

'AVCON' Motorised Linear Valve, Model 'MLV'

DATA SHEET
MLV-100/200

- *Actuated via 'On-Off' signal (standard) or continuous signal (MLV..E/MA).
- *Simple automatic/manual switching for easy start-up (option).
- *Position indicator can be read externally.
- *Infinitely adjustable switching cams.
- *Linear behaviour between regulating angle and volume flow.
- *Large control ratio of 25:1.
- *Electronic position feedback 4 - 20 mA possible (extra).

APPLICATION

For regulating the volume flow of gaseous media in Furnaces, Boilers; also in Heating application.

FUNCTION

The Linear Flow Control Valve (MLV) works according to the rotary valve principle. A flow control cylinder (Fig.4 pos.1) with an opening specially designed for Linear flow is installed in the flow body (Fig.4 pos.1). This flow control cylinder sets the desired volume flow by being turned (Fig.1 to 3). The maximum flow can be limited to broad ranges by means of a throttle cylinder (Fig.4 pos.3) (see volume flow diagram). As a result, an optimal adaption to the performance required is enabled without limiting the control performance (Fig.5 to 7). The setting takes place by means of the setting spindle (Fig.4 pos.4).

TECHNICAL DATA

Types of gas	: Natural gas, Town gas, LPG (gaseous) and air, other gases on request.
Control ratio	: 25:1.
Leakage quantity	: <2% of Kvs-value.
Max. input pressure	: 500 mbar.
Running times	: 30s;
Connection flange with internal thread available	: BSP (F) to BS-21-1973(RP)
Mains voltage	: 220-240 V AC, -15/+10%, 50/60 Hz, 110-120 V AC, -15/+10%, 50/60 Hz, 24 V AC, -15/+120%, 50/60 Hz.
Power consumption	: 18 VA.
Operating factor	: 100%
Enclosure rating	: IP 54 acc. to IS -13947-Part1-1993.
Cam contact load	: 60 to 250V, 50/60 Hz, max. 2 A (resistive load). 24 V requires special version with gold plated contacts (MLV..G).
Contact load at 30V	: max.100 mA.
Electrical connection	: 2.5mm ² terminal strip, PG11.
Housing	: Aluminium.
Governor Cylinder	: Delrin
Ambient temp	: (-)20 to (+)60°C.
Installation position	: as desired.
MLV..E with built-in positioning control.	
The following signal forms can be processed.	
- 0 to 20mA, 4 to 20mA	
- 0 to 10 V or	
Input resistance	: 500 W(load): 0 (4) to 20 mA

ACCESSORIES

A vast range of accessories are available for the series - MLV (see leaflet accessories).

