tyco
Flow Control

KEYSTONE

Wafer flanged style stainless steel hygienic butterfly valves for easy in line valve replacement or maintenance.

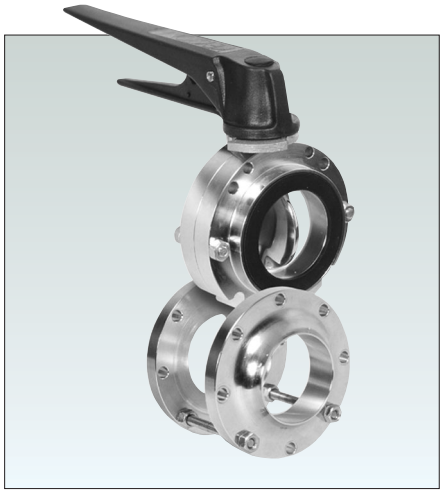
- **F250 for imperial tubing.**
- **F251 for metric tubing.**

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 Cv 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.

Typical Applications

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



General applications

With Keystone's 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.

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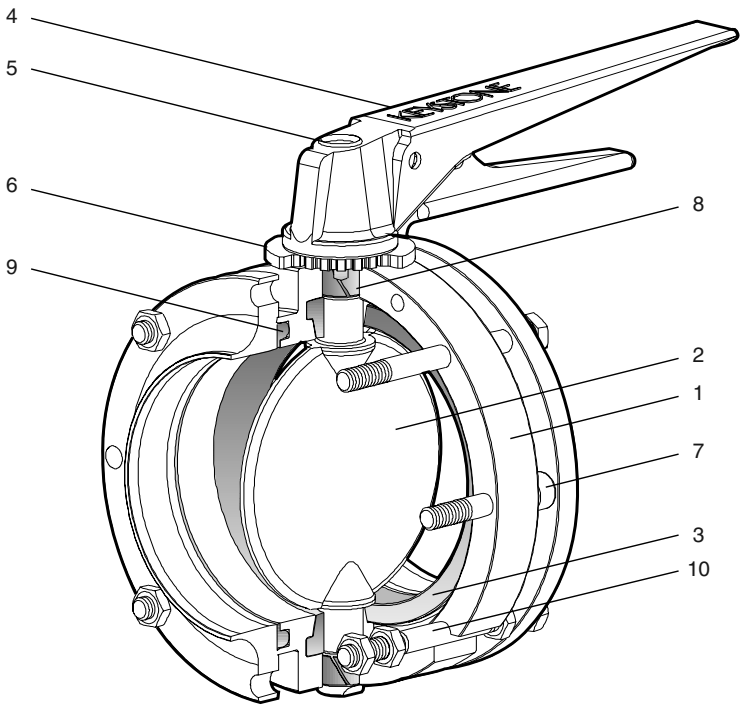
Hygienic Products – Figure 250/251 Wafer valve



Technical Data

Max Product Pressure @ 20°C
1000 kPa (10 bar).
Min Product pressure @ 20°C
Full Vacuum.
Temperature Range:
Minus 10°C to 95°C

Note

Although the various seat materials available can withstand temperatures above the 95° stated, for short periods of time, such as for sterilisation and certain applications, the servicability 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.

Parts list

No.	Description	Material	Standard
1	Body	316L S/S	ASTM A276
2	Disc Stem	316 S/S	ASTM A743 CF8M
3	Seat	Silicon (white)	FDA
		EPDM (brown)	FDA
		Nitrile (black)	FDA
		Viton (red)	-
4	Handle Assembly	High Impact Glass Reinforced Polymer or 304 S/S	-
5	Handle Plug/Screw	Santaprene / 304 S/S	-
6	Notch Plate	304 S/S	ASTM A743 CF8
7	Body Fasteners	304 S/S	ASTM A276
8	Bearings	Acetal	Commercial
9	Flange Seal	EPDM (Other materials on application)	FDA
10	Jacking Bolt	304 S/S	ASTM A276

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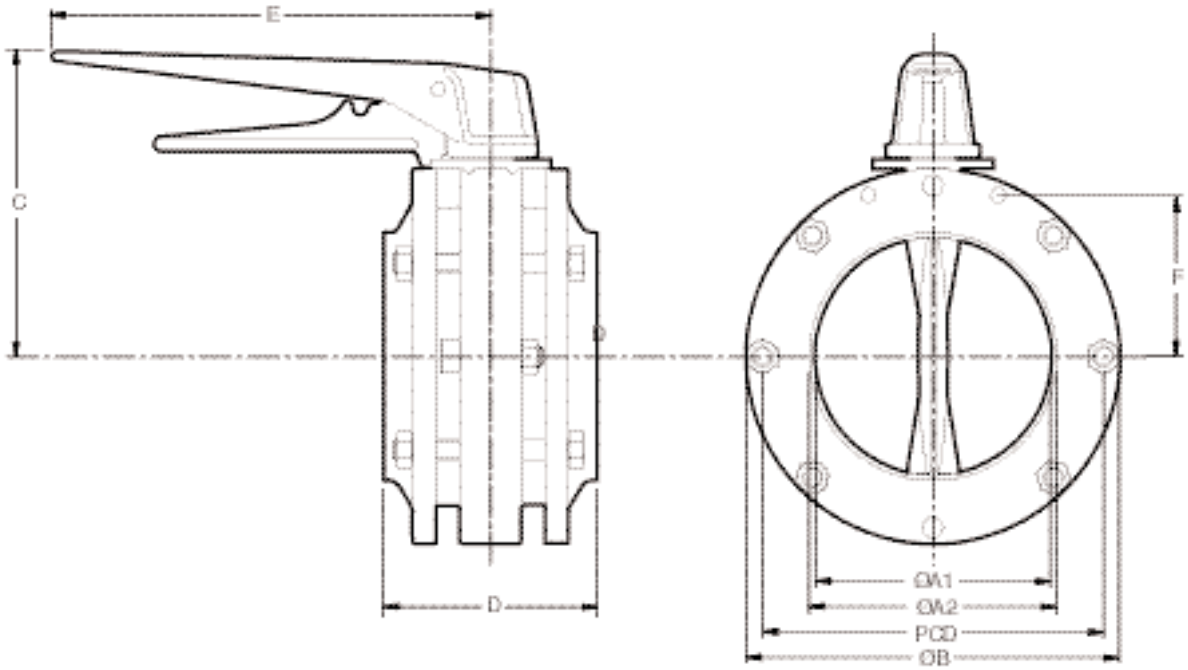

F250 wafer flange imperial valve dimensions (mm)

Valve Size mm	Valve Size inches	ØA1	ØA2	ØB	C	D	E	F	PCD	No. Holes	Hole Dia	Stem Conn.	Mass (kg)	Kv (Fully open)
25	1”	22.3	25.8	69	83.5	88	185	26.5	59	8	6	8mm sq.	1.3	17
40	1½”	35.0	38.5	79	88.5	88	185	31.5	69	8	6	8mm sq.	1.5	64
50	2”	47.7	51.2	94	96.0	88	185	38.0	84	8	6	8mm sq.	2.0	131
65	2½”	60.4	63.9	104	101.0	88	185	43.0	95	8	6	8mm sq.	2.3	220
80	3”	73.1	76.6	124	112.0	100	185	50.0	111	8	8	10mm sq.	3.0	333
100	4”	98.5	102.0	151	125.5	110	185	64.5	139	8	8	12mm sq.	5.0	726
125	5”	123.0	127.4	198	171.0	122	266	90.4	177	8	10	15mm sq.	10.8	1370
150	6”	148.4	153.0	223	183.5	130	266	99.5	203	8	12	15mm sq.	15.5	2050

F251 wafer flange metric valve dimensions (mm)

Valve Size mm	Valve Size inches	ØA1	ØA2	ØB	C	D	E	F	PCD	No. Holes	Hole Dia	Stem Conn.	Mass (kg)	Kv (Fully open)
25	-	26	30.4	74	86.0	88	185	29.0	63	8	6	8mm sq.	1.5	19
32	-	32	36.4	79	88.5	88	185	31.5	69	8	6	8mm sq.	1.6	41
40	-	38	42.4	87	92.5	88	185	35.5	76	8	6	8mm sq.	1.7	69
50	-	50	54.4	99	98.5	88	185	40.5	89	8	6	8mm sq.	2.4	206
65	-	66	70.4	123	111.5	90	185	49.5	109	8	8	10mm sq.	3.0	263
80	-	81	85.4	138	119.0	90	185	57.5	124	8	8	10mm sq.	4.0	381
100	-	100	104.4	158	129.0	90	185	68.0	144	8	8	12mm sq.	5.5	689
125	-	125	132.4	198	171.0	122	266	90.4	177	8	10	15mm sq.	10.8	1370
150	-	150	156.4	223	183.5	130	266	99.5	203	8	12	15mm sq.	15.5	2050

Note

- Dimension ‘E’ is the maximum clearance length for either handle.
- Masses shown are for bare shafted valves only.

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Hygienic Products – Figure 250/251 Wafer valve

Typical specifying sequence - valves

Valve (bare)	**50**	**F250**	**263**	**WAF**
	Valve size	Figure number	Trim code	End connections

Trim	Body/flanges	Disc stem	Seat	Bearing
259	316L S/S	316 S/S	Viton	Acetal
262	316L S/S	316 S/S	EPDM	Acetal
263	316L S/S	316 S/S	Silicon	Acetal
264	316L S/S	316 S/S	Nitrile	Acetal

Typical specifying sequence - handles

Handle	**F397**	**08SQ**	**P**
	Figure number	Stem connections	Material code

Code	Material
P	Polymer
S	304 S/S

Notes

End Connections:
Butt weld only

For information on the standard F250/F251 refer to seperate literature sheet.

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