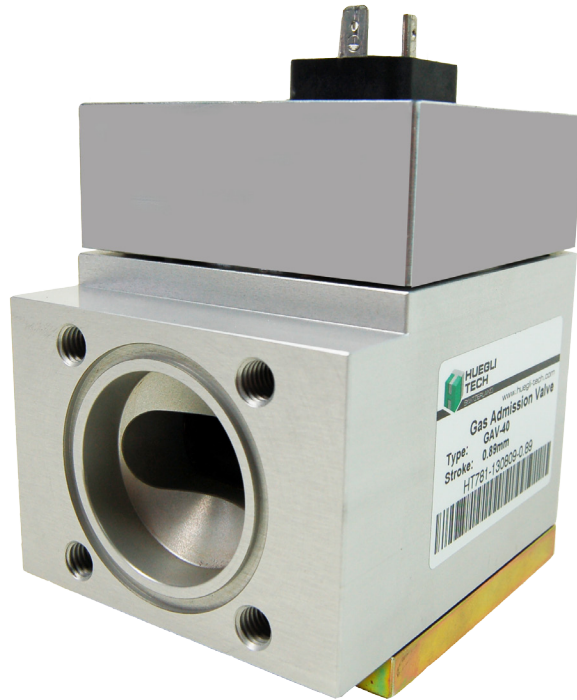


# GAV Gas Admission (Injection) Valve

## GAV Valve

### Features and Benefits

- High precision
- 100% sealed through special rubber material high temp
- For Natural gas or other gases
- Integrated Design
- Sealing through O-Ring Design



## GAV 40 Gas Admission (Injection) Valve

The GAV solenoid operated gas admission valve is designed for use on four-cycle turbo-recharged engines to govern the required amount of fuel admitted into the inlet port of the cylinder head depending on engine speed and load.

To govern the required amount of gas by means of the GAV, an electronic control system must be used for the valve control.

The engine load and speed are governed by the amount of gas admitted into the inlet port which is proportional to the duration of the GAV valve opening.

The GAV valve must ensure rapid valve opening and closing (a fast response to the control signal) together with reliable valve opening for the whole requested period of time.

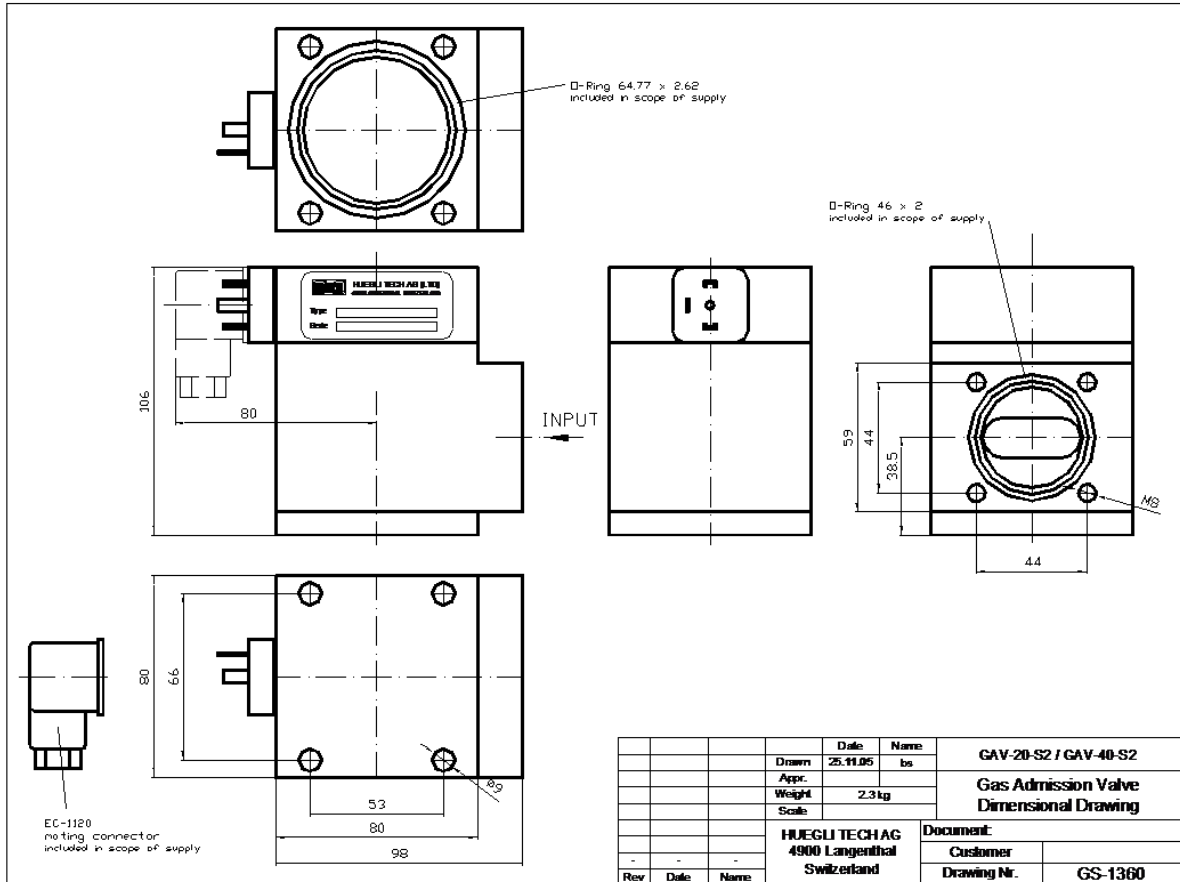
Consequently, the GAV valve features short travel, the moving valve plate is opened by the solenoid force and closed by the spring force together with gas pressure. The design provides a complete seal in the closed position of the valve.

Caution: The GAV valve must not be used as a shut off valve. To serve this purpose, an independent shut off gas valve must be installed.

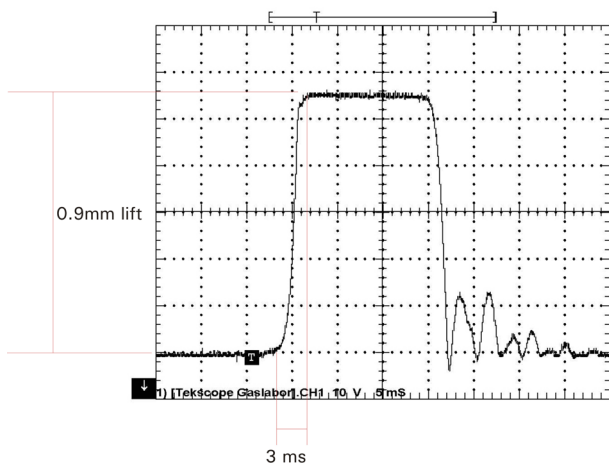
# GAV Gas Admission (Injection) Valve

GAV-40 Gas Valve Series

## Dimensions



## VALVE TRAVEL MEASUREMENT RELATED TO TIME (FUNCTIONAL TEST)



## Technical Specifications

GAV-40 Gas Valve Series

Operating voltage.....	150 VDC
Cross-sectional area of flow.....	700 sq.mm
Lift.....	0.9 mm
Working medium.....	Gaseous fuel (natural gas etc.)
Switching frequency.....	12.5 Hz max.
Response.....	- time to full open      0.003 s max.
.....	- time to full closed      0.003 s max.
Ambient temperature.....	(permanently) -40.....+100 °C
Ambient temperature.....	(short-term)      125 °C max.
Protection class.....	IP 64
Classification for use in atmospheres.....	Non-explosive atmosphere
Max. gas supply pressure.....	500kPa (5 bar)
Max. Air manifold pressure.....	390kPa (3.9 bar)
Max. gas pressure difference.....	110kPa (1.1 bar)
Max. Backfire pressure.....	10kPa (0.1 bar)
Inlet gas temperature.....	60 °C max.
Solenoid core resistance.....	15.3 Ω +/- 5%

### Local Distributor / Partner:



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