

General features

The miniaturized **microprop** solenoid valves adjust the flow of fluid or gas proportionally to the current or voltage applied to the coil.

These valves offer excellent flow, response time, repeatability and hysteresis characteristics.

microprop can be controlled automatically using programmable controllers or many other microprocessor systems.

microprop is available in a wide variety of configurations to handle various electrical and fluid parameters. Contact the factory for further details.

subbase

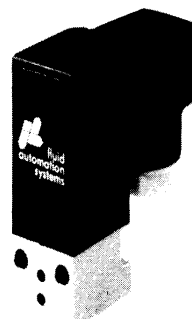


fig.1

M5

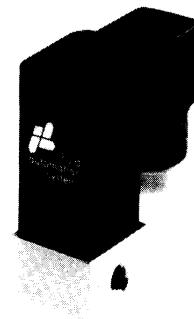


fig.2

Technical data

Orifice size :	0,8 to 2,0mm
Pressure range :	0 to 12 bar
Flow factor (Kv) :	0,2 to 0,9
Response time :	10 to 15 ms
(0 to 90% of max flow)	
Cycling rate :	3000cpm by using on/off 0-100%
Temperature range :	ambient: -10°C +50°C fluid: -10°C +30°C
Media :	fluids and gas compatible with wetted materials
Material in contact with fluid :	nickel plated, brass, stainless steel 303 & 430, polyamide 6/6, buna, viton, EPDM or Kalrez
Pipe connection :	subbase or M5
Mounting position :	indifferent
Fixation :	2 screws M3
Special demands :	to be discussed with us
Weight :	50 gr. (according to version)

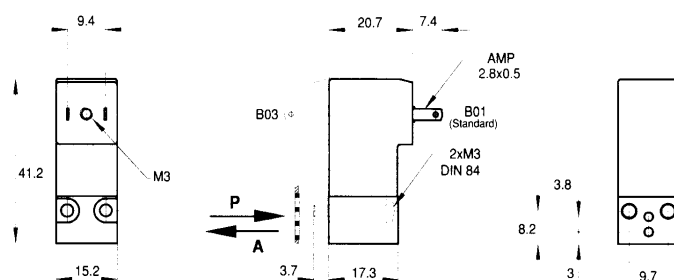
Other variations are available, contact F.A.S. for details.

Electrical Specifications

Standard voltage :	6; 12; 24 V DC
Standard power :	see table
Electrical connection :	spade connections or lead wires
Insulation class :	F 155
Protection :	IP 61 according to DIN 40050 IP 65 on request
Continuous duty :	100% ED
Max. coil temperature :	1W 45°C at 20°C ambient at 100% duty
Special voltages :	2W 60°C at 20°C ambient available on request

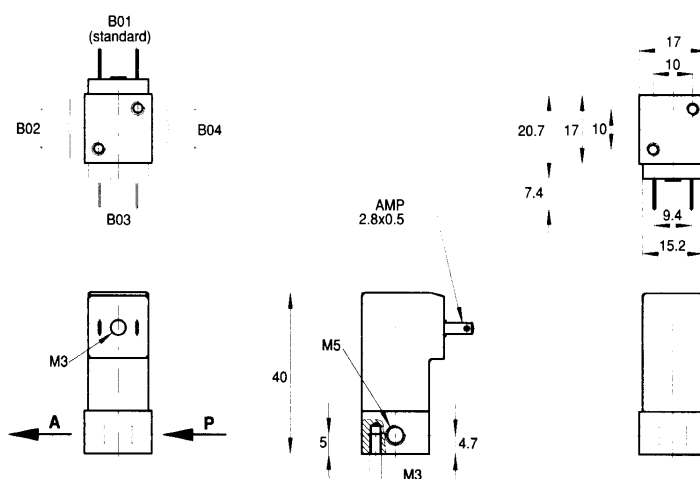
subbase

fig.1



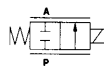
M5

fig.2



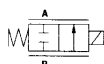
THREAD	FIG. No.	ORIFICE	FLOW FACTOR	PRESSURE		POWER
		mm	Kv MAX	bar		watt
				MIN	MAX	DC =

ORDER No.			
VALVE	MATERIAL		FILE
	BODY	SEAL	



subbase	1	0,8	0,2	0	12	2
subbase	1	1,2	0,3	0	7	2
subbase	1	1,6	0,5	0	4	2
subbase	1	2,0	0,9	0	2,5	2

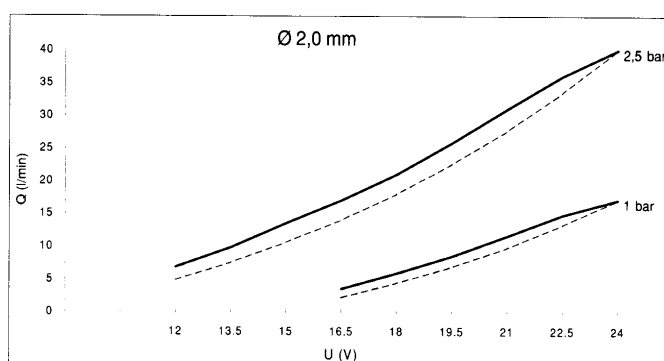
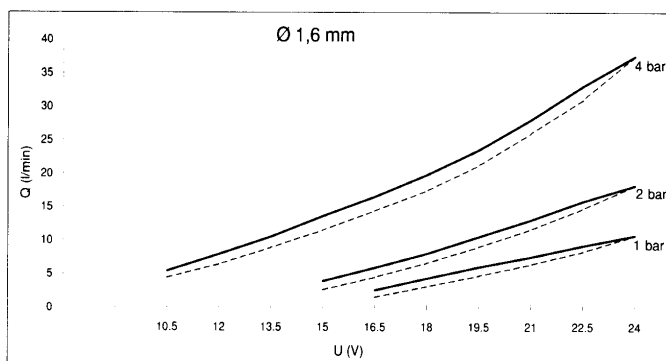
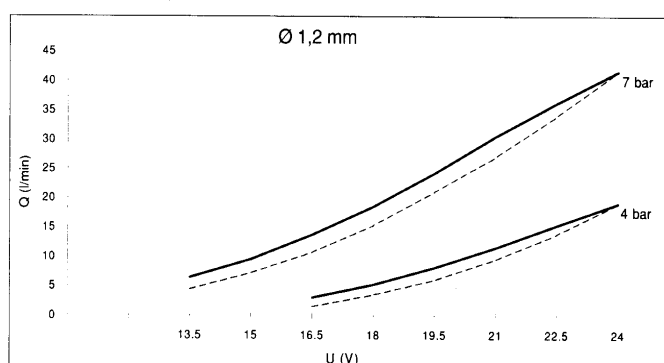
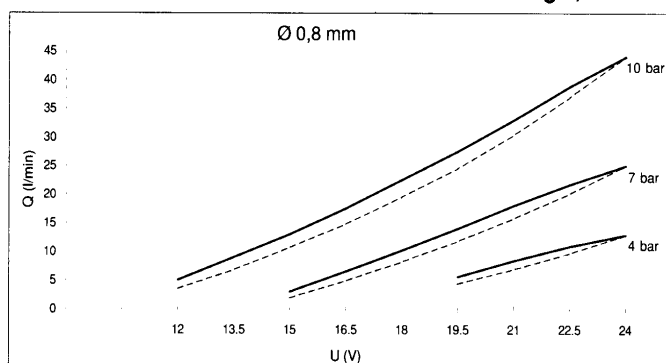
01-216P-01-	2			0	1	5	6			
01-216P-02-	2			0	1	5	6			
01-216P-03-	2			0	1	5	6			
01-216P-04-	2			0	1	5	6			



M5	2	0,8	0,2	0	12	2
M5	2	1,2	0,3	0	7	2
M5	2	1,6	0,5	0	4	2
M5	2	2,0	0,9	0	2,5	2

01-216-001-	2			0	1	5	6			
01-216-002-	2			0	1	5	6			
01-216-003-	2			0	1	5	6			
01-216-004-	2			0	1	5	6			

Voltage / Flow chart with 24 V DC coil :



----- = Increase of voltage

————— = Decrease of voltage

On request

- 1 - **Electrical plug** : see data sheet C5020.
- 2 - **Lead wires** : 300 mm long, file A, on request (total height + 5.2 mm).

Remarks

Contact factory for special requirements.

Ordering example

01-216-003-20 24V DC
2/2 way NC, proportional, M5 connection, 1,6 mm orifice, nickel plated brass body, buna seals, voltage 24V DC, coil position B01.

Materials

Body	Seal
Nickel plated brass	Buna