### 2/2-Way, Direct-acting, G1/8



### Advantages/Benefits

- ► FKM or EPDM Separating diaphragm isolates solenoid system from operating fluid
- Compact design
- Specific testing and cleaning available
- ► Short response time
- Electrical connection: DIN-plug or leads
- Body material: Stainless steel

# Design/Function

Type 200 is a direct-acting plungertype solenoid valve normally closed by spring action (circuit function A).

A diaphragm isolates the fluid from the solenoid system.

When energized, the solenoid armature is drawn against a spring to open the valve.

The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

Specific testing and cleaning and low power versions are available according to application requirements.

# **Applications**

- · Laboratory instruments
- Small-scale instrument
- Gas control instruments
- Shut-off, dosing, filling, ventilating
- Welding technology
- Difficult and slightly aggressive media

# Miniature Solenoid Valve with Isolating Diaphragm for Analytical Applications

### Technical Data

#### **Circuit Function**

A 2/2-way valve, normally closed



### **Operating Data (Valve)**

Pressure range max. 0-2 bar (see specifications)

Port connection Threaded port G 1/8"

(M5, subbase on request)

Orifice DN 1.2 - 2.4 mm

>DN 2.4 mm on request.

Fluid Difficult and slightly

aggressive media.

Medium temperature max. Max. ambient temperature +55 °C

Max. viscosity

Response times opening

closing

Installation

Suitable for techn. vacuum.

-10 to +70 °C

21 mm<sup>2</sup>/s

5-18 ms ca. 8 ms

as required, but preferably

with solenoid system upright

### **Operating Data (Actuator)**

AC 24, 110, 230 V/50 Hz, Operating voltages

DC 12, 24 V/=

Voltage tolerance ±10 %

Power consumption AC inrush AC hold | DC

6 VA/4 W 4 W<sup>1)</sup>

1) Power consumption DC 2 W on request

Duty cycle

Duty cycle for multiple

manifolds

100% continuously rated 60% for manifold mounting (30 min) or use 2W-version

IP 65

(on request)

Cycling rate up to 1000 c.p.m.

Protection class with

cable plug

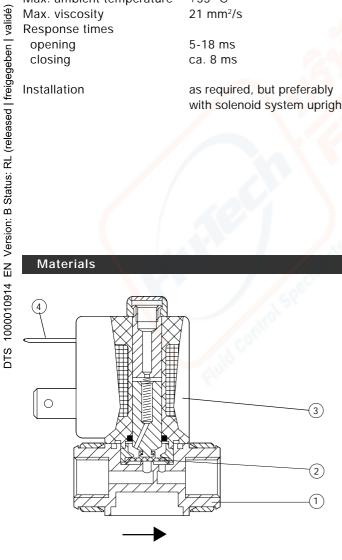
Electr. connection Delivery standard:

Cable plug DIN 43 650 B,

0-250 V.

Flying leads 300 mm length

### **Materials**



Valve body:

2 Isolating diaphragm:

3 Coil body:

Cable plug:

Stainless steel

FKM, EPDM

Ероху

PA (Polyamide)

⊕ WWW.FLUTECH.CO.TH

(C) + 66 (O) 2384-6060

+ 66 (0) 2384-5701

# Miniature Solenoid Valve with Isolating Diaphragm for Analytical Applications

# **Specifications - Ordering Chart (Other Versions on Request)**



### Stainless steel valve body, cable plug DIN 43 650 form B

Port	Orifice	Kv-Value	Pressure	Range <sup>1)</sup>	Seal	Weight	I T E M - No.			
connection		(water)	(AC)	(DC)	material		Voltage / Frequency [V/Hz]			]
	[mm]	[m³/h]	[bar]	[bar]		[kg]	12/DC	24/DC	110/50	230/50
G 1/8	1.2	0.045	0-2.0	0-2.0	EPDM	0.12	136 445 Q	136 447 J		
G 1/8	1.2	0.045	0-2.0	0-2.0	FKM	0.12	136 464 K	136 466 M		
G 1/8	1.6	0.06	0-1.5	0-1.5	EPDM	0.10	136 449 U	045 956 Y	136 460 T	13 <mark>6</mark> 461 Q
G 1/8	1.6	0.06	0-1.5	0-1.5	FKM	0.10	136 468 X	136 470 V	136 480 Q	136 481 D
G 1/8	2.0	0.11	0-1.0	0-1.0	EPDM	0.12	136 452 P	136 454 R	136 462 R	136 463 J
G 1/8	2.0	0.11	0-1.0	0-1.0	FKM	0.12	136 472 K	136 474 M	136 482 E	136 483 F
G 1/8	2.4	0.13	0-1.0	0-1.0	EPDM	0.09	136 456 K	136 458 V		
G 1/8	2.4	0.13	0-1.0	0-1.0	FKM	0.09	136 476 P	136 478 Z		

<sup>1)</sup> Pressure range against arrow direction = 0-0.3 bar

# Stainless steel valve body, coil with two flying leads, 300 mm length

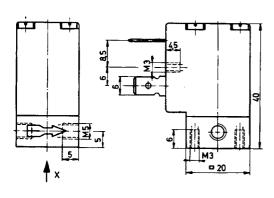
Port	Orifice	Kv-Value	Pressure	Range <sup>1)</sup>	Seal	Weight	ITEM-No.			
connection		(water)	(AC)	(DC)	material		Voltage / Frequency [V/Hz]			
	[mm]	[m <sup>3</sup> /h]	[bar]	[bar]		[kg]	12/DC	24/DC	110/50	230/50
G 1/8	1.2	0.045	0-2.0	0-2.0	EPDM	0.12	136 446 R	136 448 T		
G 1/8	1.2	0.045	0-2.0	0-2.0	FKM	0.12	136 465 L	136 467 N	0	
G 1/8	1.6	0.06	0-1.5	0-1.5	EPDM	0.10	136 450 Z	136 451 N		
G 1/8	1.6	0.06	0-1.5	0-1.5	FKM	0.10	136 469 Y	136 471 J		
G 1/8	2.0	0.11	0-1.0	0-1.0	EPDM	0.12	136 453 Q	136 455 J		
G 1/8	2.0	0.11	0-1.0	0-1.0	FKM	0.12	136 473 L	136 475 N		
G 1/8	2.4	0.13	0-1.0	0-1.0	EPDM	0.09	136 457 L	136 459 W		
G 1/8	2.4	0.13	0-1.0	0-1.0	FKM	0.09	136 477 Q	136 479 S		

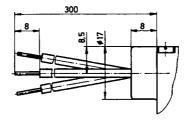
<sup>1)</sup> Pressure range against arrow direction = 0-0.3 bar

### **Options**

- PTFE/EPDM diaphragm
- Sub-base versions for manifold mounting
- Specific clean and testing
- · AC coils
- DN 1.2 mm (up to 2 bar)

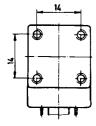
### Dimensions Solenoid Valve [mm]

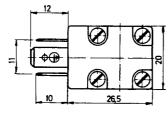




### Please note for G 1/8 port connection:

Body length 25 mm, overall height 48 mm, M5 connection is retained at R port





# Technical Data Cable Plug

Body material Contact material Cable outlet Isolation between cable plug and coil Temperature range Cable diameter Electr. connection

Poles

(released | freigegeben | validé) printed: 22.09.2017

씸

Status:

Version: B

Z E

DTS 1000010914

Nominal voltage Isolation group

Max. continuous current Contact resistance

Options

PA (polyamide) brass, tinned vertically to the plug bottom

gasket (NBR) -30°C ... +90°C 4.5 ... 7 mm terminal screws max. 1,5 mm<sup>2</sup> 2pole + protective earth 0-250 V (Standard)

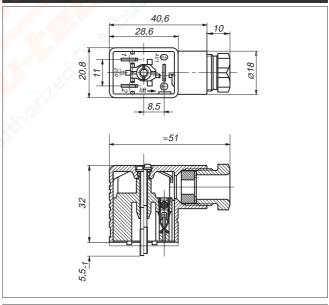
IP 65

16 A without wiring  $\leq 4 \text{ m}\Omega$ 

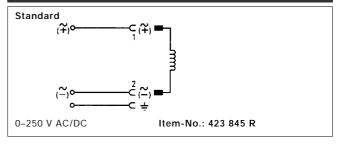
LED display Rectifier Varistor



# Dimensions Cable Plug [mm]



### Wiring Diagrams/Connection Specifications



In case of special application conditions, please consult for advice.

We reserve the right to make technical changes, without notice

902-GB/ 1-176