Operating Instructions

ERHARD Butterfly Valve

Locking at the Trunnion

These operating instructions must always be used in combination with operating instructions BA01E001!

1. General

ERHARD Butterfly Valves equipped with locking device at the trunnion are always supplied in unlocked condition. When delivering the valve, the valve disc is in closed position.

2. Normal operation

The gearbox turns the rotary movement of the stem into a translatory motion of the valve shaft and thus of the valve disc.

An indicator behind a sight-glass on the cover of the stem gearbox shows the valve position in a continuous manner.

The indicator position corresponds to the position of the valve disc. The limit positions are shown as readily comprehensible symbols. In case of special designs the position of the valve disc is shown at the actuator or at the gearbox.

During normal operation the valve disc is not locked (see drawing 3E151888 sh. 1). All four threaded holes of the pitch circle $d_2$ are closed by means of screw plugs (1). The hexagon bolts for blocking (2) are supplied as detached items and have to be stored in such a way that unauthorized use is prevented.

The bolts at the pitch circle $d_1$ are fastening screws for the bearing cover. Loosening these bolts is inadmissible, as this leads to leakage and a dangerous situation.
3. Locking Device

Prior to carrying out work at the valve, the inspection valve has to be closed and the pipe section in which the valve is installed must be made pressureless.

Upon request, the valve disc can be locked in OPEN position (drawing 3E151888 sh. 2) or CLOSED position (3E151888 sh. 3). The locking device is only suitable for locking the valve disc if maintenance work has to be carried out at the gearbox.

Locking can be carried out as follows: Move the ERHARD Butterfly Valve with gearbox in fully open to fully closed position until the required limit position is reached without using any excessive forces. Then, screw off the screw plugs (1) according to the position of the valve disc (3E151888 sh. 2 + sh. 3) and replace them by the hexagon bolts for blocking (2) (supplied as detached items). Now, the valve disc is locked.

In order to unlock the ERHARD Butterfly Valve, the hexagon bolts for blocking (2) have to be removed again (3E151888 sh. 2 + sh. 3) and to be replaced by the screw plugs (1). When the ERHARD Butterfly Valve is unlocked, it can be operated again at the gearbox. Prior to operation, check again condition of the locking device. If the valve is locked, operation is inadmissible.

The hexagon bolts for blocking (2) must not be stored near the valve in order to prevent unauthorized use (screwing-in).