



APPLICATION

PBZ gate valve offers superior performance and reliability over conventional valve designs in a variety of difficult applications and generally not used in clean media where conventional valves are sufficient. It is used in used for flow isolation as well as throttling/control duties in a limited way.

DESIGN FEATURES

PBZ Valve is a bidirectional gate valve sealing on the downstream gate to seat when placed in the flow stream facing in either direction. It requires pressure from upstream to force the seal of the gate against the downstream seat. The gate of the PBZ valve consists of two pieces (gate and segment) acting one against the other by means of a dual wedge when the valve is either fully closed or fully opened.

The expansion effect of the wedge against the seats, through the parallel faces of the gate, provides a strong and positive seal against pulsations and vibrations created by flow conditions.

Pneumatic gate valve PBZ is an automatic quick-closing valve. Opening is done by instrumental air or gas through an solenoid valve into the area top of the piston. Quick closing is done by the force of the operating medium helped with the force of the spring. The installed spring allows closing also on low pressures of working medium in the valve (0-10 bar).

The spindle is set outside of the actuator cylinder for the indication of the valve position.

ON REQUEST:

- we deliver special device for keeping a valve in an open position without instrumental gas
- installment of open-close magnetic position sensors

APPLIED STANDARDS, CODES & DIRECTIVES

API 6D "Specification for Pipeline Valves"

API 598 "Valve Inspection and Testing"

ISO 14313 "Petroleum and natural gas industries -Pipeline transportation systems -Pipeline valves"

EN 12266-1 "Industrial valves. Testing of metallic valves. Pressure tests, test procedures and acceptance criteria. Mandatory requirements"

94/9 EC (ATEX) "Equipment and protective systems intended for use in potentially explosive atmospheres"

Pos.	Part name	Material	Standard
1	Body	GP240GH	EN10213
2	Bonnet	GP240GH	EN10213
3	Seat	P265GH	EN10273
4	Seal	PTFE	
5	"O"-ring	FKM	
6	Reatiner plate	S355	EN10277-2
7	Gate	34CrMo4	EN10083-3
8	Spindle	1.4301	EN10088-3
9	Bonnet seal ring	FKM	
10	Body grease fitting	1.4401	EN10088-3
11	Actuator	SPO	
12	Spring	SH	EN10270-1
13	Piston	ENAW6005	ENS73

DN	2" - 4"
class	600, 900, 1500, 2500, 3000lb
pmax	210 (350) bar
t	-20°C / +90°C
acceptable media	oil, petrol, non-agresive fluids and gases
connections	API 6A-6B, ANSI B 16.5

CODE	DN	class	actuator pressure (bar)	H (mm)	L (mm)	D (mm)	WEIGHT(kg)
060901	50 (2")	600lb	1 - 2	710	292	200	75
060902	65 (2.5")	600lb	1 - 2	850	330	300/350	120
060903	80 (3")	600lb	1 - 2	1060	355	300/350	145
061001	80 (3")	3000lb	3 - 5	690	435	203 (323)	145
061002	100 (4")	3000lb	3 - 5	832	511	242 (457)	280