



RADIUS
AEON

BG05/1

RESILIENT SEATED GATE VALVE OPTIVALVEPLUS™ WITH WELDED ENDS

DN50 - DN300



Patented dual seal technology, the optimal Resilient Seated Gate Valve provides perfect seal tightness with low torque, minimal number of turns, and full traceability.

Application:



Gas & Biogas and Natural gas lines at medium working pressure and temperature range from -20° to +60°C

Design features

- Steel ends for welding into steel pipe system
- Patented double seated integral ductile iron wedge, fully NBR encapsulated
- Very low closing torque with perfectly smooth patented guiding
- Stem seals fully replaceable under pressure
- Patented primary seal integrated in the wedge to achieve perfect top seal when valve is opened
- The design is approved for use with hydrogen and a mixture of hydrogen and natural gas up to a working pressure 7 bar

Technical Details

Maximum Operating Pressure MOP:

16 bar / PN16
(7 bar for double-block-and-bleed - optional)
7 bar when used with Hydrogen gas

Certification:

CE (PED 2014/68/UE), DVGW, BSI Kitemark, TSG

Working temperature:

-20 to +60°C

Coating:

250 µm FBE coating, external and internal

PUR available on request:

Internally - 250 µm FBE coating
Externally - polyurethane (PUR) to EN 10290

Construction complies to:

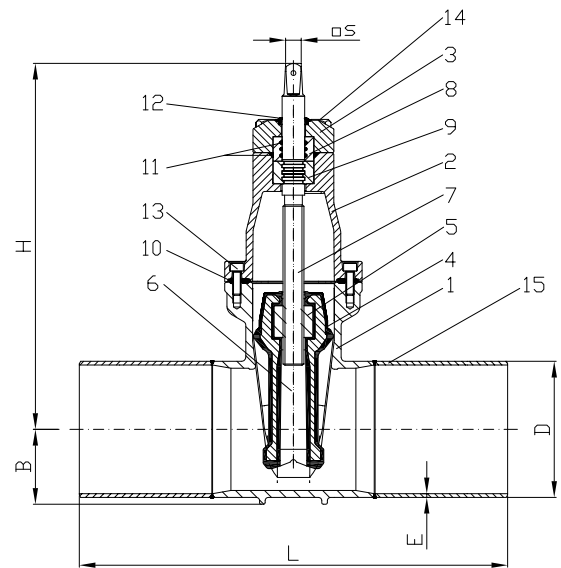
EN 13774 Class 1/2, GIS/V7-1 Class A/B,
TSG D7002-2023





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No	Part Name	Material
1	Body	Ductile Iron EN-GJS-500-7
2	Bonnet	Ductile Iron EN-GJS-500-7
3	Gland Housing	Ductile Iron EN-GJS-500-7
4	Wedge	D.I., NBR encapsulated EN-GJS-400-18/ EN-GJS-500-7
5	Wedge Nut	Aluminium Bronze
6	Guide Shoe	Plastic POM
7	Stem	Stainless Steel X20Cr13 / 1.4021 / 420
8	Gland Bush	Aluminium Bronze
9	Support Bush	Aluminium Bronze
10	Bonnet Gasket	Elastomer NBR
11	O-ring Seal	Elastomer NBR
12	Dust Seal	Elastomer NBR
13	Bonnet Screws	Stainless Steel A2-70
14	Housing Bolts	Stainless Steel A2-70
15	Steel Connector	Steel pipe S265JR



- Lifting eye-bolts standard from DN150

Dimension (mm & kg)

DN	50	80	100	150	200	250	300	
BG05/1	EPOXY POWDER COATING							
	PN16	BG0555	BG0855	BG1055	BG1555	BG2055	BG2555	BG3055
	POWDER COATING WITH EPOXY PAINT AND ADDITIONAL LAYER OF POLYURETHANE (PUR) - BLACK							
	PN16	BG0560	BG0860	BG1060	BG1560	BG2060	BG2560	BG3060
L*	570	550	520	530	570	590	620	
H	329	315	349	495	558	648	728	
B	37	50	63	90	120	145	170	
D	60,3	88,9	114,3	168,3	219,1	273	323,9	
E	2,9	3,2	3,6	4,5	6,3	6,3	7,1	
Stem Top Square □S	17	17	19	19	24	27	27	
Turns to open/close	7 ½	7 ½	9 ¼	13 ¾	18	21 ¾	26 ⅓	
Closing Torque [Nm]	50±10	70±10	80±10	100±20	130±20	180±20	200±20	
Weight	15,6	17,1	23,3	39,5	68,5	90,9	138,8	

Notes:

- Clockwise to close