

4/2-Way Solenoid Valves, DN 6 for Explosion-Hazard Areas Direct Acting

160 bar, 18 l/min

Protection class EEx d IIC T4 ... T6 in accordance with EN 50014 and 50018

Slip-on coil design, coils can be changed without opening hydraulic envelope

With manual override

Certificate of Conformity No. PTB 98 ATEX 1008

With ISO 4401 / CETOP R35H size 3, NFPA D03, DIN 24 340 A6 interface



Symbol



Technical Data

General Parameters

Designation:
Directional control valve

Design:
direct acting

Type of mounting:
manifold

Mounting position:
preferably horizontal
(vertical mounting makes air bleeding difficult)

Flow direction:
see symbol

Weight [kg]:
3,4

Ambient temperature range [°C]:
-25 ... +50

Size:
DN 6, ISO 4401 size 3 interface

Seals:
Nitril (NBR)

Hydraulic parameters

Operating pressure range [bar]:
max. 160 in P, A and B
max. 15 in T

Fluid temperature range [°C]:
-25 ... +80

Fluids:
HL and HLP hydraulic oils to DIN 51 524

Flow rate, Qmax [l/min]:
18

Viscosity range [mm²/s (cSt)]:
10 ... 500,
recommended 15 ... 250

Minimum fluid cleanliness level:
16/13 to ISO 4406 / CETOP RP70H;
8 ... 9 to NAS 1638

Further parameters

Solenoid type:
pressure-tight wet armature design

Nominal voltages:
24 VDC 230 VAC 50...60 Hz
+5%/-10% +5%/-10%

Nominal power consumption:
24 VDC = 7 Watt
230 VAC = 12 VA

Relative duty cycle [%]:
100

Max. core tube pressure (static) [bar]:
15

Enclosure protection:
EExd IIC T4...T6

Protection type and design:
IP 65 to EN 50014 and 50018

Electrical connection:
Valves (and solenoids) have M20 x 1.5 cable gland thread but are shipped without gland or cable.

If required, gland must be ordered separately.
Coils must be protected by a fuse whose maximum permissible rating is three times the nominal coil current.

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Ordering example

Type	Voltage	Cat. No.
S6DH0019G020001500	24VDC	1065220 7115 024 00
S6SD0019G020001500	230VAC	1065248 7126 230 50
S6DH0019G271001500	24VDC	1065503 7115 024 00

Further solenoids and tensions, please contact HERION Systemtechnik

To be ordered separately:

Cable entry gland **0618666**
Sandwich plate **0729516**

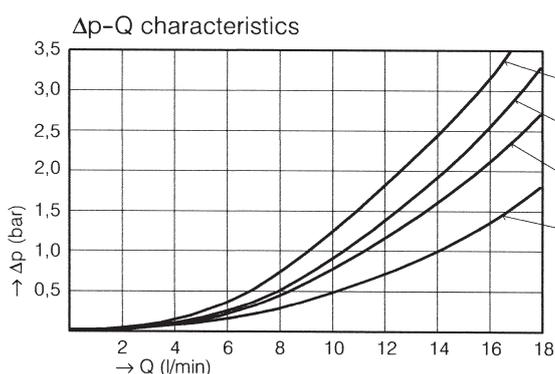
Description

Series EExd-6 spool valves are direct acting units. The main valve components are a steel body, a spring-centered spool and wet armature solenoids with pressure-tight core tube and a slip-on coil which is certified for use in explosion-hazard areas. The coil slips over the core tube and is retained by a knurled nut. The solenoid housing is

made of cast iron with spray painted finish. The solenoid armature is of the oil-immersed type. The solenoid housing is threaded M20 x 1,5 for a cable entry gland. The cable entry gland (which also must be certified to EN 50018) is not supplied with the valve and, if required, must be ordered as a separate item.

Performance graphs

Measured with oil viscosity 33 mm²/s (cSt) coil at steady-state temperature, 5% under-voltage



The quoted maximum flow rates apply when symmetrical flows pass through the valve. For non-symmetrical flows, the maximum flow rates are substantially reduced, in worst cases to only 25% of the above values.

Switching times
Solenoid ON: 90 ms
Solenoid OFF: 40 ms

These are guideline values only, and can be significantly affected by flow rate, pressure and oil viscosity.

P \Rightarrow A	B \Rightarrow T	P \Rightarrow B	A \Rightarrow T
1	2	3	4



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Distribution and Service

- in 75 countries through the Norgren service network

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