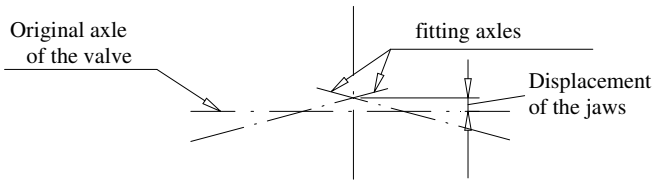
HIDRAM
AMARRES HIDRONEUMÁTICOS S.A.

KHG-D MODEL

AUTOMATIC INDEXING CHUCK WITH DISPLACEMENT JAWS

KHG-D chuck in addition to the characteristics of the KHG model allows to displace the center of the piece making possible the mechanize of the valve with center moved.

Displacement of the jaws for the mechanising of the fitting



Characteristics

- The system used consists of displacing the beds that fix the piece to make the center of the face to be mechanized coincide with the axle of the machine.
- A high productivity is achieved due to a single fixing the piece can be mechanized in all its sides, since the chuck revolves automatically the necessary degrees for its mechanizing.
- Its great rigidity makes a guaranteed mechanization possible.
- Easy installation to the machine.
- High positioning and repeatability precision.
- Automatic control of security.
- Equipped with a plate holder to be adapted to the machine and with an hydraulic plant so that the chuck can perform its working cycle in co-ordination with the control of the machine.

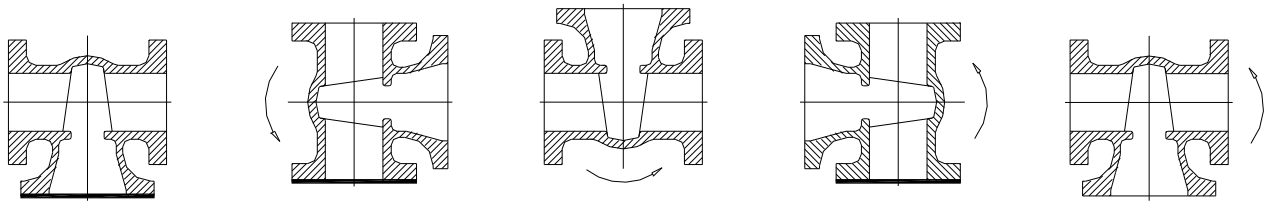
Safety Systems

- Equipped with a safety valve place in rear part to keep the adhesion pressure in the chuck, if for any reason the hydraulic plant fails to work.
- The systems of detectors which send the correspondent signal to the machine control when the chuck carries out each movement. The control of the machine won´t allow the cycle of operations to go on until the systems has given the signal.
- The position detection system is totally integrated in the indexing system in such way that when the chucks carries out a division it is immediately detected by the control of the machine without interrupting the mechanizing process which results in a time gain and an increase in productivity.

Working Principle

The indexing system of the pieces is based on hydraulic work of a rack that acts on a system of cogs transmitting this turn to the mechanized part. The division with this system allows a guaranteed precision of 10 seconds per degree in the turn.

The cycle of divisions for the mechanization of the valve is as follows:



LOAD
1ST OPERATION

1ST CYCLE 90º
2ND OPERATION

2ND CYCLE 180º

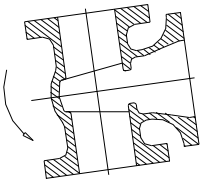
3RD CYCLE 270º
3RD OPERATION

4TH CYCLE 270º
UNLOAD

In case of require intermediate mechanization operations, we have the possibility of 5º division

Beware!!
When the chuck realizes any cycle of division, it must be stopped (r.p.m=0)

CYCLE 95º



CYCLE 265º

