

WAFFER BUTTERFLY VALVE WITH ELASTOMER SEAT VANNE PAPILLON ENTRE BRIDES AVEC SIÈGE ÉLASTOMÈRE

NORTECH

ENG

DESIGN STANDARD:
API609, EN593, BS 5155

PRESSURE RATING:
PN 10, PN16, 200PSI, 285PSI

FACE TO FACE:
ISO5752, EN558 series 20(wafer short)

MOUNTING BETWEEN FLANGES:
EN 1092/DIN/ISO PN10/16, ANSI CLASS125/150

OPERATION:
Handle lever/Gear Box/Acuators

TEST STANDARD:
API598/DIN3230/EN 12266-1/BS6755/ISO5208

FRA

CONCEPTION SUIVANTE LES NORMES:
API609, EN593, BS 5155

PRESSION DE SERVICE:
16 Bar

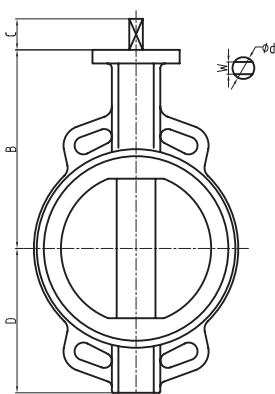
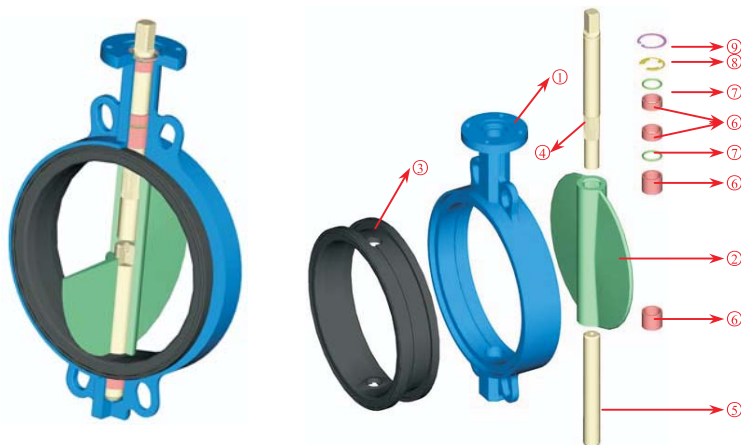
FACE À FACE SUIVANTE LES NORMES:
ISO5752, EN558 série 20

MONTAGE ENTRE-BRIDES:
EN 1092/DIN/ISO PN10/16, ANSI CLASS125/150

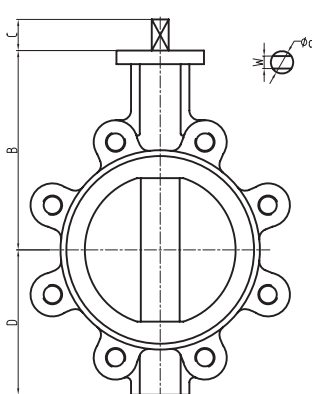
COMMANDE:
Poignées/Réducteurs/Actionneurs

PRESSION D' ESSAI SUIVANTE LES NORMES:
API598/DIN3230/EN 12266-1/BS6755/ISO5208

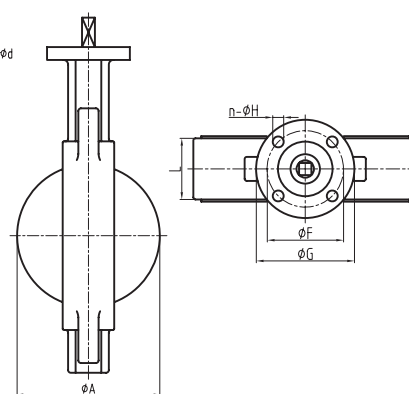
NO.	Description/ Désignation	Material/Matière
1	Body/Corps	Ductile iron/Fonte GS
2	Disc/Papillon	Ductile iron/Fonte GS
		ASTMA351 CF8M
3	Seat/Siège	ASTM B148 C95800
		NBR
		EPDM
4	Upper shaft/ Axe Supérieure	PTFE
		SS/INOX
5	Lower shaft/ Axe inférieure	SS 316
		SS 410
6	Bearing/Bague	SS 431
7	O-ring	PTFE
8	Split pin/Goupille	NBR
9	Retainer ring	Steel/Acier
		SS/INOX



Semi-lug type/
à oreilles de centrage



Fully lug type/
à oreilles taraudées



DN	NPS	A	B	C	D	E	F	G	n×φH	ISO5211	L	W	D
50	2"	52.6	142	19	73.5	11	70	90	4×φ10	F7	43	10	12.6
65	2.5"	64.4	155	19	80.5	11	70	90	4×φ10	F7	46	10	12.6
80	3"	78.9	161	19	93	11	70	90	4×φ10	F7	46	10	12.6
100	4"	104.1	180	19	110	11	70	90	4×φ10	F7	52	12	15.77
125	5"	123.4	193	19	122.8	14	70	90	4×φ10	F7	56	14	18.92
150	6"	155.96	205	19	139	14	70	90	4×φ10	F7	56	14	18.92
200	8"	202.87	250	25	175	17	102	125	4×φ12	F10	60	17	22.1
250	10"	250.88	282	40	208	22	102	125	4×φ12	F10	68	22	28.45
300	12"	301.9	326	40	244	22	102	125	4×φ12	F10	78	24	31.6

WAFFER BUTTERFLY VALVE WITH REINFORCED SEAT VANNE PAPILLON ENTRE BRIDES AVEC SIÈGE RENFORCÉ

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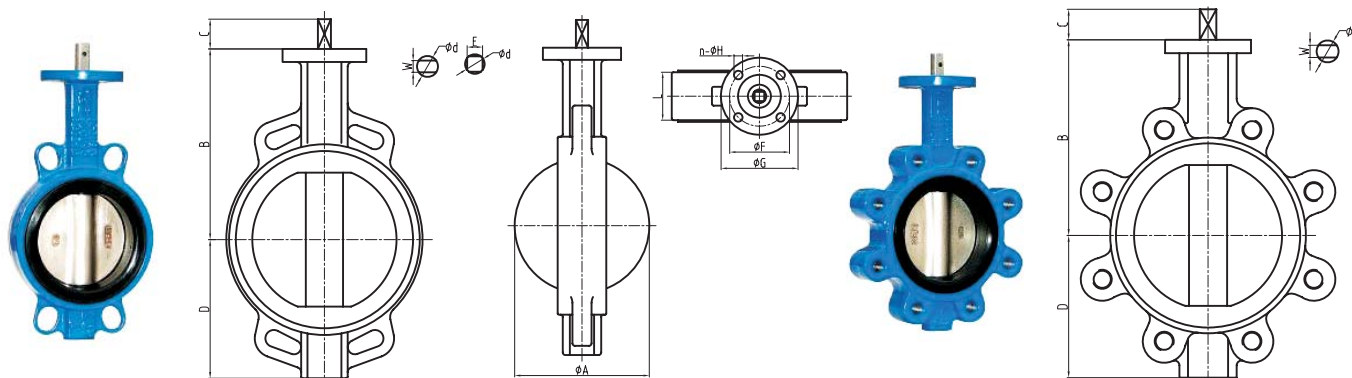
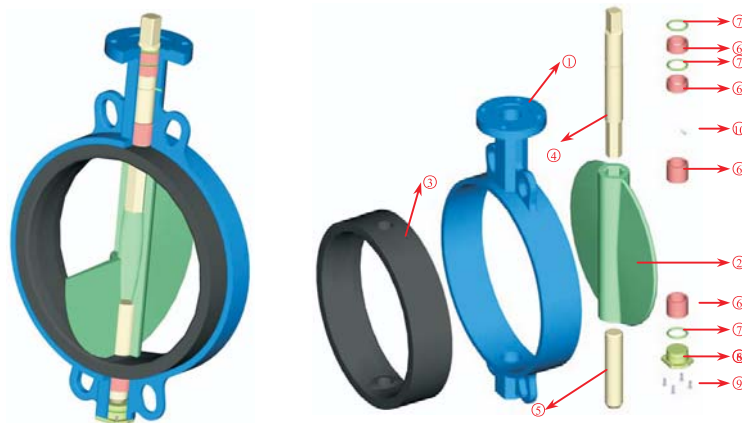
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ISO5752, EN558 série 20

MONTAGE ENTRE-BRIDES:
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COMMANDE:
Réducteurs/Actionneurs

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API598/DIN3230/EN 12266-1/BS6755/ISO5208

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1	Body/Corps	Ductile iron/Fonte GS
2	Disc/Papillon	Ductile iron/Fonte GS ASTM A351 CF8M ASTM B148 C95800
3	Seat/Siège	NBR EPDM PTFE
4	Upper shaft/ Axe Supérieure	SS/INOX SS316
5	Lower shaft/ Axe inférieure	SS410 SS431
6	Bearing/Bague	PTFE
7	O-ring	NBR
8	Bottom cover/ Couvercle en bout	Ductile iron/Fonte GS
9	Bolt/Boulon	Steel/Acier
10	Screw/Vis	S.Steel/Inox



Semi-lug type/
à oreilles de centrage

Fully lug type/
à oreilles taraudées

DN	NPS	A	B	C	D	E	F	G	n×φH	ISO5211	L	W	D
400	16"	390.1	400	52	316	22	140	175	4×φ18	F14	102/88	27	33.15
450	18"	441.1	422	52	341	27	140	175	4×φ18	F14	114/107	27	38
500	20"	492.3	480	64	373	27	140	175	4×φ18	F14	127	32	41.15
600	24"	593	562	70	459	36	165	210	4×φ23	F16	154	36	50.65

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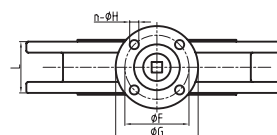
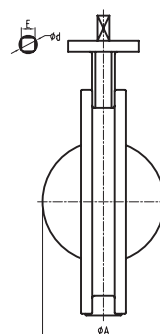
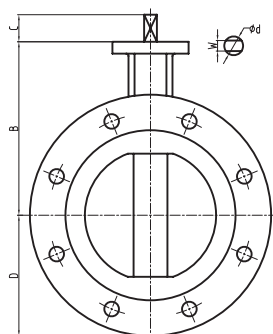
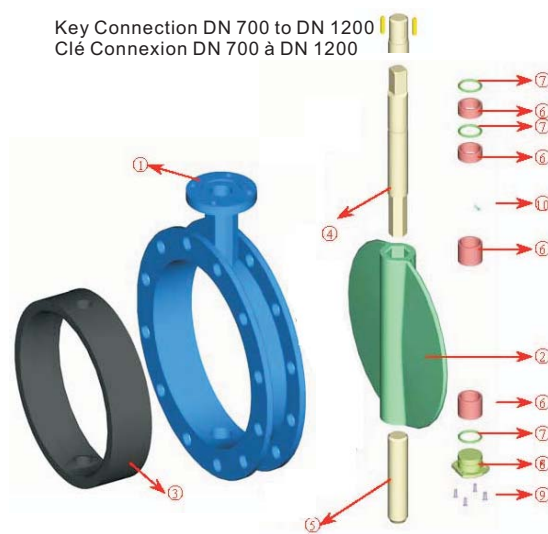
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COMMANDE:
Réducteurs/Actionneurs

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5	Lower shaft/ Axe inférieure	SS410 SS431
6	Bearing/Bague	PTFE
7	O-ring	NBR
8	Bottom cover/ Couvercle en bout	Ductile iron/Fonte GS
9	Bolt/Boulon	Steel/Acier
10	Screw/Vis	S.Steel/Inox

Key Connection DN 700 to DN 1200
Clé Connexion DN 700 à DN 1200



DN	NPS	A	B	C	D	E	F	G	n×φH	ISO5211	L	W	D	
400	16"	390.1	400	52	316	22	140	175	4×φ18	F14	102/88	27	33.15	
450	18"	441.1	422	52	341	27	140	175	4×φ18	F14	114/107	27	38	
500	20"	492.3	480	64	373	27	140	175	4×φ18	F14	127	32	41.15	
600	24"	593	562	70	459	36	165	210	4×φ23	F16	154	36	50.65	
DN	NPS	A	B	C	D	F	G	n×φH	ISO5211	L	a	b	c	d
700	28"	694.9	624	82	528	254	300	8×φ18	F25	165	5	16	55	63
750	30"	744.3	660	82	560	254	300	8×φ18	F25	165	5	16	55	63
800	32"	795.6	672	82	600	254	300	8×φ18	F25	190	5	16	55	63
900	36"	864	720	130	659	254	300	8×φ18	F25	203	6	20	75	100
1000	40"	964	800	130	726	254	300	8×φ18	F25	216	7	22	85	125
1200	48"	1160	951	150	868	298	350	8×φ23	F30	254	8	28	105	140

VALVE SEATING TORQUES

Unit:NM

SIZE		STANDARD DISC,MAXIMUM DIFFERENTIAL PRESSURE					
DN	NPS	6bar	10bar	200LBF/IN2	13bar	285 LBF/IN2	25bar
50	2"	14	14	15	15	15	15
65	2.5"	14	14	17	17	20	20
80	3"	19	19	22	22	40	40
100	4"	33	33	34	34	50	50
125	5"	46	46	48	48	70	70
150	6"	72	72	73	73	95	95
200	8"	145	145	155	155	220	220
250	10"	230	230	236	236	320	320
300	12"	320	320	330	330	421	421
350	14"	560	570	720	790		
400	16"	770	850	1000	1180		
450	18"	1210	1220	1380	1520		
500	20"	1420	1430	1780	1930		
600	24"	2820	2830	3530	3670		
700	28"	4860	4970				
750	30"	5230	5280				
800	32"	6500	6600				
900	36"	7620	8010				
1000	40"	8540	10810				
1100	44"	9760	15110				
1200	48"	13700	21200				

All torque values shown on chart are for "wet" (water and other non-lubricating media) on-off service. For "dry" service (non-lubricating, dry gas media), multiply values by 1.15. For "lubed" service (clean, non-abrasive media) multiply values by 0.85. When sizing actuators for single valve applications, multiply the above torques by 1.25. Under certain conditions, hydrodynamic torque can meet or exceed seating and unseating torques. When designing valve systems hydrodynamic torques multiply above torques by 0.85.

KV-VALUES-VALVE RATED FLOW CODFFICIENTS(M³/H AT 1 BAR ΔP)

SIZE		OPENING ANGLE								
DN	NPS	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	2"		0.9	6.3	14	29	53	94	116	118
65	2.5"		2.5	11	28	50	92	168	245	258
80	3"		5.3	22	50	90	157	282	460	510
100	4"		9.8	40	90	158	268	485	823	926
125	5"		16	70	150	263	430	766	1350	1500
150	6"		84	113	230	395	640	1096	1850	2170
200	8"		112	212	405	678	1084	1785	3045	3842
250	10"	20	155	309	590	989	1590	2716	4765	5014
300	12"	48	283	384	745	1253	2058	3742	6820	9230
350	14"	125	314	660	1185	2005	3222	5196	9300	10790
400	16"	162	413	863	1545	2622	4200	6772	12140	14081
450	18"	198	512	1070	1915	3249	5216	8416	15150	17842
500	20"	248	630	1325	2365	4015	6440	10400	18624	22030
600	24"	356	905	1899	3408	5778	9273	14985	26758	31780
700	28"	485	1236	2580	4640	7862	12628	20358	36482	43200
750	30"	556	1586	3420	7280	12300	18624	29372	40050	49780
800	32"	630	2012	5080	9700	15000	22205	34508	47580	55000

90°=fully open. Flow in gallons/min at 1 LBS/IN² pressure drop, multiply Kv by 0.963 for UK gpm, or multiply Kv by 1.156 for US gpm.