



VA-V9-201S06

Wafer-Connection Butterfly Valve Gaer® PN6 / PN10 / PN16

Gaer® butterfly valves have a simple, light and reliable design for their installation in every type of water, gas or neutral fluid pipe. Their manufacture according to the national and international standards makes them a resistant and lasting product.

RELIABILITY: Gaer® takes care of every detail in the manufacture of its valves, using materials of the highest quality, always complying with the standards for hydraulically operated devices.

DURABILITY: The quality of the Gaer® butterfly valve gives it great resistance over time. The replaceable seat guarantees bidirectional watertightness, easy maintenance due to its innovative design and longer life of the valve.

ANTICORROSION: The valve is protected internally and externally with a 250 µm thick epoxy powder coating. This is a solid, very hard coating, which has proven 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: Its design gives it a minimum operating torque, which means easier operation of the valve.

VERSATILITY: different disc material options: ductile iron, stainless steel or aluminum bronze.



TECHNICAL FEATURES

- **Type:** Concentric.
- **Working pressure:** PN6 / PN10 / PN16.
- **Dimensions:** DN50 to DN300 in PN6.
DN50 to DN600 in PN10 and PN16.
- **Working temperature:** -10°C to 120°C for EPDM
-10°C to 85°C for NBR.
- **Connection:** Wafer.
- **Coating:** 250 µm epoxy resin RAL5010.
- **Seat:** Replaceable with 3 attachment points.
- **Disk-Shaft Connection:** Mechanized internally (without pins).

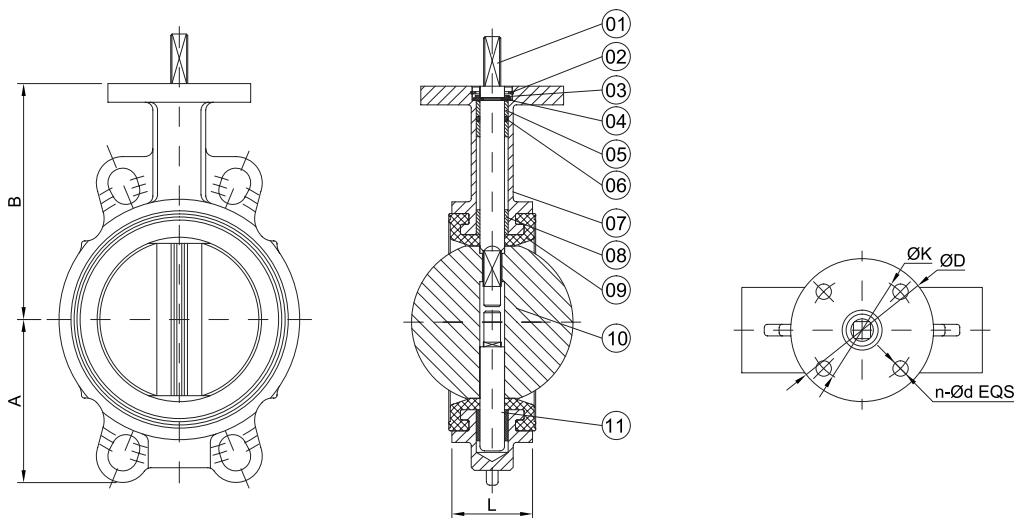
*Other materials and specifications on request.

STANDARDS

- **Design:** EN 593 (Optional: API 609).
- **Flanges:** EN 1092-2 (Optional: ASME B16.5).
- **Distance between sides:** ISO 5752-20 / EN 558-1 Series 20.
- **Coupling flange:** ISO 5211.
- **Trials and tests:** EN 12266-1/ EN 1074 /1505208.
(Optional: API 598).
- **Coating:** ISO 12944.

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MEASUREMENTS AND DIMENSIONS

DN	DIMENSIONS (mm)					
	A	B	L	Ø K	ISO 5211	n - Ø N
50	64	102	43	65	50	4 - Ø 10
65	72	113	46	65	50	4 - Ø 10
80	88	123	46	65	50	4 - Ø 10
100	105	152	52	90	70	4 - Ø 10
125	119	152	56	90	70	4 - Ø 10
150	130	165	56	90	70	4 - Ø 10
200	163	206	60	125	102	4 - Ø 10
250	200.5	253	68	125	102	4 - Ø 12
300	235.5	277	78	125	102	4 - Ø 12
350	256	310	78	150	125	4 - Ø 12
400	315	340	102	175	140	4 - Ø 18
450	330	375	114	175	140	4 - Ø 18
500	348	425	127	175	140	4 - Ø 18
600	438	505	154	210	165	4 - Ø 23

COMPONENTS, MATERIALS AND SPECIFICATIONS

	COMPONENT	MATERIAL	SPECIFICATION
1	Body	Ductile iron	ASTM A536 65-40-18 ASTM A536 65-45-12 (GGG40)
		Stainless steel	AISI 420
2	Shaft	Stainless steel	ASTM A351 CF8 (AISI 304)
		Stainless steel	ASTM A351 CF8M (AISI 316)
		Ductile iron	ASTM A536 65-40-18 ASTM A536 65-45-12 (GGG40)
3	Disc	Aluminum Bronze	C954/C958
		EPDM / NBR / VITON	Commercial
4	Seat	PTFE	Commercial
5	Bearing	EPDM / NBR	Commercial
6	Seal	NBR	Commercial
7	Coating		

ADDITIONAL TECHNICAL INFORMATION

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Weight (Kg)	2.5	3.2	3.6	4.9	7	7.8	13.2	19	32.5	42.5	52	87	98	133
Factor Cv	115	196	302	600	1022	1579	3136	5340	8250	11917	16388	21705	27908	43116

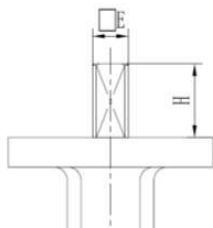
Operating torque butterfly valves (N·m)	DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
	PN6	Wet	12.7	13.4	20.4	33.1	51.4	80.2	145	232	343	434	565	742	965	1494
		Dry	20.2	25.4	38.7	60.5	89.3	141	250	394	559	650	848	1113	1447	2241
	PN10	Wet	13.9	15.4	21.7	37.1	57.9	93.9	173	286	429	550	755	1012	1350	2111
		Dry	21.1	29.2	41.1	67.8	101	165	297	486	699	825	1133	1518	2025	3166
	PN16	Wet	15.1	17.2	23.1	39.8	61.9	102	192	323	490	625	846	1131	1431	2301
Dry		24.2	32.7	43.7	72.8	108	174	330	549	799	969	1307	1787	2288	3711	

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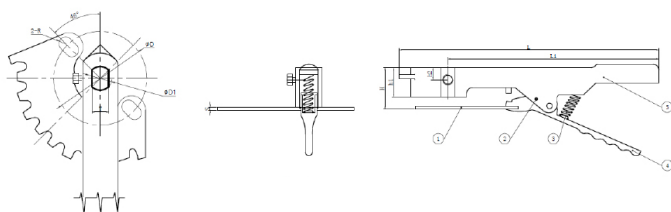
ACTUATORS

1.0 Bare shaft according to ISO 5211:



DN	E (mm)	H (mm)
50	11	32
65	11	32
80	11	32
100	11	32
125	14	32
150	14	32
200	17	45
250	22	45
300	22	45
350	22	45
400	27	50.8
450	27	50.8
500	32	57.5
600	36	70

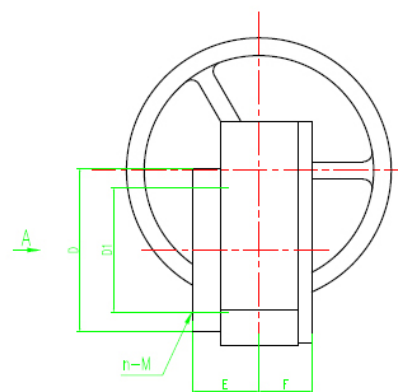
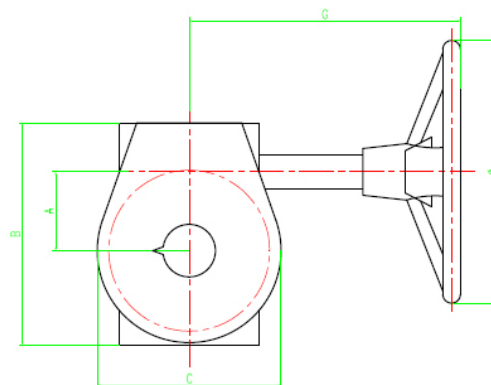
2.0 Lever



Component	Material	Specification
1	Indicator	Carbon steel S235 JR
2	Spring pin	Spring steel 65Mn
3	Spring	Spring steel 65Mn
4	Side lever	Carbon steel KT350-10
5	Main lever	Carbon steel KT350-10

DN	50-80	100	125-150	200
L (mm)	234	290	290	400
L1 (mm)	216	265	265	374
H (mm)	32	32	32	45
h1 (mm)	22	25	25	29
h2 (mm)	9	10	10	14
S (mm)	3	3	3	3
Ø D (mm)	50	70	70	70
Ø D1 (mm)	12.6	15.77	18.92	22.1
T (mm)	9.02	11.15	12.75	15.9
2-R (mm)	2-R3.5	2-R5	2-R5	2-R5
Weight (Kg)	0.40	0.59	0.59	0.93

3.0 Manual reducer with handwheel:



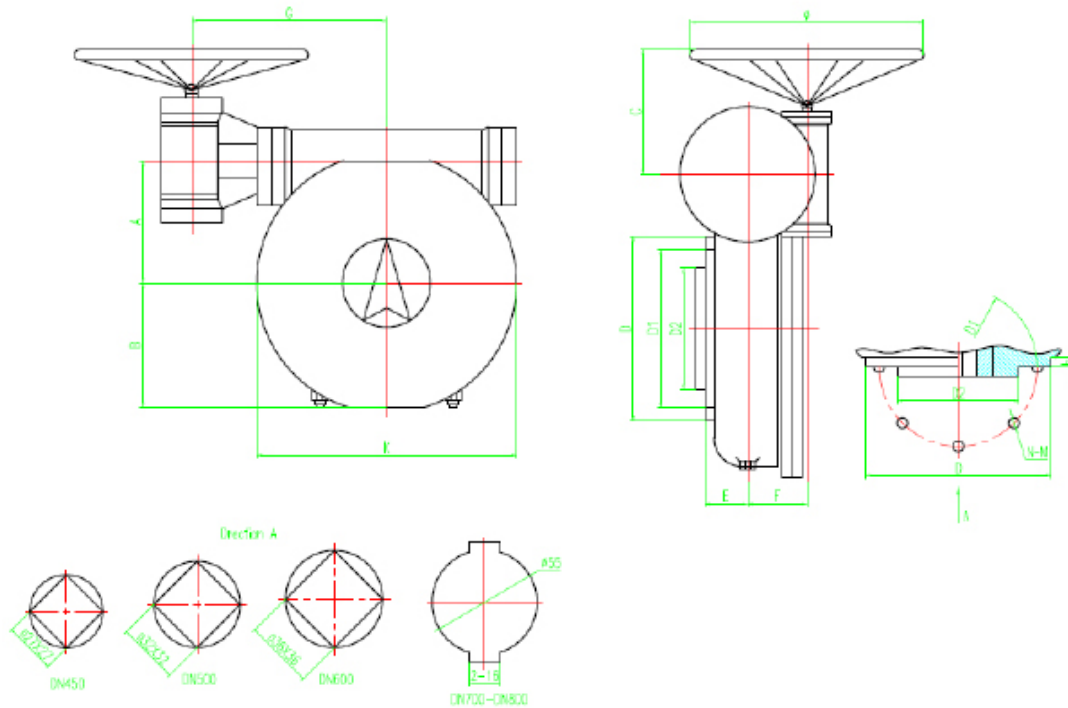
Component	Material	Specification
1	Handwheel	Gray cast iron EN 1561 (EN GJL-150)
2	Body	Gray cast iron EN 1561 (EN GJL-200)
3	Cap	Gray cast iron EN 1561 (EN GJL-200)
4	Seal	NBR Commercial
5	Shaft	Carbon steel ASTM A570 Grade 45
6	Endless screw	Carbon steel ASTM A570 Grade 45

Actuator and valve diameter relation	
Model	DN Valve
3Dc-15	100
3Dc-15	150
3Dc-50	200
3Dc-50	250
3Dc-120	300
3Dc-120	350
3Dc-250	400
3DA-30/250	450
3DA-30/250	500
3DA-30/400	600
3DA-60/800	800

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3.1 Manual reducer with handwheel:



DN	3Dc-15	3Dc-50	3Dc-120	3Dc-250
A (mm)	45	63	78	120
B (mm)	128	179	200	287.5
C (mm)	105	152	164	287
D (mm)	90	125	125 / 140	175
D1 (mm)	70	102	102	140
E (mm)	36	46	46	59
F (mm)	28	34	36	54
G (mm)	226	313	307	373
n-M	4-M8	4-M10	4-M10	4-M16
Ø (mm)	150	300	300	400

Model	Output torque (N-m)	No. Winds
3Dc-15	150	6
3Dc-50	500	8
3Dc-120	1200	12.5
3Dc-250	2500	20
3DA-30/250	2500	133
3DA-30/400	4000	160
3DA-60/800	8000	176

Model	3DA-30/250	3DA-30/400	3DA-60/800
A (mm)	94	125	140
B (mm)	103.5	131	146
C (mm)	160	176	215
D (mm)	175	210	300
D1 (mm)	140	165	254
D2 (mm)	130	130	200
E (mm)	53	62	69
F (mm)	57	66	88
G (mm)	181	199.5	228
K (mm)	214	276	300
h (mm)	4	4	4
Ø (mm)	300	400	400
n-M	4-M16	4-M20	8-M16

