PVG 32 Proportional Valve Group

PVG 32 technical data

Technical data for PVEO and **PVEM** (continued)

0.5 x U_{DC} Signal voltage (PVEM) neutral $A\text{-port} \leftrightarrow B\text{-port}$ $0.25 \cdot U_{DC}$ to $0.75 \cdot U_{DC}$ Signal current at rated voltage (PVEM) 0.25 mA 0.50 mA Input impedance in relation to 0.5 • UDC 12 ΚΩ 8 W Power consumption

Reaction time for PVEO and PVEM

Supply voltage	Function		PVEO, On/Off	PVEO-R, On/Off	PVEM, Prop. med.
Disconnected by means of neutral switch	Reaction time from neutral position to max. spool travel	max.	0.235 s	0.41 s	0.700 s
		rated	0.180 s	0.35 s	0.450 s
		min.	0.120 s	0.25 s	0.230 s
Disconnected by means of neutral switch	Reaction time from max. spool travel to neutral position	max.	0.175 s	0.33 s	0.175 s
		rated	0.090 s	0.27 s	0.090 s
		min.	0.065 s	0.25 s	0.065 s
Constant voltage	Reaction time from neutral position to max. spool position	max.	-	-	0.700 s
		rated	-	-	0.450 s
		min.	-	-	0.230 s
Constant voltage	Reaction time from max. spool travel to neutral position	max.	-	-	0.700 s
		rated	-	-	0.450 s
		min.	-	-	0.230 s
Hysteresis *		rated	-	-	20%

^{*} Hysteresis (control signal/spool travel) is indicated at rated voltage and f = 0.02 Hz for one cycle. (one cycle = neutral \rightarrow full A \rightarrow full B \rightarrow neutral)

Technical data for PVEA, PVEH and PVES

PVEA, PVEH and	PVES				
Supply voltage U _{DC}		rated	11 V to 32 V	12 V from to	
		range	11 V to 32 V		
		max. ripple	5%		
Current consumption at rated voltage		PVEH/PVES (PVEA)	0.57 (33) A @ 12 V	0.3 (17) A @ 24 V	
Signal voltage		neutral	$0.5 \times U_{DC}$ $.5 \times 12 = 6 \text{ V}$		
		A-port ↔ B-port	0.25 · U _{DC} to 0.75 · U _{DC} . 25 - •		
Signal current at rated voltage			0.25 mA to 0.70 mA		
Input impedance in relation to 0.5 • U _{DC}			12 ΚΩ		
Input capacitor			100 ηF		
Power consumption		PVEH/PVES (PVEA)	7 (3.5) W		
(PVEH/PVES)		Max. load	100 mA	60 mA	
	Active	Reaction time at fault	500 ms (PVEA: 750 ms)		
	Passive	Reaction time at fault	250 ms (PVEA: 750 ms)		