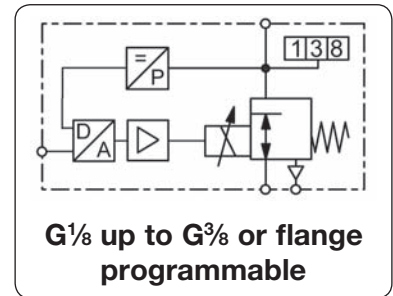


| | | | |
|-------------------------------|--|--|--|
| Description | The proportional pressure regulator is digitally controlled and works as a 3/2 valve with proportional magnet and closed loop. The digital control system offers advantages at installation and commissioning for adapting the valve to special applications. The regulator can be set and optimised using a PC, RS232 adapter and software. | | |
| Software | Display: signal, outlet pressure, PID parameters, pressure switch signal etc. Scope function: view setpoint, outlet pressure, internal signals from PID control Parameters: range, zero, amplification and ramp Valve diagnosis: parameters factory-set or customised, optimization of the valve. | | |
| Media | dry, lubricated or unlubricated and 50 µm filtered compressed air or non-corrosive gases | | |
| Supply voltage | 24 V DC ± 10 V, residual ripple < 10% | | |
| Command signal | 0... 10 V / 100 kΩ impedance | | |
| Electrical connector | plug M12x1, 5-pin, with coupling socket | | |
| Power consumption | 21 W at DN 4, 40 W at DN 8 | | |
| Linearity / Hysteresis | < 0.5% FS / < 1% FS | | |
| Mounting position | any | | |
| Temperature range | Medium: 0 °C to 60 °C / 32 °F to 140 °F Body: aluminium | | |
| Material | 0/4-20 mA / 250 Ω impedance Pressure switch: PNP outlet, accurate to ± 5% Response time: 50 ms Repeatability: < 0.5% FS Protection class: IP 65 Ambience: 0 °C to 50 °C / 32 °F to 122 °F Elastomer: NBR/Buna-N Inner valve: POM | | |



| Dimensions | | | Nominal size | Flow rate | Supply max. | Connection thread | Pressure range | Order number |
|------------|----|----|--------------|-----------|-------------|-------------------|----------------|--------------|
| A | B | C | DN | l/min*1 | bar | G | bar | |
| mm | mm | mm | | | | | | |

| Proportional pressure regulator | | | | | | | | 0... 10 V input and outlet signal, supply 24 V DC without display, with coupling socket | PE |
|---------------------------------|-----|----|---|------|----|------------------|---------|---|----|
| 52 | 112 | 67 | 4 | 780 | 6 | G ^{1/8} | 0... 3 | PEA41-030 | |
| | | | | | 9 | | 0... 6 | PEA41-060 | |
| | | | | | 13 | | 0... 10 | PEA41-100 | |
| | | | | | 6 | G ^{1/4} | 0... 3 | PEA42-030 | |
| | | | | | 9 | | 0... 6 | PEA42-060 | |
| | | | | | 13 | | 0... 10 | PEA42-100 | |
| 66 | 138 | 78 | 8 | 1650 | 6 | G ^{1/4} | 0... 3 | PEA82-030 | |
| | | | | | 9 | | 0... 6 | PEA82-060 | |
| | | | | | 13 | | 0... 10 | PEA82-100 | |
| | | | | | 6 | G ^{3/8} | 0... 3 | PEA83-030 | |
| | | | | | 9 | | 0... 6 | PEA83-060 | |
| | | | | | 13 | | 0... 10 | PEA83-100 | |



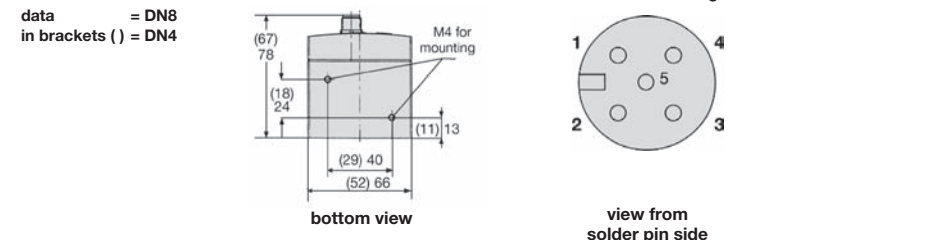
Special options, add the appropriate letter

| | | |
|----------------|-------------------------------------|-----------|
| display | 3-digit, red | PEB..... |
| flange version | | PE..F... |
| NPT | connection thread | PE.....N |
| 0... 20 mA | setpoint input and monitor signal | PE.....1 |
| 4... 20 mA | setpoint input and monitor signal | PE.....2 |
| 0... 10V | cascade control, double loop 0-10V | PE.....KU |
| 4... 20 mA | cascade control, double loop 4-20mA | PE.....KI |

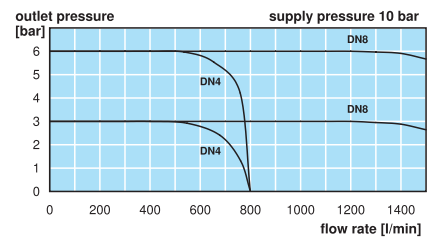
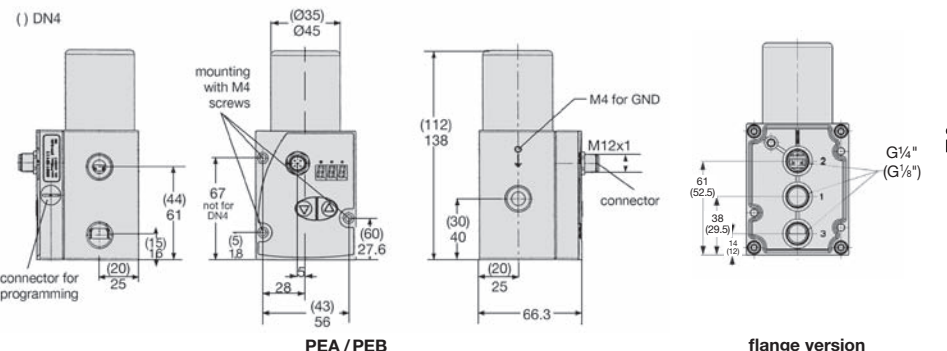
for PEA41 / 82

Accessories, enclosed

| | | |
|-----------------|---|------------------------|
| RS232 module | with D-sub plug and 2 m cable | PERS232 |
| software | basic version "Light" | PESOF1 |
| coupling socket | M12x1, 5-pin, with 2 m cable, 5 x 0.25 angular 5 m cable, 6 x 0.56 angular | KM12-C5-2 KM12-C5-5 |



| pin | description | 5 wire cable (2m) | 6 wire cable (5m, 10m) |
|---------|--------------------------------|-------------------|------------------------|
| 1 | 24V supply voltage | brown | brown |
| 2 | analogue input signal | white | white |
| 3 | supply earth | blue | green |
| | analogue earth | | yellow |
| 4 | analogue outlet signal | black | pink |
| 5 | digital pressure switch signal | grey | grey |
| housing | EMV shield | shield | shield |



*1 at 6 bar supply pressure and 5 bar outlet pressure



Order example:
PEA41-030
China website: www.duray-control.cn

