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Data sheet

Power Pack Valve

VPH 15E





Data sheet | Power Pack Valve type VPH 15 E

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1. Introduction

Power Pack valve VPH 15 E is multifunction unit which reduces the costs of connections and hoses/tubes by incorporating the functions of a pressure relief valve and a directional control valve to provide a bypass function.

The pressure relief function is designed to limit the system pressure by draining surplus water flow from the pressure side, and to protect system components against overload as a result of pressure peaks. The valves are electrically-activated ON/OFF valves (closed (NC) or open (NO) when the coil is de-energized).

The VPH 15 E valve is designed for use with drinking water, i.e. water containing no additives of any kind. (See EU drinking water directive EU 98/83/EC).

2. Features

- High enclosure, IP 67
- Corrosion-proof materials (stainless steel, AISI 304/W.No. 1.4301 and plastic)
- The seat valve design ensures a tight seal
- Easy-to-clean surfaces.

3. Technical data

Adjustable pressure range	10-210 bar	
Nom. flow	15 l/min	
Max. flow	20 l/min	
Max. fluid temperature	50°C	
Opening time at nom. flow	90 ms	
Closing time at nom. flow	350 ms	
Pressure drop	see graph page 3	
Weight	3 kg	
Ambient temperature	0°C to +50°C	
Fluid temperature 1)	-30°C to +50°C	
Storage temperature	-40°C to +70°C	

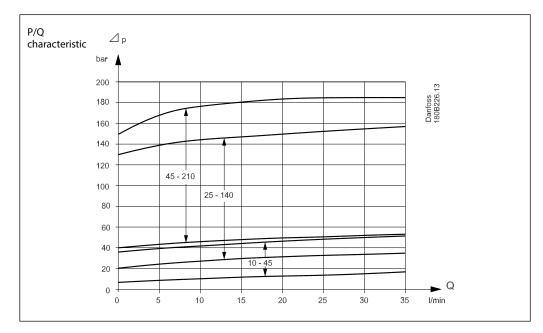
 $^{^{1)}}$ At fluid temperature below $+3^{\circ}$ C, antifreeze additives must be added to fluid.



Relief valve

Max. flow: 20 l/min

Pressure setting range: 10 to 40 bar, 25 to 140 bar, 45 to 210 bar

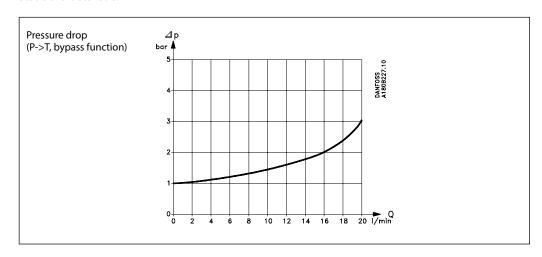


2/2-way valve

Max. flow: 20 l/min

Max. pressure for NO: 140 bar Max. pressure for NC: 210 bar

Static characteristic:



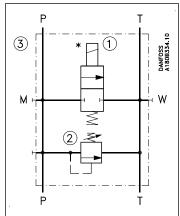


4. Description

3 * 1 SSOUNG W

VPH 15 E - NO





- P: G³% pressure from pump or pressure line to system
- T: G 3% tank return line from system or return line to filter
- M: G 3/8 (plugged)
 pressure gauge
- W: G ¼ (plugged) water inlet

No.	Item	Description
1	Directional valve	2/2-way valve, electrically activated
2	Pressure relief valve	Manuel setting
3	Power pack valve	Directional valve + relief valve

5. Filtration

The water supplied to the valve must be filtered: 10 μm abs., β_{10} -value > 5000 filter is recommended.

6. Code numbers

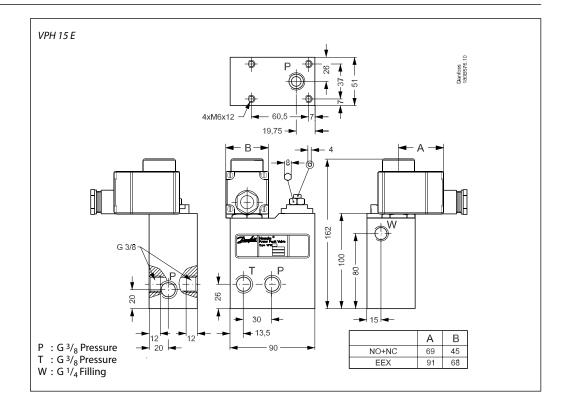
Power pack valve	Comments	Code No.		
VPH 15 E - NO	Pressure range 25 to 140 bar	180G0040		
VPH 15 E - NC	Pressure range 25 to 140 bar	180G0041		
VPH 15 E - NC	Pressure range 45 to 210 bar	180G0044		
VPH 15 E - NO	Pressure range 10 to 40 bar	180G0042		
* Coils for bypass valve, please order seperately				

Coil	Coils (clip-on) (NC + NO)
24 V/50 Hz/12 W	018F7920
220 V/50 Hz/12 W	018F7921
240 V/50 Hz/11 W	018F7924
24 V/60 Hz/14 W	018F7922
220 V/60 Hz/13 W	018F7925
240 V/60 Hz/15 W	018F7926
110 V/50/60 Hz/15 W	018F7923
12 V d.c./15 W	018F7913
24 V d.c./16 W	018F7914

For other voltages, please contact Danfoss Sales Organisation for High-Pressure Pumps.

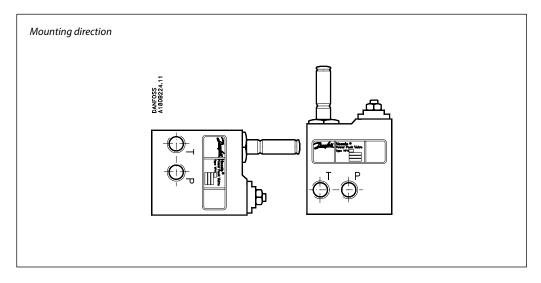


7. Dimensions [mm]



8. Installation

The valve must be installed as illustrated below.



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9. Spare parts

For the directional valve function	Code number
Armature kit NC	180L5002
Armature kit NC (210 bar) (for 180G0044)	180L5011
Armature kit NO	180L5010
Orifice kit for VPH 15 E	180Z0099
Poppet kit for VPH 15 E	180L5005
For the relief valve function	
Valve seat and cone kit (10-40 bar) & (25-140 bar)	180G4000
Valve seat and cone kit (45-210 bar)	180G4005
Seal and spring kit (10-40 bar)	180G4002
Seal and spring kit (25-140 bar) & (45-210 bar)	180G4004
Guide and guide pin	180G4001
Tool for dismount guide	180G4003

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