



RADIUS
AEON

AG02/1

RESILIENT SEATED GATE VALVE OPTIVALVE™ FLANGED END F5

DN40 - 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

- 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

Face to Face in accordance to:
EN 558-1 Series 15

Maximum Operating Pressure MOP:
16 bar / PN16
(7 bar for double-block-and-bleed - optional)
7 bar when used with Hydrogen gas

Working temperature:
-20 to +60°C

Construction complies to:
EN 13774 Class 1/2, DIN 3230-5 PG2 or PG3,
GIS/V7-1 Class A/B, TSG D7002-2023

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

Flange Type:
EN 1092-2 PN10 & PN16

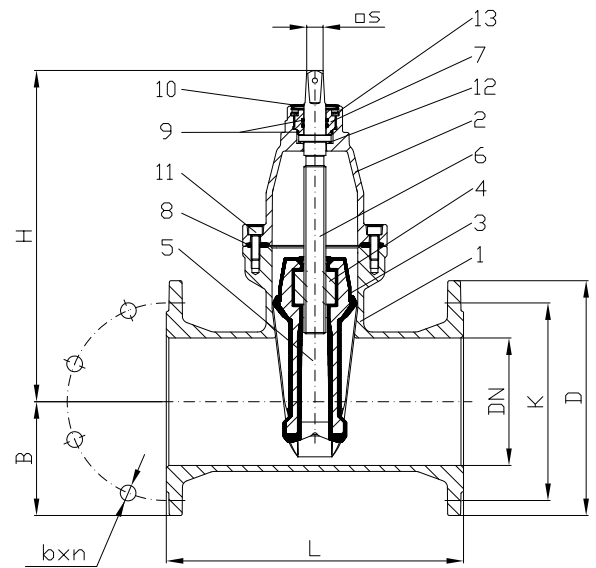
Coating:
250 µm FBE coating, external and internal
PUR available on request:
Internally - 250 µm FBE coating
Externally - polyurethane (PUR) to EN 10290





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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	Wedge	D.I., NBR encapsulated EN-GJS-400-18/ EN-GJS-500-7
4	Wedge Nut	Brass
5	Guide Shoe	Plastic POM
6	Stem	Stainless Steel X20Cr13 / 1.4021 / 420
7	Gland Bush	Brass
8	Bonnet Gasket	Elastomer NBR
9	O-ring Seal	Elastomer NBR
10	Dust Seal	Elastomer NBR
11	Bonnet Screws	Stainless Steel A2-70
12	Bottom Washer	Plastic POM
13	Acetal Circlip	Steel Ring



Notes:

- Lifting eye-bolts standard from DN125

Dimension (mm & kg)

DN	40	50	65	80	100	125	150	200	250	300	
AG02/1	EPOXY POWDER COATING										
	PN16	AG0409	AG0511	AG6522	AG0829	AG1029	AG1265	AG1522	AG2039	AG2539	AG3039
	PN10								AG2029	AG2529	AG3029
	POWDER COATING WITH EPOXY PAINT AND ADDITIONAL LAYER OF POLYURETHANE (PUR) - BLACK										
	PN16	AG0416	AG0516	AG6516	AG0816	AG1016	AG1216	AG1516	AG2076	AG2576	AG3076
	PN10								AG2017	AG2517	AG3017
L	240	250	270	280	300	325	350	400	450	500	
H	209	250	246	265	299	402	390	490	562	642	
B	70	75	85	95	102	120	134	165	196	225	
K PN16 / PN10	110	125	145	160	180	210	240	295	355 / 350	410 / 400	
b x n PN16 / PN10	19×4	19×4	19×4	19×8	19×8	19×8	23×8	23×12 / 23×8	27×12 / 23×12	27×12 / 23×12	
D	150	165	185	200	220	250	285	340	405	460	
Stem Top Square □S	14	14	17	17	19	19	19	24	27	27	
Turns to open/close	6 ¼	9 ¾	9 ¾	11 ½	14 ¼	20 ¼	20 ¼	18	26 ⅓	26 ⅓	
Closing Torque [Nm]	40±10	50±10	60±10	70±10	80±10	100±20	100±20	130±20	180±20	200±20	
Weight	12,5	14,7	16,3	18,8	21,9	38,5	40,7	66,5	93,2	145	

Notes:

- Clockwise to close