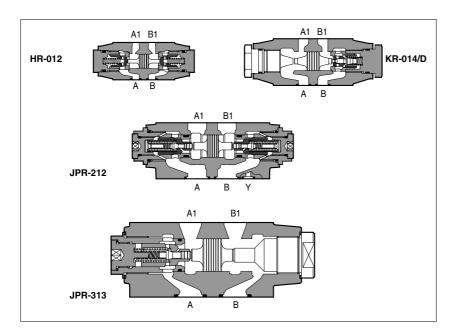
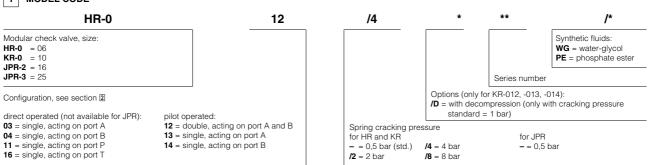


Modular check valves type HR, KR, JPR

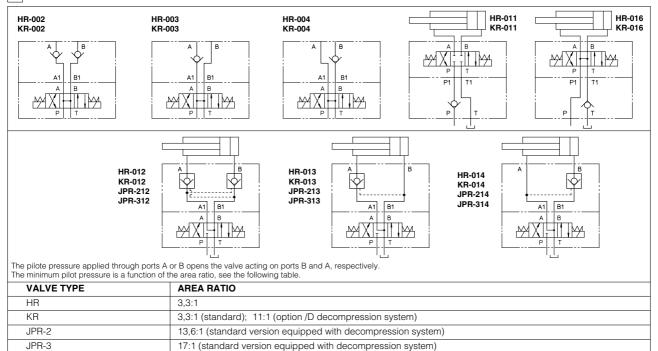
direct or pilot operated, ISO 4401 sizes 06, 10, 16 and 25



1 MODEL CODE



2 VALVE CONFIGURATION



HR, KR are check valves available as direct or pilot operated models. JPR are pilot operated check valves.

Optional versions with decompression are available on request for some models of KR.

HR-0 = ISO 4401 size 06 interface: flow up to 60 l/min, pressure up to 350 bar.

KR-0= ISO 4401 size 10 interface: flow up to 120 l/min, pressure up to 315 bar.

JPR-2 = ISO 4401 size 16 interface: flow up to 200 l/min, pressure up to 350 bar.

JPR-3 = ISO 4401 size 25 interface: flow up to 300 l/min, pressure up to 350 bar.

Valves are designed to operate in hydraulic systems with hydraulic mineral oil or synthetic fluid having similar lubricating characteristics.

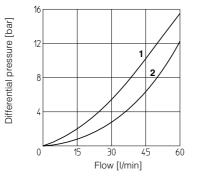
3 MAIN CHARACTERISTICS OF MODULAR CHECK VALVES TYPE HR, KR, JPR

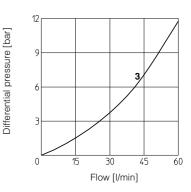
Assembly position	Any position
Subplate surface finishing	Roughness index $\sqrt{\frac{0.4}{4}}$, flatness ratio 0,01/100 (ISO 1101)
Ambient temperature	-20°C to + 70°C
Fluid	Hydraulic oil as per DIN 51524535, for other fluids see section 1
Recommended viscosity	15 ÷ 100 mm²/s at 40°C (ISO VG 15 ÷ 100)
Fluid contamination class	ISO 19/16, achieved with in line filters at 25 μm value and $~\beta_{25} \geq 75$ (recommended)
Fluid temperature	-20°C +60°C (standard and /WG seals) -20°C +80°C (/PE seals)

4 DIAGRAMS OF HR-0 based on mineral oil ISO VG 46 at 50°C

Flow through check valve:

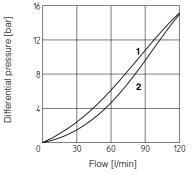
- $1 = A \rightarrow A_1; B \rightarrow B_1 \text{ of}$ HR-012, HR-013, HR-014 $2 = A_1 \rightarrow A; B_1 \rightarrow B \text{ of}$
- HR-012, HR-013, HR-014
- **3** = HR-011, HR-016

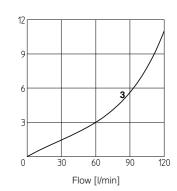




5 DIAGRAMS OF KR-0 based on mineral oil ISO VG 46 at 50°C Flow through check valve: 16

- **1** = A→A1; B→B1 of KR-012, KR-013, KR-014
- **2** = A1→A; B1→B of KR-012, KR-013, KR-014
- **3** = KR-011, KR-016

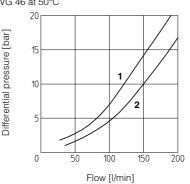




Differential pressure [bar]

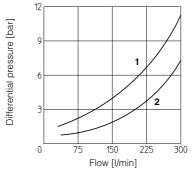
DIAGRAMS OF JPR-2 based on mineral oil ISO VG 46 at 50°C
Flow through check valve: 20

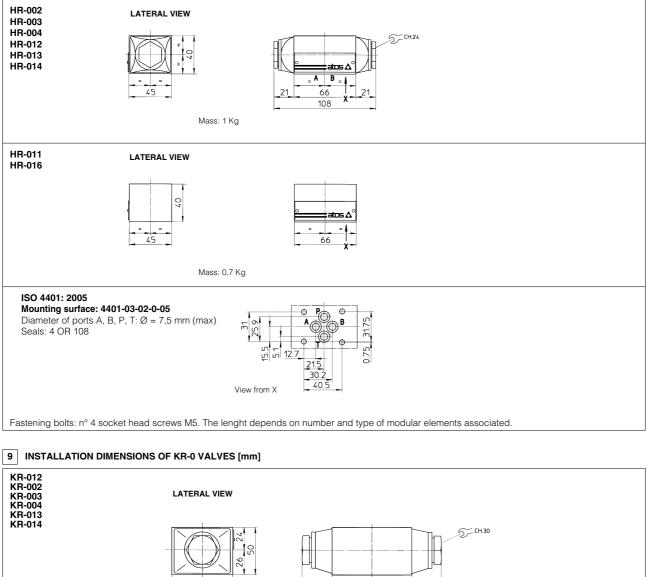
- $1 = A \rightarrow A_1; B \rightarrow B_1 \text{ of} \\ JPR-212, JPR-213, JPR-214$
- **2** = A1→A; B1→B of JPR-212, JPR-213, JPR-214

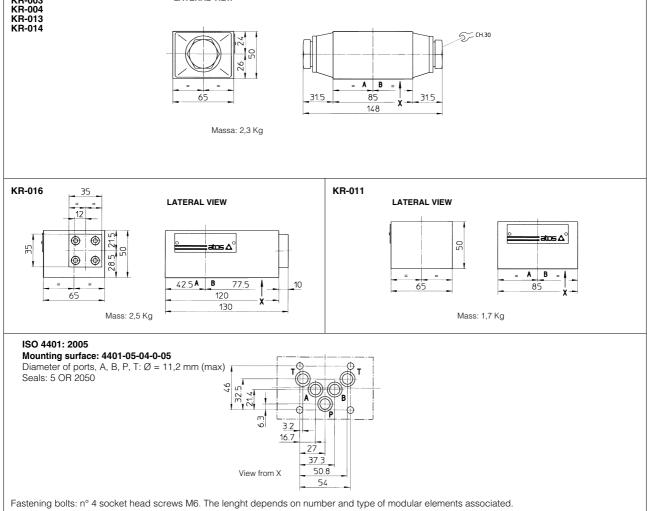


7 DIAGRAMS OF JPR-3 based on mineral oil ISO VG 46 at 50°C Flow through check valve:

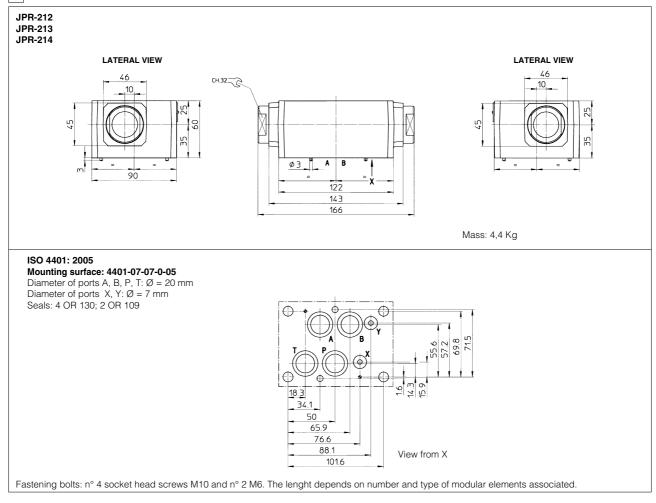
- **1** = A→A1; B→B1 of JPR-312, JPR-313, JPR-314
- **2** = A1→A; B1→B of JPR-312, JPR-313, JPR-314







10 INSTALLATION DIMENSIONS OF JPR-2 VALVES [mm]



11 INSTALLATION DIMENSIONS OF JPR-3 VALVES [mm]

