



VA-V9-101 S12

Resilient-Seated Gate Valve Gaer® PN10/PN16

Gaer® has taken another step forward in the design of its gate valve, obtaining as a result a rugged, lasting valve with excellent tightness.

RELIABILITY: Valves manufactured according to national and international standards, complying with the strictest quality controls, thereby providing a reliable, safe and resistant product, ideal for all types of hydraulic applications.

TIGHTNESS: The valve's tightness is triply guaranteed by three ring seals. Entry of dust through the top part of the shaft is also avoided by an elastomer part that guarantees that the shaft is isolated from the outside surroundings.

RUGGEDNESS: Its new design gives the GAER gate valve great resistance in all its parts. Top-quality production materials, such as the ductile iron used, the stainless steel shaft or the EPDM elastomer, position our valve in the most demanding markets.

ANTICORROSION: Coating inside and outside with 250 µm thick powder epoxy. This is a solid, resistant and very hard coating, which has proved resistance to chemical agents, impacts and corrosion. This resistance is supported by the trials and tests to which the valve is subjected in factory, guaranteeing its durability.

USER-FRIENDLINESS: The stainless steel shaft configuration allows movement during its entire travel. Possibility of operation by handwheel, square cap or electric motor.

RELIABILITY: The GAER gate valve has WRAS (Water Regulation Advisory Scheme) certification for drinking water.

TECHNICAL FEATURES

- **Working pressure:** PN10 / PN16.
- **Dimensions:** DN40 to DN600 PN10/16
- **Working temperature:** -10°C to 120°C for EPDM and -10°C to 85°C for NBR.
- **Connection:** Flange.
- **Coating:** Electrostatic epoxy paint, average thickness 250µ RAL5010.
- Maintenance of the shaft sealing rings with the valve under load.

*Other materials and specifications on request.

QUALITY CONTROL

- **Hydraulic test:** Body and shutoff test according to EN 1074 / EN 12266 / ISO 5208 / API 598.
- **Tensile and elongation test:** Maximum test supported by the valve, tensile strength of the gate EPDM coating and bond strength with the gate. Standard ASTM E8.
- **Fatigue test:** Physical stress resistance of the valve. Standard EN 1074 / ISO 5208 / API598.
- **Impact test:** Energy absorbed by the valve. Standard ASTM E23.
- **Hardness test:** Verification of the hardness of the material. Standard ASTM E18.
- **Coating tests:**
 - Saline mist: corrosion resistance. Standard ASTM B117-03.
 - Impact test: Impact resistance. Standard ASTM D2794-93.

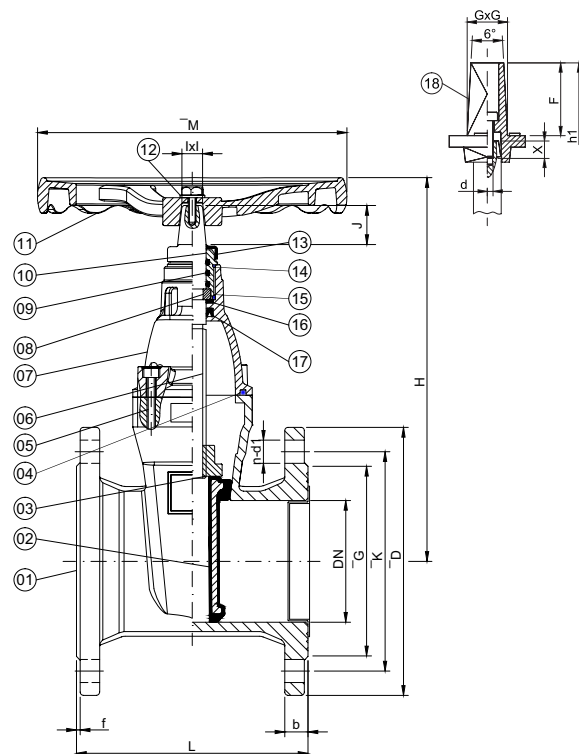
STANDARDS

- **Design:** DIN 3352 / DNI 1171.
- **Flanges:** EN 1092-2.
- **Distance between sides:** EN 558-1 Series 14 (F4)/15 (F5).
- **Coating:** ISO 12944.
- **WRAS certified for drinking water**
- **Trials and tests:** EN1074 / ISO 5208
EN12266 / API 598

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COMPONENTS, MATERIALS AND SPECIFICATIONS

	COMPONENT	MATERIAL	SPECIFICATION
1	Body	Ductile iron	ASTM A536 65-45-12(GGG50)
2	Disc	Ductile iron + EPDM	ASTM A536 65-45-12(GGG50)
3	Shaft lock nut	Brass	CuZn39Pb2
4	Cap seal	NBR	UNE-EN 681-1
5	Cap screws	Stainless steel	A2(AISI 304)
6	Shaft	Stainless steel	AISI 420
7	Cap	Ductile iron	ASTM A536 65-45-12(GGG50)
8	Locking ring	Brass	CuZn39Pb2
9	Ring seal	NBR	UNE-EN 681-1
10	Push nut	Brass	CuZn39Pb2
11	Handwheel	Ductile iron	ASTM A536 65-45-12(GGG50)
12	Screw	Stainless steel	A2(AISI 304)
13	Dust caps	NBR	UNE-EN 681-1
14	Ring seal	NBR	UNE-EN 681-1
15	Ring seal	NBR	UNE-EN 681-1
16	Nylon separated assemblies		Nylon 66
17	Automatic ring seal	NBR	UNE-EN 681-1
18	Square cap	Ductile iron	ASTM A536 65-45-12(GGG50)



MEASUREMENTS AND DIMENSIONS

DN	DIMENSIONS (mm)																
	CONTOUR					FLANGES PN16						SQUARE CAP					
	L(F4)	L(F5)	H	M	J	D	K	G	n-d1	b	f	IXI	h1	GXG	F	d	X
40	140	240	190	200	30	150	110	84	4-19	19	3	14x14	280	35x35	63	M8	15
50	150	250	215	200	30	165	125	99	4-19	19	3	14x14	285	35x35	63	M8	15
65	170	270	235	200	30	185	145	118	4-19	19	3	14x14	300	35x35	63	M8	15
80	180	280	265	254	30	200	160	132	8-19	19	3	17x17	320	35x35	63	M8	15
100	190	300	315	254	32	220	180	156	8-19	19	3	17x17	390	35x35	63	M8	15
125	200	325	350	315	32	250	210	184	8-19	19	3	19x19	430	35x35	63	M8	15
150	210	350	385	315	32	285	240	211	8-23	19	3	19x19	470	35x35	63	M8	15
200	230	400	485	315	35	340	295	266	8-23	20	3	19x19	560	35x35	63	M8	15
250	250	450	600	406	35	395	350	319	12-23	22	3	24x24	680	35x35	63	M10	15
300	270	500	680	406	35	445	400	370	12-23	24.5	4	24x24	770	35x35	63	M10	15
350	290	550	810	500	45	505	460	429	16-23	26.5	4	27x27	900	48x48	75	M10	20
400	310	600	890	500	45	565	515	480	16-28	28	4	27x27	1000	48x48	75	M10	20
450	330	650	1050	500	50	615	565	548	20-28	30	4	27x27	1150	48x48	75	M10	20
500	350	700	1230	650	55	670	620	609	20-28	31.5	4	30x30	1330	48x48	75	M12	20
600	390	800	1260	650	55	780	725	720	20-31	36	5	30x30	1500	48x48	75	M12	20

ADDITIONAL TECHNICAL INFORMATION

DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Torque (N x m) Pressure: 24 bar	10	10	15	25	35	40	50	90	125	165	212	310	393	435	475
No. Winds	12	12.5	19.5	21.5	21.5	24.5	31	35	46	54	46.5	60	61	57	66
Weight (Kg)	10	10.5	13.5	15.5	22	26	37	59	89.5	126	180	246	320	490	620

