



INSTRUCTIONS 1146 e

Section	
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Replaces	1146 A

AF HT - AK HT Bypass

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I M P E R A T I V E

Before starting the pump, make sure that it rotates in the right direction in relation to the direction in which you want the product to flow. Make sure that the bypass is positioned correctly in relation to the direction in which the product flows (direction of rotation of the pump). See pump instructions if necessary.

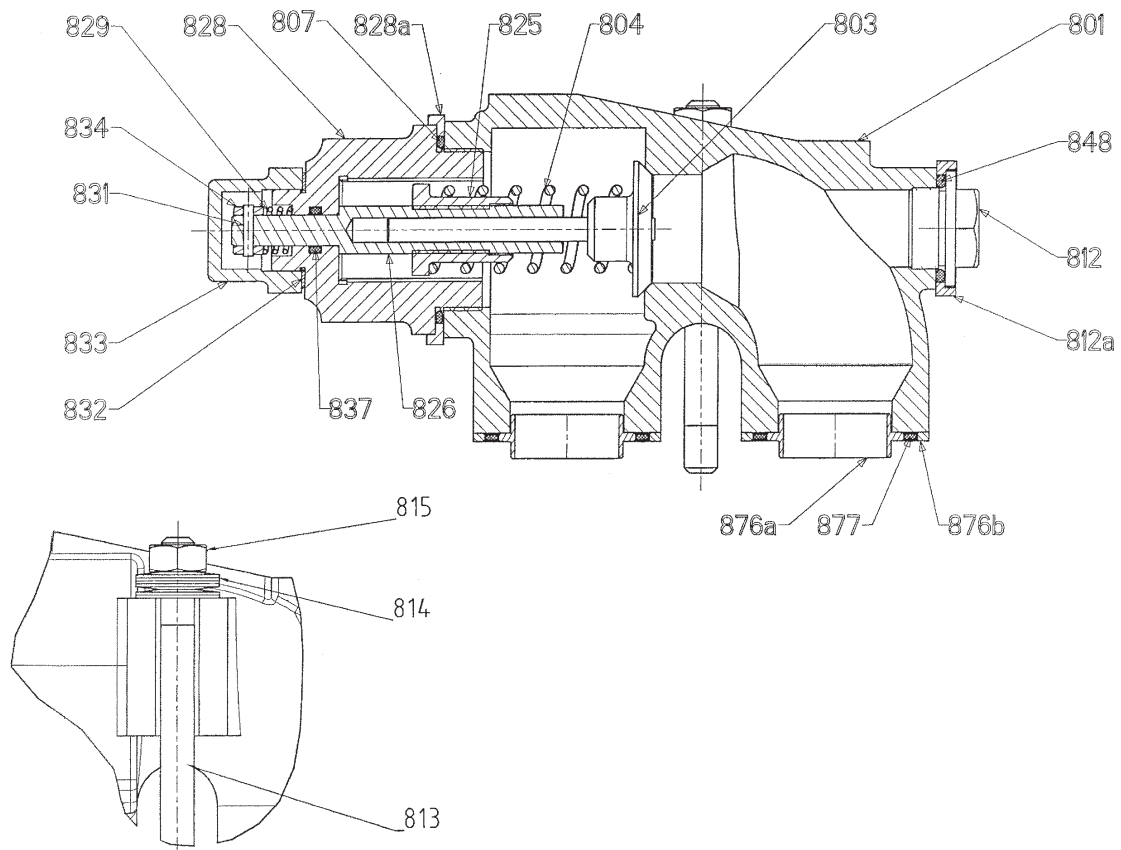
If you have to reverse the bypass to adapt it to the product flow direction (direction of rotation of the pump), drain the pump and remove all internal pressure from it by conforming to the drainage procedures applicable to your installation.

All operations on the bypass require that you take the necessary precautions when handling components operating at high temperature. You must use appropriate protective equipment.

Before adjusting the bypass, make sure that the entire installation is designed to withstand the maximum pressure generated by the pump at its maximum setting. If you do not know the maximum pressure value generated by the pump, contact our technical service before taking any action.

This value depends on the spring installed in your pump.

AF HT - AK HT BYPASS



OPERATION

The HT standard bypass operates like a safety valve, by automatically limiting the discharge pressure at the value for which it is adjusted.

When the discharge pressure reaches the adjusted pressure of the spring, the valve **803** opens, thus permitting the partial or total return of the liquid to the inlet side of the pump.

It should be noted that the role of the HT normal bypass, as a safety device, is limited to protecting the pump against accidental over-pressure. For all electric motors (unless the model used can handle the increased load due to maximum over-pressure) it is vital to provide appropriate overload protection.

ORIENTATION

The double bypass is designed to protect the pump in both directions, the single bypass only protects the pump in one direction of operation. Consequently it is necessary to check that the pumps direction of operation is correct by verifying that the cap **833** is located on the inlet side. The bypass must be reversed if in the wrong direction.

INVERSION

To reverse the bypass, unscrew the nuts **815** on the studs **813**, remove the washers **814** and turn the bypass through 180°.

Before locking the bypass in its new position, check the condition of the seals **877** and their installation.

Tighten the nuts on the studs, taking care to balance the tightening so that the bypass remains vertical.

ADJUSTMENT

To adjust the bypass, unscrew the cap **833**, turn the adjustment nut **834** clockwise to increase the discharge pressure, and anticlockwise to decrease it. Once the adjustment is finished, do not forget to re-screw the cap **833**.

OBTAINING THE FLOW

If the flow is lower than anticipated, the cause may be due to incorrect adjustment of the bypass valve.

To correct the flow, gradually tighten the adjustment nut **834** after making sure that the pump is running well at the recommended speed.

If during adjustment, you compress the spring to its limit or disturb the operation of the motor, without obtaining the flow required, this means that the pump unit must operate with a pressure higher than that for which it was designed. In this case you should consult our Technical Services.

STANDARD BYPASS USE

HT standard bypass should not be operated too frequently—even less permanently—since it would result in useless power consumption and material fatigue detrimental to equipment life.

NOTICE :

Coat the faces of flat seals with dough EPPLÉ or equivalent before reassembly.