2/2 way; DN 10 - 13 mm; 1 up to 7 bar



Design/Function

The servo-assisted solenoid valve with servo diaphragm is normally closed (NC). In this condition, a pressure is being built up above the diaphragm - the valve holds tight. When energized, the space above the servo diaphragm is pressure relieved and lifted up by the medium - the valve opens.

The modular extendable valve system can be built up in all possible combinations with up to 12 valves each as distributor or collector in two sizes with different port connection modules. The valve can be put together in collecting function or distributing function by easily twisting the valve insert.

Any kind of combination of functions in one block is possible. Additional functions as e.g. temperature indication or flow measurement can be added by integrating a corresponding sensor directly into the valve block.

In order to be as flexible as possible, a variety of port connections is available as standard. The inner thread port connections are at the bottom, pointing downwards while the outer thread port connections and the plug-on connection for hoses are pointing sidewards.

The block material is Polyamide glass-fiber reinforced.

The advantages are: Low weight and a certain chemical resistance.

Advantages / Benefits

- Reduction of Cost of Ownership up to 60%
- Modular system design
- Block assembly by lock technology
- Easy change between distributing and collecting function by turn of valve insert
- Free combination of valve sizes DN10 and DN13
- High flexibility with different port connections also with integrated check valve
- Flexibility with additional functions (integrable sensors, separation of fluids, additional inputs)
- Low weight by thermoplastic technology
- Waterhammer free

Applications

Fluids

Neutral liquids, i.e. water, hydraulic oil, oils and fat (without additions) up to 60°C

Applications

- Distributing and collecting functions in water / sewage treatment HEVAC
- Hydraulic circuits
- Car wash devices Chemical industry
- Machine industry



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Modular Water Valve System

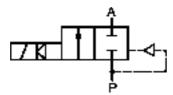
servo-assisted; variable and extendable

Technical data type 6227

Circuit function

Symbol

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



Valve specifications

Pressure range		0 up to 7.0 bar 5 up to 7.0 bar	Operatin	
Port connection Block Valve	G 1/2 and G 3/4 G 3/8 inner-thread G 3/4 outer-thread Plug-on ø 13 mm		Voltage t Electr. po Voltage (
Seal material	NBR	5		
Fluids	Neutral liquids hydaulic oil, c without additi	Duty cyc Cycling r Rating w		
Media temperature	0 up to +70°C		Electr. co	
Ambient temperature	max. +55°C			
Viscosity	max. 21 mm²/	s P		
Response times ^{3) 4)} Opening Closing	DN10 30 ms 200 ms	DN13 70 ms 300 ms	³⁾ Measured increase to operationa The valves	
Flow rate	Kv-value Distributor	⁴⁾ When usin closing tin		
DN10	1.4	1.5		
DN13	2.4	2.7		
Installation	as required, preferably with solenoid system upright			
Width per valve		3 mm 4 mm		

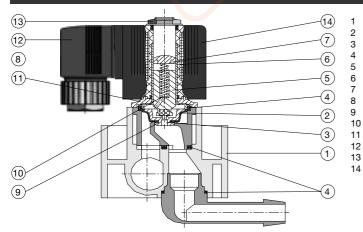
Solenoid specifications

Operating voltages	AC 24, 110, 230 DC 12 and 24 V		
Voltage tolerance	±10 %		
Electr. power consumption Voltage (AC)	Inrush Hold	20 VA 13 VA / 5 W	
Voltage (DC)	Inrush Hold	5 W 5 W	
Duty cycle	100 % continuously rated		
Cycling rate	up to 60 c.p.m.		
Rating with cable plug	IP 65		
Electr. connection	Delivery standard: Cable plug acc. DIN 43 650 A, 0 - 250 V (other versions see accessories)		
³⁾ Measured at connection 2; time f increase to 90 % (opening) or pre- operational pressure of 6 bar.			

The valves given apply for DC and AC.

⁹ When using electronics (diodes for controlling LEDs or for rectifying), the closing time is delayed 8 up to 10 ms.

Installation



Diaphragm Plunger-seal O-rings Plunger Armature guide tube Shading ring Stopper Diaphragm support Spring Bonnet Cable plug Locknut Coil

Valve body

Polyamid glass fiber reinforced NBR NBR 1.4105 1.4301 Cu (copper) 1.4105 PPSGF40 1.4310 Steel ST3 PA (Polyamide) 9SMnPb28K (surface Zm5glcA) Polyamid

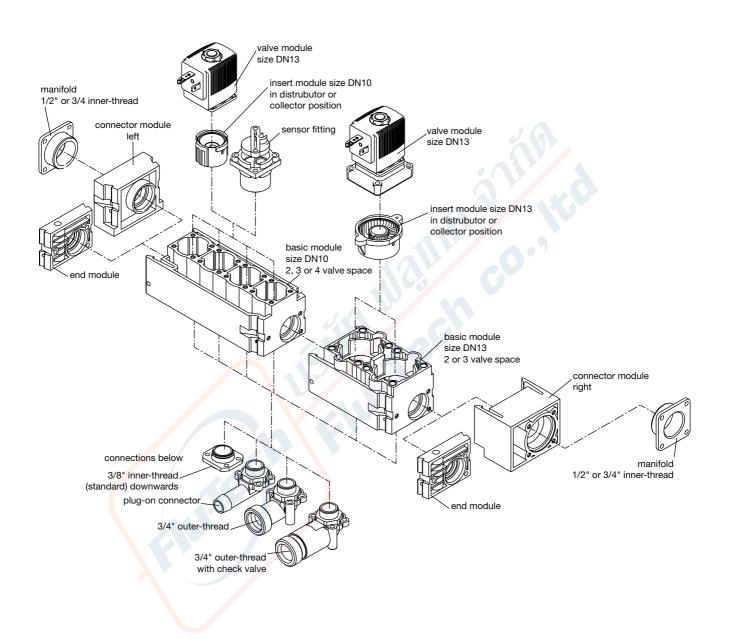


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Modular Water Valve System servo-assisted; variable and extendable

Type 6227

System overview with all available modules





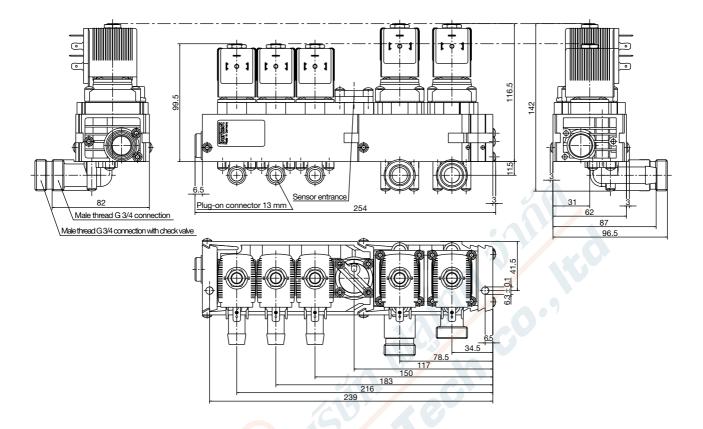
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Modular Water Valve System

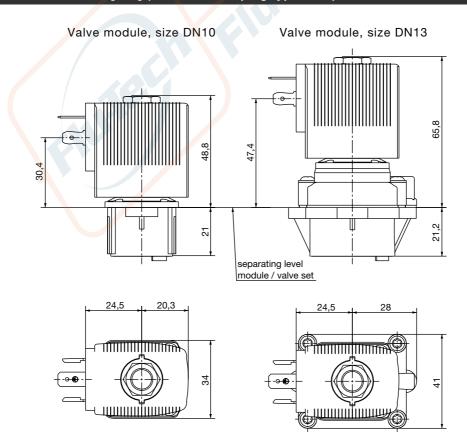
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Dimensions on a block sample [mm] (without cable plug type 2508)



Dimensions of valve modules [mm] (without cable plug type 2508)



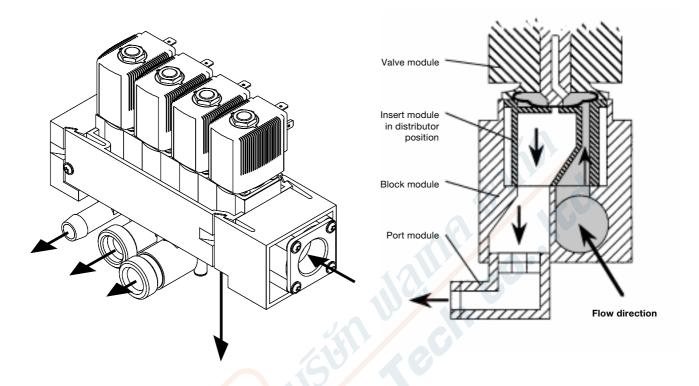


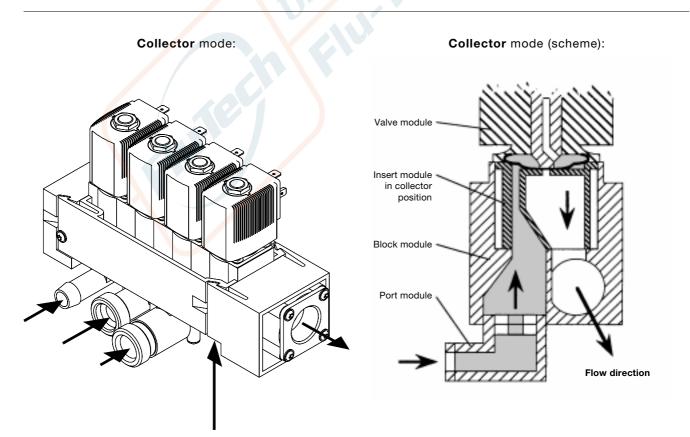
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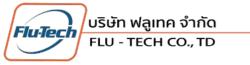
Operating modes

Distributor mode:

Distributor mode (scheme):







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Modular Water Valve System servo-assisted; variable and extendable

Type 6227

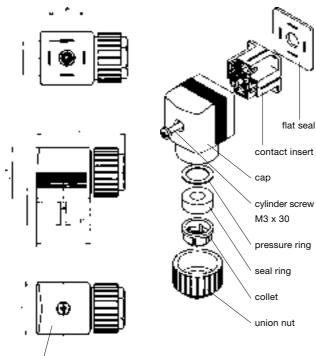
Fax order form: Individ	ual system confir	uration (nav 12 valves):	Part 1
Select modules according			-	Faiti
Mark: Voltage, Cable Plug, I			Configuration number:	•
End Modules Left & F		►X	Quantity:	
Mark: Valve as C ollector F		► C	Quantity.	
Mark: Valve as Distributor		► D		
Mark: Sensor Insert with	Tunotion	► S		
(only block modules	DN10 possible	P U		
Mark: Blind plate		▶ B		
	Voltage: 12 V/DC 24 V/DC 24 V/50 Hz 110 V/50 Hz 230 V/50 Hz		Cable plug: Standard with LED with LED and varistor	INN CA
End modules left:			vith valve modules	End modules right:
	DN 1	0 - 2 valv	e space modules	
Terminate G 3/4 G 1/2				G 1/2 G 3/4 Terminate
Any combination of mentioned space modules up to 12 valves per system possible			e space modules	
	DN 1	0 - 4 valve	e space modules	
		Port n	nodules	
Plug-on connection 13 mm				(with configuration left)
External thread G 3/4				
External thread G 3/4 with check valve				
Internal threaded port G 3/8				



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Туре 6227

Dimensions accessories [mm]



Ordering chart accessories

Device /	Features	Item-No.
Accessory		
Cable plugs 1)	Standard cable plug, 0 – 250 V AC/DC	008 376 N
type 2508	(standard-delivery) ¹⁾	
	with LED, 12 - 24 V AC/DC	008 360 S
	with LED, 100 - 120 V AC/DC	008 361 P
	with LED and varistor, 12 – 24 V AC/DC	008 367 M
	with LED and varistor, 100 - 120 V AC/DC	008 368 W
	with LED and varistor, 200 – 240 V AC/DC	008 369 X
	(optional wirings and connection	
	specifications see data sheet type 2508)	

¹⁾The standard cable plug (0 – 250 V AC/DC), Item-No. 008 376 N is part of the standard delivery.

Ordering of optional cable plugs with separate ordering number.

A wide selection of further cable plugs is available. (see special data sheet type 2508)

Transparent cap, when wired with LED

FluTech บริษัท ฟลูเทค จำกัด FLU - TECH CO., TD

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