

# CONTROL VALVES AND ACTUATORS



smallart

**smallart**  
all smart

## CONTROL VALVES AND ACTUATORS

### 2 Way Control Valves SMV-L2



Used as a control valve in district heating, HVAC and building automation systems applications. Fast and accurate flow control. The most energy saving, efficient and comfortable HVAC systems can only be designed by considering optimal hydronic balance and definite temperature control. In order to achieve efficiency targets, we offer you high quality solutions of Smallart Control valves.

You can use Smallart Control valves for the flow control of heating and cooling lines with high reliability. The valves have cast iron and provide high endurance.

- 2-way control valves with flange
- DN15-DN300mm
- Kvs 4 - 1200 m<sup>3</sup>/h range
- Cast iron body

### Technical Specifications

Leakage Level	Less than 0,05 of kvs	Body	Cast Iron
Operating Pressure	PN16	Spring	Stainless steel
Flange Connection Type	PN16 According to EN 1092-2	Seat	Stainless steel
Valve Characteristic Curve	Equal percentage	Adjustment Spool	Stainless steel
Media	Water or glycol solution	Stem	Stainless steel
Medium Temperature	-10...110 °C	Plug Material	PTFE+FKM

### Models

Models		Price
SMV-L20CIF16W-050-040K	2 Way Flanged Valve Body, DN50 Kvs 40, 19mm Stroke	\$ 351.00
SMV-L20CIF16W-065-063K	2 Way Flanged Valve Body, DN65 Kvs 63, 20mm Stroke	\$ 390.00
SMV-L20CIF16W-080-100K	2 Way Flanged Valve Body, DN80 Kvs 100, 20mm Stroke	\$ 455.00
SMV-L20CIF16W-100-160K	2 Way Flanged Valve Body, DN100 Kvs 160, 42mm Stroke	\$ 857.00
SMV-L20CIF16W-125-250K	2 Way Flanged Valve Body, DN125 Kvs 250, 42mm Stroke	\$ 1.076.00
SMV-L20CIF16W-150-280K	2 Way Flanged Valve Body, DN150 Kvs 280, 42mm Stroke	\$ 1.470.00
SMV-L20CIF16W-150-410K	2 Way Flanged Valve Body, DN150 Kvs 410, 42mm Stroke	\$ 1.470.00
SMV-L20CIF16W-200-410K	2 Way Flanged Valve Body, DN200 Kvs 410, 42mm Stroke	\$ 3.441.00
SMV-L20CIF16W-250-630K	2 Way Flanged Valve Body, DN250 Kvs 630, 55mm Stroke	\$ 8.046.00
SMV-L20CIF16W-300-1200K	2 Way Flanged Valve Body, DN300 Kvs 1200, 80mm Stroke	\$ 11.321.00

## CONTROL VALVES AND ACTUATORS

### 3 Way Control Valves SMV-L3



Used as a control valve in district heating, HVAC and building automation systems applications. Fast and accurate flow control. The most energy saving, efficient and comfortable HVAC systems can only be designed by considering optimal hydronic balance and definite temperature control. In order to achieve efficiency targets, we offer you high quality solutions of Smallart Control valves.

You can use Smallart Control valves for the flow control of heating and cooling lines with high reliability. The valves have cast iron and provide high endurance.

- 3-way control valves with flange
- DN15-DN300mm
- Kvs 4 - 1200 m<sup>3</sup>/h range
- Cast iron body

### Technical Specifications

Leakage Level	Less than 0,05 of kvs	Body	Cast Iron
Operating Pressure	PN16	Spring	Stainless steel
Flange Connection Type	PN16 According to EN 1092-2	Seat	Stainless steel
Valve Characteristic Curve	Equal percentage	Adjustment Spool	Stainless steel
Media	Water or glycol solution	Stem	Stainless steel
Medium Temperature	-10...110 °C	Plug Material	PTFE+FKM

### Models

Models		Price
SMV-L30CIF16W-050-040K	3 Way Flanged Valve Body, DN50 Kvs 40, 19mm Stroke	\$ 415.00
SMV-L30CIF16W-065-063K	3 Way Flanged Valve Body, DN65 Kvs 63, 20mm Stroke	\$ 465.00
SMV-L30CIF16W-080-100K	3 Way Flanged Valve Body, DN80 Kvs 100, 20mm Stroke	\$ 558.00
SMV-L30CIF16W-100-160K	3 Way Flanged Valve Body, DN100 Kvs 160, 42mm Stroke	\$ 864.00
SMV-L30CIF16W-125-250K	3 Way Flanged Valve Body, DN125 Kvs 250, 42mm Stroke	\$ 1.086.00
SMV-L30CIF16W-150-280K	3 Way Flanged Valve Body, DN150 Kvs 280, 42mm Stroke	\$ 1.478.00
SMV-L30CIF16W-150-410K	3 Way Flanged Valve Body, DN150 Kvs 410, 42mm Stroke	\$ 1.478.00
SMV-L30CIF16W-200-410K	3 Way Flanged Valve Body, DN200 Kvs 410, 42mm Stroke	\$ 4.374.00
SMV-L30CIF16W-250-630K	3 Way Flanged Valve Body, DN250 Kvs 630, 55mm Stroke	\$ 9.966.00
SMV-L30CIF16W-300-1200K	3 Way Flanged Valve Body, DN300 Kvs 1200, 80mm Stroke	\$ 14.664.00

## CONTROL VALVES AND ACTUATORS

### Pressure Independent Control Valves (PICV) SMV-LP

Used as a Balancing & Control Valve in district heating, HVAC and building automation systems applications. Fast and accurate flow control independent from pressure fluctuations. The most energy saving, efficient and comfortable HVAC systems can only be designed by considering optimal hydronic balance and definite temperature control. In order to achieve efficiency targets, we offer you high quality solutions of SmallArt Control valves.

You can use Smallart Control valves for the flow control of heating and cooling lines with high reliability. The valves have cast iron and provide high endurance.

- 2-way control valves with flanged connection
- DN40-DN200mm (250 & 300 under development)
- Flow Kvs 7.5 - 150 m/h range
- Cast iron body



### Technical Specifications

Leakage Level	Less than 0,05 of kvs	Body	Cast Iron
Operating Pressure	PN16	Spring	Stainless steel
Flange Connection Type	PN16 According to EN 1092-2	Seat	Stainless steel
Valve Characteristic Curve	Equal percentage	Adjustment Spool	Stainless steel
Media	Water or glycol solution	Stem	Stainless steel
Medium Temperature	-10...110°C	Plug Material	PTFE+FKM

TYPE	DN	KV	Weight	MODEL	SERVOMOTOR	MODULATING						
						24VAC			230VAC			
						1000N	1500N	3000N	6500N	16000N		
						SMA-EL22-010M-024	SMA-EL22-015M-024	SMA-EL50-030M-024	SMA-EL60-065M-230	SMA-EL100-160M-230		
						VALVE BODY	PRICE	\$ 397.00	\$ 440.00	\$ 567.00	\$ 1,839.00	\$ 2,292.00
PICV	40	7.5		SMV-LPCCIF16W-040-07F5	\$ 549.00		\$ 946.00					
	50	12.5		SMV-LPCCIF16W-050-12F5	\$ 601.00		\$ 998.00					
	65	20		SMV-LPCCIF16W-065-020F	\$ 1.262.00		\$ 1.702.00					
	80	32		SMV-LPCCIF16W-080-032F	\$ 1.313.00		\$ 1.753.00					
	100	42		SMV-LPCCIF16W-100-042F	\$ 2.007.00			\$ 2.574.00				
	125	75		SMV-LPCCIF16W-125-075F	\$ 3.740.00			\$ 4.307.00				
	150	105		SMV-LPCCIF16W-150-105F	\$ 3.868.00			\$ 4.435.00				
200	150		SMV-LPCCIF16W-200-150F	\$ 5.098.00			\$ 5.665.00					

## CONTROL VALVES AND ACTUATORS



### Actuators SMA Series

The actuators have been designed for use in stationary heating, ventilation and air conditioning systems. Floating and modulating linear actuator for 2-way and 3-way valves up to DN300 of SMV valve body series.

- Actuating force 1000N... 16.000N
- Nominal voltage AC/DC 24V / 220VAC  $\pm$ 10 50Hz
- Modulating control DC 0~10V, DC 4~20Ma
- Floating control 24VAC / 220VAC
- Position feedback DC4~20mA or DCO~10V
- SMA actuators with cable connection
- Adjustment is simple, easy to operate
- Valve positioning accuracy
- Synchronous motor, low power consumption
- High output power shutdown
- High-resolution capability
- High reliability
- Economy type products

### Technical Specifications

Power Supply	24VAC/DC, AC220V $\pm$ 10%, 50Hz	External Wiring	Power Cable: 3 x 1.5mm <sup>2</sup> • Signal Cable: 3 x 1.5mm <sup>2</sup> , • Cable Entry: 2-PF (PG11) • Input and output signals should be shielded cables. AC220V power cord can not share a cable and signal lines.
Power Consumption	max 30VA (at rated load)		
Input Signal	Floating or modulating (DC4~20mA or DCO~10V)		
Output Signal	DC4~20mA or DCO~10V, for feedback	Environmental Con.	-5~55°C, 90%RH
Control Accuracy	$\pm$ 0.4%	Protecting Class	IP65
Nominal Stroke	20mm up to 100mm		

Models	Descriptions	Force/Stroke	Power Supply / Controls	Suitable for	Price
SMA-EL22-010M-24	Modulating	1.000N / 25mm	24VAC-DC/0-10Vdc or 4-20mA	DN40/50	\$ 397.00
SMA-EL22-010F-24	Floating	1.000N / 25mm	24VAC-DC / 3 points	DN40/50	\$ 289.00
SMA-EL22-010F-230	Floating	1.000N / 25mm	230VAC / 3 points	DN40/50	\$ 289.00
SMA-EL22-015M-24	Modulating	1.500N / 20mm	24VAC-DC/0-10Vdc or 4-20mA	DN65/80	\$ 440.00
SMA-EL22-015F-24	Floating	1.500N / 20mm	24VAC-DC / 3 points	DN65/80	\$ 320.00
SMA-EL22-015F-230	Floating	1.500N / 20mm	230VAC / 3 points	DN65/80	\$ 320.00
SMA-EL50-030M-24	Modulating	3.000N / 60mm	24VAC-DC/0-10Vdc or 4-20mA	DN100/125/150/200	\$ 567.00
SMA-EL50-030F-24	Floating	3.000N / 60mm	24VAC-DC / 3 points	DN100/125/150/200	\$ 460.00
SMA-EL50-030F-230	Floating	3.000N / 60mm	230VAC / 3 points	DN100/125/150/200	\$ 460.00
SMA-EL60-065M-230	Modulating	6.500N / 65mm	220VAC/0-10Vdc or 4-20mA	DN250	\$ 1.839.00
SMA-EL60-065F-230	Floating	6.500N / 65mm	220VAC / 3 points	DN250	\$ 1.548.00
SMA-EL100-160M-230	Modulating	16.000N / 100mm	220VAC / 0-10Vdc or 4-20mA	DN300	\$ 2.292.00
SMA-EL100-160F-230	Floating	16.000N / 100mm	220VAC / 3 points	DN300	\$ 1.932.00



## REFERENCES



Abdullah Gül University



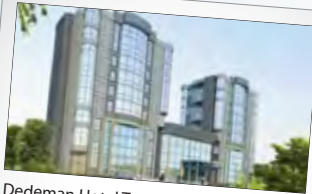
Çorum Osmaniye State Hospital



Manisa Soma State Hospital



Gülçiçek Chemistry Factory



Dedeman Hotel Tavros-Kazakhstan



Koya University - Iraq



Trabzon Palace of Justice



Bursa Mustafa Kemal Paşa Hospital



Çorlu Vatan Hospital



Serik Palace of Justice

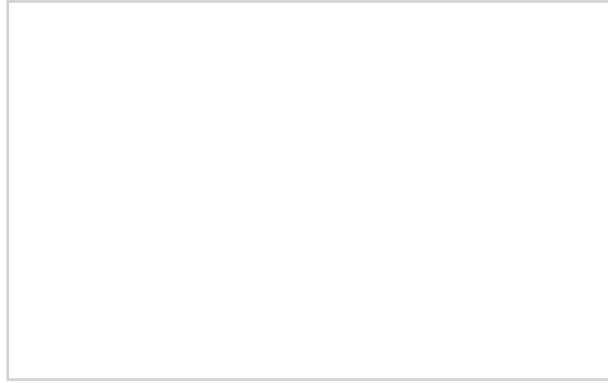


Sapanca Shopping Center



SGK Archive Building

[www.smallart.com.tr](http://www.smallart.com.tr)



**PRODUCT RANGE;**

Room Heating Thermostats & Controllers	Fan Coil Thermostats & Controllers	Ventilation & AHU Controllers	Trench Heater Controllers	Motorized Valves & Actuators	Sensors & Accessories	OEMs Welcome!
--	--	----------------------------------	------------------------------	------------------------------------	--------------------------	---------------

**Ges Teknik Klima Kontrol ve Otomasyon Sistemleri Sanayi Ticaret Anonim Şirketi**  
Girne Mahallesi Irmak Sokak Küçükalyalı İş Mrk.  
C Blok No:10, Maltepe 34852 İstanbul Türkiye  
T +90(216) 388 68 98 F +90(216) 366 80 24

**smallart**  
all smart

