

VALVE AND FLOW CONTROL SPECIALISTS SERVICE AND RELIABILITY

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HYGIENIC PROCESS VALVES (FORMERLY KEYSTONE)

F250/F251 HYGIENIC BUTTERFLY VALVES

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VALVE AND FLOW CONTROL SPECIALISTS SERVICE AND RELIABILITY

HYGIENIC PROCESS VALVES (Formerly Keystone) HYGIENIC BUTTERFLY VALVES WAFER TYPE

The F250 and 251 butterfly valves are used for in-line isolation or control of process or C.I.P. fluids .

10bar (1000kPa)

Full vacuum

6bar (600kPa)

GENERAL APPLICATIONS

TECHNICAL DATA

With unique wafer flanged valve, removing the valve from the pipeline is as quick and easy as undoing the jacking bolts and lifting out the valve – that's maintenance friendly.

This unique valve is ideal for isolation and control, particularly in situations where only minimal pipe separation is possible.

Typical applications

- Dairies
- Breweries
- Wineries
- Food processing
- Pharmaceutical
- Chemical

Max. product pressure at 20°C: Min. product

pressure at 20°C: Recommended

operating pressure at 20°C:

Recommended -5°C to 95°C to 95°C to 95°C range:

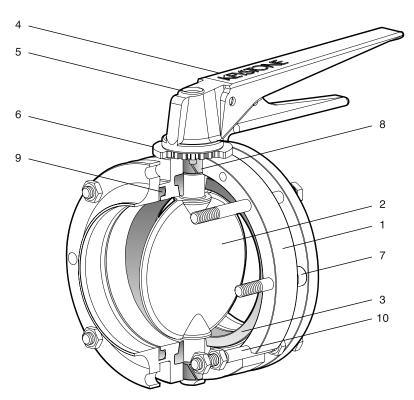
FEATURES

- This unique stainless steel wafer flanged valve allows easy removal from the pipeline without having to cut the piping
- Incorporates two stainless steel jacking bolts for safe and easy valve change-out while maintaining pipe alignment and flange separation
- Offers huge potential savings by greatly reducing maintenance time
- Available to suit both imperial and metric tubing
- Food grade seat and seal material options to ensure product integrity
- Quarter turn operation
- Suitable for both isolation or flow control functions
- Equal percentage characteristics
- Bi-directional capability
- Fully machined 316L stainless steel body
- One-piece mirror polished disc and stem assembly
- High C_v slim profile disc
- Integral valve position indicator
- Combination dual or multi-position handle assembly
- High impact reinforced polymer handle with a stainless steel drive (full stainless steel option available)
- Integral padlocking as standard on manual valves
- Eight radial mounting positions
- Full range of optional accessories

- F250 for inch OD tubing
- F251 for metric tubing

HYGIENIC BUTTERFLY VALVES F250/251 WAFER TYPE

PRODUCT INFORMATION



PARTS LIST

No.	Description	Material	Standard				
1	Body	316L Stainless Steel	ASTM A276				
2	Disc stem	316L Stainless Steel	ASTM A743 CF8M				
		VMQ (white)	FDA				
		EPDM (black)	FDA				
3	Seat	NBR (black)	FDA				
		HNBR (black)	FDA				
		FKM (red)	FDA				
4	Handle assembly	High impact glass reinforced polymer or 304 Stainless steel	-				
5	Handle plug/screw	TPR / 304 Stainless steel	-				
6	Notch plate	304 Stainless steel	ASTM A743 CF8				
7	Body fasteners	304 Stainless steel	ASTM A276				
8	Bearings	PVDF	Commercial				
9	Flange seal	EPDM (Other materials on application)	FDA				
10	Jacking bolt	304 Stainless steel	ASTM A276				

TECHNICAL DATA

Max static	temperature	
VMQ	150°C	
EPDM	120°C	
NBR	100°C	
HNBR	150°C	
FKM	150°C	

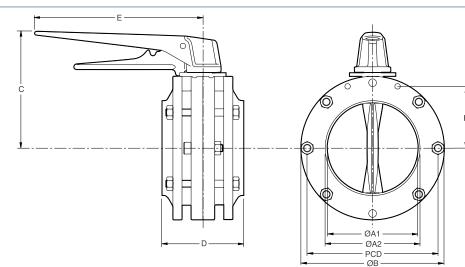
NOTE

Although the various seat materials available can withstand temperatures above the max. recommended operating temperature for short periods of time, such as for sterilisation and certain applications, the serviceability of these seats at elevated temperatures does vary depending on the media, pressure and other variables. Therefore, this is best determined from experience gained with the application concerned.

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HYGIENIC BUTTERFLY VALVES **F250/251** WAFER TYPE

PRODUCT INFORMATION



F250 WAFER FLANGE INCH OD VALVE DIMENSIONS (mm)

Valve s	ize									No.	Hole	Stem	Mass	K _v
DN	Inch OD	ØA1	ØA2	ØB	С	D	E	F	PCD	holes	dia.	conn.	(kg)	(Fully open)
25	1.0"	22.3	25.4	69	83.5	88	156	26.5	59	8	6	8 x 8	1.3	17
40	1.5"	35.0	38.1	79	88.5	88	156	31.5	69	8	6	8 x 8	1.5	64
50	2.0"	47.7	50.8	94	96.0	88	156	38.0	84	8	6	8 x 8	2.0	131
65	2.5"	60.4	63.5	104	101.0	88	156	43.0	95	8	6	8 x 8	2.3	220
80	3.0"	73.1	76.2	124	112.0	100	185	50.0	111	8	8	10 x 10	3.0	333
100	4.0"	98.0	101.6	151	125.5	110	185	64.5	139	8	8	12 x 12	5.0	726
125	5.0"	123.0	127.0	198	171.0	122	266	90.4	177	8	10	15 x 15	10.8	1370
150	6.0"	148.4	152.4	223	183.5	130	266	99.5	203	8	10	15 x 15	15.5	2050

Weld connection suits the following tube standards: ISO 2037, BS 4825-1, AS 1528-1 and ASME BPE

/alve s	size									No.	Hole	Stem	Mass	Kv
Л	Metric	ØA1	ØA2	ØВ	С	D	E	F	PCD	holes	dia.	conn.	(kg)	(Fully open)
25	025	26.0	29.0	74	86.0	88	156	29.0	63	8	6	8 x 8	1.5	19
32	032	32.0	35.0	79	88.5	88	156	31.5	69	8	6	8 x 8	1.6	41
0	040	38.0	41.0	87	92.5	88	156	35.5	76	8	6	8 x 8	1.7	69
50	050	50.0	54.0	99	98.5	88	156	40.5	89	8	6	8 x 8	2.4	206
5	065	66.0	70.0	123	111.5	90	185	49.5	109	8	8	10 x 10	3.0	263
0	080	81.0	85.0	138	119.0	90	185	57.5	124	8	8	10 x 10	4.0	381
00	100	100.0	104.0	158	129.0	90	185	68.0	144	8	8	12 x 12	5.5	689
25	125	125.0	129.0	198	171.0	122	266	90.4	177	8	10	15 x 15	10.8	1370
50	150	150.0	154.0	223	183.5	130	266	99.5	203	8	10	15 x 15	15.5	2050

Weld connection suits the following tube standard: DIN 11850 1-3

NOTE

• Dimension 'E' is the maximum clearance length for either handle.

• Masses shown are for bare shafted valves only.

OTHER SPECIALITY HYGIENIC BUTTERFLY VALVE OPTIONS

F250D/1D DOUBLE BLOCK AND BLEED BUTTERFLY VALVE

For safe separation of incompatible fluids.



F250/1 HANDLE EXTENSIONS

For extension of valve stem, where extra handle clearance is needed for insulated pipes etc.



F250T/1 PROXIMITY KITS

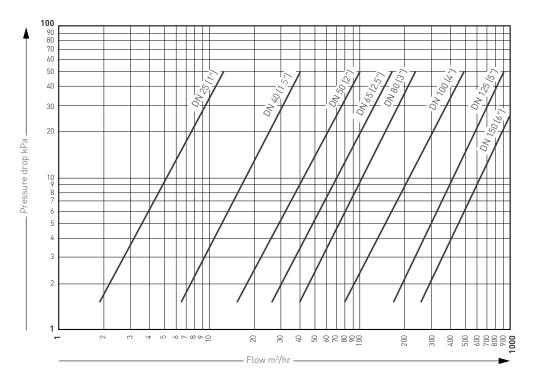
For feedback indication on manual valves.



PRODUCT INFORMATION

F250 PRESSURE DROP / FLOW RATES GRAPH

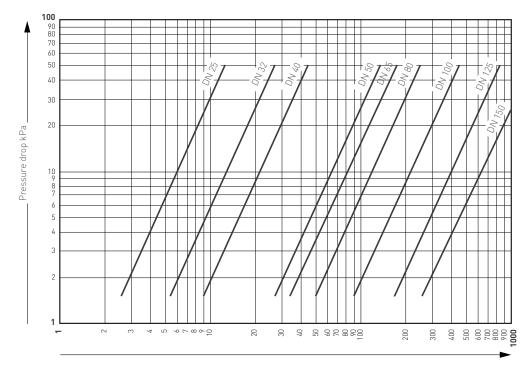
F250/251 WAFER TYPE



NOTE:

This chart is based on a F250 valve fully open, using water at 20°C.

F251 PRESSURE DROP / FLOW RATES GRAPH



NOTE:

This chart is based on a F251 valve fully open, using water at 20°C.

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HYGIENIC BUTTERFLY VALVES F250/251 WAFER TYPE

PRODUCT INFORMATION

SELEC	TION GUIDE							
Examp			050	F250	255	255 WAF	255 WAF ACT	255 WAF ACT PL
Valve s	ize Inch OD	Metric						
025	1.0"	25						
032	1.25"	32						
040	1.5"	40						
050	2.0"	50						
065	2.5"	65						
080	3.0"	80						
100	4.0"	100						
125	5.0"	125						
150	6.0"	150						
Figure	:							
F250	Inch OD tubing butterfly valve							
F251	Metric tubing butterfly valve							
Trim	Seat	Body	Disc	Bearing				
255	EPDM	304L	316L	PVDF				
256	VMQ	304L	316L	PVDF				
252	HNBR	304L	316L	PVDF				
258	FKM	304L	316L	PVDF				
259	FKM	316L	316L	PVDF				
262	EPDM	316L	316L	PVDF				
263	VMQ	316L	316L	PVDF				
253	HNBR	316L	316L	PVDF				
	nnections							
Weld e								
WAF	Wafer valve and BW flanges	-*	-*					
WA0	Wafer valve without flanges							
	ed definer							
ACT	Pneumatic Actuator							
397	F397 Manual Operator/Handle							
398	F398 Manual Operator/Handle							
	or details if specified above:							
SR	Pneumatic Actuator Spring Re							
DA	Pneumatic Actuator Double Ac							
SS	Manual Operator/Handle in 304							
PL	Manual Operator/Handle in Gla	iss Reinforced Pl	astic					

NOTES

* For information on the standard F250/251 butterfly valve with other end connections please refer to the seperate literature sheet.

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