

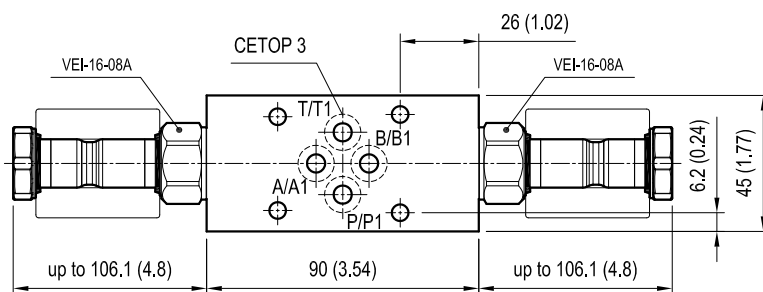
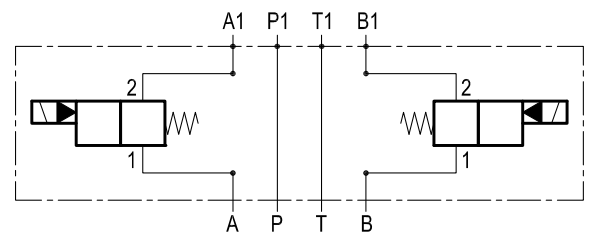
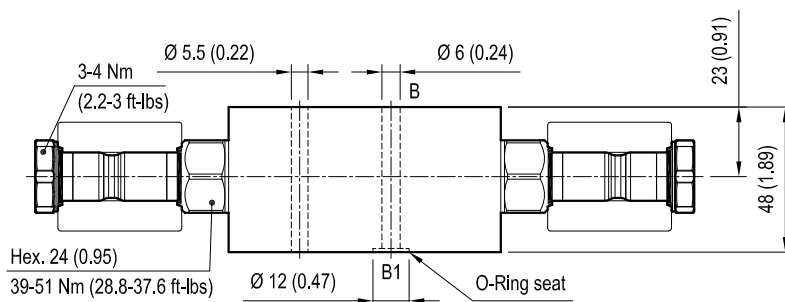
# Sandwich valve module with solenoid valve

EM-VEI-16-08A-CETOP 3-A/B

OP.15 - K - 18 - 29 - X - Y

**RE 18332-84**

Edition: 12.2016



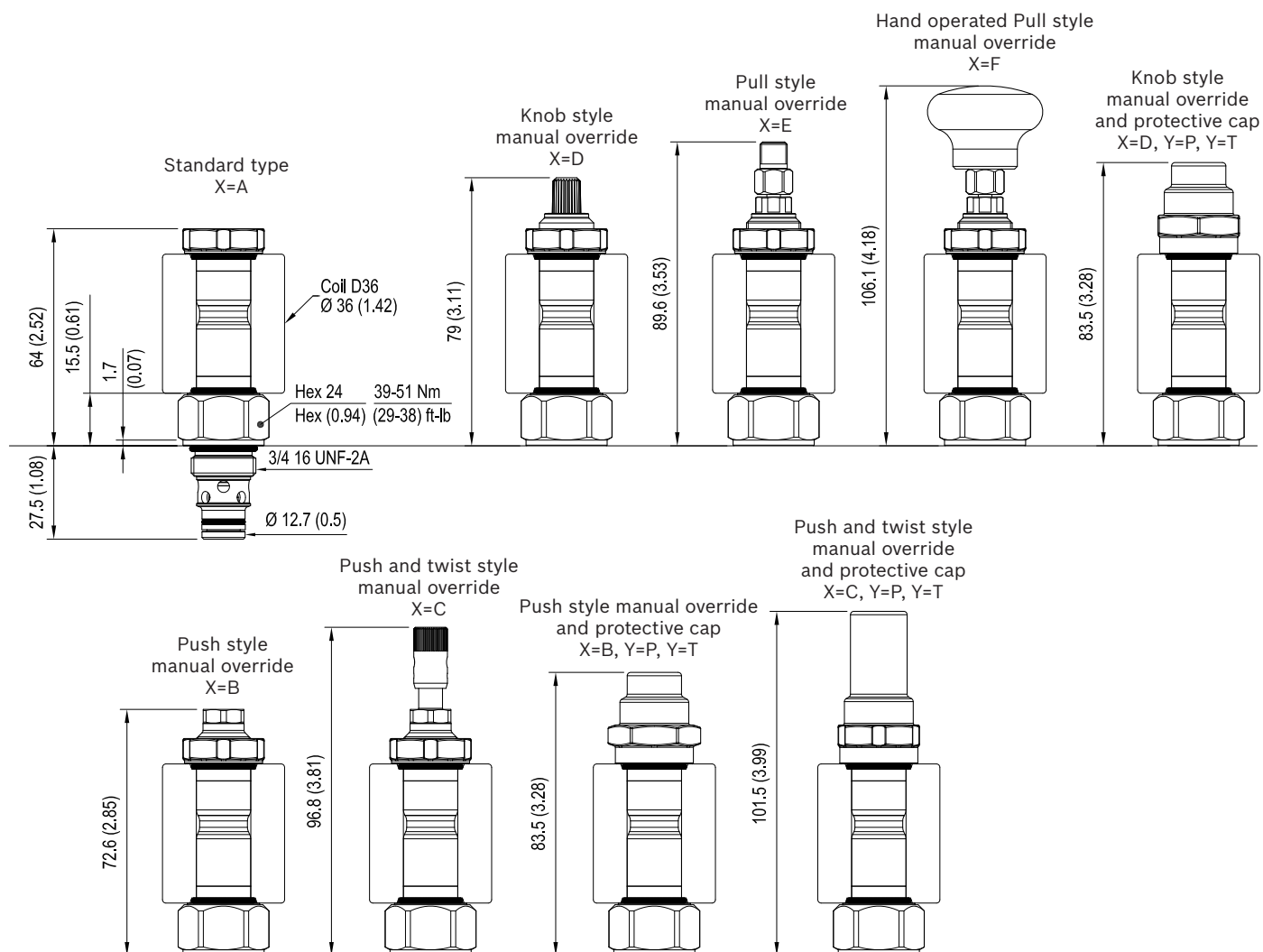
## Cartridge schemes (K)

| monodirectional type | bidirectional type |
|----------------------|--------------------|
|                      | 05                 |
|                      | 06                 |
|                      | 31                 |
|                      | 32                 |

[ mm (inches) ]

## Technical data

|                                                                                                                                                                                                    |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Max. flow                                                                                                                                                                                          | 40 l/min (11 gpm)            |
| Max operating pressure                                                                                                                                                                             | 210 bar (3000 psi)           |
| Ambient temperature range                                                                                                                                                                          | -30 to 90 °C (-22 to 194 °F) |
| Standard manifold in high strength aluminium.<br>For working pressure up to 350 bar (5000 psi) and for fatigue applications with any working pressure, steel manifolds are available upon request. |                              |
| Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm <sup>2</sup> /s (cSt)                                                                               |                              |
| MTTFd                                                                                                                                                                                              | 150 years see RE 18350-51    |
| Other technical data                                                                                                                                                                               | See data sheet 18350-50      |



### Cartridge technical data

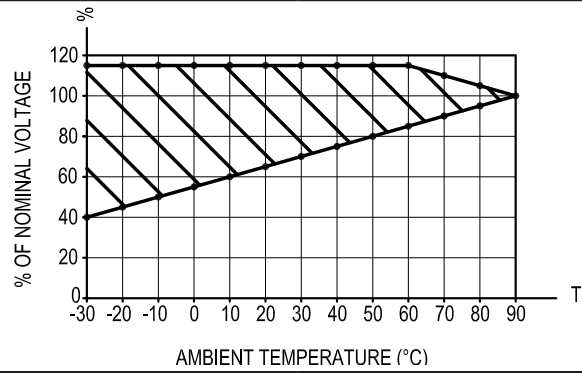
| General                                                                                                 |                                                    |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Installation orientation                                                                                | Unrestricted                                       |
| Ambient temperature range                                                                               | -30 to 90 °C (-22 to 194 °F)                       |
| Hydraulic                                                                                               |                                                    |
| Max. operating pressure                                                                                 | 350 bar (5000 psi)                                 |
| Flow range                                                                                              | 0.5 - 40 l/min (0.1 - 11 gpm)                      |
| Max. internal leakage                                                                                   | 5 drops/min.                                       |
| Switching time                                                                                          | Opening ≤ 50 ms<br>Closing ≤ 100 ms                |
| Fluid temperature range                                                                                 | -20 to 80 °C (-4 to 176 °F)                        |
| Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 20 to 380 mm²/s (cSt) |                                                    |
| Installation torque                                                                                     | 39 - 51 Nm (29 - 38 ft-lbs)                        |
| Recommended degree of fluid contamination                                                               | Nominal value max. 10 µm (NAS 8) ISO 4406 19/17/14 |
| MTTFd                                                                                                   | 150 years see RE 18350-51                          |
| Cavity                                                                                                  | CA-08A-2N<br>see data sheet 18325-70               |
| Other technical data                                                                                    | See data sheet 18350-50                            |

| Electrical                                    |                          |
|-----------------------------------------------|--------------------------|
| Type of voltage                               | DC voltage               |
| Coil type                                     | D36                      |
| Supply voltage                                | See data sheet 18325-90  |
| Voltage tolerance against ambient temperature | See characteristic curve |
| Power consumption                             | 20 W                     |
| Type of protection                            | See data sheet 18325-90  |
| Note: Coils must be ordered separately        |                          |

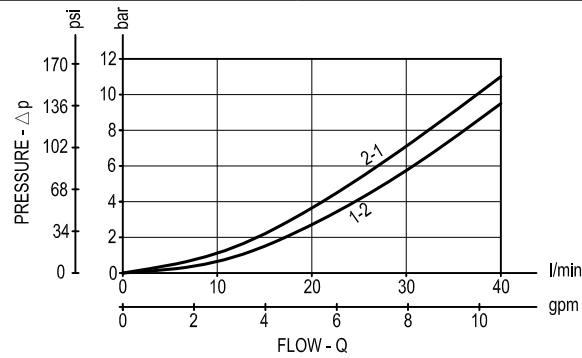
| TAB. 1                  |   | Manual override options (X) |              |              |              |              |              |
|-------------------------|---|-----------------------------|--------------|--------------|--------------|--------------|--------------|
| Seal and prot. cap. (Y) |   | A                           | B            | C            | D            | E            | F            |
|                         | O | K=all versions              | K=06<br>K=32 | K=06<br>K=32 | K=05<br>K=31 | K=05<br>K=31 | K=05<br>K=31 |
|                         | V | K=all versions              | K=06<br>K=32 | K=06<br>K=32 | K=05<br>K=31 | K=05<br>K=31 | K=05<br>K=31 |
|                         | P | /                           | K=06<br>K=32 | K=06<br>K=32 | K=05<br>K=31 | /            | /            |
|                         | T | /                           | K=06<br>K=32 | K=06<br>K=32 | K=05<br>K=31 | /            | /            |

## Characteristic curves

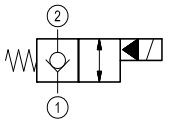
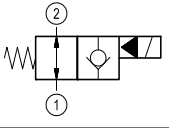
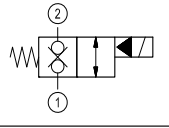
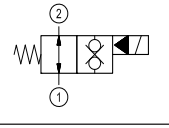
All Versions - Admissible supply voltage Vs. Ambient temperature at 100% duty cycle



All Versions



Ordering code

| OP.15                                                                              | K                                                                                                                                                                                                                                                                              | 18 | 29 | X | Y |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|---|---|
| Sandwich valve<br>module with solenoid valve                                       | <b>Cartridge seals and accessories options</b><br><br>O = With buna seal<br>V = With Viton seal<br>P = With buna seal and protective cap for override version <b>B, C</b> and <b>D</b><br>T = With Viton seal and protective cap for override version <b>B, C</b> and <b>D</b> |    |    |   |   |
|                                                                                    | <b>Cartridge options</b><br><br>A = Standard<br>B = Push style manual override<br>C = Push and twist style manual override<br>D = Knob style manual override<br>E = Pull style manual override<br>F = Hand operated pull style manual override                                 |    |    |   |   |
|                                                                                    | Flange CETOP 3 (DOT3)                                                                                                                                                                                                                                                          |    |    |   |   |
|                                                                                    | Common cavity size 08                                                                                                                                                                                                                                                          |    |    |   |   |
|                                                                                    |                                                                                                                                                                                                                                                                                |    |    |   |   |
|   | 05                                                                                                                                                                                                                                                                             |    |    |   |   |
|   | 06                                                                                                                                                                                                                                                                             |    |    |   |   |
|   | 31                                                                                                                                                                                                                                                                             |    |    |   |   |
|  | 32                                                                                                                                                                                                                                                                             |    |    |   |   |

**Note:** for solutions availability (K-X-Y combinations), please refer to TAB.1 on page 2.

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