



INSTRUCTIONS 210 e

Section	
Effective	C
Replaces	

Translation of the original instructions

Pumps

P15 - P25 - P40 - P60 - P100

Fabric gasket

INSTALLATION

OPERATION

MAINTENANCE



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Your distributor :

FUNCTION

The shaft **501** produces the rotary motion of the jacket **625** through the bolts **628**. The rings **629** have a static seal at the strainer **725** side and a hydrodynamic seal at the jacket **625** side.

The ram **631** must compress the rings by tightening of the bolts **729** while providing a slight leakage to the outside.

ATTENTION

A fabric gasket must always seep slightly in order to reduce the friction between jacket **625** / rings **629**, and to remove the frictional heat to prevent the gasket from overheating.

THE SEALING IS ACHIEVED:

- 1 - Between the shaft **501** and the jacket **625** by the seals **626**.
- 2 - Between the strainer **725** and the jacket **625** by the rings **629**.
- 3 - Between the strainer **725** and the base **401** by the seal **727**.

The fabric gasket must be replaced when the ram cannot be tightened any further.

LEAKING GASKET

- The jacket **625** is worn at the gasket, or the shaft with the jacket does not rotate smoothly or the jacket **625** no longer rotates with the shaft because the bolts **628** have come loose.
- The rings **629** and the ring seals **626**, **727** are not suitable for the product being pumped resulting in chemical and/or mechanical attack.

REPLACEMENT OF A FABRIC GASKET

Before any disassembly, make sure that the pump has been drained and take all the necessary precautions to prevent it from starting up. The pump must not start up, even accidentally.

TOOLS REQUIRED

Flat spanners for bolts **723**, **729**, **726**
Opening circlip pliers
Flat screwdriver
Fabric extractor (e.g. BURGMANN 9611)
Extractor (e.g.: FACOM U-35 L)
Suitable bushing

DISASSEMBLY AND ASSEMBY OF A FABRIC GASKET

- Loosen the 2 bolts **729**.
- Free the ram **631** by sliding it along the shaft **501**.
- Carefully remove the worn gasket.
- Cut rings with the diameter of the shaft from the replacement fabric.
Insert them, one after another, into the gasket housing, arranging them in such a way that the slits of the rings do not merge into one another. The last ring must not protrude from the housing.
- Put back the ram **631** and gently re-tighten the bolts **729** taking care to balance up the tightening so that the ram enters the housing straight. Push in the ram just enough to prevent substantial leakage.
- Start up the pump and keep tightening as the new gasket settles. Allow slight seepage of liquid necessary for the lubrication and the cooling of the gasket.
- Ascertain manually that there is no abnormal heating of the strainer **725** due to overtightening of the ram. If this happens, release the gasket by loosening the bolts **729**.

DISASSEMBLY OF THE GASKET AND THE SHAFT JACKET

Before any disassembly, make sure that the pump has been drained and take all the necessary precautions to prevent it from starting up. The pump must not start up, even accidentally.

Disassembly:

- Uncouple the pump by removing the coupling sleeve.
- Remove the key **508**.
- Carefully clean the shaft end to remove any traces of paint, oxidation, burrs...
- Loosen the bolts **723** and remove the cover **705** taking care not to damage the seal **707**.
- Remove the circlips **537**. Remove the washer **731**.
- Loosen the 3 bolts **726**.
- Remove the roller bearing **703** using the extractor : pass the grippers behind the roller bearing while sliding them into the holes of the strainer **725**, using the shaft end **501** as a support, and remove the second washer **731**.
- Slide the strainer assembly along the shaft.
- Do not dismantle the base **401** from the pump cylinder.
- Loosen the 2 bolts **729** and liberate the ram **631**. Carefully remove the worn gasket **629**.
- Loosen the bolts **628** and slide the jacket **625** along the shaft **501**.

RE-ASSEMBLY OF THE GASKET

Check the condition of the 2 seals **626** and change them if necessary. Lightly lubricate the shaft **501**, abut the jacket **625** complete with its seals **626** against the circlips **511** and tighten the bolts **628**.

Check that the retainer of the rings **603** is correctly mounted in the right direction (see sectional drawing at the end of these instructions)

Insert the ram **631** through the lateral hole of the strainer **725**. Slide the whole strainer assembly onto the shaft **501** until supported on base **401**.

Tighten the 3 bolts **726**.

Place the first washer **731** as support on the shoulder of the shaft **501**.

Couple the roller bearing to the shaft by hand, push it by means of a suitable bushing until supported against the washer **731** (according to diagram opposite).

FAILURE TO FOLLOW THIS INSTRUCTION CAN SERIOUSLY DAMAGE THE INTERIOR OF THE PUMP.

In no case must the roller bearing be pushed on to the shaft without support for the shaft.

Place the second washer **731** against the roller bearing.

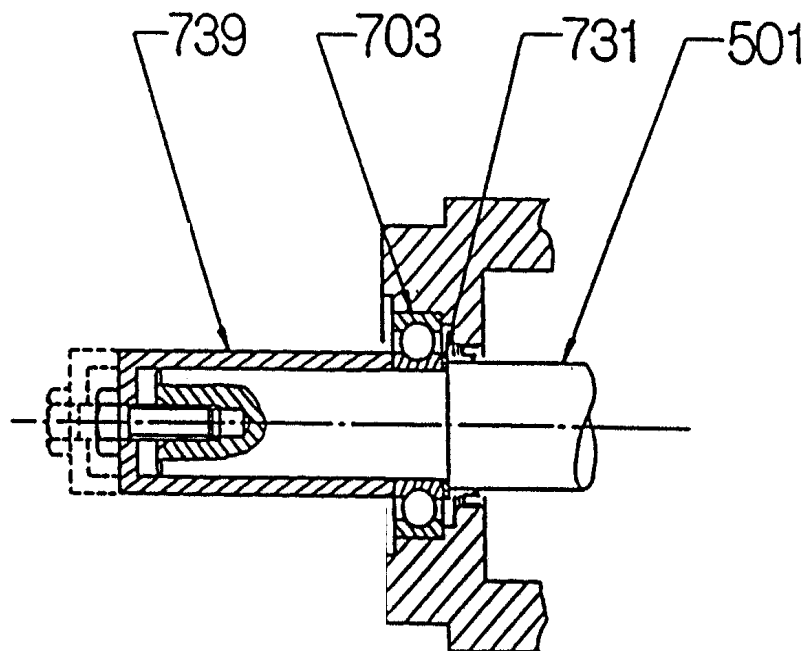
Fit the circlips **537**.

Clean the sides of the cover **705** and of the strainer **725** with a clean rag.

Fit the cover **705** with its seal **707** after applying sealing paste to the contact surface between the cover **705** and the strainer **725**.

Tighten the 4 bolts **723**.

Then carry out re-assembly operations N° 4-5-6. (§ REPLACEMENT OF A FABRIC GASKET.)



MAINTENANCE

Lubrication of the roller bearing 703

Use a good-quality roller bearing grease.

Lubrication:

- For pumps working at ambient temperature and protected from the weather, lubricate every 1000 operating hours
- For all other cases: lubricate every 500 operating hours

For pumps operating at elevated temperatures (in principle, from 100°C), choose a grease with a high drop point.

- The fabric gasket must be replaced when the ram cannot be tightened any further.
- After each start-up, it necessary to check the leakage at the gasket. Where necessary, tighten or loosen the 2 bolts **729**, taking care to equalise the tightening, until a slight see page is obtained.

SPARE PARTS LIST

° = Assemblies and parts able to be supplied as spares

°	609	1	FABRIC GASKET, COMPLETE	
	511	1	Circlips	(see 715)
	603	1	Ring retainer	
	625	1	Shaft jacket	
	626	2	Shaft jacket gasket	(see 699)
	628	3	Shaft jacket bolts	
°	629	1	Set of rings - specify the nature of the pumped liquid	
	631	1	Ram	
	632	1	Circlips	
	636	2		
	729	2	Bolt	
	730	2	Nut	

°	715	1	SET OF SEALS (511+537+707+716+727)	

°	720	1	OUTBOARD BEARING, COMPLETE	
	703	1	Ball bearing of outboard bearing	(see 704)
	716	1	Lip seal	(see 715)
	725	1	Outboard bearing	
	726	3	Outboard bearing bolt	
	727	1	Outboard bearing seal	(see 715)
	731	2	Roller bearing support washer	(see 704)

°	704	1	BALL BEARING KIT (537+703+731)	
	537	1	Circlips	
	703	1	Ball bearing	
	731	2	Support washer	

°	740	1	OUTBOARD BEARING COVER, COMPLETE	
	705	1	Outboard bearing cover	
	707	1	Lip seal	(see 715)
	708	1	Lubricator	
	723	4	Cover bolt	

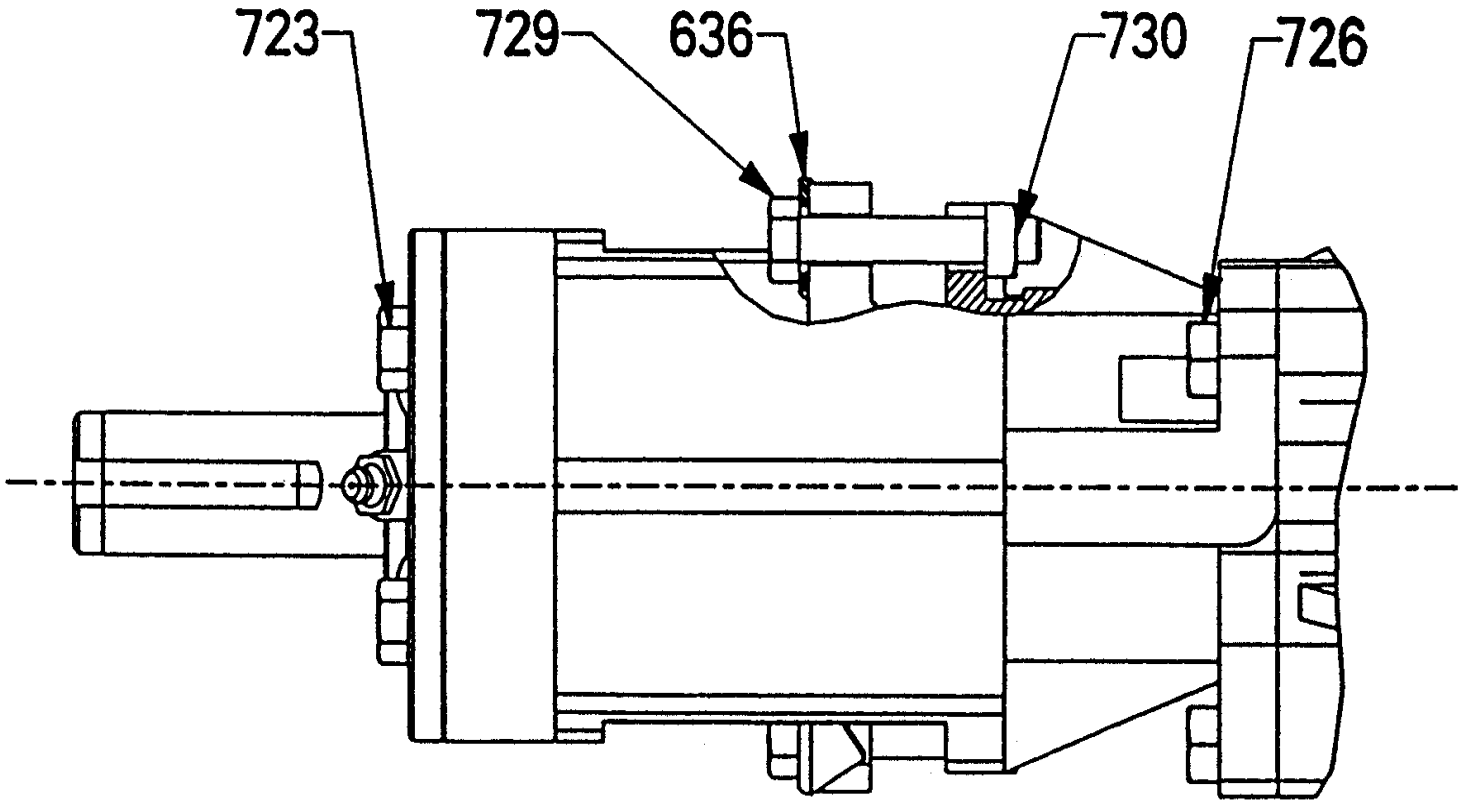
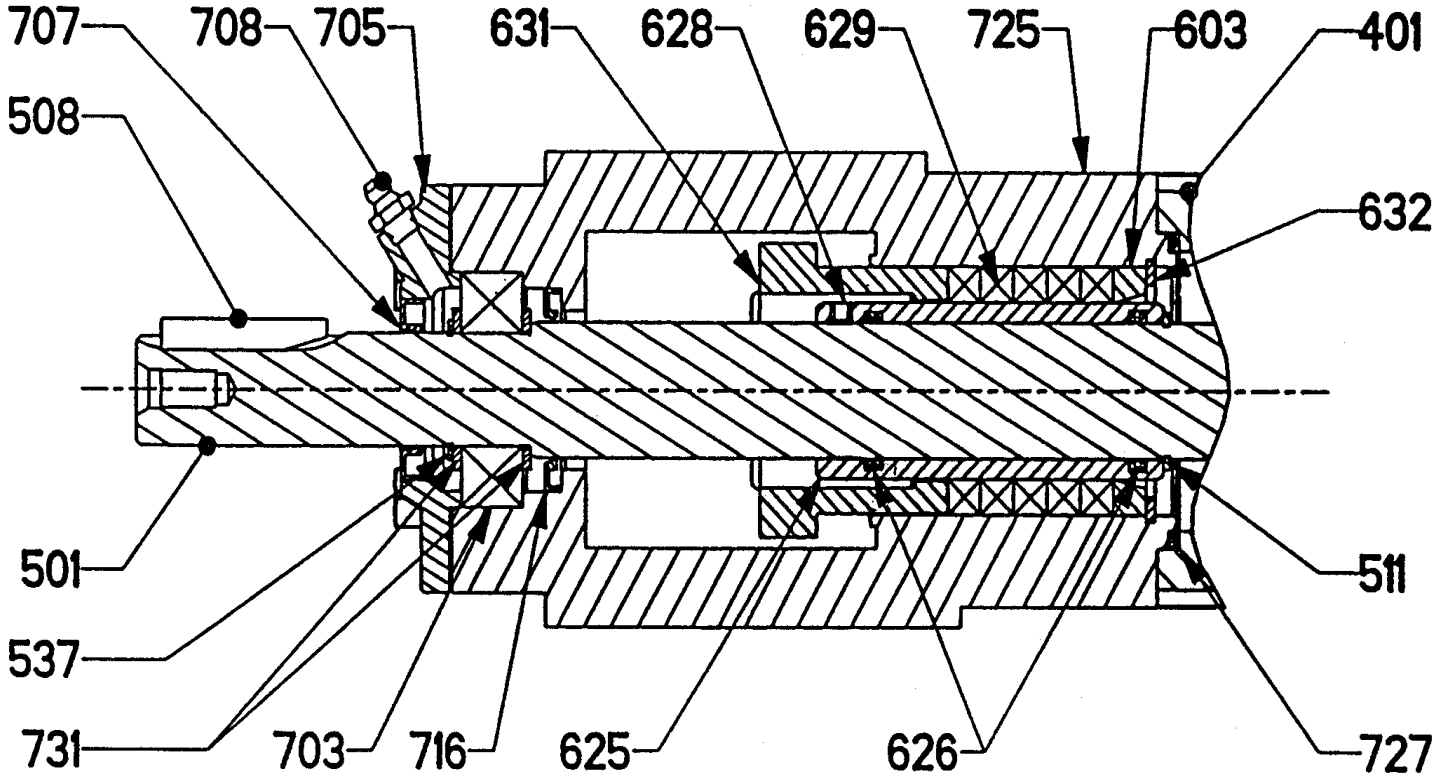
°	699	1	SET OF SHAFT SEAL O-RINGS 626	

To order spare parts, please indicate :

- . TYPE and SERIAL NO. of the pump (stamped on pump plate)
- . Instructions 210
- . REFERENCES and DESIGNATIONS of the desired parts. Only those parts (complete assemblies or separate parts) whose reference is preceded by (°) can be supplied.

CROSS-SECTION DRAWINGS

Pumps P15 - P25 - P40 - P60



Pump P 100

