

ABSTRACT

PIPE CONNECTOR

A pipe connector not only allows a flexible pipe (like PEX pipe) easy to enter, but also ensures the sealing of socket and holding of pipe connection when the pipe is injected with liquid and gets pressurized to expand, the pipe connector includes a socket body in which in the direction of pipe entry, configuring in sequence: grab ring, retainer and O-shaped sealing ring; , when pipe enters the socket, flange arranged on the grab ring is deflected; when the pipe is injected with liquid and gets pressurized to expand, the O-shaped sealing ring is compressed and expands axially, then the O-shaped sealing ring pushes the retainer, so as to push the grab ring to move in reverse direction of pipe entry, thus locking the pipe.

Fig. 4