



CD1-W

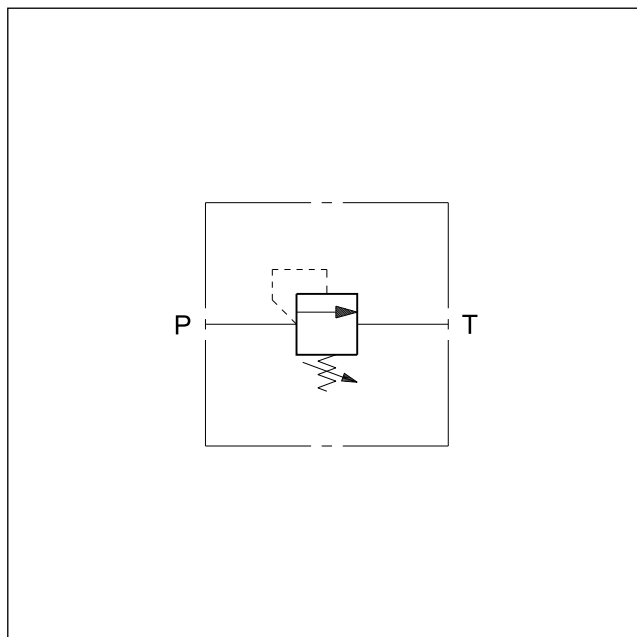
DIRECT OPERATED PRESSURE CONTROL VALVE SERIES 10

THREADED PORTS

p max **350** bar

Q max **3** l/min

HYDRAULIC SYMBOL



OPERATING PRINCIPLE

- The CD1-W valve is a direct operated pressure control valve with threaded ports and for flange mounting installation.
- It is used also for remote piloting of control valves and two-stage pressure reducers.
- It is available in four different pressure control ranges up to 350 bar.
- It is normally supplied with a countersunk hex adjustment screw, a locking nut and a maximum adjustment fastener.

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

Maximum operating pressure	bar	350
Minimum controlled pressure	see diagram	
Maximum flow rate	l/min	3
Ambient temperature range	°C	-20 / +50
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Recommended filtration		according to ISO4406:1999 class 20/18/15
Recommended viscosity	cSt	25
Mass	kg	1,2



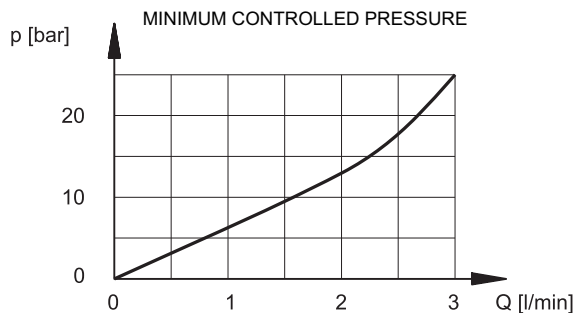
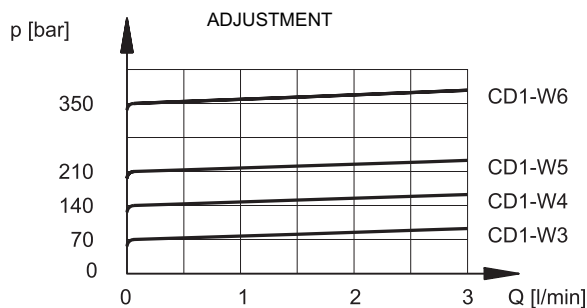
CD1-W

SERIES 10

1 - IDENTIFICATION CODE

<div><div>C</div><div>D</div><div>1</div><div>-</div><div>W</div><div></div><div>/</div><div></div><div>/</div><div>10</div><div>/</div><div></div></div>																	
Direct operated pressure control valve		Nominal dimension		Threaded ports: 1/4" NPT		Pressure adjustment range: 3 = up to 70 bar 5 = up to 210 bar 4 = up to 140 bar 6 = up to 350 bar		Seals: omit for mineral oils V = viton for special fluids									
								Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)									
								M1 = Adjustment knob (omit for adjustment with countersunk hex screw)									

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

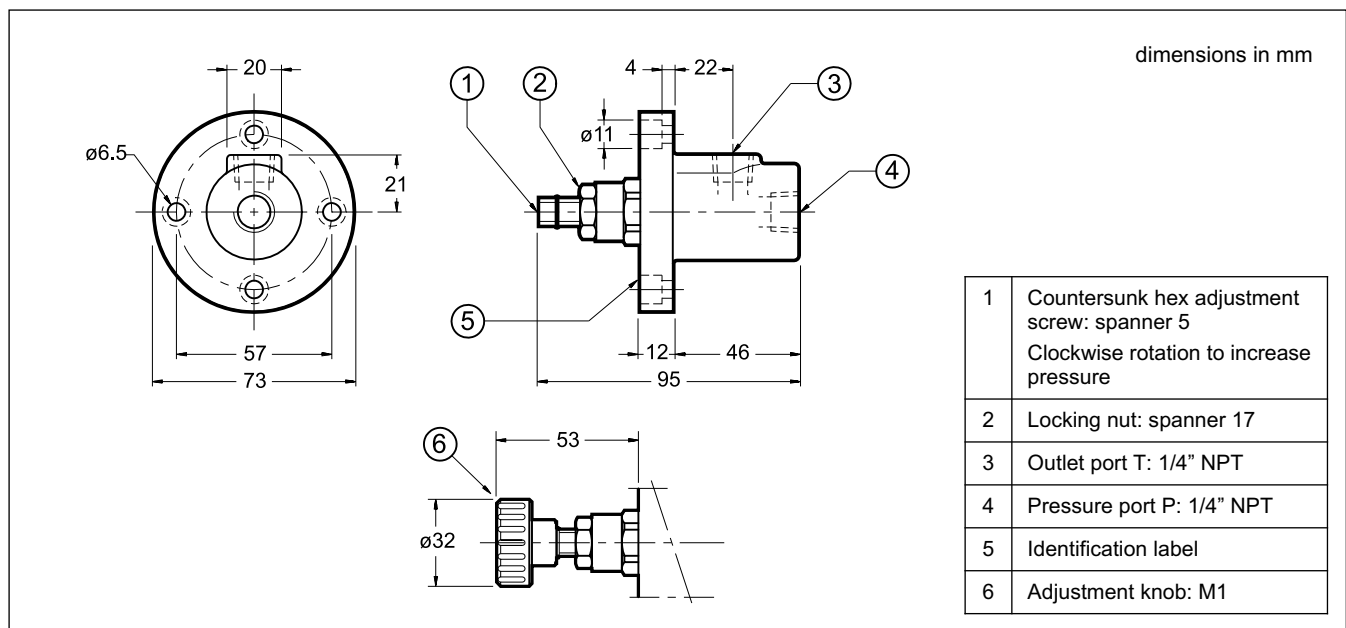


3 - HYDRAULIC FLUIDS

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



DIPLOMATIC OLEODINAMICA S.p.A.

20015 PARABIAGO (MI) • Via M. Re Depaolini 24

Tel. +39 0331.895.111

Fax +39 0331.895.339

www.diplomatic.com • e-mail: sales.exp@diplomatic.com