

BENCOR (Pty) Ltd.

Check valves



Check valves with hydraulic release type HRP

The HRP type check valves, with hydraulic release, are designed as manifold mounting valves and are available in five sizes. These valves are used in hydraulic circuits with design related leaking directional valves, as hydraulically actuated drain, or idle circulation valves. The check valve, type HRP, can be ordered also with a pre-release to suppress decompression surges for circuits with high pressure and high consumer flows.

This valve is tolerant of residual pressure in the return duct (port B) as the rear side of the actuation piston is depressurized via a leakage port.

Another option allows opening of the check valve via the load pressure on the consumer side, controlled by a directly mounted solenoid valve.



Nomenclature:	Check valve with hydraulic release
Design:	Individual manifold mounting
Actuation:	Hydraulic
p_{max}:	700 ... 500 bar
Q_{max}:	20 ... 140 l/min

Basic types and general parameters

Basic type and size	Flow Q _{max} (l/min)	Pressure p _{max} (bar)	Release ratio p _A / p _Z	Symbol
HRP 1	20	700	2,9	
HRP 2	35	700	3,9	
HRP 3	50	500	4,3	
HRP 4	80	500	3,8	
HRP 5	140	500	4,0	

Additional versions

- Check valve with pre-release
- Orifice inserts installed in port Z to prevent decompression surges
- Check valve with directly mounted 3/2-way directional solenoid valve enabling arbitrary release

Order example

HRP 5
Check valve with hydraulic release type HRP, size 5