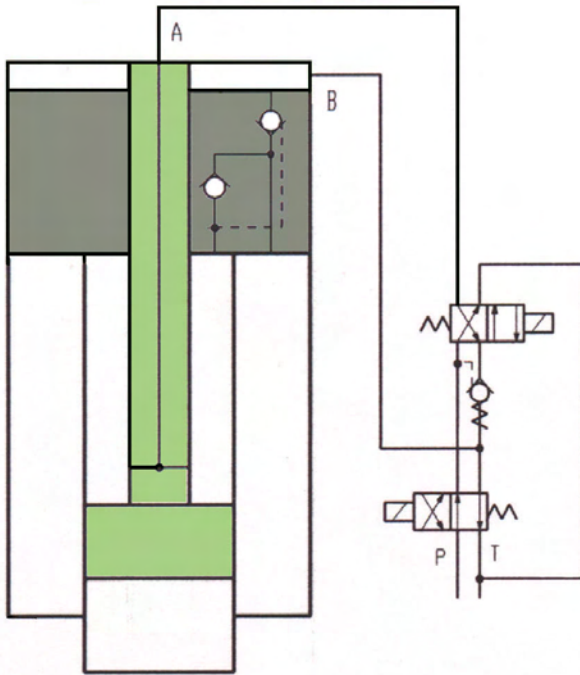


*Know this one?*

# HYDROQUICK®



**High-speed cylinder**

**An intelligent alternative**

**fast**

**save**

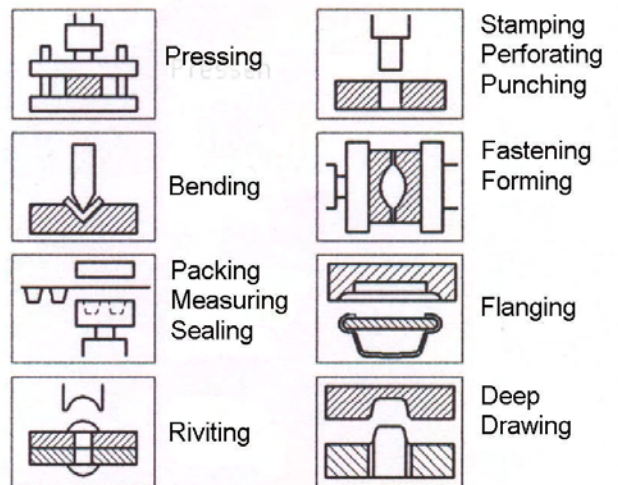
**economic**

**Successfull since 1972**

**6 times speed increase  
by internal differential wiring**

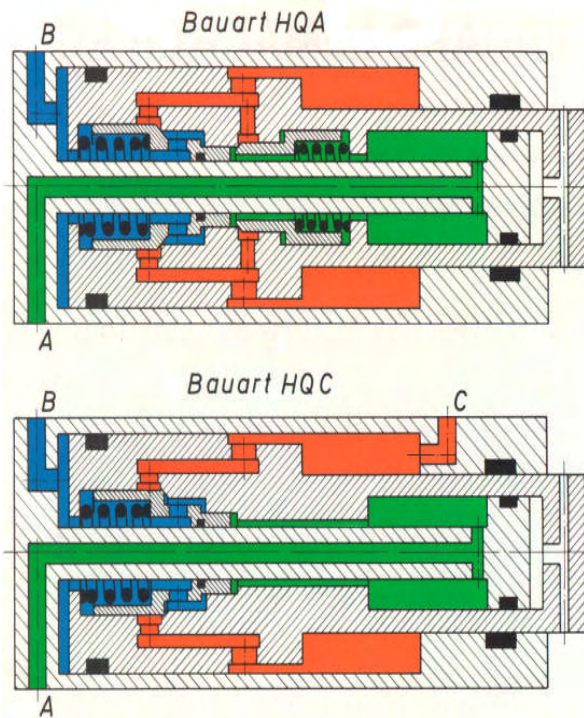
**Safety advantage by internal  
prestressed ring room**

**Economically up to 50%  
lower drive unit power**



# HYDROQUICK® – Cylinder

## fast forward stroke - work stroke - fast return stroke



At HYDROQUICK®-Cylinder with 2 connections is a relief valve built-in, which connects the ring room with the tank at the working stroke over the fast travel return pipe room in the cylinder. The ring room is prestressed at this with the opening pressure of the relief valve.

At HYDROQUICK® -Cylinder with 3 connections becomes the ring room relieved through an external valve. The ring room can be loaded with the max. operating pressure, if the fast travel return pipe connection is relieved, without that the main valve opens. Through this it is possible to put the piston in hydraulically or to work with amplified retreat strength. The retreat strength then is approx. 66% of the piston strength.

HYDROQUICK® -Cylinder have as a rule, an area relationship 6:1. by use of double pumps has to extend the relationship up to 18:1  
 HYDROQUICK®-Cylinders are very successfully worldwide in use in special machines, in hydraulic presses, packing machines, etc -- since 1972.

HYDROQUICK® cylinders are duplex acting hydraulics cylinders, the empty piston strokes go through at constant pump capacity in the fast travel piston stroke. You have a main piston for the fast forward stroke and a retreat piston for the fast return stroke. The switchover of fast forward stroke to working stroke is dependently carried out distance- or pressure-dependent. At the fast travel forward stroke the ring room is connected to the piston room by the main valve built-in in the cylinder (internal differential wiring). Simultaneously the fast travel return room is connected to the piston room through the control valves one the outside of the cylinder (external differential wiring). The main valve is steered by the steering piston connected to the return flow room. At the fast travel forward stroke the main valve becomes controlled by lead pressure, at the fast travel return stroke it is controlled by the fast travel return stroke pressure. The main valve is closed, if the pressure is smaller in the fast travel return stroke room than in the piston room (working stroke).

HYDROQUICK® -Cylinders can be delivered with 2 or 3 cylinder connections.

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