

Automatic linear flow control valve AKV



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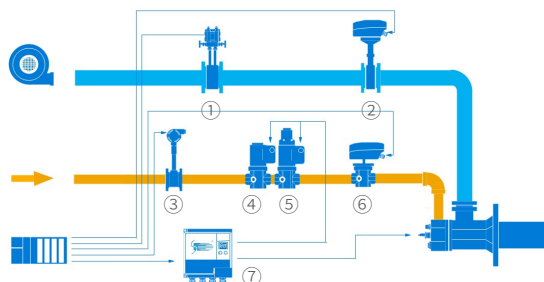


CHARACTERISTICS

- Linear relationship between adjustment angle and flow rate.
- Used with SAM 1P/4P for high-precision automatic linear flow control.
- Flow rate control ratio up to 25:1.
- Suitable for gas and room temperature air, Rp thread connection.
- Maximum inlet pressure: 200 mbar.
- Low leakage.

APPLICATION

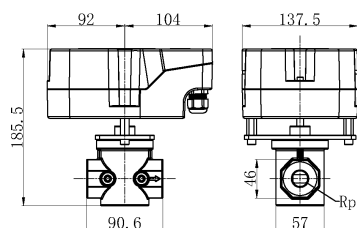
The AKV is mostly used in conjunction with actuator SAM 1P/4P and controlled by three-point step signal or continuous signal. Generally, AKV is used in continuously controlled combustion systems that require precise adjustment of flow rate.



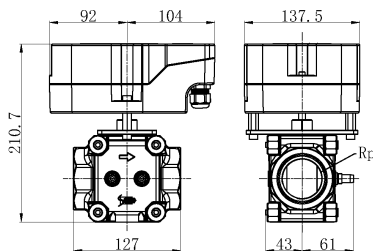
- ① Air flow meter
- ② Air valve SAM 2P+HTB
- ③ Gas flow meter or pressure regulator
- ④ Gas solenoid valve SG..Q
- ⑤ Gas solenoid valve SG..S
- ⑥ Linear flow control valve AKV (SAM1P/4P)
- ⑦ Burner control unit SCU 4.1

- An automatic linear flow control valve installed on the gas pipeline works with a flow meter to achieve the precise control of gas.
- It can also be used in double-cross limit flow control system as an automatic control valve for gas or air main pipelines in different zones.

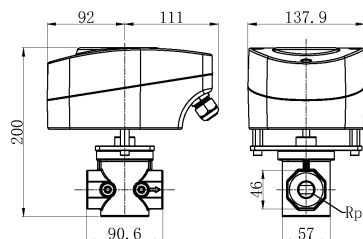
DIMENSIONS



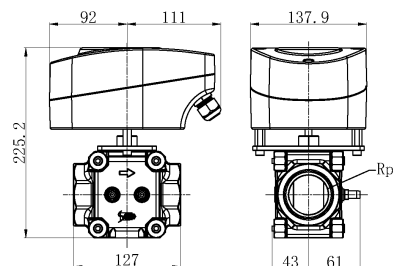
AKV 15/20/25 + SAM 4P



AKV 32/40/50 + SAM 4P



AKV 15/20/25 + SAM 1P



AKV 32/40/50 + SAM 1P

Unit: mm

SPECIFICATION

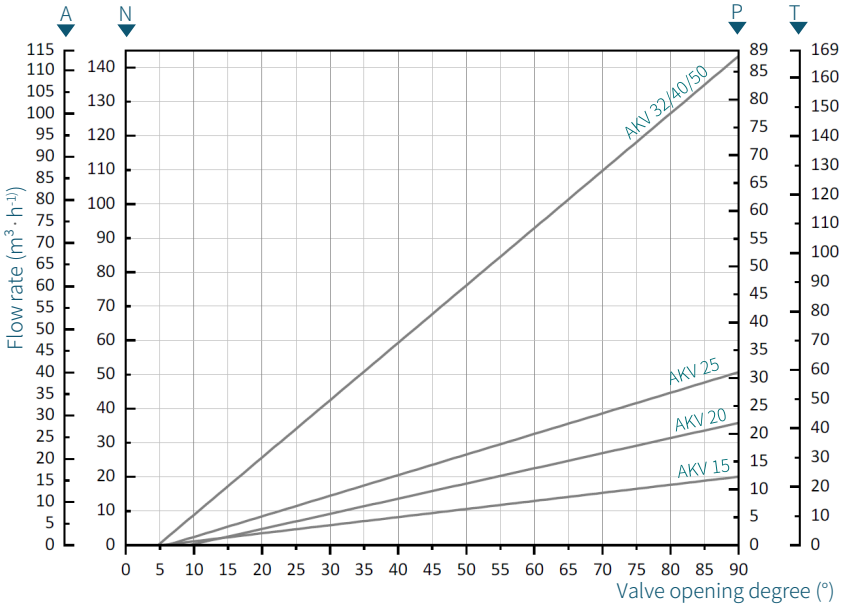
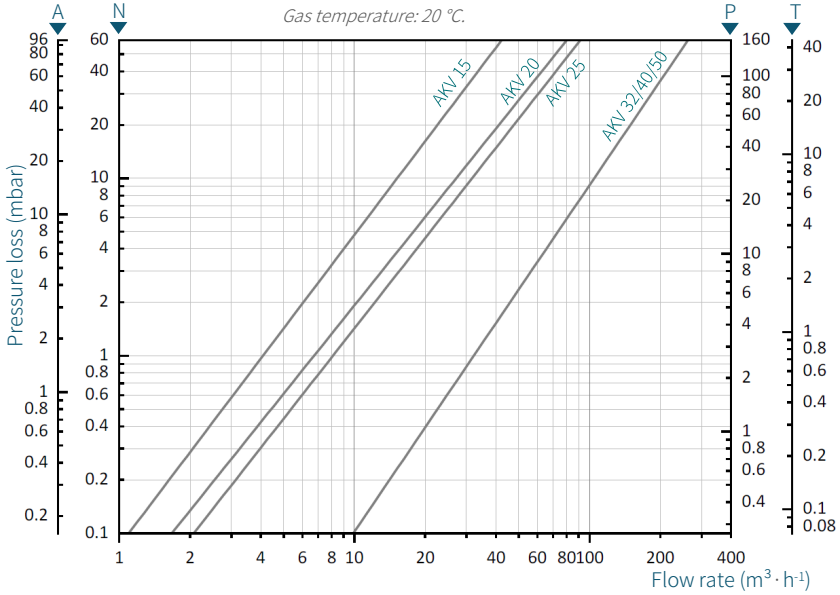
A: air, 1.2 kg/m³

N: natural gas, 0.75 kg/m³

P: LPG, 2.0 kg/m³

T: town gas, 0.55 kg/m³

Gas temperature: 20 °C.



2024/05

** The AKV 32 (Rp1¼") and AKV 50 (Rp2") have the same function and characteristic curve as the AKV 40.*

** The temperature of test medium above is 20 °C.*

** Test condition of pressure loss-flow rate curve: the valve opening is 90° (100%).*

** Test condition of flow rate-valve opening curve: the pressure loss over valve is 2 kPa.*

INSTALLATION

- Assembled with actuator SAM 1P or SAM 4P.
- The actuator is installed facing outwards or upwards, and remember to reserve enough space for easy-to-maintain and wiring.
- Ambient temperature: -15~60 °C. Keep away from heat source when installing.
- The arrow on the valve body indicates the flow direction. Determine the installation direction according to the arrow.
- Use sealing materials such as Teflon tape correctly to prevent foreign matter from falling into the valve.

