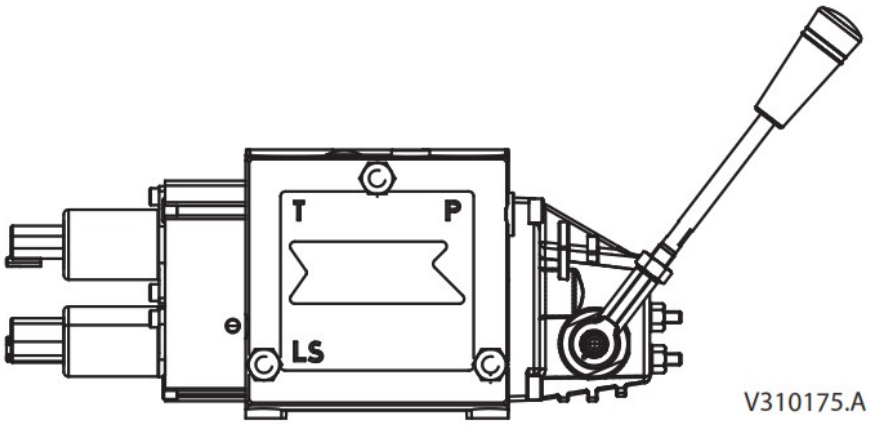
Danfoss L1407359 Electrical Actuating Module Pvhc Installation Guide

Installation Guide
PVG 16
Electrical Actuating Module PVHC



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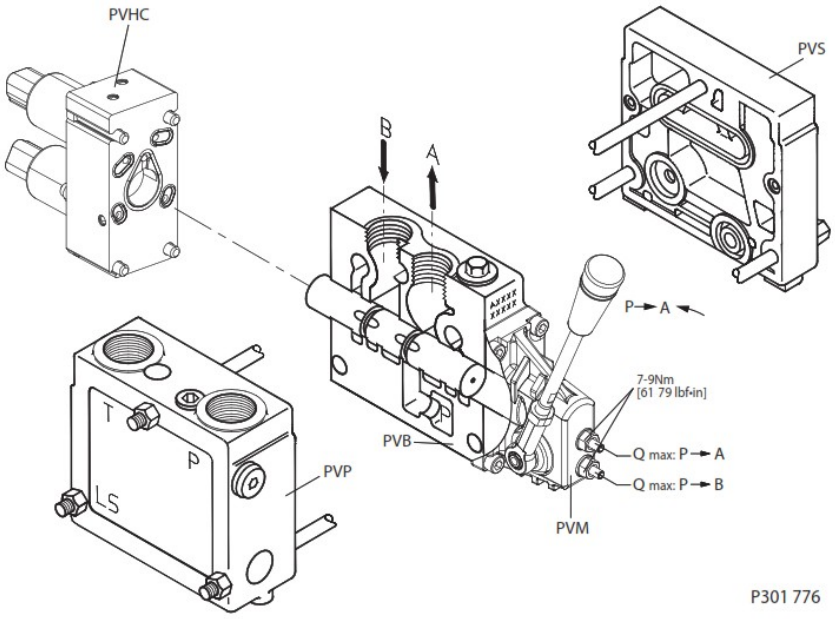
Oil flow direction for standard assembled groups



Technical data

Parameter	Control range	
	12 V	24 V
Controller output current range	0 – 1200 mA	0 – 600 mA
Spool resistance	1.0 Ω ± 5%	0.25 Ω ± 5%
Pressure control r ange	5 to 15 bar [72.5 to 217.5 psi]	

Oil viscosity

Oil viscosity	Range: 12 – 75 mm2/s [65 – 350 SUS] Min.: 4 mm2/s [40 SUS] Max.: 400 m m2/s [2130 SUS]

Filtering

Filtering in the hydraulic system	Max. permissible degree of contamination (ISO 4406), 1999 version): 23/19/16

Temperature

Ambient	Min: -30°C to 80°C [-22 to 176°F]
Medium	Max: -20°C to 80°C [-4 to 176°F]

Pilot pressure

Pilot pressure (over tank)*	Nom: 25 bar [363 psi] Min: 21 bar [305 psi] Max: 25 bar [363 psi]

* Designed to be used with hydraulic activated spools

Max tank pressure

Port T Static	25 bar [363 psi]
Port T Dynamic	30 bar [435 psi]

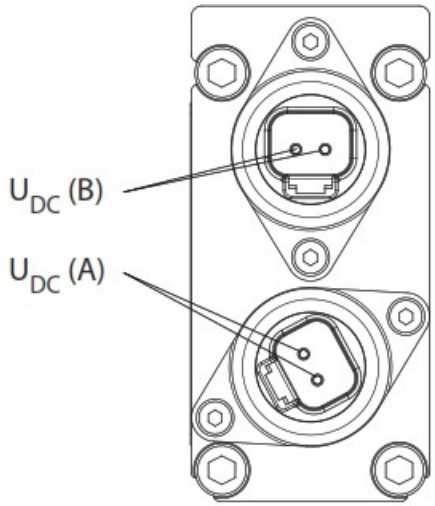
Enclosure

	Protection class
Deutsch DT	IP 67

The PVHC is produced in an environment using mineral based hydraulic oil

Activation

Deutsch Version



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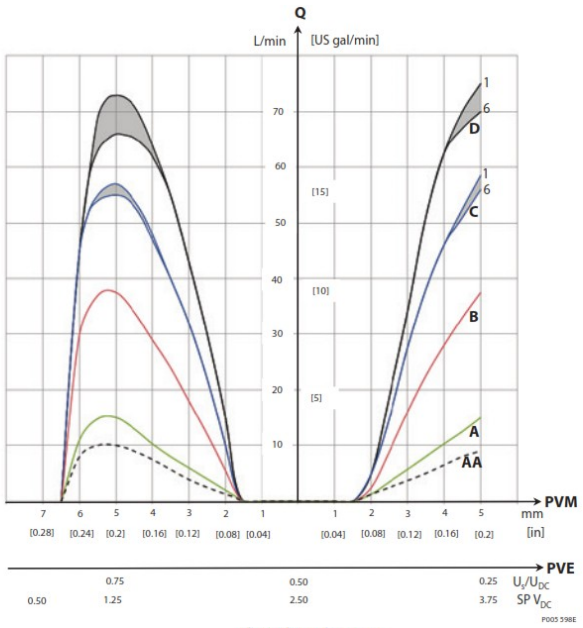
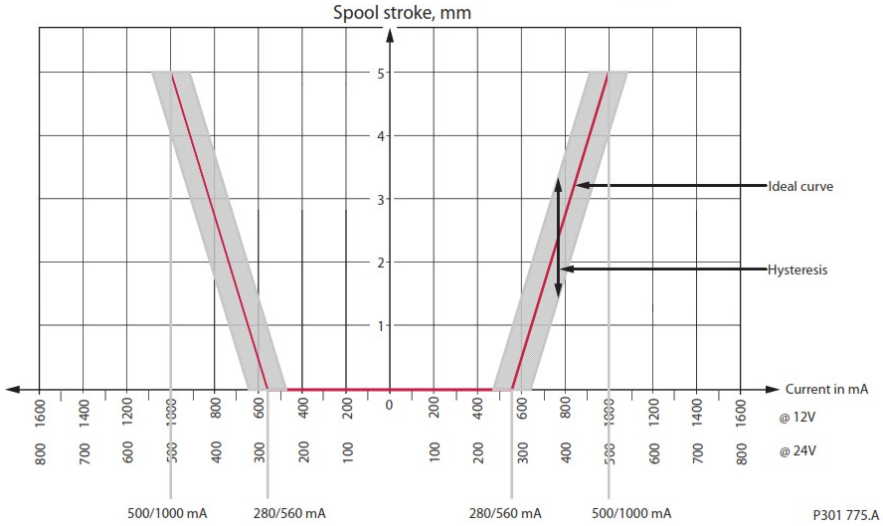
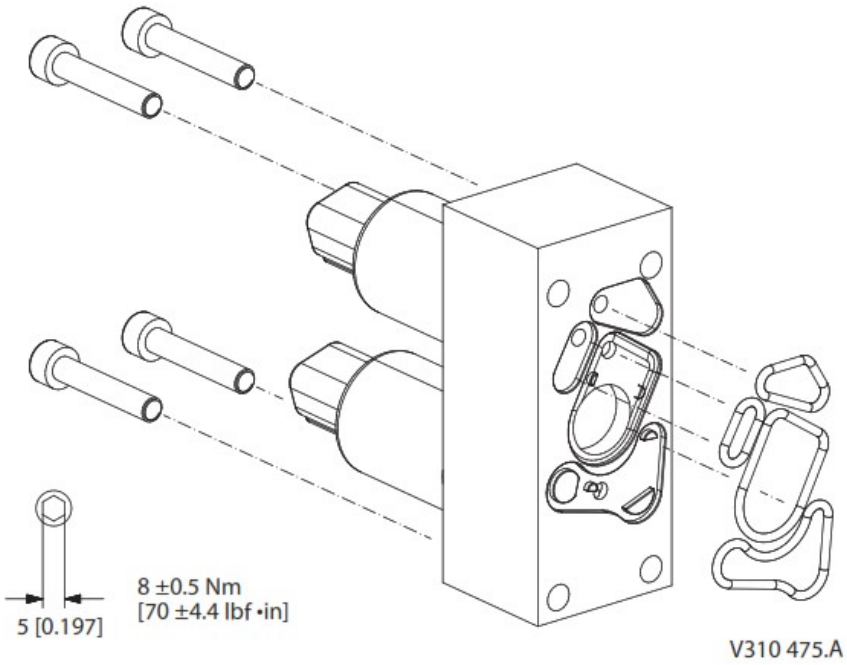
Parameter	Control range	
	12 V	24 V
Current	1 – 1200 mA	0 – 600 mA
Pressure control rang e	5 to 15 bar [72.5 to 217.5 psi]	





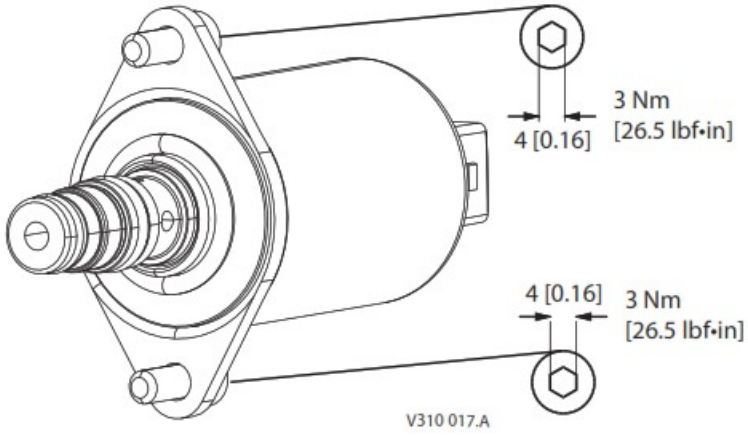
The ideal curve is determined by the main spool neutral spring.
The hysteresis is affected by viscosity, friction, flow forces, dither frequency and modulation frequency.

Installation of PVHC



NB: The seal in the PVHC connector and the seals for individual conductors are crucial for correctly sealing the connector.

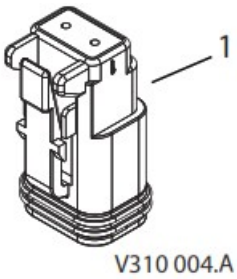
Installation of the solenoid valve as spare part



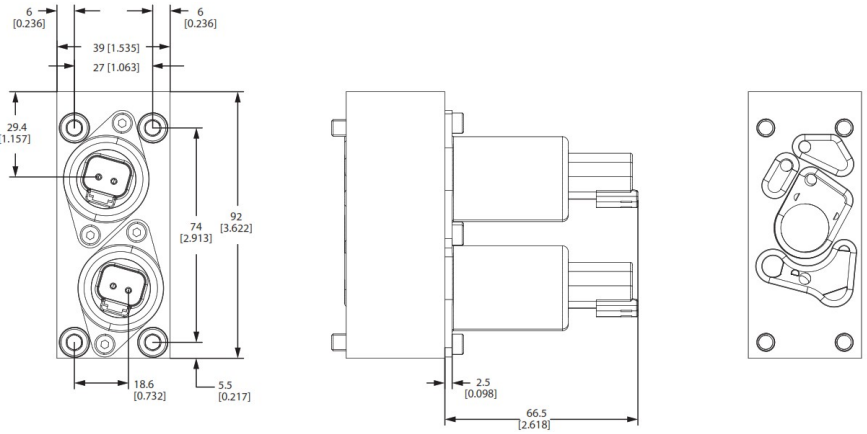
Connection

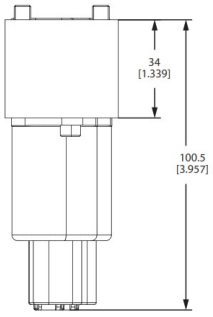
Deutsch version

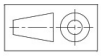
Pos.	Description	Qty	Deutsch code numbers
1	Housing	1	DT06-2S
1	Lock Part	1	W2S
1	Pin Contact	2	0462-201-16141 when SOC 16-18 AWG*
		2	0462-209-16141 when SOC 14-16 AWG*



Dimensions for Deutsch version







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Warning

All makes and all types of directional control valves – inclusive proportional valves – can fail and cause serious damage. It is therefore important to analyze all aspects of the application.

Because the proportional valves are used in many different operation conditions and applications, the manufacturer of the application is responsible for making the final selection of the products- and assuring that all performance, safety and warning requirements of the application are met. The process of choosing the control system – and safety level – could e.g. be governed by ISO 13849 (Safety related parts of control system).

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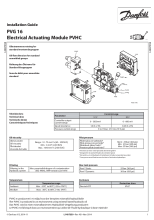
Documents / Resources

	Danfoss L1407359 Electrical Actuating Module Pvhc [pdf] Installation Guide L1407359, V310175.A, P301 776, L1407359 Electrical Actuating Module Pvhc, L1407359, Electrical Actuating Module Pvhc, Actuating Module Pvhc, Module Pvhc, Pvhc

References

- User Manual