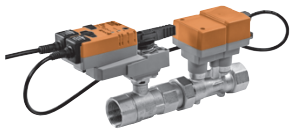
# Pressure-independent Valves.
## EPIV Control Valves – internal thread

| | | Running times | (Control) Operating range | EP.. |
|---|---|---|---|---|
| modulating | **AC/DC 24 V** | 90 s | DC (0) 0.5...10 V variable |  |
| communication | **AC/DC 24 V** | 90 s | MP-Bus / Modbus RTU, DC (0) 0.5...10 V variable | **Actuator is a component of the valve.** |

| **Internal thread Rp** ISO 7/1 | **PN 16** $T_{max}$=120°C | | | | | **Range of use** closed circuits (pH > 7) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2-way** | **DN** [mm] | **DN** [Zoll] | **$V_{nom}$** [l/s] | **$V_{nom}$** [l/min] | **$k_{vs}$ 1)** [m³/h] | **Δps** [kPa] | **Δpmax** [kPa] | **Δps** [kPa] | **Δpmax** [kPa] | **Δps** [kPa] | **Δpmax** [kPa] |
| **EP015R+MP** | 15 | ½" | 0.35 | 21 | 2.9 | 1400 | 350 | | | | |
| **EP020R+MP** | 20 | ¾" | 0.65 | 39 | 4.9 | ↕ | ↕ | | | | |
| **EP025R+MP** | 25 | 1" | 1.15 | 69 | 8.6 | 1400 | 350 | | | | |
| **EP032R+MP** | 32 | 1¼" | 1.8 | 108 | 14.2 | | | 1400 | 350 | | |
| **EP040R+MP** | 40 | 1½" | 2.5 | 150 | 21.3 | | | 1400 | 350 | | |
| **EP050R+MP** | 50 | 2" | 4.8 | 288 | 32.0 | | | | | 1400 | 350 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **2-way emergency control function** | **DN** [mm] | **DN** [Zoll] | **$V_{nom}$** [l/s] | **$V_{nom}$** [l/min] | **$k_{vs}$ 1)** [m³/h] | **Δps** [kPa] | **Δpmax** [kPa] | **Δps** [kPa] | **Δpmax** [kPa] | **Δps** [kPa] | **Δpmax** [kPa] |
| **EP015R+KMP** | 15 | ½" | 0.35 | 21 | 2.9 | 1400 | 350 | | | | |
| **EP020R+KMP** | 20 | ¾" | 0.65 | 39 | 4.9 | ↕ | ↕ | | | | |
| **EP025R+KMP** | 25 | 1" | 1.15 | 69 | 8.6 | 1400 | 350 | | | | |
| **EP032R+KMP** | 32 | 1¼" | 1.8 | 108 | 14.2 | | | 1400 | 350 | | |
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|---|---|---|---|---|---|---|---|---|---|---|---|
| **2-way Modbus RTU actuator** | **DN** [mm] | **DN** [Zoll] | **$V_{nom}$** [l/s] | **$V_{nom}$** [l/min] | **$k_{vs}$ 1)** [m³/h] | **Δps** [kPa] | **Δpmax** [kPa] | **Δps** [kPa] | **Δpmax** [kPa] | **Δps** [kPa] | **Δpmax** [kPa] |
| **EP015R+MOD** | 15 | ½" | 0.35 | 21 | 2.9 | 1400 | 350 | | | | |
| **EP020R+MOD** | 20 | ¾" | 0.65 | 39 | 4.9 | ↕ | ↕ | | | | |
| **EP025R+MOD** | 25 | 1" | 1.15 | 69 | 8.6 | 1400 | 350 | | | | |
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1) Theoretical $k_{vs}$ value for pressure drop calculation.

Control, operating range, position feedback, running time and further functions are parameterisable with PC-Tool or ZTH EU.