

### Series 2700

### General

The 2700 Series of solenoid operated valves have been designed in accordance with ISO 15407, a standard for both pneumatic and electrical layout.

This series of valves have a 27mm valve body width and a nominal flow rate of 1000 NI/Min.

The solenoid valves are mounted upon a modular sub-base with G1/4" pneumatic connections and built in electrical connection. Another feature of the 2700 series is that it can be equipped with the serial bus modules currently being used with our Optyma-T valve series, thus offering an extremely flexible product that can be integrated with standard communication protocols (CANopen®, PROFIBUS DP, DeviceNet, EtherNet/IP, PROFINET IO RT/IRT, EtherCAT®, Powerlink and Modbus/TCP).

In addition to the serial bus modules, the valves manifolds can also be used with either a 25 or 37 pin D-SUB connectors offering control of up to a maximum of 32 electrical signals.

"Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001, Pneumatic fluid power-Directional control valves-Measurement of shifting time"

### **Main characteristics**

Integrated and optimized electrical connection system. IP65 protection degree. Only one 26mm size. Monostable and bistable solenoid valves with the same size dimensions. G1/4" quick coupling connections. Easy and fast manifold assembling.

### **Construction characteristics**

Body	Aluminium	
Operators	Technopolymer	
Spacers	HNBR 75-80 Shore A	
Spools	Aluminium	
Springs	AISI 302 stainless steel	
Pistons	Technopolymer	
Piston seals	NBR	

#### Functions

SV 5/2 MONOSTABLE SOLENOID-SPRING SV 5/2 MONOSTABLE SOLENOID-DIFFERENTIAL SV 5/2 BISTABLE SOLENOID-SOLENOID SV 5/3 C.C. SOLENOID-SOLENOID SV 2x3/2 N.C.-N.C. (=5/3 O.C.) SOLENOID-SOLENOID SV 2x3/2 N.O.-N.O. (=5/3 P.C.) SOLENOID-SOLENOID SV 2x3/2 N.C.-N.O. SOLENOID-SOLENOID

Technical characteristics					
Voltage	24 VDC ±10% PNP				
Pilot consumption	1 Watt - 2,3Watt				
Valve working pressure [1]	from vacuum up to 10 bar				
Operating temperature	-5°C +50°C				
Life (standard operating conditions)	5000000				
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous				

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

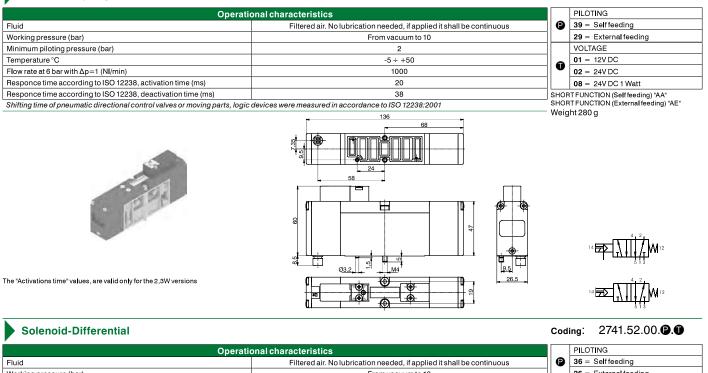
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# Solenoid - Spring

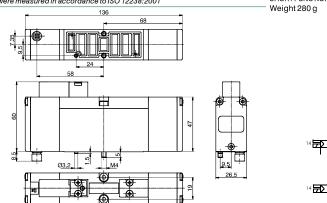


Operati	ional characteristics		PILOTING
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	P	36 = Selffee
Working pressure (bar)	From vacuum to 10		26 = Externa
Minimum piloting pressure (bar)	2		VOLTAGE
Temperature °C	-5 ÷ +50		01 = 12V DC
Flow rate at 6 bar with Δp=1 (NI/min)	1000	U	02 = 24V DC
Responce time according to ISO 12238, activation time (ms)	20		08 = 24V DC
Responce time according to ISO 12238, deactivation time (ms)	38	SHOP	RT FUNCTION (S
Shifting time of pneumatic directional control valves or moving parts, logic	devices were measured in accordance to ISO 12238:2001		RT FUNCTION (E
	136	Weig	ght 280 g

	PILOTING
Ð	36 = Selffeeding
	26 = External feeding
	VOLTAGE
-	01 = 12V DC
Ū	02 = 24V DC
	08 = 24V DC 1 Watt
HOR	TFUNCTION (Self feeding) "BA"

(External feeding) "BE"







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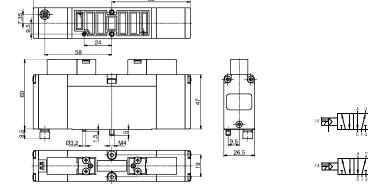
### Solenoid-Solenoid 5/2

The "Activations time" values, are valid only for the 2,3W versions

Operational characteristics			PILOTING
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	•	35 = Selffeeding
Working pressure (bar)	From vacuum to 10		24 = External feeding
Minimum piloting pressure (bar)	2		VOLTAGE
Temperature °C	-5 ÷ +50		01 = 12V DC
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	1000	U	02 = 24V DC
Responce time according to ISO 12238, activation time (ms)	12		08 = 24V DC 1 Watt
Responce time according to ISO 12238, deactivation time (ms)	14		RT FUNCTION (Self feeding) "CA"
Shifting time of pneumatic directional control valves or moving parts, logic of	levices were measured in accordance to ISO 12238:2001		RT FUNCTION (External feeding) "CE
State State		WOL	ght 310 g

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The "Activations time" values, are valid only for the 2,3W versions

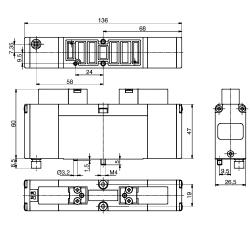


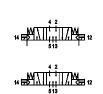




Operational characteristics				PILOTING
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		Ð	35 = Selffeeding
Working pressure (bar)	From vacuum to 10			24 = External feeding
Minimum piloting pressure (bar)	3			VOLTAGE
Temperature °C	-5 ÷ +50		•	01 = 12V DC
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	660		V	02 = 24V DC
Responce time according to ISO 12238, activation time (ms)	12			08 = 24V DC 1 Watt
Responce time according to ISO 12238, deactivation time (ms) 60		s	HOR	T FUNCTION (Self feeding) "EA"
Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001		s	HOR	T FUNCTION (External feeding) "EE"







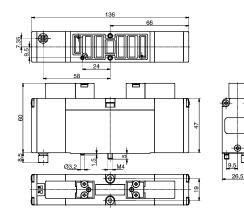
Weight 310 g The "Activations time" values, are valid only for the 2,3W versions

### Solenoid-Solenoid 2x3/2 (Self feeding / External feeding)

Operational characteristics					
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		l		
Working pressure (bar)	From vacuum to 10		l		
Minimum piloting pressure (bar)	≥2+(0,3xP.alim.)		Ø		
Temperature °C	-5 ÷ +50		-		
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	550				
Responce time according to ISO 12238, activation time (ms)	15 (Self feeding) 12 (External feeding)		<u> </u>		
Responce time according to ISO 12238, deactivation time (ms)	15 (Self feeding) 60 (External feeding)		₽		

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001

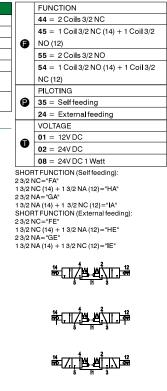




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Weight 310 g The "Activations time" values, are valid only for the 2.3W versions "Example: finitel pressure is set at 5bar then pilot pressure must be at least Pp=2+(0.3\*5)=3,5bar"

# Coding: 2741.62.



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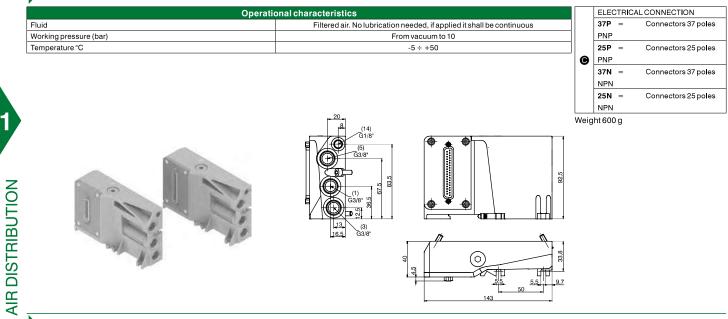
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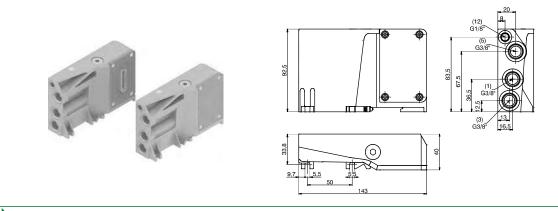
## **Right Endplates**



## Left Endplates

2740.03. Coding:

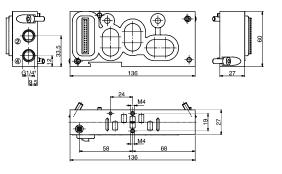
Operational characteristics			ELECTRIC/	ALCONNECTION		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuou	;	Θ	00 = Elect	rical connection	
Working pressure (bar)	From vacuum to 10			25P =	Connectors 25 poles	
Temperature °C	-5 ÷ +50	v	Veig	/eight 600 g		



Modular base		Cod	ing: 2740.01♥
Operati	onal characteristics		VERSION
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		M = for Monostable SV
Working pressure (bar)	From vacuum to 10		B = for Bistable SV
Temperature °C	-5 ÷ +50	Weig	ght 330 g

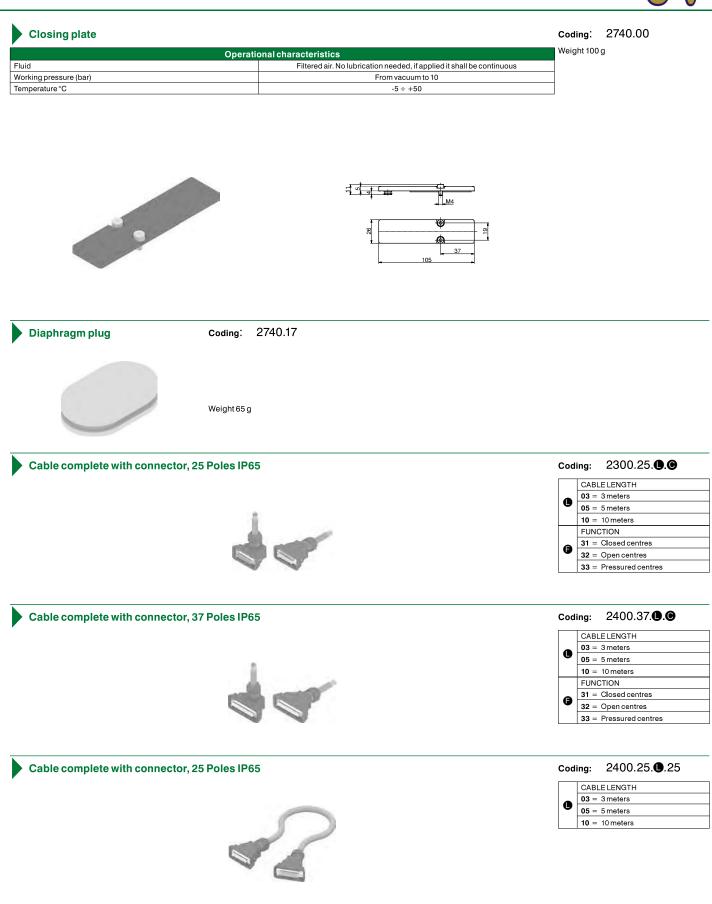
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