

# 4.70

## BUTTERFLY VALVES WAFER - LUG PN 16 / ANSI 150



VALVOID Srl Via Pascoli, 5 - 24060 Bagnatica (Bergamo) Tel. 035.681919-Fax. 035.684461

### VF..100

### WAFER / LUG BUTTERFLY VALVE - PN 16 / ANSI 150

VFH	WAFER
VFL	LUG

OPTIONAL	
..0	hand lever (standard)
..1	yellow hand lever (gas system)
..2	pneumatic Actuator SR
..3	pneumatic Actuator DA
..4	On/Off electric actuator
..5	Modulating electric act.
..6	Gear Box
..7	Bare shaft

BODY	
..1	GG25
..2	GG40
..3	Steel
..4	AISI316
..5	Aluminium

DISC	
..1	Nickel. cast-iron
..2	Steel
..3	AISI 316
..4	PTFE covered

SEAL	
..1	NBR
..2	EPDM
..3	EPDM HT
..4	Neoprene
..5	HYPALON
..6	Silicone
..7	VITON
..8	TEFLON

**Example** VFL 1 2 3 1 09  
LUG butterfly valve for gas, DN 50  
GG40 body, AISI 316 disc and  
Buna N (NBR) seal - PN 16

VFH	.	.	.	.	..
VFL					

DIAMETER		WITH HAND LEVER
.08	DN40	
.09	DN50	
.10	DN65	
.11	DN80	
.12	DN100	
.13	DN125	
.14	DN150	
.15	DN200	
.16	DN250	
.17	DN300	
.18	DN350	
.19	DN400	
.20	DN450	
.21	DN500	
.22	DN600	



TORQUE (Nm)														SAFETY FACTOR			
DN	40	50	65	80	100	125	150	200	250	300	350	400	500	600	Please consider 1,5 safety factor when sizing actuator - torque referred with $\Delta P = 16$ bar		
$\varnothing$	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"	24"			
PN - bar	0	11	14	18	27	40	59	88	157	248	343	485	662	1142			2385
	6	11	20	25	32	41	62	92	173	275	382	549	766	1327			2787
	10	12	23	27	34	54	71	106	186	321	576	680	882	1634	3250		
	16	14	25	29	37	56	86	123	262	392	551	1528	2035	3070	5670		

$\varnothing$	DN	Kv VALUE IN ACCORDING TO THE OPENING ANGLE							
		20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°C
1½"	40	2,6	4,3	9,5	16	22	39	60	69
2"	50	6,7	7,8	16	24	48	62	95	116
2½"	65	8,6	13	23	38	73	95	145	181
3"	80	13	20	34	56	112	142	216	267
4"	100	23	35	61	99	198	259	401	466
5"	125	50	74	129	211	414	526	845	948
6"	150	83	121	211	345	677	871	1392	1647
8"	200	142	211	354	591	1099	1478	2302	2746
10"	250	220	328	560	974	1810	2328	3664	4224
12"	300	319	466	819	1353	2629	3405	5129	6336
14"	350	388	647	1120	1905	3517	4836	6964	9655
16"	400	552	776	1483	2405	4310	6336	9284	11121
20"	500	785	1375	2457	3991	7414	9914	15121	19310
24"	600	1078	1974	3448	5250	10776	14224	20336	24397

The kv value corresponds to the volumetric flow of water through a valve (liter/min) with a differential pressure of 1 bar, a water temperature of 20°C.

4.71

**HIGH TEMPERATURE  
BUTTERFLY VALVE**

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**Valvoind**

valvole industriali

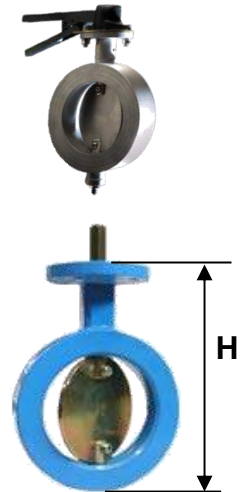
Wafer and Lug butterfly valve, no bubble tight, suitable for fluid control, in low pressure and high temperature conditions. Widely used in smoke exhaust and powders conveyance systems.

**VFT 200**

**NO BUBBLE TIGHT BUTTERFLY VALVE UNI PN 10 - FOR 160°C**

PN10 WAFER EXECUTION WITHOUT GASKETS - NO PERFECT TIGHT

code	type	body	disc	Oring	work.Temp	pressure
VFT 201..	bare shaft	Alluminium	TROPICALIZED STEEL	PTFE	160°C	3 Bar
VFT 202..	w/ lever					
VFT 203..	actuated					
VFT 204..	pneumatic					
VFT 211..	bare shaft	AISI	AISI	PTFE	180°C	3 Bar
VFT 212..	w/ lever					
VFT 213..	actuated					
VFT 214..	pneumatic					



Code	..08	..09	..10	..11	..12	..13	..14	..15	..16	..17	..18	..19	..20	..21	..22	..23	..24
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
thickness	32	32	32	32	32	32	32	48	48	48	55	60	70	80	80	80	80
height H	141	150	168	184	204	232	256	329	381	470	520	582	645	685	785	895	995
Torque Nm			5	10	14	21	70	100	130	168	200	225	250	290	320	390	

**VFT 700**

**CONTROLLED LEAKAGE BUTTERFLY DAMPER VALVE - UP TO 1000°C**

VFT ...	
...7	WAFER
...8	FLANGED
...0	FOR 300°C
...3	FOR 600°C
...8	FOR 1000°C
...1	UNI PN 10/16
...2	ANSI 150
...0	BARESHAF
...1	WITH LEVER
...2	W/PNEUM.ACT.
...3	W/ELECT.ACT.
..	DN

Controlled leakage damper valve  
Metal to metal seat  
Graphite shaft sealing  
Customized construction according to temperatures  
Maximum tightness class: III  
Maximum working pressure: 3bar  
End connections as per PN6, PN10, PN16, ANSI150  
Rectangular version on request  
Possibility of covering with insulating or refractory materials (x model 1000 ° C)  
Cooling fins on the shaft support (for models of 600 ° C and 1000 ° C)



Cod.	..09	..10	..11	..12	..13	..14	..15	..16	..17	..18	..19	..20	..21	..22	..23	..24	..26	..27
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	1000	1500

**VFT 900**

**BY-PASS DAMPER BUTTERFLY VALVE FOR HIGH TEMPERATURE**

VFT ...	...9	3 WAY VALVE COMBINED WITH 2 BUTTERFLY
...01	WITH LEVER	
...02	WITH PNEUMATIC ACTUATOR - SE	
...03	WITH PNEUMATIC ACTUATOR - DE	
...04	WITH ELECTRIC ACTUATOR	
..	DN	

Controlled leakage damper valve  
Metal to metal seat  
Graphite shaft sealing  
Maximum working temperature: 1000°C  
Customized construction  
Maximum tightness class: III  
Maximum working pressure: 1000°C  
End connections as per PN6/10/16, ANSI150



CODE	..12	..13	..14	..15	..16	..17	..18	..19	..20	..21	..22	..23	..24	..25	..26	..27	..28
DN	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1500	2000

## VFQ 100

## DOUBLE AND TRIPLE OFF-SET BUTTERFLY VALVE

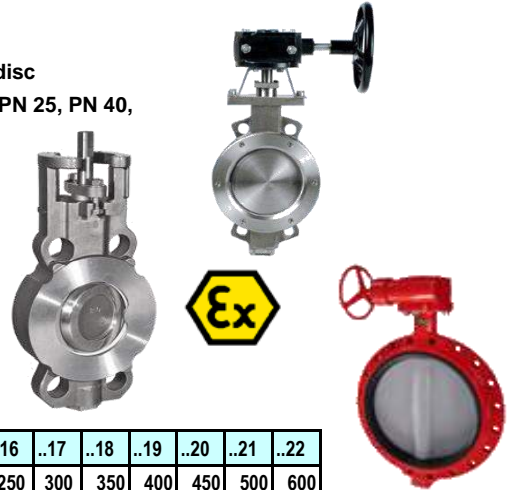
VFQ .... ..1 TRIPLE OFF-SET  
 ....2 DOUBLE OFF-SET

..1 Wafer  
 ..2 LUG  
 ..1 PN 10,16,25 ANSI 150  
 ..2 PN 40 - ANSI 300  
 Body ..1 A216 WCB  
 ..2 AISI 316

Seat	..1	..2	..3	..4
	PTFE + graphite	: 200°C	PN 25	
	PTFE + AISI 316	: Fire Safe	PN 25	
	AISI 316	: 300°C	PN 25	
	INCONEL	: 450°C	PN 40	

Code	..08	..09	..10	..11	..12	..13	..14	..15	..16	..17	..18	..19	..20	..21	..22
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600

High Performaces Butterfly Valves  
 Wafer e Lug version - with AISI A351 CF8M disc  
 that can be inserted between PN 10, PN 16, PN 25, PN 40,  
 ANSI 150 flanges certificate ATEX



Torsion values (kg-m) including 30% safety value							
Ø	DN	0	5	10	15	20	25
2.5"	65	4	5	8	10	13	15
3"	80	5	7	9	12	14	17
4"	100	8	10	12	16	18	22
5"	125	10	13	14	17	20	23
6"	150	14	16	17	18	21	25
8"	200	21	26	30	34	38	42
10"	250	25	29	33	36	40	45
12"	300	26	40	51	60	69	80
14"	350	50	69	86	101	125	145
16"	400	65	84	104	127	150	176
18"	450	80	99	122	153	173	195
20"	500	110	120	160	200	250	290
24"	600	175	240	315	380	435	475

DN	inner	L mm	Bracket		
	Ø mm		ISO		□
65	63	46	F07	F05	11
80	78	47	F10	F07	14
100	95	53	F10	F07	14
125	118	57	F10	F07	17
150	143	56	F10	F07	17
200	188	60	F12	F10	19
250	236	68	F12	F10	22
300	282	78	F14	F12	27
350	322	78	F14	F12	27
400	371	102	F16	F14	36
450	418	114	F16	F14	36
500	466	127	F16	F14	46
600	570	154	F25		46

## VFP 100

## FLANGED BUTTERFLY VALVES FOR WATER SYSTEM

Suitable for drinkable water according to DM n. 174 of 06/04/2004

VFP .1 concentrica  
 ..2 a doppio eccentrico  
 ..1 ad asse nudo  
 ..2 con riduttore e volante  
 ..1 corpo in GG PN 10/16  
 ..2 corpo in acc. PN 25  
 ...01 DN

Flanged Butterfly Valve  
 Body: GG40  
 Disc: GG40  
 Seat: NBR / EPDM  
 Ends: PN 10/16/25  
 Available from: DN 300 to DN 1400



Code		..17	..18	..19	..20	..21	..22	..23	..24	..25	..26	..27	..28
Description	DN	300	350	400	450	500	600	700	800	900	1000	1200	1400
	Ø	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"	56"
CV open valve		5593	7635	10030	13377	15783	23162	31870	41911	58168	71175	102845	131826
Gauge "S"		270	290	310	330	350	390	430	470	510	550	630	710
Test	PN 6	490	804	1074	1328	2694	2894	3640	5143	6950	9187	18632	22887
Torque	PN 10	894	1269	1534	2252	2964	4270	6425	8033	11877	15630	22688	27762
Nm	PN 16	1358	1905	2528	3508	4329	7396	=	=	=	=	=	=
Bracket	ISO 5211	F16	F16	F16	F16	F16	F25	F25	F25	F25	F30	F30	F35
	Ø perno	34	40	45	45	52	55	65	70	80	92	100	130
Weight Kg		169	200	276	300	360	550	543	745	960	1200	1680	3087
Example	VFP3	2	2	19									

DOUBLE OFF-SET BUTTERFLY VALVE WITH ADAPTER AND HANDWHEEL DN 400