

VDH 2/2 solenoid valve for High Pressure and small flow



Applications

The valves are designed for applications with neutral and most aggressive fluids compatible with sealings and O-rings used. Typical media is water, cleaning fluid, neutral and aggressive gases. The valve is used in applications like High-Pressure humidification systems, dust binding, High-Pressure cleaning and saw blade lubrication.

Function

The solenoid valves is direct acting. They are activated by electrical coils to open and close.

Benefits

- Corrosion proof
- Reliability
- High temperature resistant
- Dirt tolerant
- Large coil program

Standard version

The valve housing is made of stainless steel AISI304.
The 1/4" inline valves are with straight flow through the valve.
The valve is available in both NC an NO, All types of solenoid coils can be used.

Data Sheet
VDH 2/2 solenoid valve for High Pressure and small flow
Temperature

Medium temperature range: 2 - 90°C
 Ambient temperature range: 2 - 60°C
 Storage temperature range: -40 - 70°C provided the valve is drained for liquid.

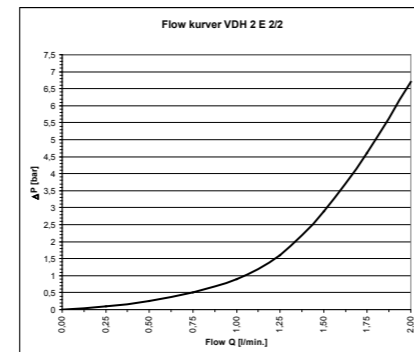
Code Numbers

Valves (without coils)	Passage in valve	Port size	Kv Valve [m³/h at 1bar ΔP]	Code no.
VDH 2E 2/2 NC	Straight	G 1/4"	0,063	180L0018
VDH 2E 2/2 NO	Straight	G 1/4"	0,063	180L0019

Technical Data

VDH 2 E 2/2	Values
Max Inlet pressure on port P cont. (NC version)	100 bar/1450 psi
Max Inlet pressure on port P cont. (NO version)	90 bar/1300 psi
Flow (pressure loss 7 bar)	2 l/min
Max. Flow (pressure loss 70 bar)	6 l/min
Max water temperature	90°C / 194°F option
Opening time	<100 ms
Closing time	<100 ms
Weight	0.5 kG

Pressure drop at different flows


Spare parts

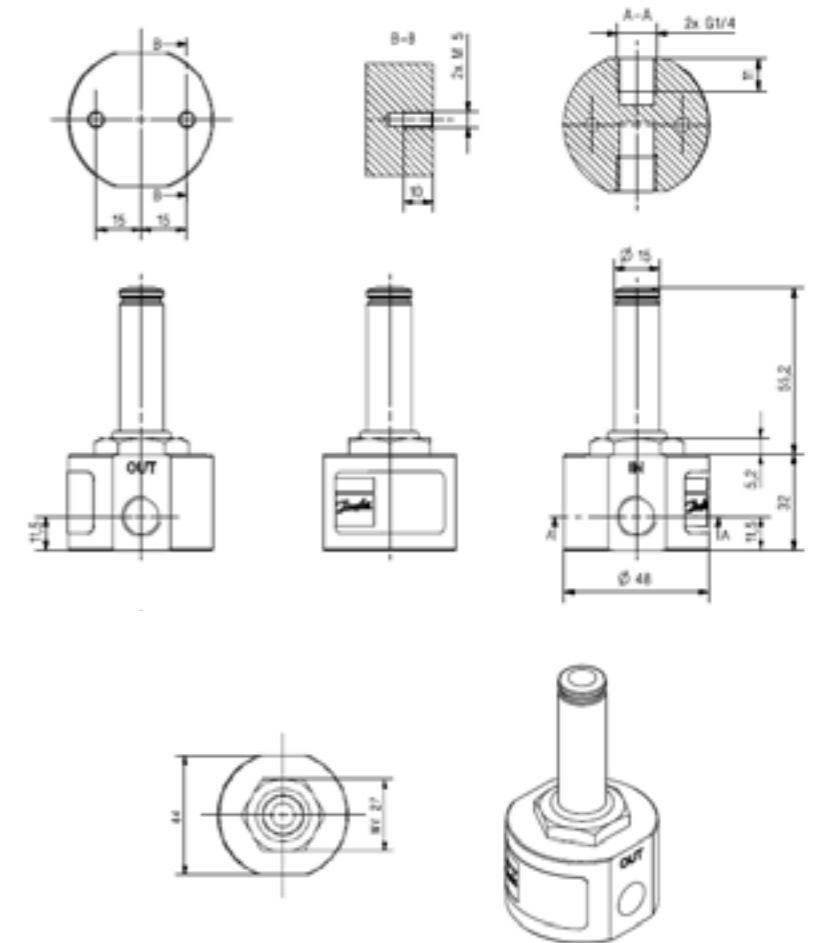
	Code number
Armature kit NC	180L5002
Armature kit NO	180L5010

Data Sheet
VDH 2/2 solenoid valves for High Pressure and small flow
Coils

Coils	Voltage	Code number
10 W a.c. with terminal box	24V 50 Hz	018F7920
10 W a.c. with terminal box	220V 50 Hz	018F7921
10 W a.c. with terminal box	240V 50 Hz	018F7924
10 W a.c. with terminal box	24V 60 Hz	018F7922
10 W a.c. with terminal box	110 V 50/60 Hz	018F7923
18 W d.c. with terminal box	12V DC	018F7913
18 W d.c. with terminal box	24V DC	018F7914
18 W d.c. with DIN spade terminals	24V 50 Hz	018F7928
UL recognized coils		
14 W a.c. with DIN spade terminals	24V 50/60 Hz	018F7907
14 W a.c. with DIN spade terminals	110 V 50/60 Hz	018F7909
14 W a.c. with DIN spade terminals	208-240V 50/60Hz	018F7908
DIN plug		180Z0183

For other voltages, please contact Danfoss Sales Organization for Water Hydraulics.

ATEX - consult the document "Solenoid valves intended for use in ATEX classified areas" 521B1101

Dimensional drawing


Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.



**DK-6430 Nordborg
Denmark**