2/2-Way; G ³/8" - ¹/2"; PN 0.5 - 10.0 bar



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

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

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

71

0.5 - 10.0 bar

G 3/8" - G 1/2"

Neutral fluids, e.g. water, compressed air, town gas, natural gas, hydraulic and other oils

 0° up to $+50^{\circ}C$

0° up to +50°C

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

Measured at +20°C, 6 bar pressure at outlet port

as required, but preferably with solenoid system upright

-10° up to +50°C

Overpressure to atmospheric pressure

0% to 90%

100% to 10%

+50° C

21 mm²/s

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

Operating Data (Valve)

Pressure range Port connection Fluid

Medium temperature NBR sealing EPDM sealing FPM sealing Max. ambient temperature Max. viscosity Flow rate ^(Kv value water) [m³/h]

Pressure rate [bar]

Response times [ms]

Opening pressure raise Closing pressure drop Installation

Materials

(8) 14 (7)2 (6) 13) (2) 2 (5) 12 (4)(11) (3) 2 (2 10 1 1 9 1 1 1

1	Valve body:	PPE/PA (Noryl)
2	O-rings:	NBR, FPM and EPDM
3	Diaphragm support:	PPS
4	Spring:	SS 1.4310
5	Cover:	PPE/PA (Noryl)
6	Plunger:	SS 1.4105
7	Spring	SS 1.4310
8	Coil:	PA
9	Diaphragm holder:	Brass
10	Diaphragm:	NBR, FPM and EPDM
11	Bolt	SS 1.4401
12	Flange:	Zn3glcC (surface)
13	Shading rings:	Cu
14	Locknut:	9SMnPb 28K
		(surface Zn5glcA)

Operating Data (Actuator)

Operating voltages							
DC	24 V						
AC	24, 110, 230 \	//50 Hz					
Voltages tolerance	±10 %						
Power consumption	DC	AC					
Inrush	4 W	9 VA					
Hold	4 W	6 VA					
Duty cycle	100% continuously rated						
Cycling rate	up to 15 c.p.m.						
Electr. connection	Tag connecto	rs sidewards					
	acc. to DIN 43	3650, Form C					
Cable plugs							
Standard delivery	With type 250	•					
EaseOn technology	(others, please s Type 2510	ee accessories)					

Specifications - Ordering Chart (Other Versions on Request)

With Standard Cable Plug Type 2506 - without Connector Sets (see Accessories) Seal Material NBR, Temperature Range 0° up to +50°C, Pressure Range 0.5 up to 10.0 bar

Jean Mater	Sear Material MBN, Temperature hange of up to 450 0, Tressure hange 0.5 up to 10.0 bar												
Circuit	Orifice	Port	Kv-Value	Response Times		Weight	Item-No.						
Function	DN	Connection		Opening Closing									
	[mm]		[m³/h]	[ms]	[ms]	[kg]	24V/DC	24 V/50Hz	110 V/50Hz	230V/50Hz			
А	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	Respons	Response Times		Item-No.						
Function	DN	Connection		Opening	Closing		Voltage						
	[mm]		[m³/h]	[ms]	[ms]	[kg]	24V/DC	24 V/50Hz	110 V/50Hz	230V/50Hz			
А	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

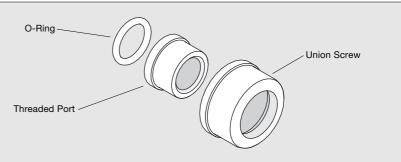
Circuit	Orifice	Port	Kv-Value	Respons	Response Times		Item-No.					
Function	DN	Connection		Opening	Closing		Voltage					
	[mm]		[m³/h]	[ms]	[ms]	[kg]	24V/DC	24 V/50Hz	110 V/50Hz	230V/50Hz		
А	10	see	1.8	30	150	0.13	142 224 Y	142 225 Z	142 226 S	142 227 T		
	13	accessories	3.2	≤ 60	≤ 300	0.18	142 236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

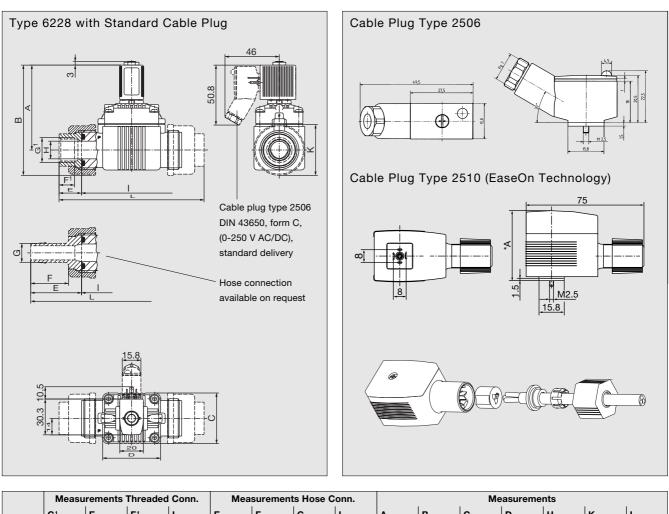
Orifice	Port	Seal	Item-No.				
DN	Connection	Material	Voltage				
		O-Ring					
[mm]	[inch]		24V/DC				
10	G 3/8	NBR	142 425 J				
		FPM	142 426 K				
		EPDM	142 427 L				
13	G 1/2	NBR	142 428 V				
		FPM	142 429 W				
		EPDM	142 430 T				



IMPORTANT!

2 Connector Sets are necessary per valve.

Dimensions [mm]



		Measurements Threaded Conn.			Measurements Hose Conn.				Measurements							
	G	G1	E	F1	L	E	F	G	L	A	в	с	D	н	к	I
Orifi	ce F	Port	Thread													
DN	C	Conn.	Depth					ø						ø	ø	
[mm]] [i	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
10	Ģ	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	Ģ	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)