

ON/Off Actuation

With electrical ON/OFF actuation the main spool is moved from neutral to maximum stroke when power is connected.

PVEO, ON/OFF

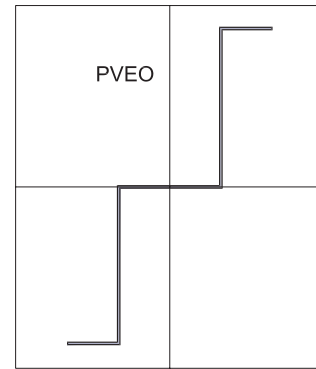
Main features of PVEO:

- Compact
- Robust operation
- With Hirschmann, Deutsch or AMP connector
- Low electrical power
- As option with directional indicator (DI)

PVEO-R, ON/OFF with hydraulic ramp

Like PVEO, but for applications where longer reaction time is needed.

With electrical proportional actuation the main spool position is adjusted so that it corresponds to an electrical signal – e.g. from a remote control unit.



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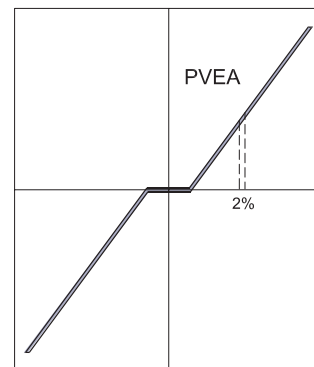
Proportional Actuation

PVEA, proportional fine

PVEA versions are recommended where among the requirements are fault monitoring, low hysteresis, high resolution but where the reaction time is not critical.

Main features of PVEA:

- Inductive transducer
- Integrated pulse width modulation
- Low hysteresis
- AMP or Deutsch connector
- As option with directional indicator (DI)
- Fault monitoring with transistor output for signal source.
- Low electrical power
- No set-up procedure



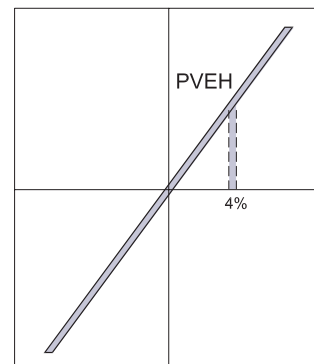
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PVEH, proportional high

Performance like PVEA but with fast reaction time.

Main features of PVEH:

- Inductive transducer
- Integrated pulse width modulation
- Low hysteresis
- Fast reaction time
- Hirschmann, Deutsch or AMP connector
- As option with directional indicator (DI)
- Fault monitoring with transistor output for signal source
- Low electrical power
- No set-up procedure



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Technical Data

The following technical data are from typical test results. For the hydraulic system a mineral based hydraulic oil with a viscosity of 21 mm²/s [102 SUS] and a temperature of 50° C [122° F] were used.

PVEO

		PVEO	
Supply voltage U _{DC}	rated	12 V DC	24 V DC
	range	11 V to 15 V	22 V to 30 V
	max. ripple	5%	

Reaction time PVEO (minus PVG 120)

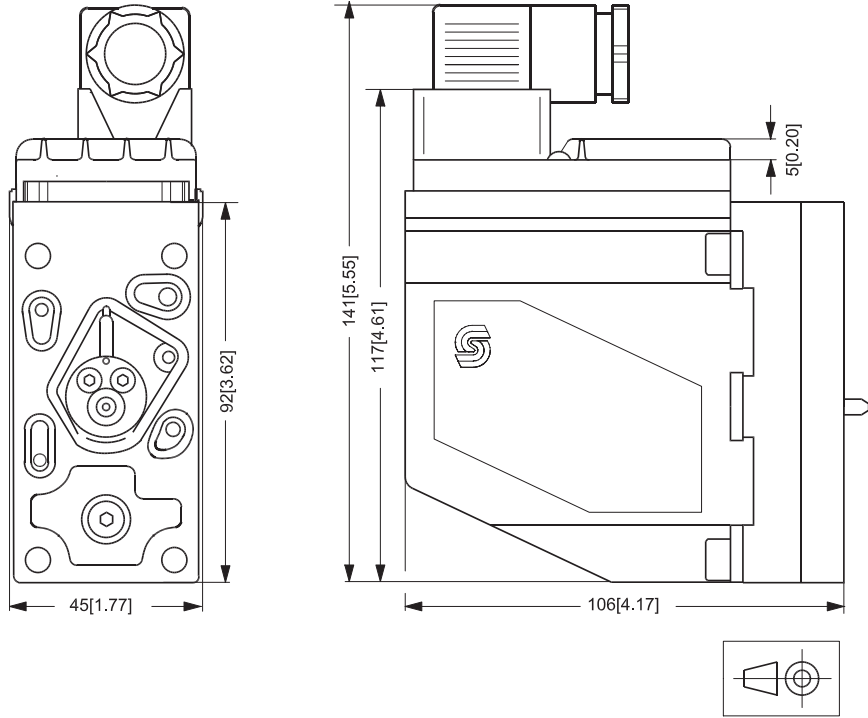
Supply voltage	Function		PVEO ON/OFF s	PVEO-R ON/OFF s
Disconnected by means of neutral switch	Reaction time from neutral position to max. spool travel	max.	0.235	0.410
		rated	0.180	0.350
		min.	0.120	0.250
Disconnected by means of neutral switch	Reaction time from max. spool travel to neutral position	max.	0.175	0.330
		rated	0.090	0.270
		min.	0.065	0.250

PVEA, PVEH and PVES

		PVEA, PVEH and PVES	
Supply voltage U _{DC}	rated	11 V to 32 V	
	range	11 V to 32 V	
	max. ripple	5%	
Current consumption at rated voltage	PVEH/PVES (PVEA)	0.57 (0.33) A @ 12 V	0.3 (0.17) A @ 24 V
Signal voltage	neutral	0.5 x U _{DC}	
	A-port ↔ B-port	0.25 • U _{DC} to 0.75 • U _{DC}	
Signal current at rated voltage		0.25 mA to 0.70 mA	
Input impedance in relation to 0.5 • U _{DC}		12 KΩ	
Power consumption	PVEH/PVES (PVEA)	7 (3.5) W	

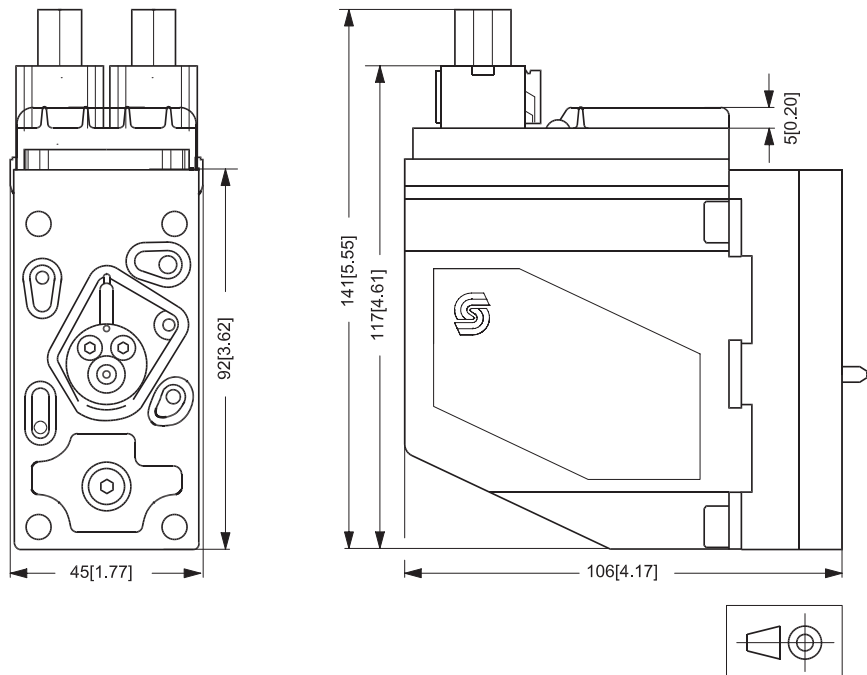
General Dimensions

PVE with Hirschmann connector



157-517.14

PVE with AMP connector



157-394.14

**Code Numbers for
 Use on PVG 32
 157B....**

PVE for PVG 32 and PVG 100

PVEO, ON/OFF actuation Code no. 157B....		Hirschmann connector 12 V 24 V		AMP connector 12 V 24 V		Deutsch connector 12 V 24 V	
PVEO	ON/OFF	4216, 4266*	4228, 4268*	4901	4902, 4272*	4291	4292
	ON/OFF with ramp	4217	4229	4903	4904	Not available	Not available
	PVEO-DI	Not available	Not available	4905	4906	Not available	Not available

PVEA/PVEH/PVES, proportional actuation Code no. 157B....		Hirschmann connector 11 - 32 V	AMP connector 11 - 32 V	Deutsch connector 11 - 32 V
PVEA	Standard, active fault monitoring	Not available	4734	4792
	Standard, passive fault monitoring	Not available	4735, 4775*	Not available
PVEA-DI	Standard, active fault monitoring	Not available	4736	4796
	Standard, passive fault monitoring	Not available	4737	Not available
PVEH	Standard, active fault monitoring	4032	4034, 4074*	4092
	Standard, passive fault monitoring	4033, 4073*	4035, 4075*	4093
	Float -> B, active fault monitoring	4332	Not available	4392
PVEH-DI	Standard, active fault monitoring	Not available	4036	4096
	Standard, passive fault monitoring	Not available	4037	Not available
PVES	0% hysteresis, active fault monitoring	4832	4834	4892
	0% hysteresis, passive fault monitoring	4833	4835, 4865*	Not available

* Anodized versions

PVED-CC, proportioanl actuation 157B....		AMP connector 11 V 32 V		Deutsch connector 11 V 32 V	
PVED-CC	ISOBUS	4943		4944	

PVEH-F, proportioanl actuation 157B....		AMP connector 11 V 32 V		Deutsch connector 11 V 32 V	
PVEH-F	Float -> A Active fault monitoring	4338		Not available	

PVEP, proportioanl actuation		Deutsch connector 11 V 32 V	
PVEP	Active fault monitoring	11034832	
PVEP-F	Float -> A Active fault monitoring	157B4753	