# ELECTRONIC PROPORTIONAL CONTROL UNIT

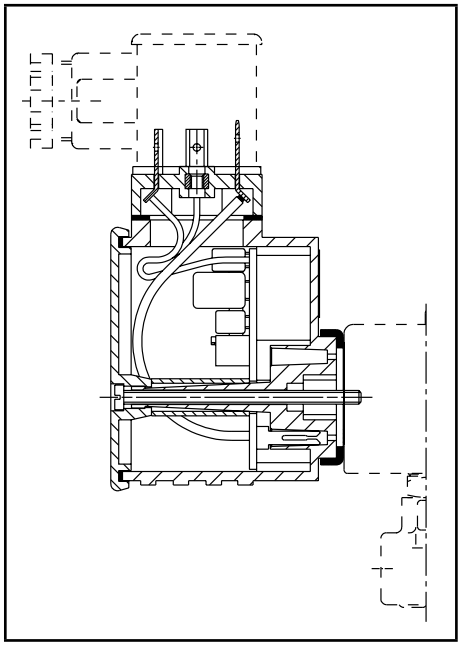
for proportional POSIFLOW solenoid valves

Series **908**

B

## FEATURES

- *Converts analog input control signals to coil current of a proportional solenoid valve by means of pulse width modulatiion*
- *Switch-off function at less then 2% of the maximum control signal*
- *Adjustable ramp control*
- *Output coil current independent of coil resistance (temperature) and supply voltage variations*
- *Min. and max. output coil current adjustable to required input control signal*
- *The electronic circuit is integrated in a housing connectable to a 3-terminal spade plug coil connector according to ISO 4400/ EN 175301-803, form A, DIN 43650, 11 mm, industry standard B or DIN 43650, 9,4 mm, industry standard B*



## GENERAL

| | |
|---|---|
| **Nominal voltage** | 24 V DC |
| **Maximum current** | 1100 mA |

## CONSTRUCTION

| | |
|---|---|
| **Housing** | PA |
| **Cover** | PA |
| **Screw** | Zinc plated steel |
| **Seals** | NBR |

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| **Connector** | Spade plug (cable Ø 6-10 mm) |
| **Connector specification** | ISO 4400 / EN 175301-803, form A (2) |
| **Valve connection** | With 3 terminal plug connection |
| Control unit: E908A001 | ISO 4400 / EN 175301-803, form A |
| Control unit: E908A003 | DIN 43650, 11 mm, industry standard B |
| Control unit: E908A004 | DIN 43650, 9,4 mm, industry standard B (assembled to 200 mm cable) |
| **Electrical safety** | IEC 335 |
| **Electrical enclosure protection** | IP65 (EN 60529) |
| **Supply voltage** | DC (=) : 24V ±10 % ($U_N$), max. ripple 10% |

| prefix option | max. full load current ($I_{FL}$) | input control signal (selectable) $U_c$ = | $I_{cx}$ | $I_c$ | power consumption (electronics) | unit ambient temperature range (2) | type (1) |
|---|---|---|---|---|---|---|---|
| | (mA) | (V) | (mA) | (mA) | (W) | (C°) | |
| - | 1100 | 0 - 10 | 0 - 20 | 4 - 20 | 0,8 | -10 to +75 | 01 - 02 |

| | |
|---|---|
| **Switch-off current** | < 2 % of max. input control signal |
| **Adjustable offset** | Upwm 15 - 50 % E.D. |
| **Adjustable full load** | Upwm 30 - 100 % E.D. |
| **Ramp time** | Selectable on/off, adjustable 0,1 - 3 sec. |
| **Adjustable switch frequency** | 40 - 700 Hz |

## SPECIFICATIONS

| recommended for proportional valve types | type | catalogue number |
|---|---|---|
| 202A001V to 202A087V<br>203B001V and 203B002V | **01** | **E908A001** |
| 202A201V to 202A208V | **02** | **E908A003** |
| 202A101V to 202A104V<br>202A105V to 202B108V | **01** | **E908A004** |

(1) Refer to the dimensional drawings on the following page.

(2) The connector is supplied with each control unit. **Do not use the standard connector mounted on the POSIFLOW solenoid valves.**

# ELECTRONIC CONTROL UNIT FOR POSIFLOW SOLENOID VALVES SERIES 908

## OPTIONS

- ASCO can offer any adaption or modification to the control unit to meet special requests from the users' field

## INSTALLATION

- The control unit can be mounted in any position without affecting operation
- The connector to ISO 4400 / EN 175301-803, form A, is supplied with each unit
- Catalogue number E908A004: The 4-terminal connector to ISO 4400 / EN 175301-803, form A, is supplied with each unit. The outlet to the solenoid valve is fitted with a 200 mm long cable with a connector to DIN 43650, 9,4 mm, industry standard B
- Installation and maintenance istructions are included with each control unit

## ORDERING EXAMPLES:

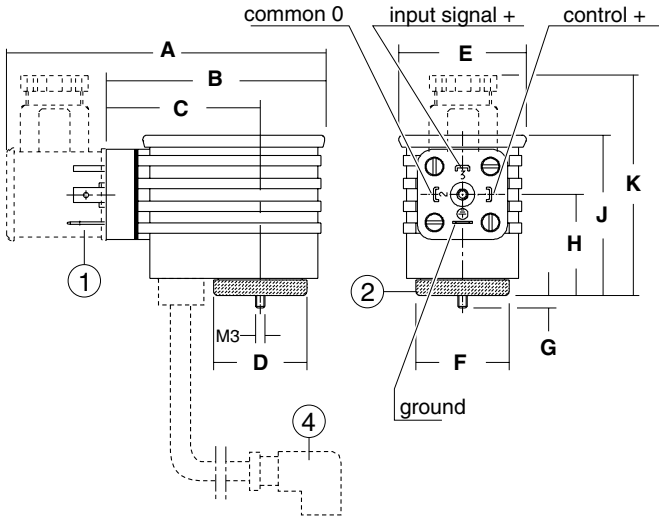
E 908 **A** 001
E 908 **A** 003

pipe thread
basic number

## DIMENSIONS (mm), WEIGHT (kg)

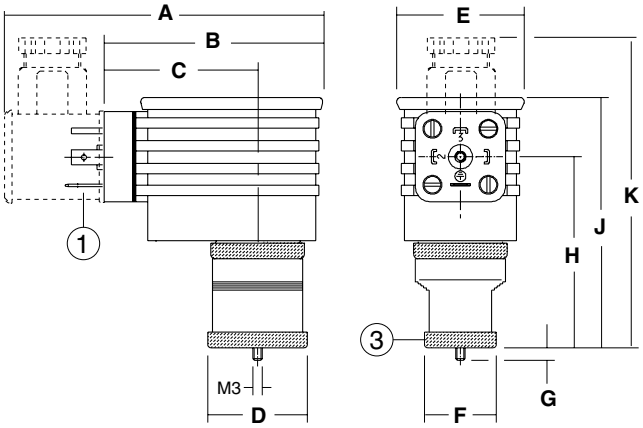
### TYPE 01
POSIFLOW control unit
IEC 335 / ISO 4400
IP65

**E908A001 - E908A004**




### TYPE 02
POSIFLOW control unit
IEC 335 / ISO 4400
IP65

**E908A003**




| type | catalogue number | A | B | C | D | E | F | G | H | J | K | weight (1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | E908A001/004 | 98 | 70 | 48 | 30 | 41 | 30 | 4 | 32 | 51,5 | 70 | 0,1 |
| 02 | E908A003 | 98 | 70 | 48 | 32 | 41 | 23 | 4 | 61 | 80 | 98 | 0,1 |

(1) Weight without connector.

① Supply, 4 terminals, ISO 4400/EN 175301-803, form A
Solenoid valve connection:
② 3 terminals, ISO 4400/EN 175301-803, form A
③ 3 terminals, DIN 43650, 11 mm, industry standard B
④ 3 terminals, DIN 43650, 9,4 mm, industry standard B

## VOLTAGE-CURRENT / TIME DIAGRAM