

ASTARTE

PNEUMATICALLY OPERATED VALVE FOR GAS PN 250 bar



TECHNICAL FEATURES

ACTUATOR:

- body in PA66 reinforced glass fibres
- piston in nickel-plated brass
- dynamic seals: NBR
- shaft: stainless steel AISI 316
- room temperature between -25°C and $+80^{\circ}\text{C}$
- cylinder volume 0.11 dm^3
- supply pressure between 4 bar and 10 bar
- opening time 0,18 sec. – closing time 0,26 sec (measured with 3/2 control valve with bore 2,3 mm)

VALVE BODY

- nominal pressure PN 250 Bar
- bursting pressure $> 1000\text{ Bar}$
- material : 1.4408 - CF8M (stainless steel AISI 316)
- connections: $\frac{1}{2}''$ ISO 228
- main seals: PTFE TFM 1600
- fluid temperature between -25°C and $+80^{\circ}\text{C}$
- flow $\text{Kv } 5\text{ m}^3/\text{h}$
- nominal diameter DN 15
- flow direction: unidirectional, as indicated on the valve body.

PART NUMBER : ZGS-0-T-18-04

In the last ten years the problem of the environmental protection and of the reduction of the thin powder pollution (produced by the traditional fuel combustion) has induced the Municipal Administrations to use more and more often Methane as fuel for public transport. Moreover different kind of public incentives have promoted the use of Methane-fed vehicles also in the private sector. Accordingly it is become necessary to realize enough filling stations on the territory, in order to provide a satisfactory service. Methane is usually stored in tanks at a pressure of 250 bar and it is supplied at 200 bar of pressure. Nowadays it is distributed by high pressure ball valves, which do not have a long life or by solenoid valves that are not able to guarantee good performances in this application, because of their reduced internal bore.

The Omal valve type AstarTE ZGS OMAL is a valid solution to the problem of this specific application.

This valve is normally closed, pneumatically operated by means of a linear actuator.

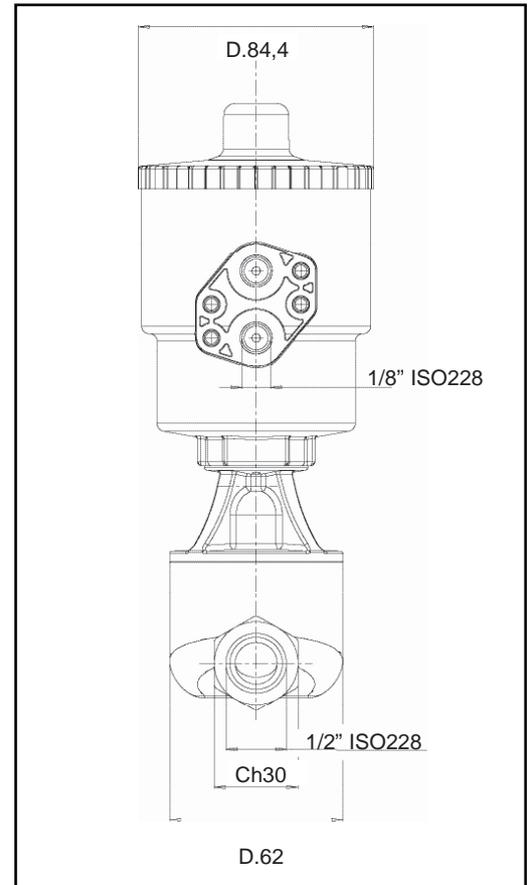
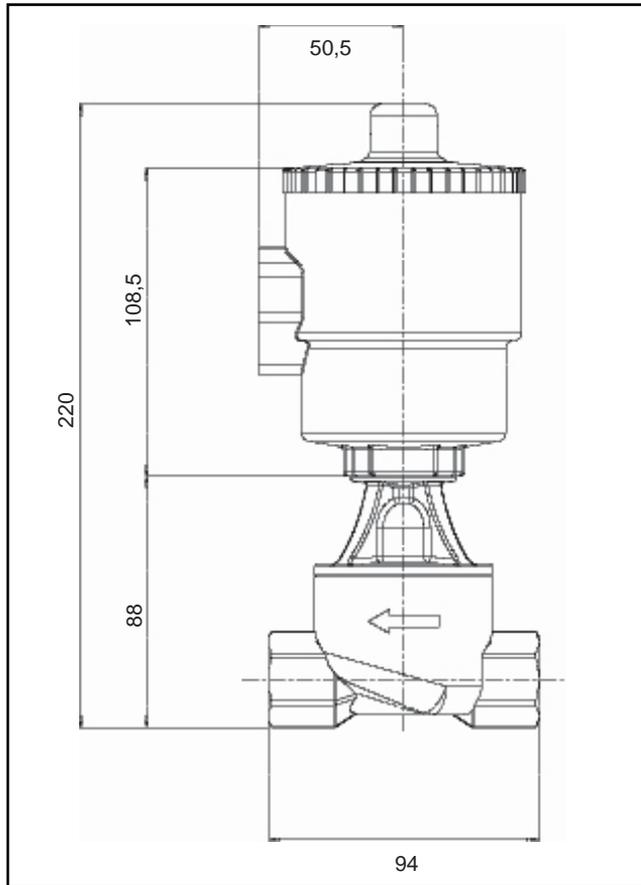
It can be installed in all positions, even vertical position with actuator at the bottom.

Minimum differential pressure required is 3,3 bar if the valve is installed with actuator turned up, almost zero bar with actuator down.

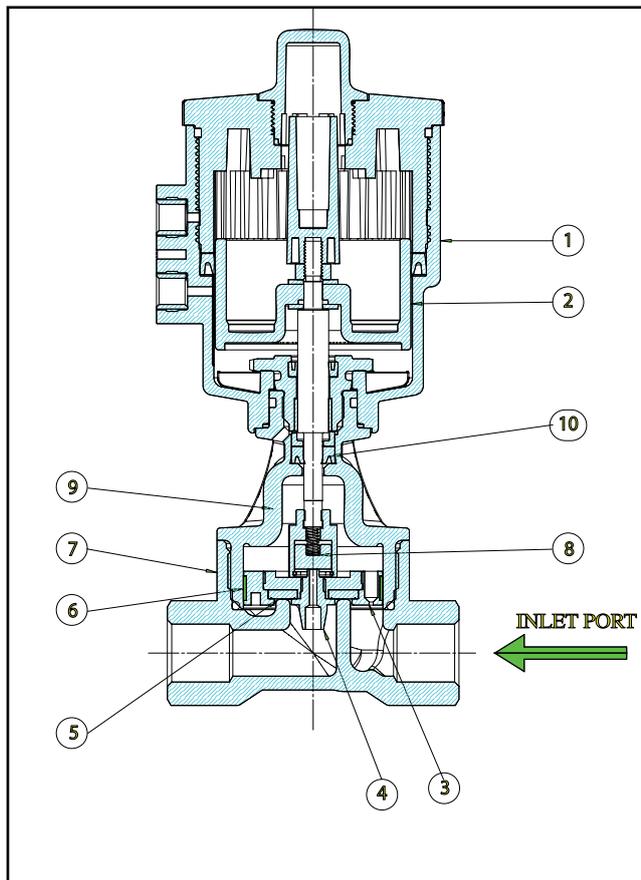


DIMENSIONS AND MATERIALS

DIMENSIONS



MATERIALS



Pos.	DESCRIPTION	MATERIALS
1	Linear pneumatic actuator	PA66 30% glass fiber
2	Actuator piston	Nikel plated brass
3	Valve piston with balancing nozzle	Brass
4	Pilot nozzle	Brass
5	Main seat	PTFE TFM 1600
6	Piston guiding seal	PTFE +15% graphite
7	Valve body	Stainless steel AISI316 (CF8M)
8	Pilot nozzle seat	PTFE +15% graphite
9	Valve neck with draining bore	Stainless steel AISI316 (CF8M)
10	Shaft seals	PU-HP high pressure polyuretane