

tyco

Flow Control

KEYSTONE

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

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

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

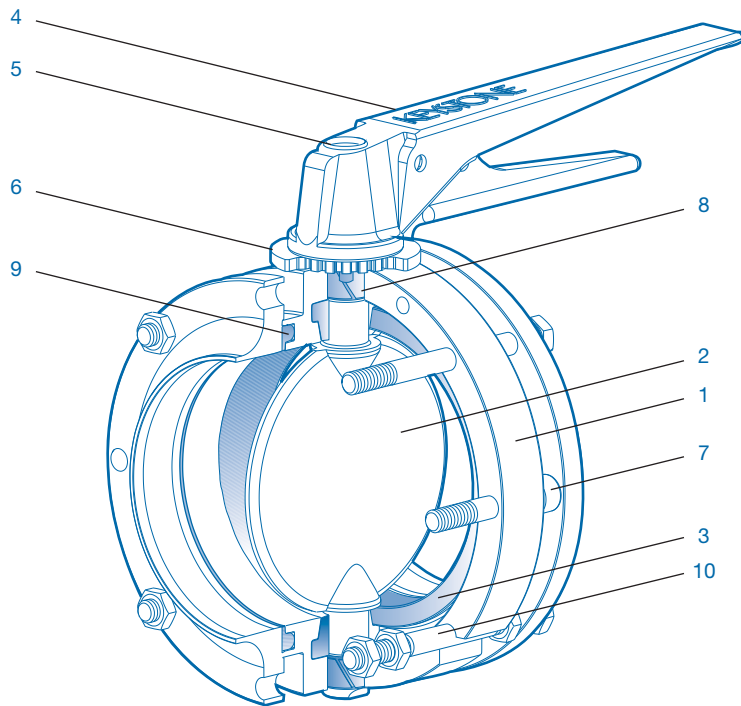


General Applications

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.

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

Recommended Working

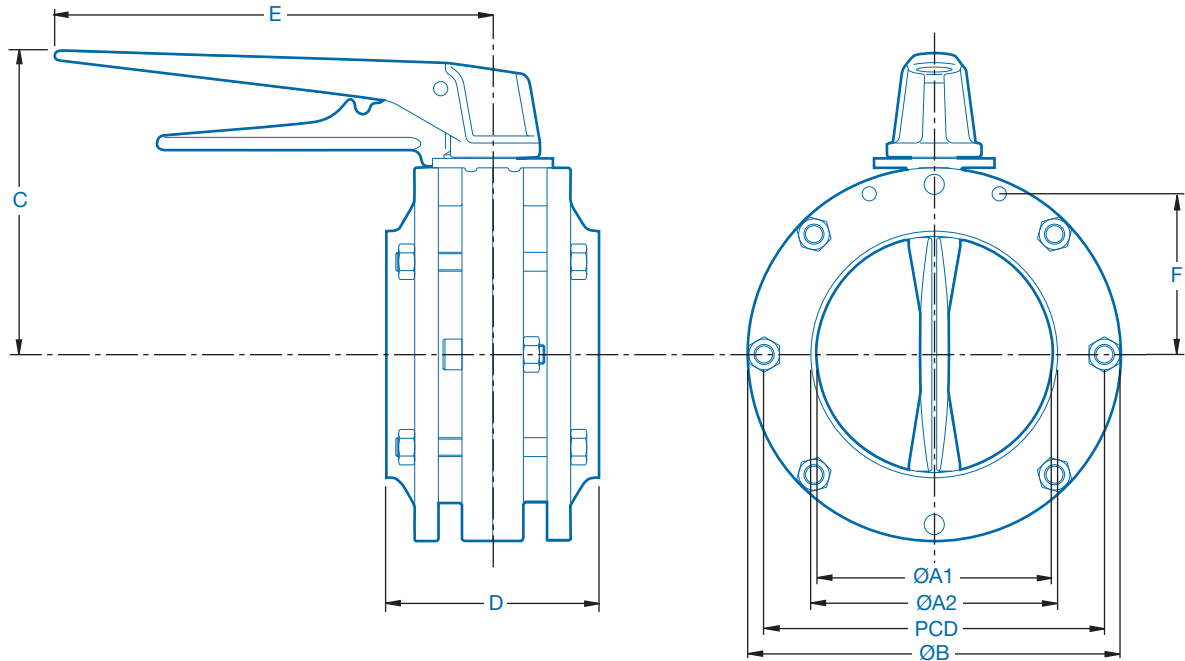
5°C to 95°C

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) EPDM (black) Nitrile (black) Viton (red)	FDA FDA FDA -
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	PVDF	Commercial
9	Flange Seal	EPDM (Other materials on application)	FDA
10	Jacking Bolt	304 S/S	ASTM A276



F250 Wafer Flange Imperial Valve Dimensions (mm)

Valve Size		ØA1	ØA2	ØB	C	D	E	F	PCD	No. Holes	Hole Dia	Stem Conn.	Mass (kg)	Kv (Fully open)
DN	Imperial													
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	10	15mm sq.	15.5	2050

F251 Wafer Flange Metric Valve Dimensions (mm)

Valve Size		ØA1	ØA2	ØB	C	D	E	F	PCD	No. Holes	Hole Dia	Stem Conn.	Mass (kg)	Kv (Fully open)
DN	Imperial													
25	1"	26	29.2	74	86.0	88	185	29.0	63	8	6	8mm sq.	1.5	19
32	1¼"	32	35.2	79	88.5	88	185	31.5	69	8	6	8mm sq.	1.6	41
40	1½"	38	41.2	87	92.5	88	185	35.5	76	8	6	8mm sq.	1.7	69
50	2"	50	54.4	99	98.5	88	185	40.5	89	8	6	8mm sq.	2.4	206
65	2½"	66	70.4	123	111.5	90	185	49.5	109	8	8	10mm sq.	3.0	263
80	3"	81	85.4	138	119.0	90	185	57.5	124	8	8	10mm sq.	4.0	381
100	4"	100	104.4	158	129.0	90	185	68.0	144	8	8	12mm sq.	5.5	689
125	5"	125	129.4	198	171.0	122	266	90.4	177	8	10	15mm sq.	10.8	1370
150	6"	150	129.4	223	183.5	130	266	99.5	203	8	10	15mm sq.	15.5	2050

Note:

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

Hygienic Products – Figure 250/251 Wafer valve

Typical Specifying Sequence

Example

050

F250

255

CLP/RJT

H8S

Valve Size:

1"	(025)	DN25
1.25"	(032)	DN32
1.5"	(040)	DN40
2"	(050)	DN50
2.5"	(065)	DN65
3"	(080)	DN80
4"	(100)	DN100
5"	(125)	DN125
6"	(150)	DN150

Figure:

F250 - Imperial tubing wafer style butterfly valve

F251 - Metric tubing wafer style butterfly valve

Trim	Seat	Body	Disc	Bearing
255	EPDM	304L	316L	PVDF
256	Silicon	304L	316L	PVDF
257	Nitrile	304L	316L	PVDF
258	Viton	304L	316L	PVDF
259	Viton	316L	316L	PVDF
262	EPDM	316L	316L	PVDF
263	Silicon	316L	316L	PVDF
264	Nitrile	316L	316L	PVDF

End Connections:

Weld Ends

BW - Butt Weld

BWD - Butt Weld

PAP - BW Extension Tube 101.6mm Long

WAF - Wafer valve & BW flanges

WBO - Wafer valve without flanges

Clamp Ends

CLF - Clamp Ends (Fabricated)

CLP - Clamp (Machined)

DCL - DIN Clamp End, DIN sizing

ILN - I Line, Male Spigot

Thread Ends

BSP - Internal Thread (BSPT)

DIN Tube DIN - DIN Thread (Fabricated)

HEX - Hexagonal Nut & Liner, RJT

HXM - Hexagonal Nut & Liner Mod, RJT

IDF - BS/ISO/Japanese Standard

NPT - NPT Taper Thread (Fabricated)

NPF - NPT Taper Thread

RJF - RJT Male part (Fabricated)

RJL - RJT Male part Long (Machined)

RJM - RJT Male part (Machined) (BSM) Modified Spigot

RJT - RJT Male part Machined

RND - Round Nut & Liner, RJT

SMS - SMS Male part, External Thread 6 TPI (Machined)

SMF - SMS Male part, External Thread 6 TPI (Fabricated)

Extended Definer:

H7P - F397 Polymer Handle

H7S - F397 304 Stainless Handle

H8S - F398 304 Stainless Handle