PILOT OPERATED

PRESSURE CONTROL VALVE

CRQ

SERIES 12

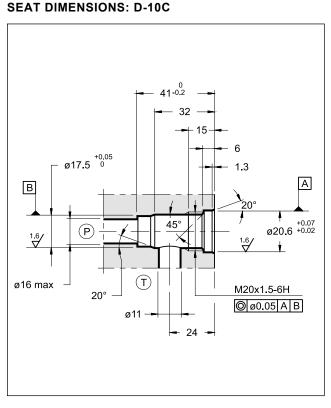


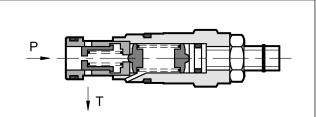


CARTRIDGE TYPE

p max 350 bar Q max 100 l/min

OPERATING PRINCIPLE



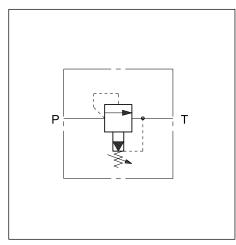


- The CRQ valve is a pilot operated pressure control valve cartridge type that can be used in blocks or panels with D-10C type seat.
- It is normally used to control the hydraulic circuit pressure and allows use of the entire flow of the pump even at pressure values near the set value.
- It is available in four different pressure control ranges up to 350 bar.
- It consists of a main balanced type spool and a pilot stage. The main spool, normally closed, opens when the circuit pressure exceeds the set value generated by the pilot stage, discharging the excess flow in port T, directly connected to the tank.
- The pressure is adjustable with a screw, usually supplied as the countersunk hex type, equipped with locking nut and with maximum adjustment limiter.

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

| Max working pressure | bar | 350 |
|---|---|-----------|
| Minimum controlled pressure and pressure drop | see diagram | |
| Maximum flow rate | l/min | 100 |
| 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 | 0,16 |
| Surface treatment:electrolytic zinc covering | Fe/Zn8/B ISO 2081 | |

HYDRAULIC SYMBOL

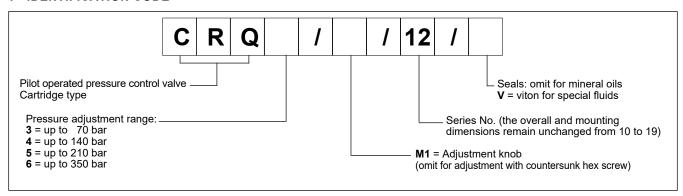


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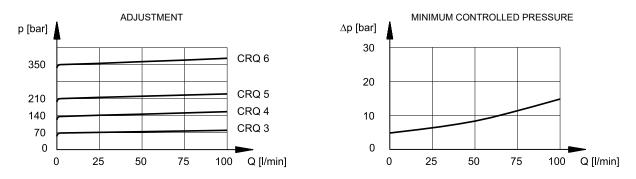




1 - IDENTIFICATION CODE



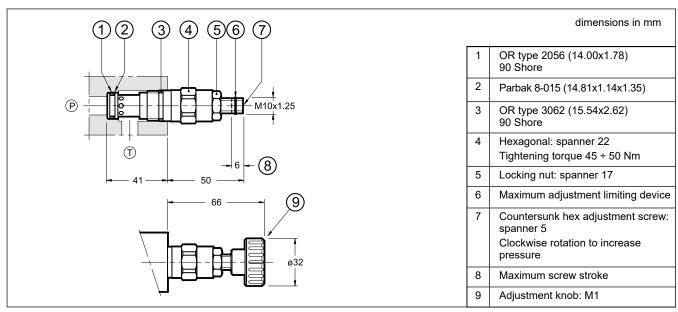
2 - CHARACTERISTIC CURVES (values obtained with viscosity of 36 cSt at 50°C)



3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. 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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