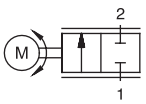
MOTORISED CONTROL VALVE

MotorFlow^{D}

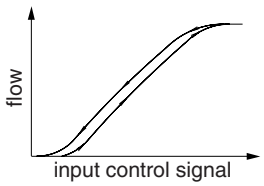
3/4



2/2
Series
610

B

FEATURES



- *Variable valve opening (flow), proportional to the control signal*
- *Digital controller with two operating buttons and position indication*
- *Valves do not require a minimum operating pressure*
- *Low power consumption*
- *Wear-resistant ceramic control discs*
- *Insensitive to contamination*
- *Suitable for vacuum and overpressure applications*
- *Mechanical separation of electrical actuator from fluid-carrying parts*
- *Valve position maintained on loss of power*
- *Valves can be mounted in any position*
- *The solenoid valves satisfy all relevant EU directives*

CE

GENERAL

Differential pressure	-0,9 to +10 bar (usable in 0,1 bar abs. vacuum) [1 bar =100 kPa]
Ambient temperature range	0°C to +50°C
Maximum viscosity	80 cSt (mm²/s)
Actuating time	2 s

fluids (∗)	temperature range (TS) (1)	seal materials (∗)
air, inert gas, water, oil	-5°C to +90°C	oxide ceramics EPDM (ethylene-propylene)

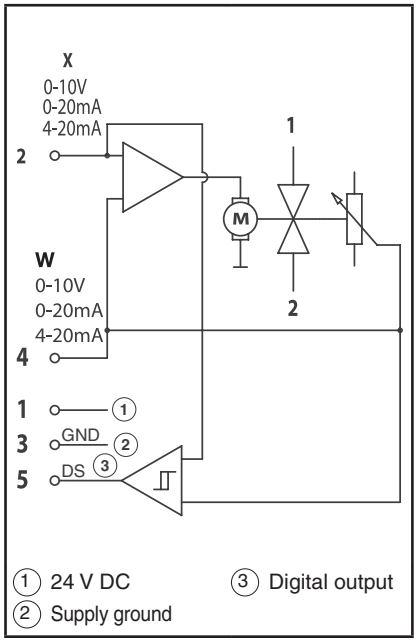
MATERIALS IN CONTACT WITH FLUID

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified

Body	Brass
Internal parts	POM, stainless steel
Seals	Oxide ceramics, EPDM

ELECTRICAL CHARACTERISTICS

Connector	5-pin female M12 connector
Electrical enclosure protection	IP65 (EN 60529)
Standard voltage	DC (=): 24V
Power consumption	6 W (max. 10 W at end of stroke)
Flow regulation characteristics (2)	Hysteresis < 3%; Repeatability < 2% ; Sensitivity < 2%



SPECIFICATIONS

pipe size	orifice size	flow coefficient Kv		operating pressure differential (bar)			setpoint	feedback output	catalogue number
				min.	max. (PS)				
					air, water (∗)	oil (∗)			
G	(mm)	(m³/h)	(l/min)		=	=			
3/4	15	3,5	58	-0,9	10	10	0-10 V	0-10 V	**6100011x**
								0-20 mA	**6100021x**
								4-20 mA	**6100031x**
							0-20 mA	0-10 V	**6100111x**
								0-20 mA	**6100121x**
								4-20 mA	**6100131x**
							4-20 mA	0-10 V	**6100211x**
								0-20 mA	**6100221x**
								4-20 mA	**6100231x**

(1) Damage may occur when liquids solidify above the specified minimum temperature.
(2) Values related to valve position.

controller structure	x
standard version (position controller)	0
External feedback input 0 - 10 V (double loop (cascade) control)	1
External feedback input 0 - 20 mA (double loop (cascade) control)	2
External feedback input 4 - 20 mA (double loop (cascade) control)	3
External frequency input NPN (after GND) (double loop (cascade) control)	4
External frequency input PNP (after +24 V) (double loop (cascade) control)	5

OPTIONS AND ACCESSORIES

- Female M12 connector:

			straight	right-angle
- 5 pins, with screw terminals,		catalogue number:	**88100256**	**88100725**
- Supply cable 2 m,	5 x 0,25 mm²,	catalogue number:	**88100726**	**88100727**
- Supply cable 5 m,	6 x 0,56 mm²,	catalogue number:	**88100728**	**88100729**
- Supply cable 10 m,	6 x 0,56 mm²,	catalogue number:	**88100730**	**88100731**

- Software tool for PC “ASCO-MotorCom” available for download at: www.asco.com
- RS-232 converter, 2 m cable with 9 pin Sub-D connector for PC link, catalogue number **88100732**

INSTALLATION

- The solenoid valves can be mounted in any position without affecting operation
- Threaded pipe connection is standard: G = G (ISO 228/1)
- Installation/maintenance instructions are included with each valve
- LED display

LED red = low voltage or overvoltage (blinking)
LED green = pressure switch
LED yellow = manual operation

- Electrical connection:

Male connector pinning (power supply)

		5-wire cable (2 m)	6-wire cable (5 m, 10 m)
+ 24 V DC, supply	**1**	brown	brown
analog setpoint input	**2**	white	white
supply ground	**3**	blue	green
analog ground (1)			yellow
analog output (feedback)	**4**	black	pink
digital output (pressure switch)	**5**	grey	grey
EMC shield / housing (2)		shield	shield

Female connector pinning (sensor)

+ 24 V DC, supply	**1**	
external feedback input	**2**	
supply ground	**3**	
frequency input	**4**	
unused	**5**	
EMC shield	housing (2)	

(1) A 6-wire cable with separate analog ground is used for cable lengths over 2 m to set off the voltage drop for the setpoint.
(2) The housing of the M12 male connector/M12 female connector is connected to the valve body.

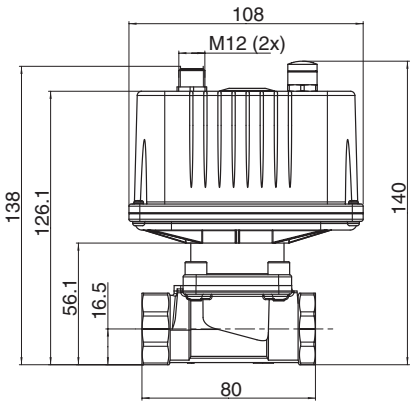
ORDERING EXAMPLES:

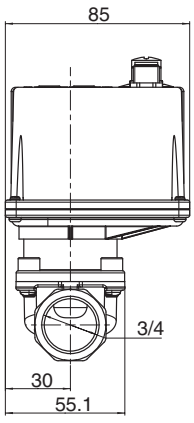
610 0 0 1 1 0
610 0 1 2 1 1
610 0 2 3 1 2

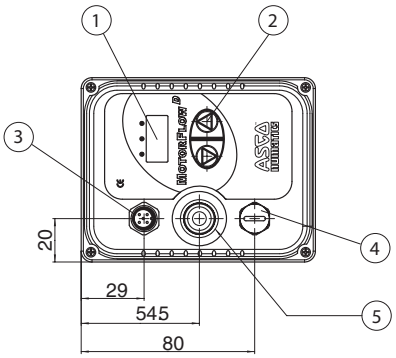
- series
- pipe thread
- setpoint
- feedback output
- controller structure
- digital output (pressure switch)

DIMENSIONS (mm), WEIGHT (kg)

IP65







weight
1,1

1. Valve opening display (0-100%)
2. Operating buttons (manual operation)
3. Power supply
4. Sensor input
5. Programming hole