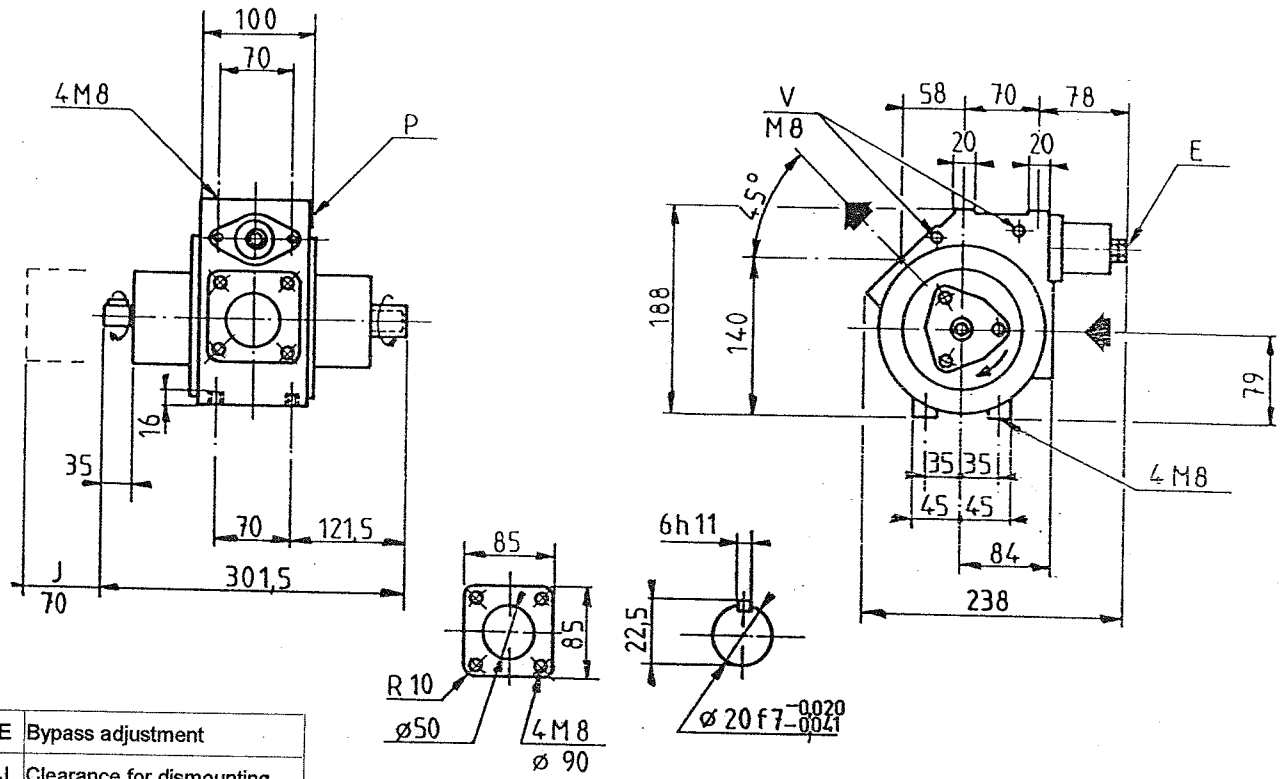
OVERAL DIMENSIONS - mm

The pump rotates in one direction only. This is indicated by an arrow on the pump housing. However, the pump has both of its shaft-ends led out and must be driven through one or the other depending on the direction of rotation of the power take-off.
Because the pumpe rotates in one direction only, the positions of the suction and discharge ports cannot be reversed (see arrows on housing). The safety bypass cannot be reversed.



E	Bypass adjustment
J	Clearance for dismounting
P	Pump plate
V	Drain plug
	Pressure intake

18 KG

DATA

	SPEED RANGE tr/mn	DELIVERY m3/h	PRESSION bar	REQUIRED POWER kW	
CC8 10 - A	800 à 1000	10	8	2,8	The pumps CC8 10 can work at a pressure equal to 8 bar. They are normally delivered with a spring adjusted at 4 bar. When requested, they can be delivered with a spring adjusted at 8 bar.
Viscosity < 40 cSt.	600 à 1200	13	6	2,2	
	500 à 1500	17	4	2,5	

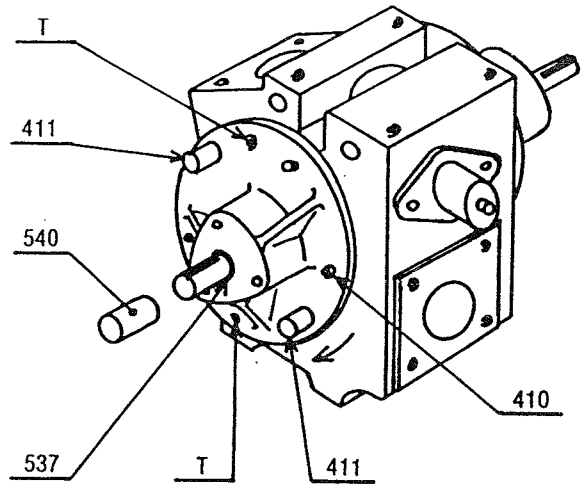
ASSEMBLY AND DISASSEMBLY OF PUMP

Make sure that the pump has been drained before starting disassembly.

TOOLS REQUIRED

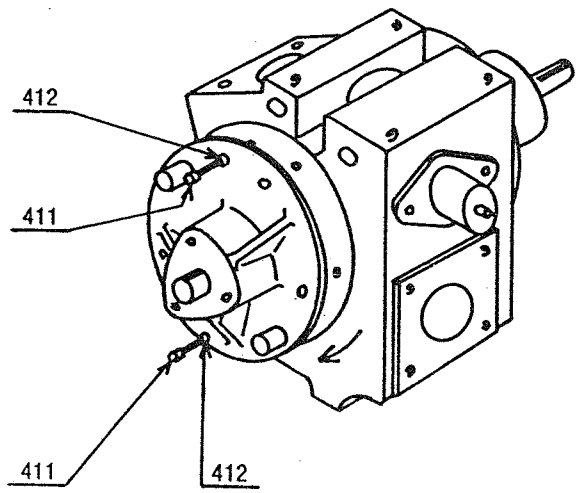
Flat wrenches, 13
Tube wrench, 17 mm.
Circlip opening pliers.
Screwdriver.

TO OPEN PUMP ON SIDE OPPOSITE TO DRIVE SYSTEM



Remove shaft-end cap 540 by pulling.
Remove circlip **537**.
Unscrew the four screws **410**.
Unscrew the two screws 411 fitted with their nuts and place them in the two tapped holes **T**.
Screw up the two screws at the same time so that the end-plate is gradually released along the centre line. When it is free on the shaft, hold it by hand and remove it.

TO OPEN PUMP ON DRIVE SIDE

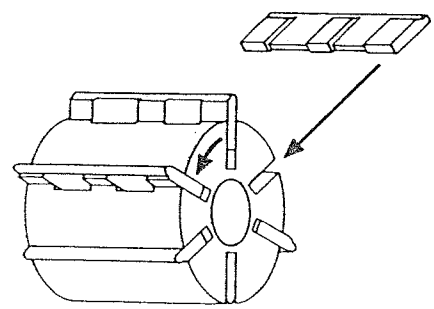


Uncouple the pump by removing the U-joint or the coupling.
Remove the key and then proceed in the same way as when dismounting on the other side.

TO REASSEMBLE

Lubricate the shaft slightly.
Make sure that the end-plate seal is correctly positioned, check it and change it if necessary.
Position the end-plate on the shaft and approach it as far as possible by hand.
Finish fitting the end-plate, screwing the two nuts 412 gradually on to the two screws 411 (see drawing). Make sure that the end-plate is centered while screwing. When it is in place remove the screws and nuts. Turn one of the leak discharge holes downwards.
Replace all parts (screws, circlips, cap).
Screw up the longer screws 411 in the two bosses on the end-plate.

TO CHANGE THE VANES

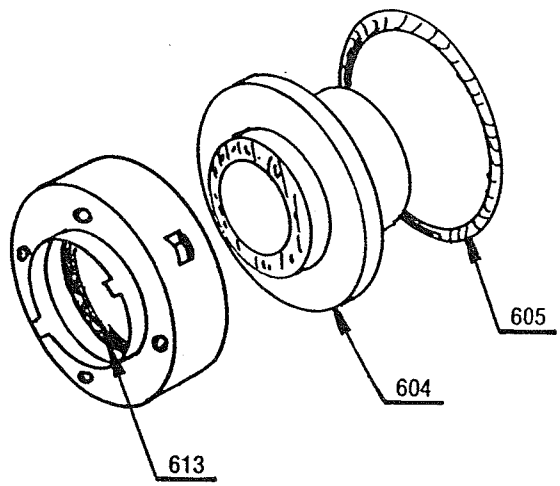


Open the pump on one side or the other.
Remove the vanes.
Check for wear (see § on maintenance).
If vane wear is abnormal, check surface condition of body and of end-plate faces.
Refit the vanes (new if necessary) respecting the direction of assembly.
Reassemble the pump.
Turn it over by hand to check operation.

REPLACEMENT OF THE SHAFT SEAL

To disassemble

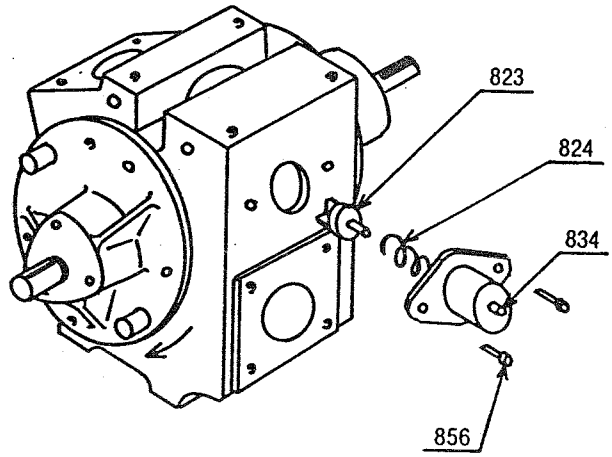
Remove the end-plate.
Release the integral rotary seal 697 attached to the shaft by inserting the tip of a screw-driver into one of the two notches.
Free the stationary 604 from the end-plate.
Check the condition of gaskets 403, 605 and 613, and the condition of the integral rotary seal 697.



To reassemble

With new parts, check the condition of contact surfaces between the stationary 604 and the integral rotary seal 697.
Replace the stationary o-ring 605, and then the stationary 604, in the end-plate.
Replace the integral rotray seal 697 on the shaft, taking care to engage the two tabs on the former into the notches machined in the rotor 301.
Replace all the other parts in reverse order to that of removal.

TO DISASSEMBLE AND REASSEMBLE THE BYPASS FOR INSPECTION



To disassemble

Set bypass at minimum pressure by unscrewing the nut.
* Note the number of turns when unscrewing so as to set the bypass at the same pressure on reassembly.
Unscrew the two bypass cap screws.
Remove spring.
Remove the poppet by pulling its cylindrical section with the fingers.
Check condition of bypass.
Clean all parts before reassembly.

To reassemble

Reassemble in reverse order of disassembly.
Set bypass at desired pressure by tightening nut the number of turns noted during disassembly.

MAINTENANCE

In addition to periodic lubrication of bearings (see general instructions), condition of the vanes must be checked every 700 hours :

Original height "h" = 20 mm
Change when "h" < 18 mm.

KEY : ▲ = parts and assemblies that can be supplied as spares.

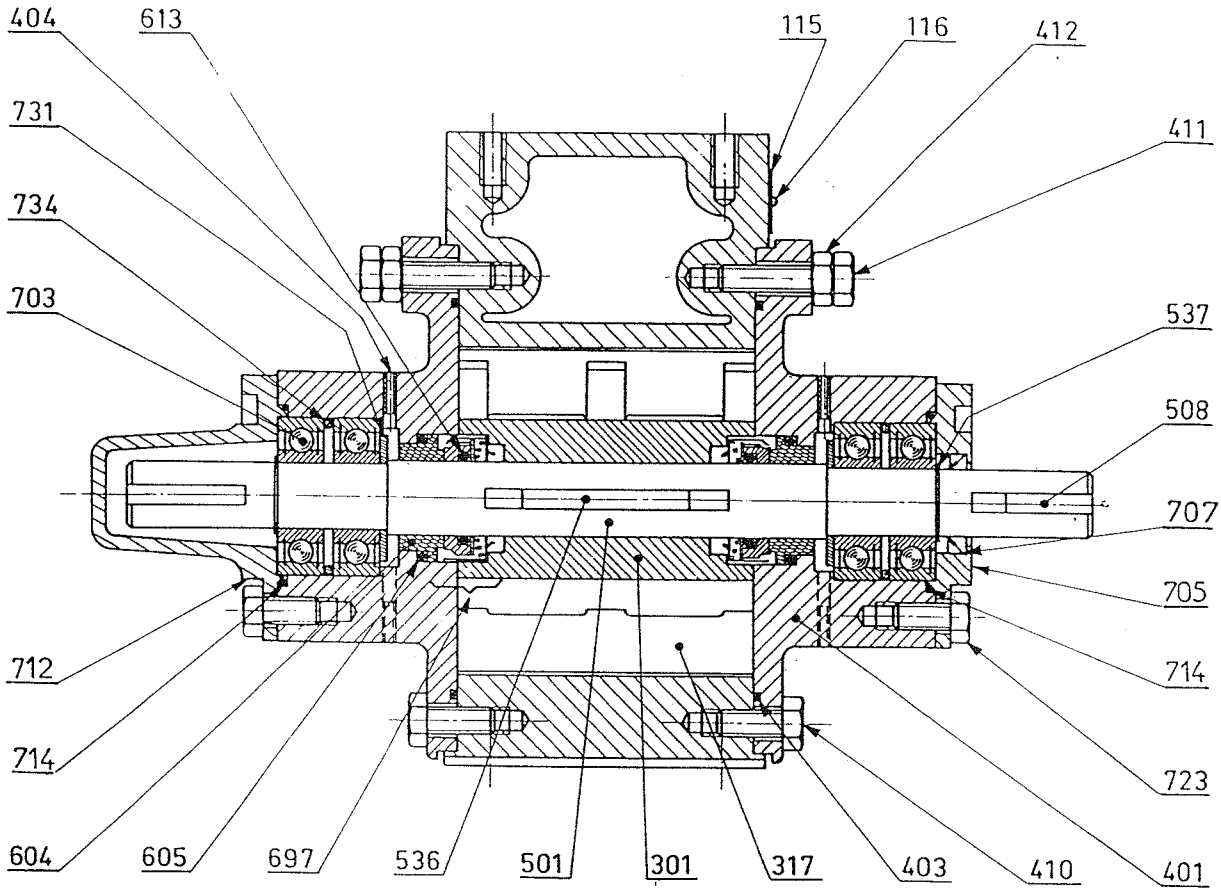
Rep.	Nb.	DESIGNATION
▲ 098	1	SET OF SCREWS (410+411+412+723+856)
▲ 099	1	SET OF PUMP SEALS (126+403+807)
▲ 100		CASING COMPLETE
101	1	Casing
115	1	Pump plate
116	2	Pump rivet
▲ 124	1	DRAIN PLUGS AND GASKETS
125	2	Drain plug
126	2	Gasket
▲ 300	1	ROTOR COMPLETE
301	1	Rotor
▲ 317	6	Set of vanes
▲ 400	1	END PLATE COMPLETE
401	2	End plate
410	8	End plate screws
411	4	End plate disassembly screw
412	4	Disassembly nut
404	2	
403	2	End plate seal
▲ 500		SHAFT COMPLETE
501	1	Shaft
▲ 599		SET OF KEYS COMPLETE
508	1	Shaft end key
536	1	Sliding rotor key
537	2	Retainer ring
540	1	Shaft protection
▲ 600	1	SHAFT SEAL COMPLETE
▲ 610	2	Stationary complete
604	2	Stationary
605	2	Stationary O-ring
▲ 697	1	BLOCDIR ROTARY SEAL
612	2	Shaft seal cup
613	2	Rotating O-ring
614	2	Thrust piece
615	2	Spring
616	2	Retainer shaft seal

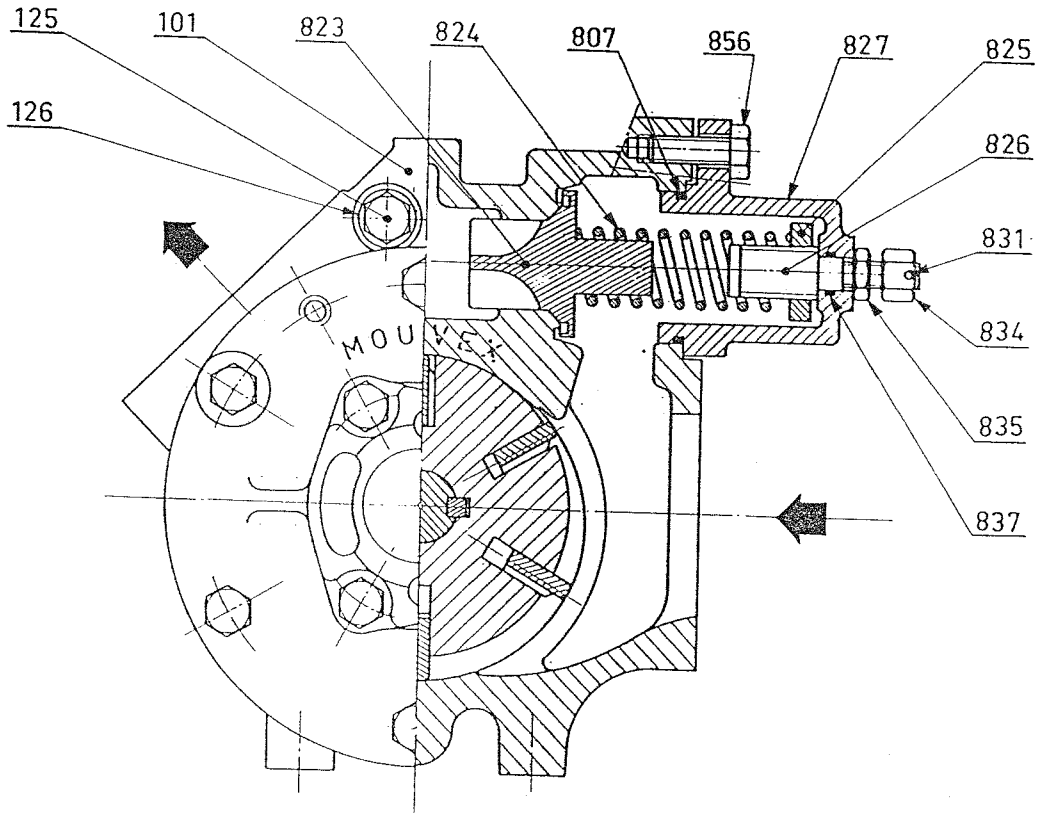
Rep.	Nb.	DESIGNATION
▲ 699	1	SET OF SHAFT SEAL O-RINGS
▲ 700	1	BALL BEARING COMPLETE
▲ 703	4	Ball bearing
705	2	Cover
708	2	Lubricator nipple
723	6	Cover screw
733	2	Protection ring
734	2	Spacer
▲ 820	1	COMPENSATED BYPASS COMPLETE
▲ 823	1	Compensated poppet
▲ 827	1	Adaptor nut
▲ 898	1	ADJUSTMENT PIN ASSEMBLY
807	1	Seal
825	1	Thrust piece
826	1	Adjustment pin
831	1	Adjustment nut split-pin (see 899)
834	1	Adjustment nut (see 899)
835	1	Lock nut (see 899)
837	1	Adjustment seal (see 899)
856	3	Cover screw (see 899)
▲ 824	1	SPRING 4 or 8 or 2,5
▲ 899	1	SET OF BYPASS SEALS ADJUSTMENT NUTS (807+831+834+835+837)

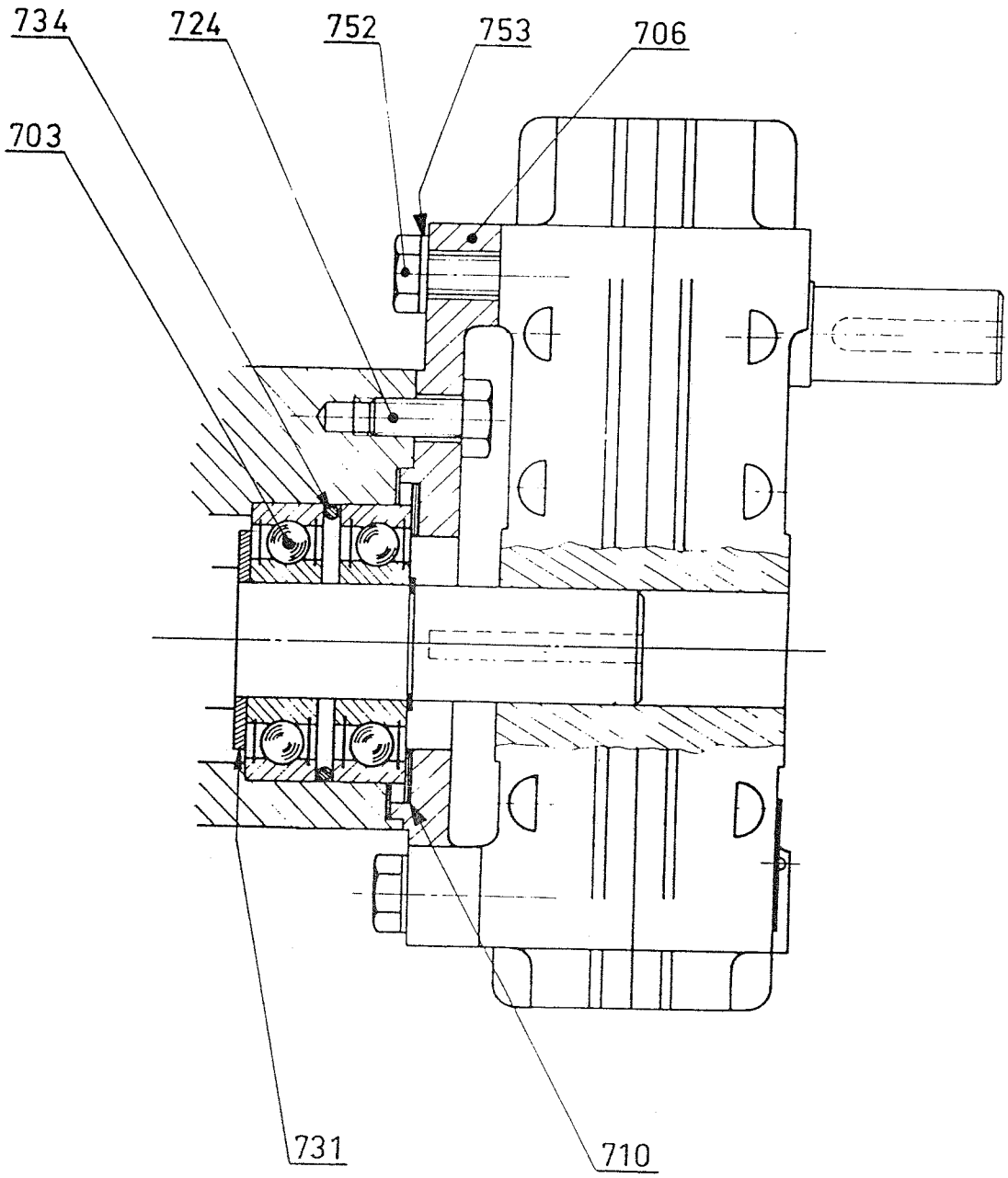
ALTERNATIVES

▲ 700a	1	REDUCTION GEAR UNIT
▲ 703	4	COMPLETE BEARING
705	1	Cover ball bearing
▲ 706	1	Reduction gear side-plate
708	2	Lubricator nipple
723	3	Cover screw
724	3	Side plate screw
733	2	Protection ring
734	2	Spacer
752	4	Reduction gear screw
753	4	Lock washer
710	1	

NOTE - When ordering replacement parts, please give details as follows :
-TYPE and SERIAL NUMBER of pump (engraved on pump data plate)
-the words TECHNICAL FORM N° 301
-REFERENCE NUMBERS and NAMES OF PARTS required. Please note that the only parts that can be supplied, either separate parts or complete units, are those marked with a triangle (▲).


404
613
115
116
412
731
411
734
703
537
508
707
705
712
714
723
714
604
605
697
536
501
301
317
403
410
401


125
101
823
824
807
856
827
825
126
826
831
834
835
837



SPEED REDUCER FLANGED ON PUMP