

# **GV400 Series Big Port Glode Control Valve:**



GV400P-025NC-D50

# 1.Ordering Code :

GV400	Ρ	- 080	NC	- D	100	- W
Valve type						
GV400: 400 series globe control valve						
Actuator material code						
P: PA Actuator						
S: Stainless steel actuator						
Nominal diameter						
080: G3 100: G4						
Control function						
NC: Normally closed (standard type)						
NO: Normally open						
Acting type						
S: Single acting						
D: Double acting						
Actuator size						
90, 100, 125						
Material of valve body						
W: Wold and						

- W: Weld ends
- F: Flange ends



#### 2.Characteristics:

- 1) GV400 Series Plunger pilot angle seat valve is propelled by piston actuator, either single acting or double acting. Actuators are made of three different materials, applicable to different working temperature.
- 2) 2/2 ways stainless steel valve with big flow capacity, and V type seals ensure reliable and effective sealing.
- 3) Maintenance free, compatible with various accessories. Direction indicating, stroke limiting or manual switching can be achieved conveniently.
- 4) Flange ends and weld ends are optional.
- 5) Valve body material 304/316 optional.
- 6) Upstream & downsteam in flow direction optional.

#### **3.Specification:**

Port size	Upsteam DN80-100 G3~G4					
Material of body	Casting S.S. 304/316					
Material of Actuator	PA (S.S actuator is required)					
Sealing	PTFE (NBR, FKM, EPDM be required)					
Ambient and fluid	Air,water, oil(50CST below),steam,alcohol, fuel, saline solution,aqueous alkali,organic solvent					
Viscosity	Max.600mm <sup>2</sup> /s					
Packing glands seal	PTFE					
Medium Temperature	-10 to +180 $^\circ C$ with PTFE seal					
Ambient Temperature PA actuator Actuator size below 125mm	-10 to +60°C					
Operating Medium	Neutral gas, Air					
Max.pressure of pilot valve Actuator size 100mm Actuator size 125mm	PA 10bar PA 7bar					

\* 1 kgf/cm2 = 1 bar = 0.1 Mpa = 100KPa = 14.5psi



## 4. Installation of the valve:

1) Installation in any orientation but preferably with the actuator above.

**Note: Clean piping from contamination!!!** 2) Before attaching the valve housing, make sure the piping is aligned!

3) If the housing is to be welded on, make absolute sure that the actuator is removed before hand.

Devices with Approval DIN EN 161: According to DIN EN 161"Automatic Shut-off Valves for Gas burners and Gas applicances", a dirt trap must be connected upstream of valve. In order to maintain thread nipple approval, also with stainless steel housing, upstear of the valve.

#### 5. Procedure:

1. Remove the pneumatic supply and the electrical connection(if a pilot valve is attached).

2. Control function A:

Pressurize the lower control port of actuator with compressed air(6bar), so that the valve disk is lifter from the valve seat and it not damaged.

Control function B and I:

No compressed air must be applied.

3. Remove the actuator in the open valve position t

unscrewing the threaded nipple from the housing.

4. Before reinstalling the actuator( in the open valve position), grease the nipple thread with stainless steel lubricant.

5.Replace the graphite seal.

**ATTENTION!** For specical applications such as for oxygen and analysis, use only the approved lubricants 6. After tightening the threaded nipple, align the control ports by turning the actuator.

**ATTENTION!:** During this operation, the valve must be in the open position.

**NOTE:** For applications in aggressive media, we recommend attaching all free penuamtic connections to a pneumatic hose whose other end lies in a neutral atmostphere.

#### 6. Pneuamtic installation:

Control medium: Air

### 1) Direct connection to the piston control valve.

with control function A, at the lower connection of actuator with G1/4 thread.

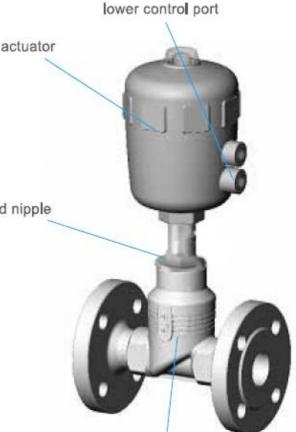
with control function B, at the upper connection of actuator with G1/4 thread.

with control function I, at the upper and lower connection of actuator with G1/4 thread.

#### 2) Connection via pilot valves.

Mount the solenoid valve Type 4M410-15 with NAMUR Adapter and banjo bolt on the actuator for double acting control functions.

Mount the solenoid valve Type 3V1-06 with banjo bolt on the respective control port of the actuator.

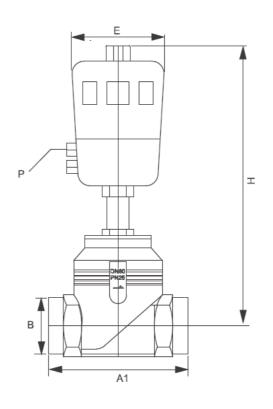


housing

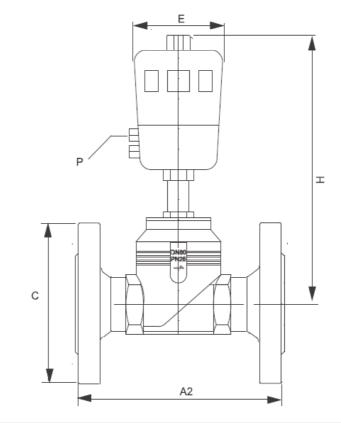


## 7. Overall and Dimension Sheet:

Weld Ends GV400P-W



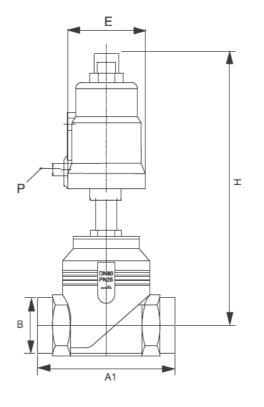




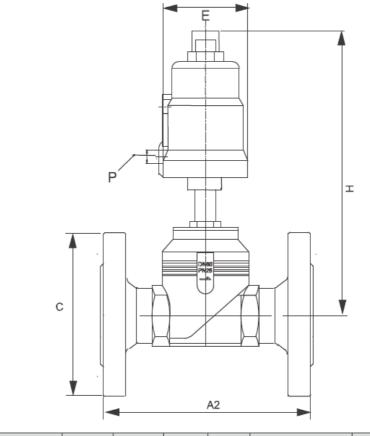
Model	port size	Actuator size (mm)	A1	A2	в	с	E	н	Ρ
GV400P080W	3"	100(125 optional)	230		91		100:127,125:157	100:410,125:440	G1/4"
GV400P100W	4"	125	260		117		157	450	G1/4"
GV400P080F	3"	100(125 optional)		310		192	100:127,125:157	100:410,125:440	G1/4"
GV400P100F	4"	125		350		215	157	450	G1/4"











Mode	port size	Actuator size (mm)	A1	A2	в	с	E	н	Ρ
GV400S080W	3"	90(125 optional)	230		91		90: 94,125:135	90:355,125:365	G1/4"
GV400S100W	4"	125	260		117		135	365	G1/4"
GV400S080F	3"	90(125 optional)		310		192	90:94 ,125:135	90:355,125:365	G1/4"
GV400S100F	4"	125		350		215	135	365	G1/4"