

# PILOT OPERATED SOLENOID VALVES

## EV 160



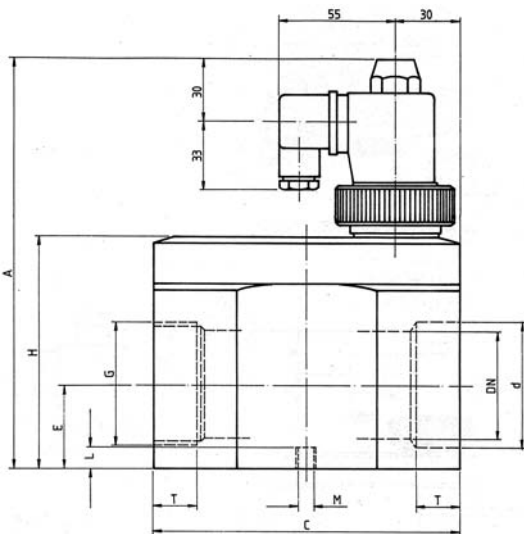
- Wetted parts: all in plastic materials  
PVC, PP, PTFE, EPDM, FPM
- Pilot operated, with the medium pressure
- Operating pressure from 0.3 to 6 bar
- 2/2 way valves
- Diaphragm EPDM or FPM
- Female process connections, ND 15 to ND 50

### PRINCIPLE

In a de-energized state, the medium pressure is built up by a servo bore on the upper side of the diaphragm, the valve is closed. When energized, first only the pilot valve opens, i.e. the plunger and the connected pilot diaphragm are lifted and a relief well becomes free. This causes a pressure drop above the diaphragm and the valve opens because of the medium pressure. For a perfect function a differential pressure of min. 0.3 bar is necessary.

### TECHNICAL FEATURES

Power supply:	230 V / 50 Hz (Other supply voltage on request)
Consumption:	6.5 VA
Function:	Normally Closed (NC)
Nominal diameter:	15 to 50 mm
Pressure range:	0.3 to 6 bar
Mounting:	Coil preferably in upright position
Materials:	EPDM or FPM - (Diaphragm and seal) PVC or PPH or PTFE - (Body)
Connections:	Spigot end for solvent welding (PVC) Spigot end for fusion welding (PPH) Female threaded socket (PTFE)
Viscosity:	Up to 3° E / approx. 21 cSt
Protection:	IP 65
Electrical part:	Plug socket DIN 43650, PG 9
Ambient temperature:	50°C
Operating temperature:	50°C (PVC) 80°C (PP and PTFE)



### DIMENSIONS

ND mm	d <sup>(1)</sup> mm	d <sup>(2)</sup> mm	Kv L/min	T mm	A mm	B mm	C mm	E mm	F mm	H mm	L mm	M	Code with EPDM diaphragm		
													PVC	PP	PTFE
15	20	½"	51	14,5	129	62	74	16	40	49	6	M5	P69 244	P45 369	P69 269
20	25	¾"	163	16	143	94	98	23	60	63	10	M6	P69 248	P46 379	P69 272
25	32	1"	171	16	143	94	98	23	60	63	10	M6	P69 252	P45 370	P69 276
32	40	1" ¼	386	20	171	124	124	31	80	91	12	M8	P69 256	P43 291	P69 280
40	50	1" ½	400	20	171	124	124	31	80	91	12	M8	P69 261	P42 323	P69 284
50	63	2"	493	20,5	189	140	140	39	90	109	12	M8	P69 265	P48 066	P69 288

(<sup>1</sup>) For PVC and PP - (<sup>2</sup>) For PTFE - FPM diaphragm and other supply voltage: on request

# BAMO MESURES

22, Rue de la Voie des Bans - Z.I. de la Gare - 95100 ARGENTEUIL  
Tél : (+33) 01 30 25 83 20 - Web : [www.bamo.fr](http://www.bamo.fr)  
Fax : (+33) 01 34 10 16 05 - E-mail : [info@bamo.fr](mailto:info@bamo.fr)

PILOT OPERATED  
SOLENOID VALVES  
EV 160

19-04-2012

920 I1 01 E

PLAS

920-01/1

920