21 090/121 ED





SEAT DIMENSIONS: 3/4 - 16 UNF - 2B (SAE 08)



PLK08 DIRECT OPERATED PRESSURE RELIEF VALVE SERIES 10

CARTRIDGE TYPE

seat 3/4-16 UNF-2B (SAE 08)

p max 400 bar Q max 3 l/min

OPERATING PRINCIPLE



— The circuit pressure acts on the shutter which is directly loaded by a spring on the opposite side. Once the set pressure is reached, the shutter opens, and discharges the excess flow in port 2 connected directly to the reservoir.

- Six pressure control ranges are available, from 35 bar to 350 bar.
- The pressure is adjustable by a socket set screw with locking nut, or by knob.

PERFORMANCES

(measured with mineral oil of viscosity 36 cSt at 50 °C)

Max working pressure	bar	400
Minimum controlled pressure	see diagrams	
Maximum flow rate	l/min	3
Ambient temperature range	°C	-20 / +60
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass	kg	0.15
Surface treatment: electrolytic zinc covering	IS0 2081 - Fe/Zn12/A	

HYDRAULIC SYMBOL



1 - IDENTIFICATION CODE



2 - CHARACTERISTIC CURVES

(values obtained with viscosity of 36 cSt at 50 °C)



3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.

The fluid must be preserved in its physical and chemical characteristics.

4 - OVERALL AND MOUNTING DIMENSIONS





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