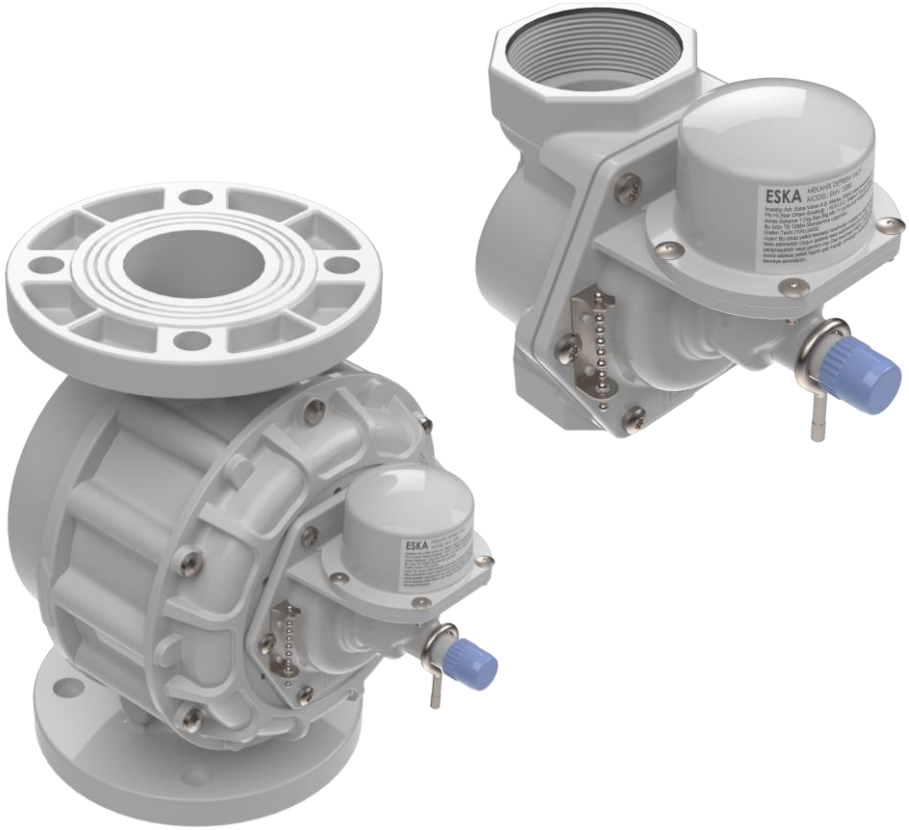
ESKA

Gas Technologies

# EMV Series




**ESKA**

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# Why ESKA?

With a deep understanding of the need for manufacturers to be close to gas distribution companies understanding their requirements and providing tailored solutions, ESKA grew to become a leading manufacturer of gas stream equipment. We start every day with a belief that change is constant, and the flexibility to follow that change and provide up to date solutions is crucial in the energy sector.

We manufacture gas stream equipment that are designed based on the needs of our partners. We strive to help gas distribution companies provide safe energy to their clients and to assist our partners with flexible business models that promote mutual growth.

Our commitment is to continually improve our products, ensuring the highest standards of safety and quality at an affordable cost, protecting end users while supporting our partners' success.


**60 Years Know-how**

**Global Reach in 65 Countries**

**Localized Support**

# Application Area

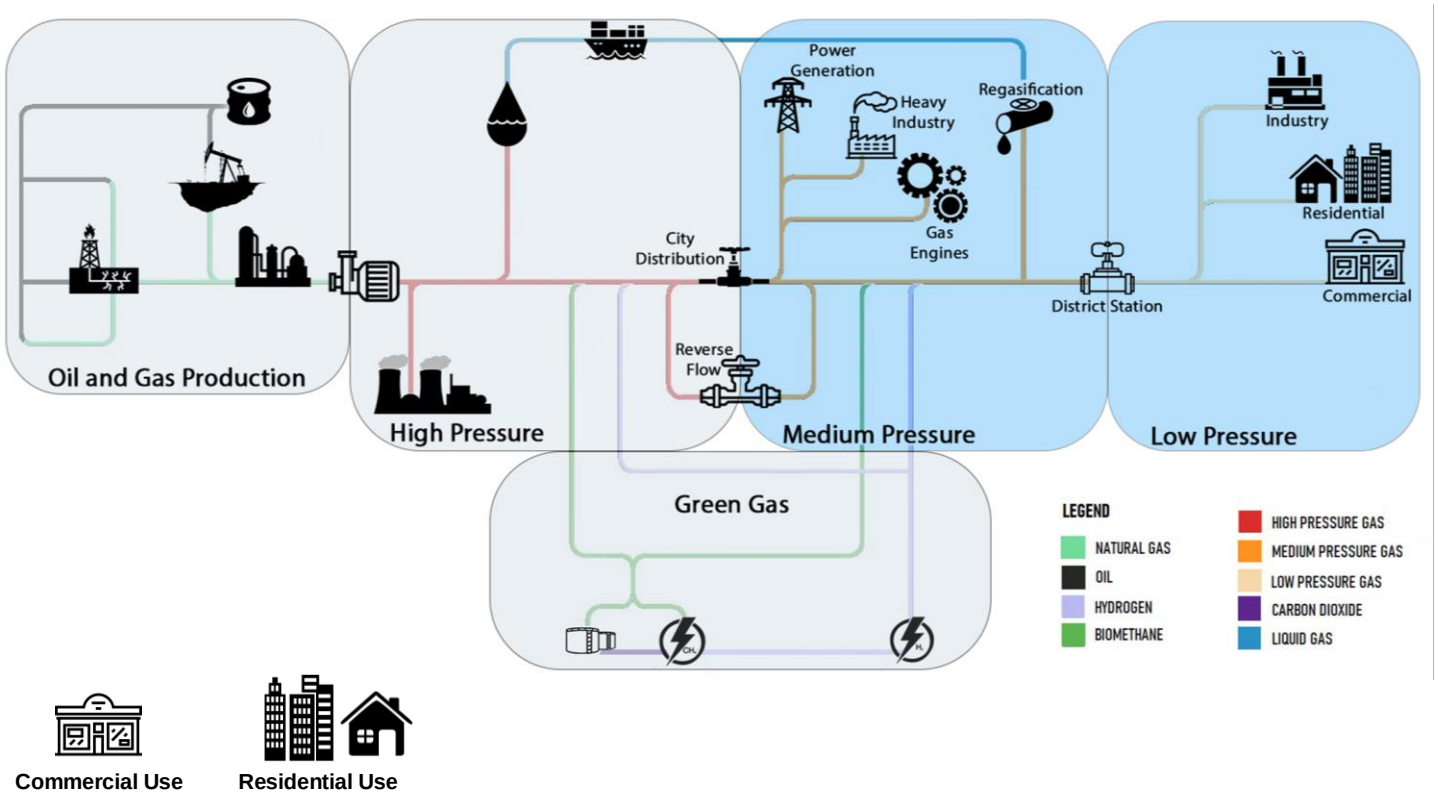



Figure 1: Gas Distribution Map

# Introduction and Features

EMV Series Earthquake Valve is a shut off valve which is activated during seismic oscillation. Activation and non-activation waves are defined in TS 12884 Turkish Standard. This Turkish standard is created based on ANSI Z11 standard in United States. Once mechanical actuation system sense the seismic oscilation, valve will shut the gas off and you should rearm manually in order to reactivated gas flow. This valve basicaly is a manual reset, normally open gas valve. Main aim to decrease the risk of fire related to gas leakage, in case of earthquake occurs. In countries that this safety system is avaliable, main regulation is done by fire safety department.

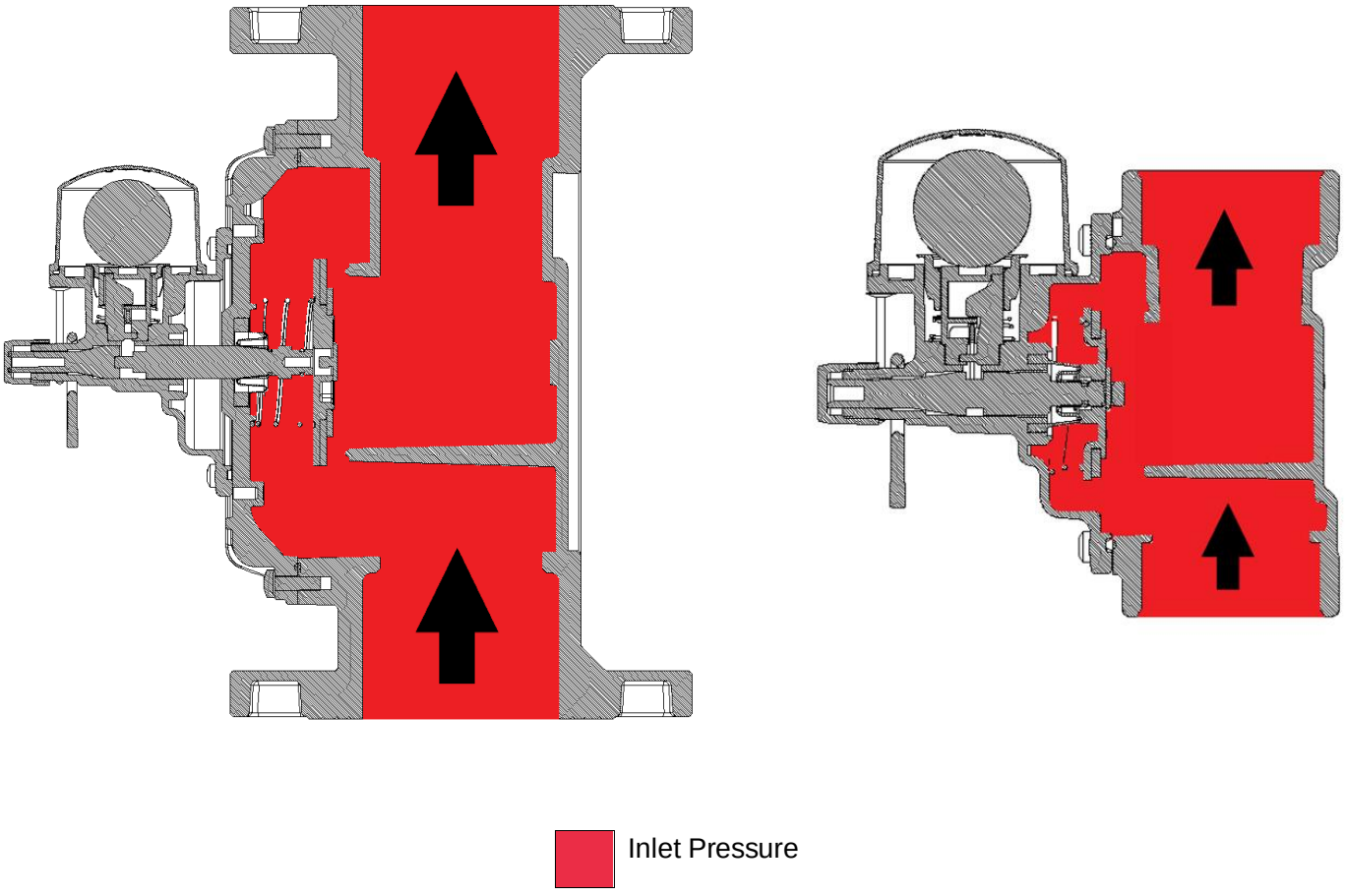



Figure 2: EMV Pressure Display

# Characteristics

Table 1: EMV Series characteristics

| Feature | Values |
|---|---|
| Maximum Working Pressure | 510 mbar |
| Ambient temperature | -10°C to 51,5°C |
| Configuration | Inline |
| Connection Position | Vertical and/or Horizontal (for DN25, DN32, DN40, DN65, DN80, DN100)<br>:Vertical (for DN50), |
| Connections | Threaded[2] = (DN 15 to DN 50) [1]<br>Flanged = DN 65 to DN 100 |
| [1] Different modular connection options include BSPP, BSPT and NPT.<br>[2] Threaded connections as EN 10266-2, TS EN ISO 228-1, ASME B1.20.1 NPT Standards. | |

# Materials and Approvals

Table 2: EMV Series Materials and Approvals

| Part | Material* | Standard |
|---|---|---|
| Body and Cover | Aluminium | EN 1706 |
| Diaphragm and | Nitril Rubber | EN 549 |
| *Above materials are listed for standard models. For other request please refer to our sales team or your local distributer. | | |

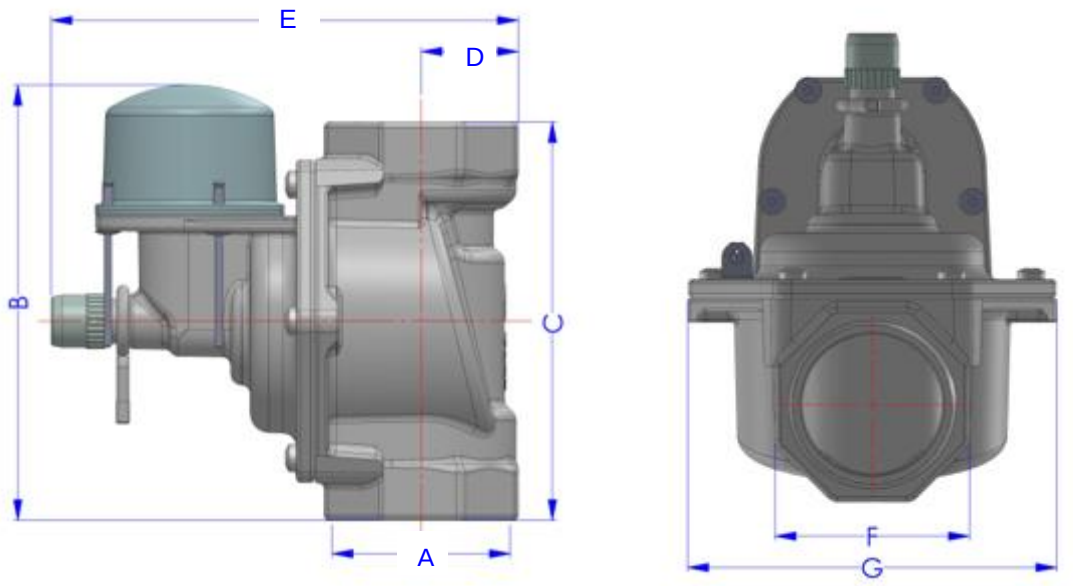
The EMV Filter is meticulously designed in compliance with the Turkish standard TS 12884, guaranteeing exceptional performance and reliability. Furthermore, the EMV series is certified under the European Directive 2014/68/EU (PED), demonstrating its conformity to rigorous safety and pressure equipment standards.

**TS 12884**

**PED**

# Technical Data

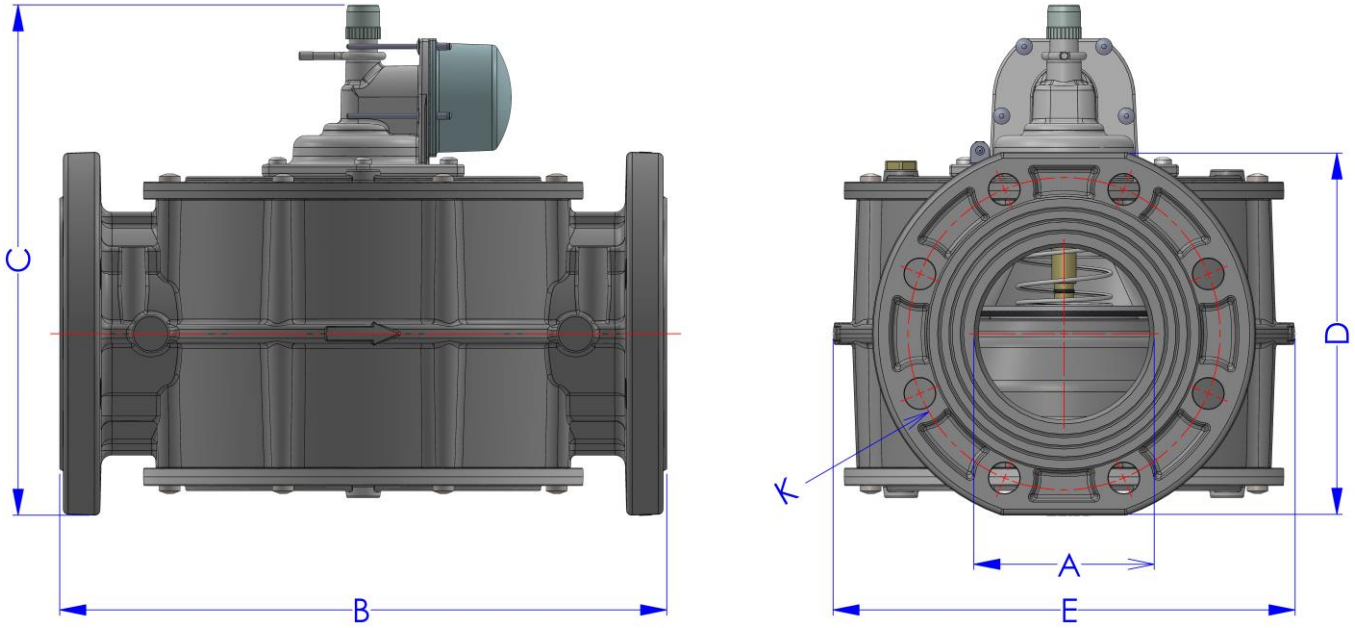
Figure 6: EMV Technical Dimensions (DN 25 – DN 50)




| MODEL | DN | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|---|
| EMV 1025 | 25 | 1" | 140 | 110 | 21,5 | 140 | AA 43 | 82 |
| EMV 1032 | 32 | 1 1/4" | 140 | 110 | 30 | 155,5 | AA 60 | 82 |
| EMV 1040 | 40 | 1 1/2" | 140 | 110 | 30 | 155,5 | AA 60 | 82 |
| EMV 1050 | 50 | 2" | 158 | 144 | 35 | 172 | AA 70 | 133 |
| *** The unit of the above values is mm** | | | | | | | | |

Table 3: EMV Series Dimension Table (DN 25 – DN 50)

Figure 8: EMV Technical Dimensions (DN 65 – DN 100)

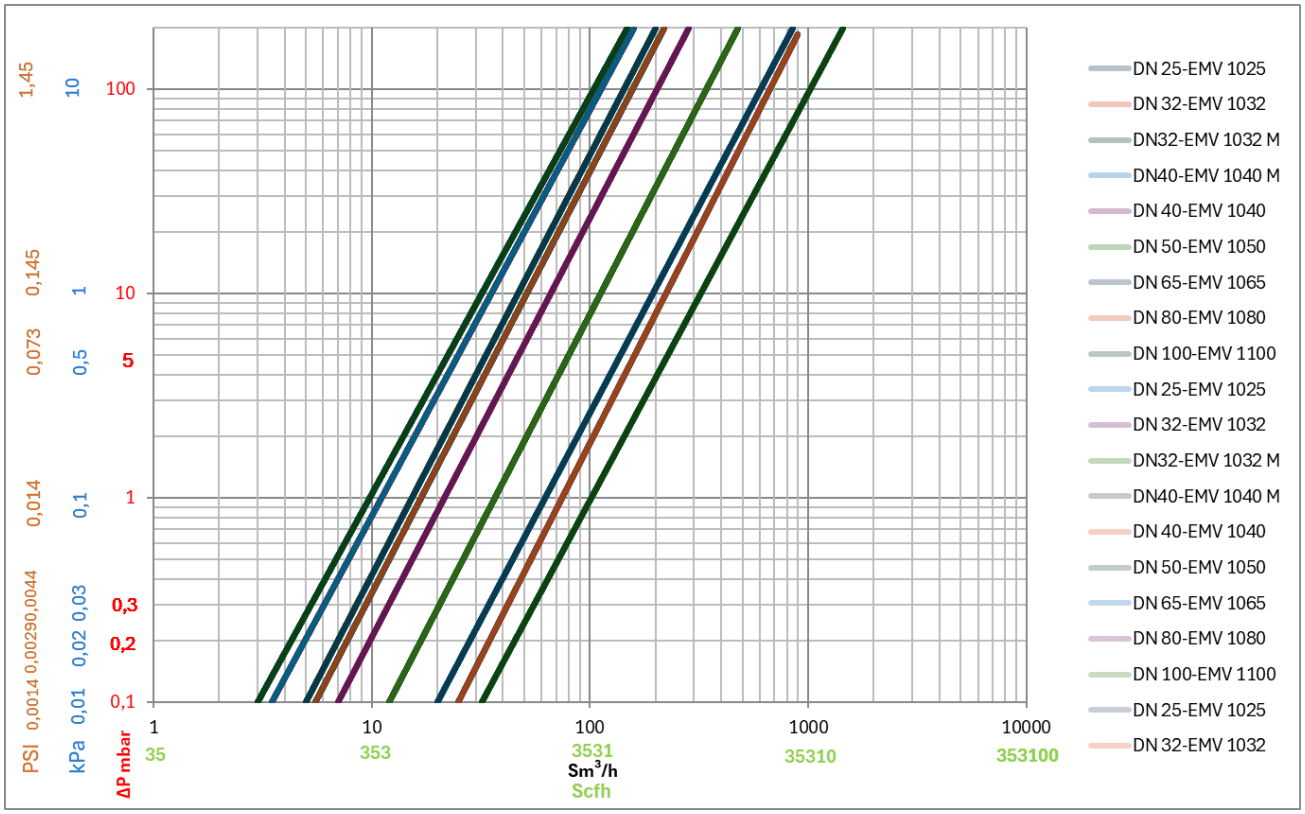



| MODEL | DN | A | B | C | D | E | K | Flanş Delik Sayısı |
|---|---|---|---|---|---|---|---|---|
| EMV 1065 | 65 | 70 | 290 | 290,5 | 194,5 | 218 | 145 | 4 |
| EMV 1080 | 80 | 85 | 310 | 298 | 202 | 218 | 160 | 8 |
| EMV 1100 | 100 | 100 | 350 | 294 | 195 | 254 | 180 | 8 |
| *** The unit of the above values is mm** | | | | | | | | |

Table 5: EMV Series Dimension Table (DN 65 – DN 100)

# Capacity Table

Table 6: EMV Series Capacity Table




# Packaging

Table 6: EMV Series Packing Information

| Product | Unit Weight | Package Size (LxWxH cm) | Number of Boxed Products in 1 Package | Total Package Weight | Pallet Total Items | Pallet Total Weight |
|---|---|---|---|---|---|---|
| EMV DN (25-40) | Approximately 1,2 kg | 45x31x31 | 20 | 24 kg | 1000 | Approximately 500 kg |
| EMV DN 50 | Approximately 1,5kg | 50x50x29 | 20 | 22 kg | 400 | Approximately 440 kg |

| | | | | | | |
|---|---|---|---|---|---|---|
| EMV DN (65-80) | Approximately 11,5kg | 30x23x32 | 1 | 11,5 kg | 50 | Approximately 580 kg |
| EMV DN 100 | Approximately 12 kg | 36x28x30 | 1 | 12 kg | 50 | Approximately 600 kg |

# ESKA

EMV Series
USER MANUAL

This manual is subject to change according to technical developments.

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