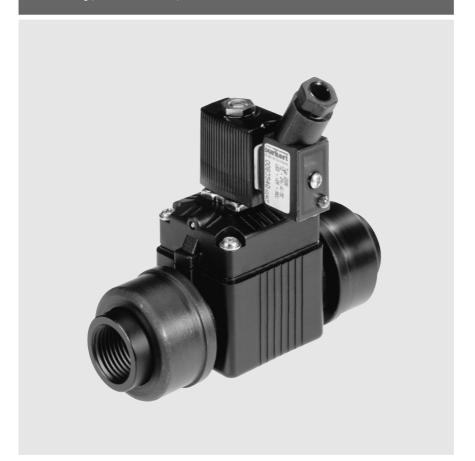
# 2/2-Way; G <sup>3</sup>/<sub>8</sub>" - <sup>1</sup>/<sub>2</sub>"; PN 0.5 - 10.0 bar



## Advantages/Benefits



- Low power consumption, no relay necessary when used on a PLC
- ▶ Medium is separated from the actuator system
- ▶ Compact size
- Low weight
- ► Radially interchangeable
- ► Easy Flow Control System Module

## **Design/Function**

Type 6228 is a servo-assisted 2/2-way plastic solenoid valve with a separating servo diaphragm.

It is based on a modular concept with push-over coil and standard cable plug. The valve is normally closed by spring force. Energized, the solenoid opens the pilot valve first. Then the medium pressure opens the valve against the pressure drop above the diaphragm.

The valve is radially interchangeable.



Optimised point-to-point connection between Burkert-Sensors and Actuators



Ability of communication with conventional controlling or Fieldbus connections

# **Applications**

#### **Fluids**

 Neutral fluids, which do not affect plastic material, e.g. pressurized air, water, hydraulic oils, oils or fat without additives

### **Applications**

- General purpose applications
- Water and sewage treatment
- Irrigation systems
- Public hygiene
- Medical service

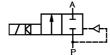


#### **Technical Data Type 6228**

#### **Circuit function**

#### **Symbol**

A 2/2-way, normally closed, with 2-way pilot control and coupled solenoid system



## **Operating Data (Valve)**

0.5 - 10.0 bar Pressure range Port connection G 3/8" - G 1/2" Fluid Neutral fluids, e.g. town gas, natural gas, Medium temperature

NBR sealing EPDM sealing FPM sealing Max. ambient temperature Max. viscosity

Flow rate (Kv value water) [m<sup>3</sup>/h]

Pressure rate [bar] Response times [ms]

Opening pressure raise Closing pressure drop Installation

water, compressed air, hydraulic and other oils

 $0^{\circ}$  up to  $+50^{\circ}$ C -10° up to +50°C  $0^{\circ}$  up to  $+50^{\circ}$ C +50° C 21 mm<sup>2</sup>/s

Measured at +20°C, 1 bar pressure at valve inlet port and open outlet port Overpressure to atmospheric pressure

Measured at +20°C, 6 bar

pressure at outlet port 0% to 90% 100% to 10%

as required, but preferably with solenoid system upright

# **Operating Data (Actuator)**

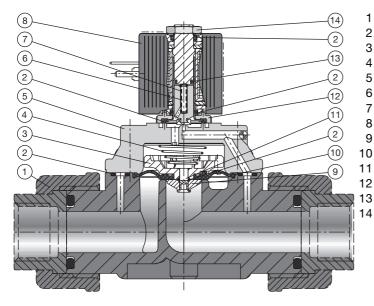
Operating voltages DC 24 V AC 24, 110, 230 V/50 Hz Voltages tolerance ±10 % Power consumption DC AC Inrush 4 W 9 VA 6 VA Hold 4 W 100% continuously rated Duty cycle up to 15 c.p.m. Cycling rate

Electr. connection Tag connectors sidewards acc. to DIN 43650, Form C

Cable plugs With type 2506, 0 - 250 V Standard delivery

(others, please see accessories) EaseOn technology Type 2510

## **Materials**



- PPE/PA (Noryl) 1 Valve body: 2 NBR. FPM and EPDM O-rings: **PPS**
- 3 Diaphragm support: 4 SS 1.4310 Spring: 5 Cover: PPE/PA (Noryl) 6 Plunger: SS 1.4105 7 SS 1.4310 Spring 8 Coil: PA

9 Diaphragm holder: Brass

Diaphragm: NBR, FPM and EPDM Bolt SS 1.4401 Flange: Zn3glcC (surface)

Shading rings: Cu

Locknut: 9SMnPb 28K (surface Zn5glcA)

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

With Standard Cable Plug Type 2506 - without Connector Sets (see Accessories)

Seal Material NBR, Temperature Range  $0^{\circ}$  up to +50°C, Pressure Range 0.5 up to 10.0 bar

Circuit	Orifice	Port	Kv-Value	Response Times		Weight	Item-No.						
Function	DN	Connection		Opening Closing			Voltage						
	[mm]		[m³/h]	[ms]	[ms]	[kg]	24V/DC	24 V/50Hz	110 V/50Hz	230V/50Hz			
Α	10	see	1.8	30	150	0.13	142 220 G	142 221 V	142 222 W	142 223 X			
	13	accessories	3.2	≤ 60	≤ 300	0.18	142 232 Y	142 233 Z	142 234 S	142 235 T			

With Standard Cable Plug Type 2506 - without Connector Sets (see Accessories)

Seal Material FPM, Temperature Range 0° up to +50°C, Pressure Range 0.5 up to 10.0 bar

Circuit	Orifice	Port	Kv-Value	Response Times		Weight	Item-No.					
Function	DN	Connection		Opening Closing			Voltage					
	[mm]		[m <sup>3</sup> /h]	[ms]	[ms]	[kg]	24V/DC	24 V/50Hz	110 V/50Hz	230V/50Hz		
Α	10	see	1.8	30	150	0.13	142 228 C	142 229 D	142 230 A	142 231 X		
	13	accessories	3.2	≤ 60	≤ 300	0.18	142 240 L	142 241 H	142 242 A	142 243 B		

With Standard Cable Plug Type 2506 - without Connector Sets (see Accessories)

Seal Material EPDM, Temperature Range -10° up to +50°C, Pressure Range 0.5 up to 10.0 bar

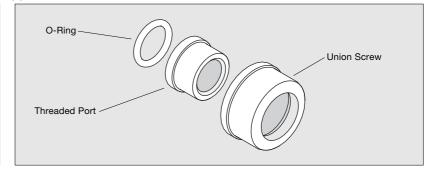
	Circuit	Orifice	Port	Kv-Value	Response Times		Weight	Item-No.					
	Function	DN	Connection		Opening Closing			Voltage					
		[mm]		[m³/h]	[ms]	[ms]	[kg]	24V/DC	24 V/50Hz	110 V/50Hz	230V/50Hz		
Ī	Α	10	see	1.8	30	150	0.13	142 224 Y	142 225 Z	142 226 S	142 227 T		
		13	accessories	3.2	≤ 60 ≤ 300		0.18	142 236 U	142 237 V	142 238 E	142 239 F		

#### Accessories

Connector Set, Material PPE/PA (Noryl)

Three-Piece Connector Set, Material PPE/PA (Noryl)

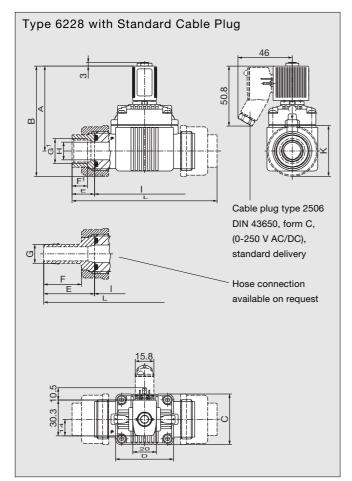
Orifice	Port	Seal	Item-No.				
DN	Connection	Material	Voltage				
		O-Ring					
[mm]	[inch]		24V/DC				
10	G 3/8	NBR	142 425 J				
		FPM	142 426 K				
		EPDM	142 427 L				
13	G 1/2	NBR	142 428 V				
		FPM	142 429 W				
		EPDM	142 430 T				

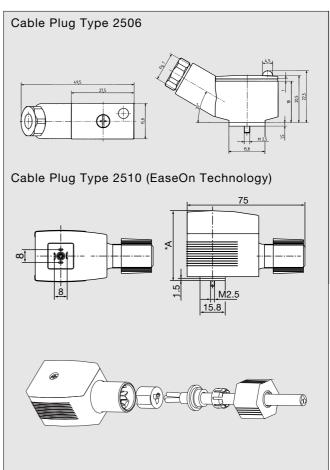


#### IMPORTANT!

2 Connector Sets are necessary per valve.

## Dimensions [mm]





	Measurements Threaded Conn.				Measurements Hose Conn.				Measurements						
	G¹	E	F¹	L	E	F	G	L	A	В	С	D	н	K	ı
Orifice	Port	Thread													
DN	Conn.	Depth					ø						ø	ø	
[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
10	G 3/8	17.0	13.0	107.0	42.0	32.0	14.0	157.0	65.5	83.0	32.0	32.0	10.0	35.0	73.0
13	G 1/2	19.0	13.0	123.0	43.0	32.0	16.0	171.0	72.0	93.5	43.0	49.0	15.0	43.0	85.0

# **Ordering Chart for Accessories**

A wide selection of further cable plugs is available (see special data sheets type 2506 and 2510)