gasket.

2-Clean the surface of the hatch with a wire brush or spatula, being careful not to let any foreign bodies in the gearbox;

3-If the PTO uses studs, fit them on the gearbox. Consult torque table to tighten studs correctly. In the case of throughthreading, make sure that the studs do not interfere with the gears inside the gearbox. Apply a sealing glue to the thread of the studs:

4-Fit one gasket between the inspection hatch and the PTO's

5- Install the PTO on the gearbox (install the pump in the PTO when studs are used to fix both components) and tighten the screws using the tightening torque indicated in the torque table.



6-Check the oil and the level given by the manufacturer of the vehicle and refill the oil of the gearbox taking into account the presence of the PTO.

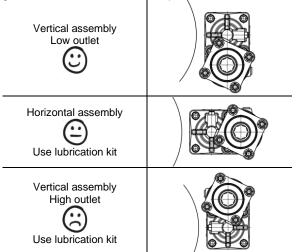
7-Place the fitting and the air pipe.

ATTENTION

For multi axis PTO it is recommend that you assemble the PTO according to the

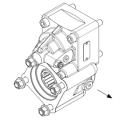
positions indicated in the following diagram, which ensure a

good lubrication of the internal components.

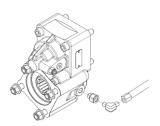


Lubrication kit

To assemble the lubrication kit, it is necessary to remove the plug located on the side of the PTO



After removing the plug, you can assemble the (male female) adapter to the PTO and then the (male male) 90° adapter and the hose supplied by ABER. After this assembly to the PTO, it is necessary to connect the hose to the gearbox.



Faults, causes and remedies

Faults	Causes	Remedies
raulis		
	1.Vehicles clutch is	1.Fully press the
	not working properly	clutch or wait more
		time for the gearbox
	2. Assembly	gearing to stop
Noise	clearance	2. Check/adjust the
		looseness between
	Broken teeth	the teeth and the
		thickness of the
	Damaged roller-	gaskets
	bearings	3-4.Repair or replace
		1.Refill the oil level
	1-2.Lack of	2.Use a PTO with a
	lubrication	lubrication hose
		connected directly to
Over-heating	Too tight between	the gearbox
-	the wheel of the	3.Adjust the gap
	PTO and the wheel	between teeth with the
	of the gearbox	thickness of the
	_	gaskets
		1.Tighten according to
	1.Loose fixation	recommendations
Leaks	nuts and studs	2.Replace gasket for
	2.Damaged gasket	another with the same
	3 3	thickness
	1.Obstructed air	1.Clean or replace
	hose	hose
PTO doesn't		2.Check for leak
engage	2.Low air pressure	source and fix it
3.3.	,	3.Repair or replace
	Control failure	control
PTO doesn't	1. Internal PTO	1.Repair or replace
disengage	problem	control
No transmission		1.Repair or replace
of movement	1.PTO blockage	control
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- A PTO should be mounted by qualified personnel. The correct mounting of the PTO is influenced by the ability of the operator; Always read carefully all owner's manuals, or other instructions before installation of PTO and driven equipment;
- In case of difficulties please ask our service department for advice;
- To install a PTO or perform maintenance, the vehicle must be parked on a flat surface with the engine off and parking brake
 - applied:
- Use appropriated tools and safety equipment:
- Ensure that the system cannot boot involuntarily;
- Ensure that the levels and quality of the oil are as recommended, that there are no leaks and that everything is properly tightened before
- When the PTO is working, never touch or pull hoses or intermediate shaft when applied. When intermediate shaft is applied take into account that parts can be ejected;
- The spline shaft (male or female) protruding from the PTO rotates with no protection when the pump has not been assembled. Avoid any contact between the shaft and any object and, more importantly, protect the working area to prevent contact with body parts or clothing; Install the pump or the cardan shaft only when the engine is off and the PTO has been disconnected;
- For the assembly of the cardan shaft, it is necessary to use all the precautions set out by the current regulation on safety in the workplace;
- The gearbox or the PTO may attain high very temperatures after prolonged use. It is therefore necessary to take all the necessary measure to prevent burns or wait for the mechanical parts to cool down to temperatures appropriate for skin contact;
- The application of the ABER's PTO must follow all the instructions hereby mentioned in order to assure the safety of all personal working with the equipment, including its surroundings, assure a long life to the product and preserve the warranty of the brand. All applications that do not follow the hereby instruction are solely the users responsibility. If there should happen any malfunctioning, it is strictly forbidden the disassembly of the product except if it is being made by a qualified technician of the brand or if there is a special authorization to do that. If this specification is not followed, warranty can be lost.

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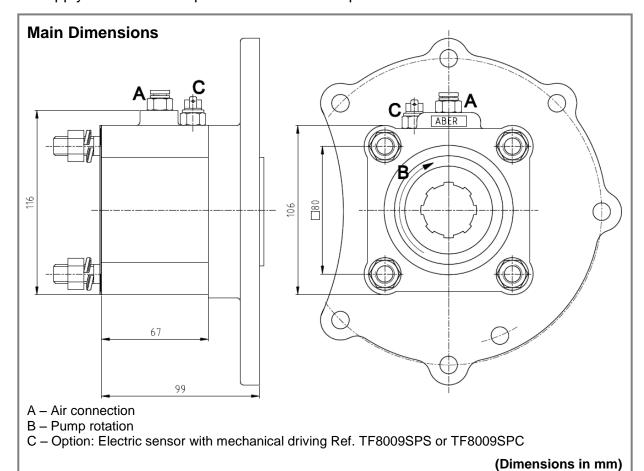
Relation 1:1

MERCEDES

G-60 ; G-85

Ref. TF8009SP

To apply with Gear Pumps or with Piston Pumps



Main Data			
Continuous	Torque (Nm)	500	
Intermittent ¹	Torque (Nm)	700	
Power (at 10	00 rpm)	70 cv / 52 kW	
Mounting Po	sition	Rear	
Pump Rotati	on	Left Hand	
Weight (kg)		7	
PTO internal	ratio	1:1	
Indicative ra	tio from motor to PTO's output		
G60 - 6/ 9.2	1 : 0.549		
G85 - 6/ 6.7	1 : 0.621		





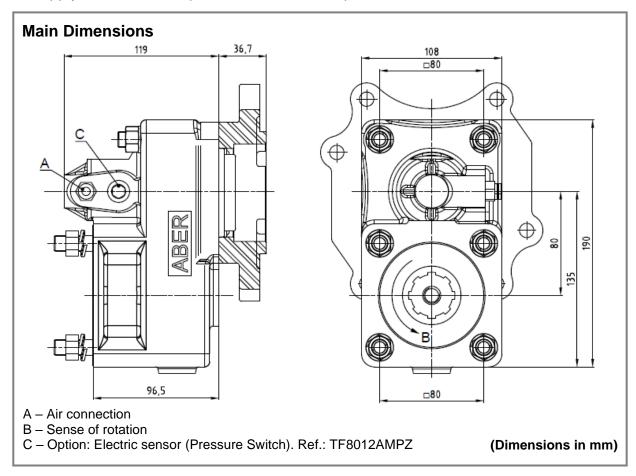
Relation 1:1,32

MERCEDES

G56 - 6 / 6.29 - 0.78

Ref. TF8012AMP

To apply with Gear Pumps or with Piston Pumps



Main Data			
Continuous Torque (Nm)	300		
Intermittent Torque (Nm)	420		
Power (at 1000 rpm)	42 cv / 32 kW		
Mounting Position	Rear		
Pump Rotation	Right Hand		
Weight (kg)	11		
PTO internal ratio	1:1,32		
Indicative ratio from motor to PTO's output			
G56 - 6 / 6.29 - 0.78 1:0.740	_		



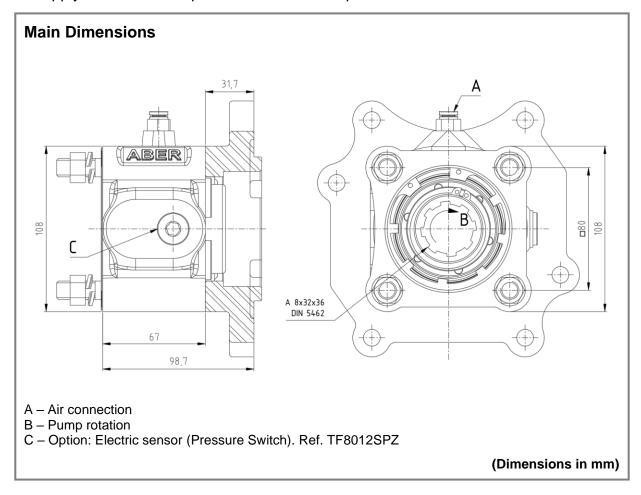
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Ref. TF8012SP

MERCEDES

G 56-6 / 6.29 - 0.78

To apply with Gear Pumps or with Piston Pumps



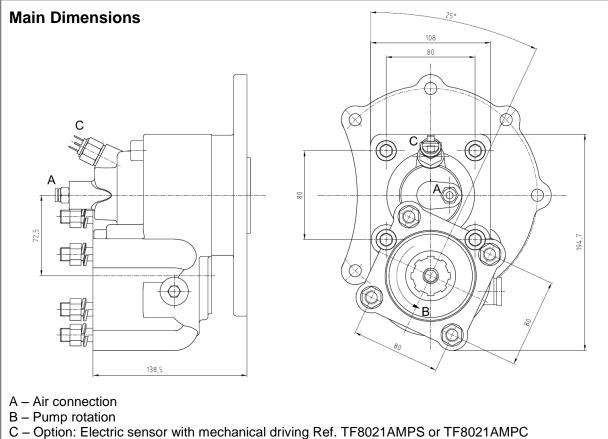
Main Data		
Continuous Torque (Nm)	500	
Intermittent Torque (Nm)	700	
Power (at 1000 rpm)	70 cv / 52 kW	
Mounting Position	Rear	
Pump Rotation	Left Hand	
Weight (kg)	6	
PTO internal ratio	1:1	
Indicative ratio from motor to PTO's output		
G 56-6 / 6.29 - 0.78 1 : 0.560		



Relation 1:1,73

MERCEDES G-60; G-85 REINFORCED

To apply with Gear Pumps or with Piston Pumps



(Dimensions in mm)

Ref. TF8021AMP

Main Data				
Continuous 7	Forque (Nm)	350		
Intermittent 7	Torque (Nm)	450		
Power (at 100	00 rpm)	48 cv / 36 kW		
Mounting Po	sition	Rear		
Pump Rotation		Right Hand		
Weight (kg)		14.2		
PTO internal ratio		1:1,73		
Indicative ratio from motor to PTO's output				
G60 - 6/ 9.2	1 : 0.950			
G85 - 6/ 6.7	1 : 1.074			

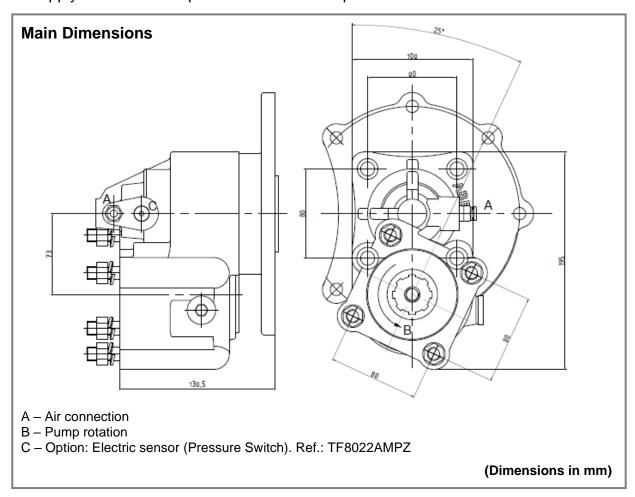




Relation 1:1,35

MERCEDES G-60 ; G-85 REINFORCED

To apply with Gear Pumps or with Piston Pumps



Main Data				
Continuous T	orque (Nm)	450		
Intermittent T	orque (Nm)	500		
Power (at 100	0 rpm)	62 cv / 46 kW		
Mounting Pos	sition	Rear		
Pump Rotatio	n	Right Hand		
Weight (kg)		14.2		
PTO internal i	ratio	1:1,35		
Indicative ratio from motor to PTO's output				
G60 - 6/ 9.2	1:0,741			
G85 - 6/ 6.7	1:0,838			

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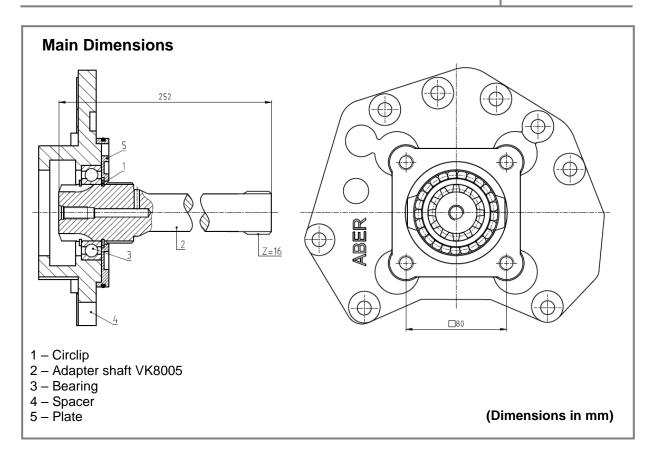
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Ref. TF8022AMP



ADAPTER KIT TO POWER TAKE OFFS MERCEDES

G210; G211; G221; G240; G260; G131; G230; G231; G241; G280; G281; G330 (G125; G155; G180; G200 Current flange produced after 1990)



	Main Data		
Maximum Torque (Nm) Power (at 1000 rpm)			700 100 cv / 73 kW
Weight (approx.) (Kg)			7.7
Engine - Kit adapter ratio			
G131-9, G141-9	/14.57-1.0	1:0,738	
G210-16, G230-16	/14.2-0.83	Normal: 1: 0.850	High: 1 : 1.030
G211-16, G231-16, G241-16	/17.0	Normal: 1: 0.710	High: 1: 0.850
G221-9	/16.15-1.0	1:0.740	
G240-16, G280-16	/11.7	Normal: 1 : 1.030	High: 1: 1.240
G330-12	/11.63-0.77	Normal: 1 : 1.030	High: 1: 1.240
G260-16	/9.75	Normal: 1 : 1.240	High: 1 : 1.500
G125-16, G155-16	/14.0	Normal: 1: 0.810	High: 1: 0.960
G135-16, G155-16, G180-16, G200-16	/11.9	Normal: 1: 0.960	High: 1:1.130
G211-12, G281-12	/14.93	Normal: 1: 0.810	High: 1: 1.030
G230-12	/11.67-0.78	Normal: 1 : 1.030	High: 1: 1.320

Note:

For getting the correct ratio is necessary to multiply the above mentioned ratio by the internal ratio in all S6-90 releases. **Example:**

Gearbox G260-16 Adapter Kit + ZF S6-90 (Ref. TF4002AMP) Internal Ratio 1:1.32

Final ratio: High $.-1:1.98 (1.5 \times 1.32 = 1.98)$

Normal .- 1 : 1.636 (1.24 x 1.32 = 1.636)

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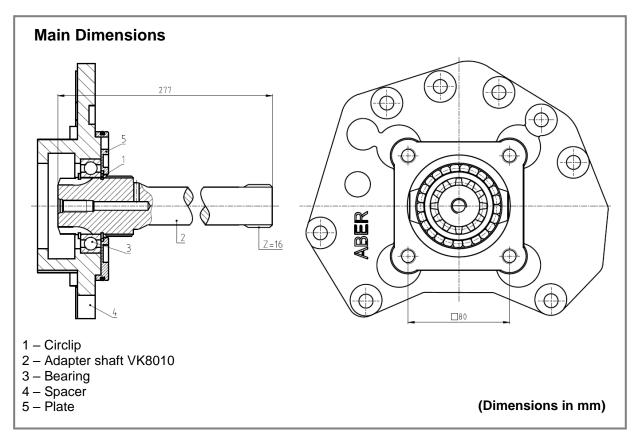
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ADAPTER KIT TO POWER TAKE OFFS **MERCEDES**

G210+VOITH; G211+VOITH; G240+VOITH; G260+VOITH; G230+VOITH; G231+VOITH; G241+VOITH; G280+VOITH; G280+VOITH; G200+VOITH

Ref. VK8010



	Main Data		
Maximum Torque (Nm)			700
Power (at 1000 rpm)			100 cv / 73 kW
Weight (approx.) (Kg)			7.8
Engine - Kit adapter ratio			
G210-16+VOITH, G230-16+VOITH	/14.2-0.83	Normal: 1 : 0.850	High: 1 : 1.030
G211-16+VOITH, G231-16+ VOITH, G241-16+VOITH	/17.0	Normal: 1 : 0.710	High: 1: 0.850
G240-16+VOITH, G280-16+VOITH	/11.7	Normal: 1 : 1.030	High: 1:1.240
G330-12+VOITH	/11.63-0.77	Normal: 1 : 1.030	High: 1:1.240
G260-16+VOITH	/9.75	Normal: 1 : 1.240	High: 1 : 1.500
G200-16+VOITH	/11.9	Normal: 1 : 0.960	High: 1:1.130
G211-12+VOITH, G281-12+VOITH	/14.93	Normal: 1 : 0.810	High: 1: 1.030

Note:

For getting the correct ratio is necessary to multiply the above mentioned ratio by the internal ratio in all S6-90 releases. Example:

Gearbox G260-16+VOITH Adapter Kit + ZF S6-90 (Ref. TF4002AMP) Internal Ratio 1:1.32

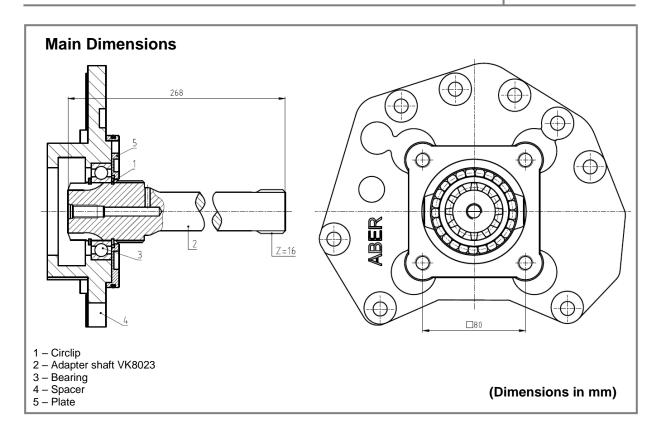
Final ratio: High .- 1 : 1.98 (1.5 x 1.32 = 1.98) Normal .- 1 : 1.636 (1.24 x 1.32 = 1.636)

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ADAPTER KIT TO POWER TAKE OFFS MERCEDES

G230-16; G231/16; G260-16; G280-16; G281/12; G330-12



Main Data				
Maximum Torque (Nm)		700		
Power (at 1000 rpm)		100 cv / 73 kW		
Weight (approx.) (Kg)		7.8		
Engine - Kit adapter ratio				
G230-16 (IdNr 715508)	/14.19-0.83	Normal: 1 : 0.850 High: 1 : 1.030		
G231-16 (IdNr 715518)	/17.0-1.0	Normal: 1 : 0.710 High: 1 : 0.850		
G260-16 (IdNr 715528), G280-16 (IdNr 715523)	/11.72-0.69	Normal: 1 : 1.030 High: 1 : 1.240		
G281-12 (IdNr 715371)	/14.93-1.0	Normal: 1 : 0.810 High: 1 : 1.030		
G330-12 (ldNr 715381)	/11.63-0,78	Normal: 1 : 1.030 High: 1 : 1.320		

KIT VK8023:

- 1 Gasket
- 1 Oring
- 8 Screws

Note

For getting the correct ratio is necessary to multiply the above mentioned ratio by the internal ratio in all S6-90 releases. **Example:**

Gearbox G230-16 (IdNr 715508) Adapter Kit + ZF S6-90 (Ref. TF4002AMP) Internal Ratio 1:1.32

Final Ratio: High Normal - 1 : 1.360 (1.030 x 1.32 = 1.360) - 1 : 1.122 (0.850 x 1.32 = 1.122)

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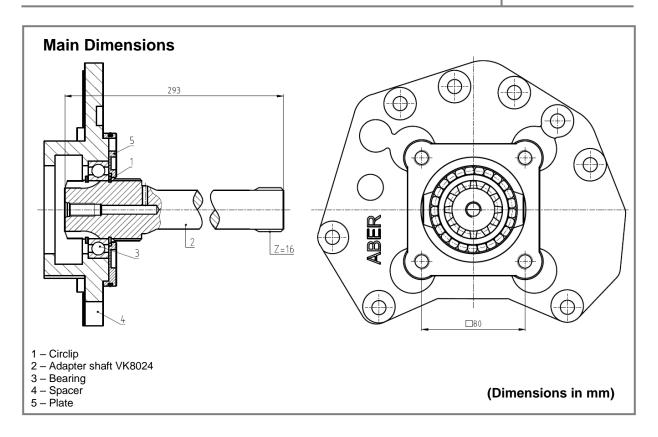
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ADAPTER KIT TO POWER TAKE OFFS MERCEDES

G230-16; G231/16; G260-16; G280-16; G281/12; G330-12 + AQUATARDER



Main Data				
Maximum Torque (Nm)	700			
Power (at 1000 rpm)		100 cv / 73 kW		
Weight (approx.) (Kg) Engine - Kit adapter ratio		8		
G230-16 + Aquatarder (IdNr 715508)	/14.19-0.83	Normal: 1 : 0.850 High: 1 : 1.030		
G231-16 + Aquatarder (IdNr 715518)	/17.0-1.0	Normal: 1 : 0.710 High: 1 : 0.850		
G260-16 + Aquatarder (IdNr 715528), G280-16 (IdNr 715523)	/11.72-0.69	Normal: 1 : 1.030 High: 1 : 1.240		
G281-12 + Aquatarder (IdNr 715371)	/14.93-1.0	Normal: 1 : 0.810 High: 1 : 1.030		
G330-12 + Aquatarder (IdNr 715381)	/11.63-0,78	Normal: 1 : 1.030 High: 1 : 1.320		

KIT VK8024:

- 1 Gasket
- 1 Oring
- 8 Screws

Note

For getting the correct ratio is necessary to multiply the above mentioned ratio by the internal ratio in all S6-90 releases. **Example:**

Gearbox G230-16 + Aquatarder (IdNr 715508) Adapter Kit + ZF S6-90 (Ref. TF4002AMP) Internal Ratio 1:1.32

Final Ratio: High - 1 : 1.360 (1.030 x 1.32 = 1.360) Normal - 1 : 1.122 (0.850 x 1.32 = 1.122)

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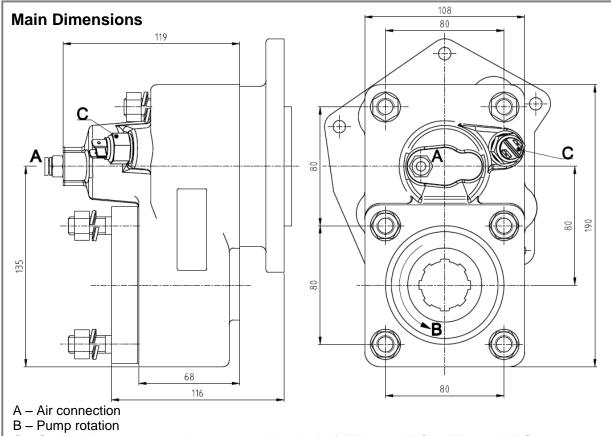
Relation 1:1,32

MERCEDES

Ref. TF8001AMP

G3/36; G3/40; G3/45; G3/50; G3/55; G3/60; G3/61

To apply with Gear Pumps or with Piston Pumps



C – Option: Electric sensor with mechanical driving Ref. TF8001AMPS or TF8001AMPC

(Dimensions in mm)

Main Data					
Continuous Torque (Nm)				300	
Intermittent Torque (Nm)				420	
Power (at 1000 rpm)				42 cv / 32 kW	
Mounting Position			Rear		
Pump Rotation			Right Hand		
Weight (kg)			10		
PTO internal rat	io			1:1,32	
Indicative ratio	Indicative ratio from motor to PTO's output				
G3/40 - 5/ 7.508	1 : 0.622	G3/60 - 5/ 6.106	1 : 0.768		
G3/45 - 6/ 8.5	1 : 0.606	G3/60 - 5/ 7.5	1 : 0.622		
G3/50 - 5/ 8.5	1 : 0.555	G3/61 - 5/ 6.1	1 : 0.763		
G3/55 - 6/ 8.5	1 : 0.606	G3/36 - 5/ 8.98	1 : 0.521		
G3/60 - 5/ 5.4	1 : 0.861				





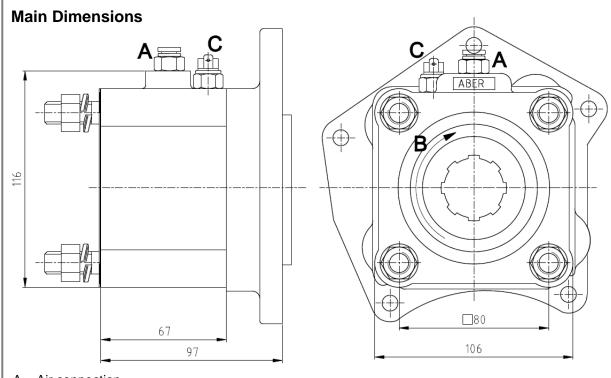
Relation 1:1

MERCEDES

G3/36; G3/40; G3/45; G3/50; G3/55; G3/60; G3/61

Ref. TF8001SP

To apply with Gear Pumps or with Piston Pumps



- A Air connection
- B Pump rotation
- C Option: Electric sensor with mechanical driving Ref. TF8001SPS or TF8001SPC

(Dimensions in mm)

Main Data				
Continuous Torque (Nm)				500
Intermittent Torque (Nm)				700
Power (at 1000	70 cv / 52 kW			
Mounting Position				Rear
Pump Rotation	Pump Rotation			
Weight (kg)			6	
PTO internal ratio			1:1	
Indicative ratio from motor to PTO's output				
G3/40 - 5/ 7.508	1 : 0.472	G3/60 - 5/ 5.4	1 : 0.652	
G3/45 - 6/ 8.5	1 : 0.460	G3/60 - 5/ 6.106	1 : 0.581	
G3/50 - 5/ 8.5	1 : 0.420	G3/60 - 5/ 7.5	1 : 0.472	
G3/55 - 6/ 8.5	1 : 0.460	G3/61 - 5/ 6.1	1 : 0.578	
G3/36 - 5/ 8.98	1 : 0.394			



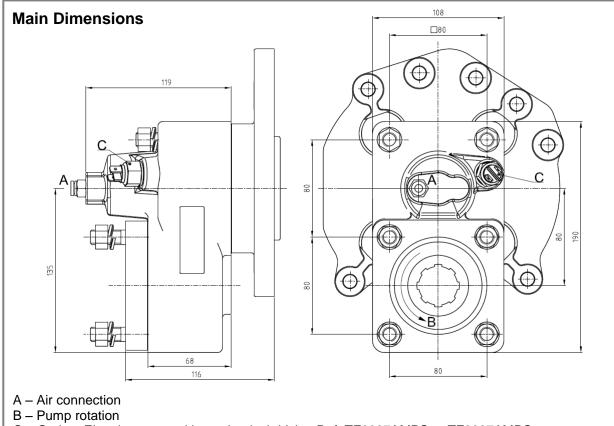


Ref. TF8007AMP

MERCEDES

G4/65; G4/95; G4/110

To apply with Gear Pumps or with Piston Pumps



C - Option: Electric sensor with mechanical driving Ref. TF8007AMPS or TF8007AMPC

(Dimensions in mm)

Main Data				
Continuous Torque (Nm)	300			
Intermittent Torque (Nm)	420			
Power (at 1000 rpm)	42 cv / 32 kW			
Mounting Position	Rear			
Pump Rotation	Right Hand			
Weight (kg)	11			
PTO internal ratio	1:1,32			
Indicative ratio from motor to PTO's output	t			
G4/65 - 6/ 9 1 : 0.620	GV4/65 - 6/ 9 High:1: 0.742	Normal 1 : 0.620		
G4/65 - 7/ 11 1 : 0.541	GV4/95 - 6/ 9 High:1 : 0.742	Normal 1: 0.620		
GV4/95 - 6/ 9 1 : 0.620	GV4/110 - 6/ 9 High:1: 0.742	Normal 1 : 0.620		
GV4/95 - 7/ 11 1 : 0.541				
G4/110 - 6/ 9 1 : 0.620				



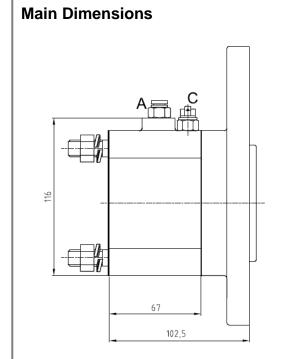


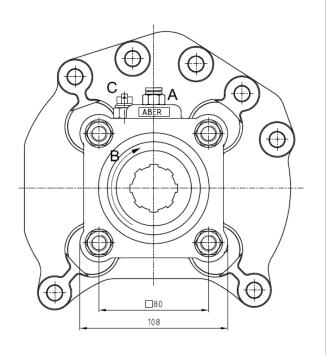
Ref. TF8007SP

MERCEDES

G4/65; G4/95; G4/110

To apply with Gear Pumps or with Piston Pumps





- A Air connection
- B Pump rotation
- C Option: Electric sensor with mechanical driving Ref. TF8007SPS or TF8007SPC

(Dimensions in mm)

Main Data				
Continuous Torque (Nm)	300			
Intermittent Torque (Nm)	420			
Power (at 1000 rpm)	42 cv / 32 kW			
Mounting Position	Rear			
Pump Rotation	Left Hand			
Weight (kg)	7			
PTO internal ratio	1:1			
Indicative ratio from motor to PTO's out	put			
G4/65 - 6/ 9 1 : 0.470	GV4/65 - 6/ 9 High:1: 0.562	Normal 1: 0.470		
G4/65 - 7/ 11 1 : 0.401	GV4/95 - 6/ 9 High:1: 0.562	Normal 1 : 0.470		
GV4/95 - 6/ 9 1 : 0.470	GV4/110 - 6/ 9 High:1: 0.562	Normal 1 : 0.470		
GV4/95 - 7/ 11 1 : 0.401				
G4/110 - 6/ 9 1 : 0.470				



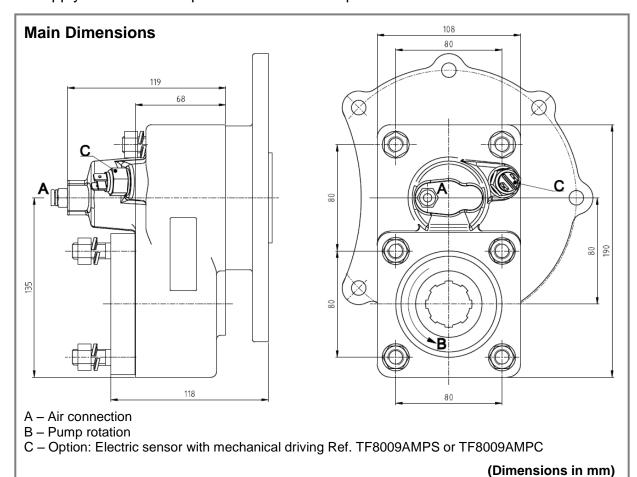


Relation 1:1,32

Ref. TF8009AMP

MERCEDES G-60; G-85

To apply with Gear Pumps or with Piston Pumps



Main Dat	a
Continuous Torque (Nm)	300
Intermittent Torque (Nm)	420
Power (at 1000 rpm)	42 cv / 32 kW
Mounting Position	Rear
Pump Rotation	Right Hand
Weight (kg)	10
PTO internal ratio	1:1,32
Indicative ratio from motor to PTO's output	
G60 - 6/ 9.2 1 : 0.725	
G85 - 6/ 6.7 - 1 : 0.820	

