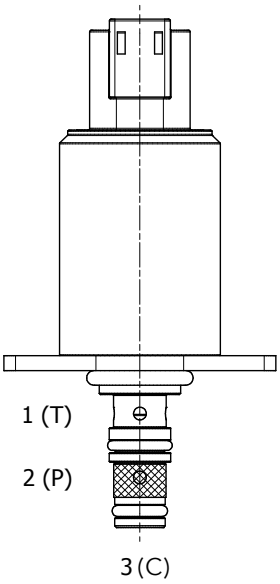
IP-DAR-250 DIRECT ACTING PROPORTIONAL, PRESSURE REDUCING/RELIEVING, SLIP-IN TYPE



DESCRIPTION

Special cavity, slip-in style flange retained, direct acting proportional, pressure reducing/relieving valve.

OPERATION

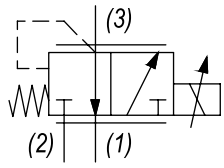
The IP-DAR-250 generates a variable pressure in response to a PWM (Pulse Width Modulated) current signal. With no current applied to the proportional solenoid, the inlet port 2 (P) is blocked and the regulated port 3 (C) is vented to port 1 (T). As current is increased, fluid pressure is proportionally controlled at the regulated port 3 (C). On attainment of proportionally determined pressure at 3 (C), the cartridge shifts to block flow at 2 (P), thereby regulating pressure at 3 (C). In this mode, the valve also will relieve 3 (C) to 1 (T) at a variable value over the set reducing pressure.

FEATURES

- Slip-in style.
- Efficient wet-armature construction.
- Integral waterproof coil.
- Continuous duty rated solenoid.

Flanged retained product. The coil is an integral part of the valve and is not serviceable. Eventual tank pressure exceeding o bar, has to be added to reduced pressure value.

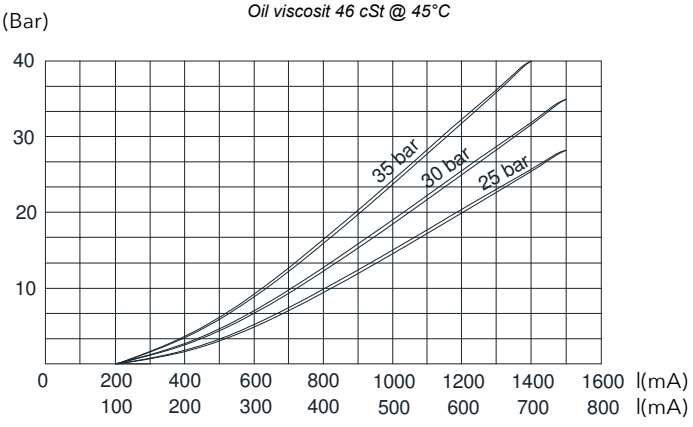
HYDRAULIC SYMBOL



PERFORMANCE

Pressure Vs. Current Characteristic

Oil viscosit 46 cSt @ 45°C



VALVE SPECIFICATIONS

Nominal Flow	1 GPM (4 LPM) @ 8 bar Delta P
Max Inlet Pressure "L" version	700 PSI (50 bar)
Controlled Pressure Range	0÷25 bar / 0÷30 bar / 0÷35 bar (see graph)
Reduced Pressure Tolerance	±5%
Max Back-Pressure at T Port	30 bar
Internal Leakage	15 ml/min @ 500 PSI (35 bar) inlet
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/15/13
Media Operating Temp. Range	-30°C / +100°C
Weight	.43 lbs (.20 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cavity	T250
Cavity Tool Kit	K-T250
Flange Mounting Screws and Torque	M4x10 / 3ft-lbs (4 Nm)

COIL SPECIFICATIONS

Current Supply Characteristics		PWM (Pulse Width Modulation)
Rated Current Range		200÷1500 (12 V coil) 100÷750 (24 V coil)
PWM or Super-Imposed Dither Freq.		100-200 Hz
Coil Resistance	(12 VDC)	4.8 Ohm ±5% at 68°F (20°C)
	(24 VDC)	20 Ohm ±5% at 68°F (20°C)
Max Power Consumption		11 Watt (20°C)
Coil Termination		Deutsch-Integral DT04-2P (DT) AMP Jr. Timer 84-9419 (AJ)
Color Connectors		Black
Protection Degree (according to IEC 529)		IP 69K (DT) IP 67 (AJ)

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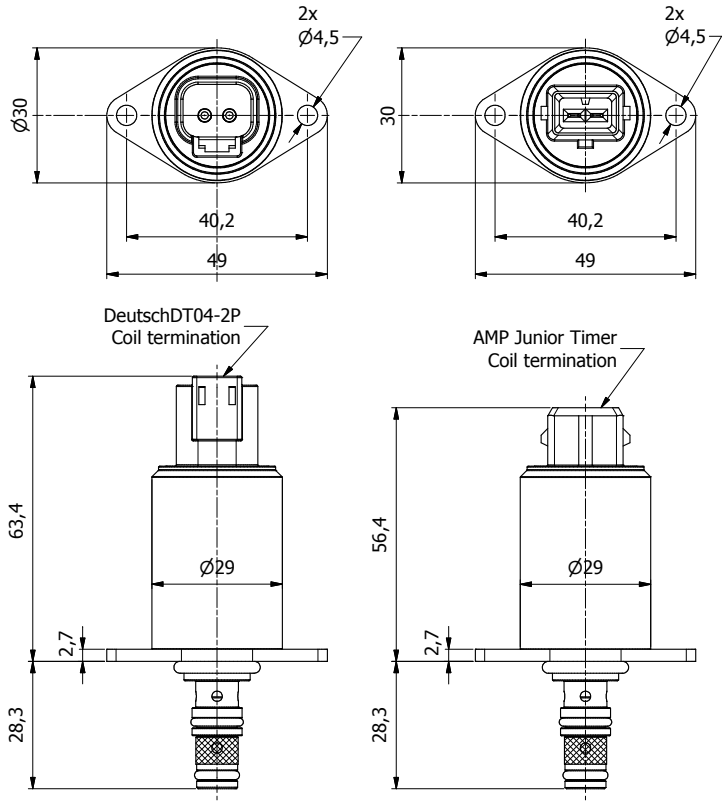
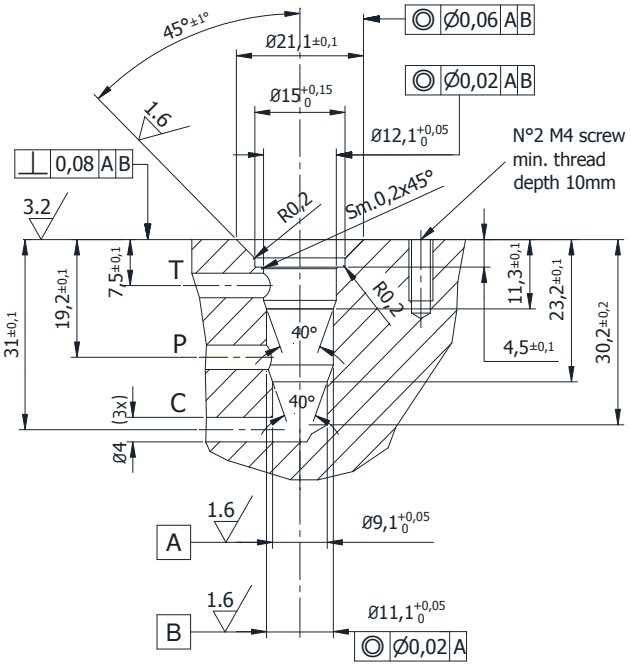
DIMENSIONS





ORDERING INFORMATION

IP-DAR-250 – ____ – ____ – ____ – ____

COIL TERMINATION	VOLTAGE	INLET PRESSURE	MAX REGULATED PRESSURE	OPTIONS	BODIES
AJ - AMP Jr. Timer	**12** VDC	**L** - up to 700 PSI (50 bar)	**20** bar	**A0** - NBR seals and 300 µm (50 mesh) screen on port 2	**Blank** - Without body
DT - Deutsch DT04	**24** VDC		**25** bar		**N** - 1/4" BSP Ports
			32 bar		

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