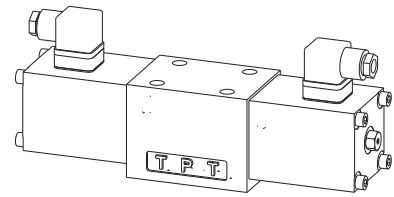


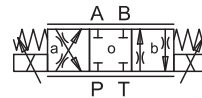
Proportional directional control valve

- direct operated
- $Q_{max} = 90$ l/min
- $Q_N = 65$ l/min
- $p_{max} = 350$ bar

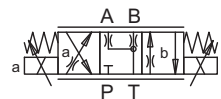
NG10
 ISO 4401-05

TYPE CODE

 WDPFA10 - - 65 - G24 - Z436

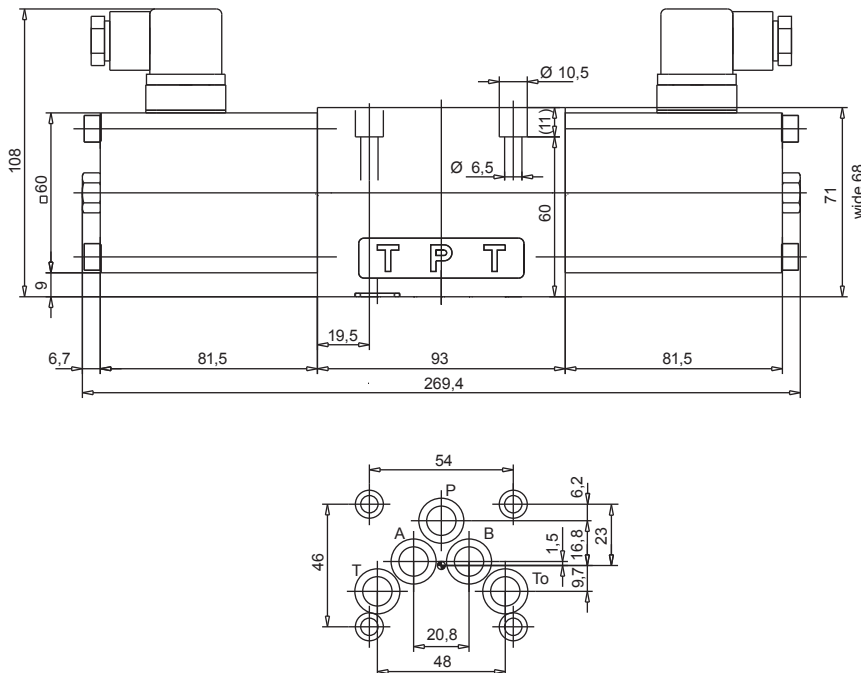
 ACB - S
 ADB - V

SYMBOL

ACB - S

S = Symmetrical control mode


ADB - V

V = Meter-in control mode

DIMENSIONS

GENERAL SPECIFICATIONS

Nominal size	NG10 acc. to ISO 4401-05
Description	4/3-way proportional-control valve
Construction	Direct operated spool valve
Mounting	Flange, 4 fixing holes for socket head cap screws M6x70
Fastening torque	$M_D = 9,5$ Nm (screw quality 8.8)
Connections	Connection plates, Multi-station flange subplate, Longitudinal stacking system
Mounting position	any, preferably horizontal
Ambient Temperature	-20...+50° C
Weight 4/3-way	6,76 kg

HYDRAULIC SPECIFICATIONS

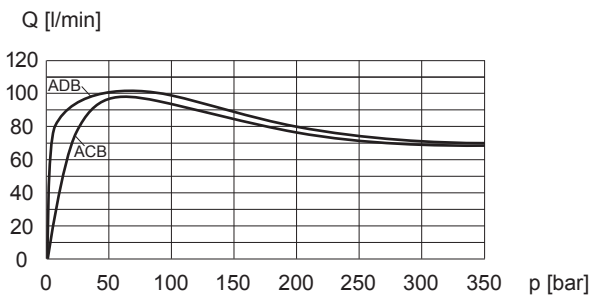
Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, classe 18/16/13 (Required filtration grade $\beta_{6...10} \geq 75$) refer to data sheet 1.0-50/2
Viscosity range	12 mm ² /s...320 mm ² /s
Fluid temperature	-20... +70° C
Working pressure	$p_{max} = 350$ bar (connections P, A, B)
Tank pressure	$p_{max} = 160$ bar (connection T)
Nominal volume flow	$Q_N = 65$ l/min ($Q_{max} = 90$ l/min)
Leakage volume flow	on request
Hysteresis	10 %* * at optimal dither signal

ELECTRICAL SPECIFICATIONS

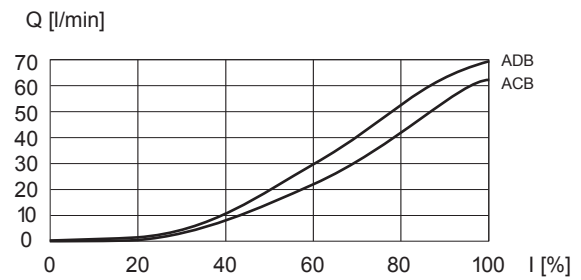
Construction	Proportional solenoid, wet pin push type, pressure tight.
Standard-Nominal voltage	U = 24 VDC
Limiting current	I _G = 1150 mA
Relative duty factor	100% DF (see data sheet 1.1-430)
Protection class	IP 65 acc. to EN 60529
Connection/ Power supply	Over device plug connection to ISO 4400/DIN 43650 (2P+E)
Other electrical specifications	see data sheet 1.1-155 (PI60V)

CHARACTERISTICS Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$

Q = f (p) Volume flow pressure characteristics (s = 100%)



Q = f (I) Volume flow-adjustment-characteristics ($\Delta p = 10 \text{ bar}$)



$\Delta p = f (Q)$ Pressure loss/flow characteristics (s = 100%)

