



AG04/1

RESILIENT SEATED GATE VALVE OPTIVALVE™ WITH PE 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

- PE tails ends for fusing into PE 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:

10 bar / PN10
(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

Connections:

Pipe PE 100 SDR 11
(On request, it can be undercut to SDR17)

Working temperature:

-20 to +40°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:

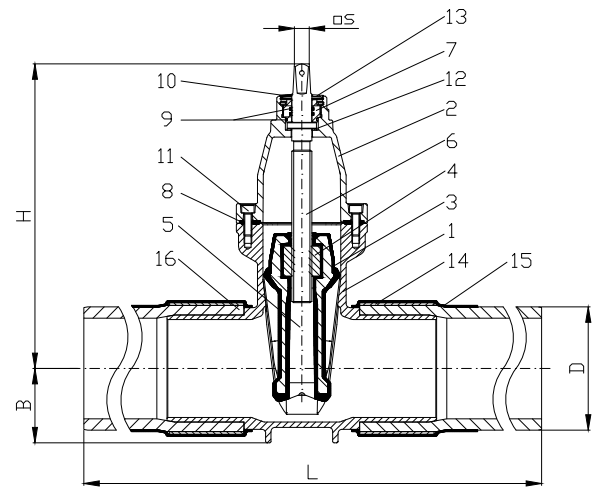
EN 13774 Class 1/2, GIS/V7-1 Class A/B,
TSG D7002-2023





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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	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
14	Sleeve	Steel
15	Shrink Hose	Plastic
16	Pipe	PE-RC 100 gas pipes SDR11



- *Pipe SDR 17 on request

Dimension (mm & kg)

DN		50	80	100	100	150	150	200	200	250	250	300
D		63	90	110	125	160	180	200	225	250	280	315
AG04 /1	EPOXY POWDER COATING											
	PN10	AG0551	AG0851	AG1051	AG1052	AG1551	AG1552	AG2051	AG2052	AG2551	AG2552	AG3051
	POWDER COATING WITH EPOXY PAINT AND ADDITIONAL LAYER OF POLYURETHANE (PUR) - BLACK											
	PN10	AG0566	AG0866	AG1066	AG1067	AG1566	AG1557	AG2066	AG2067	AG2566	AG2567	AG3066
L*		920	920	920	920	950	950	1180	1180	1180	1200	1300
H		257	270	305	305	396	396	503	503	576	576	672
B		38	52	62	69	97	97	119	119	147	147	164
Stem Top Square □S		14	17	19	19	19	19	24	24	27	27	27
Turns to open/ close		9 ¾	11 ½	14 ¼	14 ¼	20 ¼	20 ¼	18	18	21 ¾	21 ¾	26 ⅓
Closing Torque [Nm]		50±10	60±10	70±10	80±10	100±20	100±20	130±20	130±20	180±20	180±20	200±20
Weight		13,3	16,4	20,1	20,7	39,5	42,5	66,7	70,3	96,9	101,2	159,9

Notes:

- Clockwise to close