

tyco

Flow Control

KEYSTONE

The Figure 239/139/129 features a reinforced hard-backed seat for use in heavy applications. Available in wafer (Fig 239/139) and lugged (Fig 129) styles for a variety of applications.

Features & Benefits

- Factory testing of every valve at full rating ensures 100% tight shut-off.
- Actuator flange is standardized for easy operator interchangeability and direct mounting of Keystone range of actuators.
- Valve stem has high tensile strength and positive disc control. The stem ends are standardized for operator changeability.
- Primary seal formed by the seat/stem/hub contact exceeds the pressure rating of the valve. Body is totally isolated from the flow medium.
- Secondary stem seal is suitable for pressure and vacuum service and is self-adjusting.
- Disc screw of high quality stainless steel or 'K' Monel provides positive vibration-proof connection between disc and stem.
- Moulded-in spring steel ring inhibits distortion of elastomer seat even under severe operating conditions.
- Hard-backed replaceable seat type fully isolates the stem and body from the media and serves as the flange gasket. It requires no bonding and is both simple and fast to replace.
- Top bushing of the heavy duty type absorbs full side thrust and torque load.



General Applications

- Tight shut-off under rugged service conditions, such as for service mains and offshore production platforms
- Trouble-free service life in a variety of general services and extreme line conditions, e.g. vacuum freeze drying systems, refining monitoring stations, water flooding systems, pulp and paper industry and many more industrial and marine applications

Technical Data

Pressure	: 16kg/cm ² (230 psi)
Temperature	: -40°C to 120°C (-40°F to 248°F)
Size	: 50mm to 500mm (2" to 20")
Flange	
Accommodation	: JIS 16K/20K KS 16K/20K ANSI 150

* Other flange accommodation : Consult factory

Butterfly Valve Figure 239/139/129

Valve Dimensions

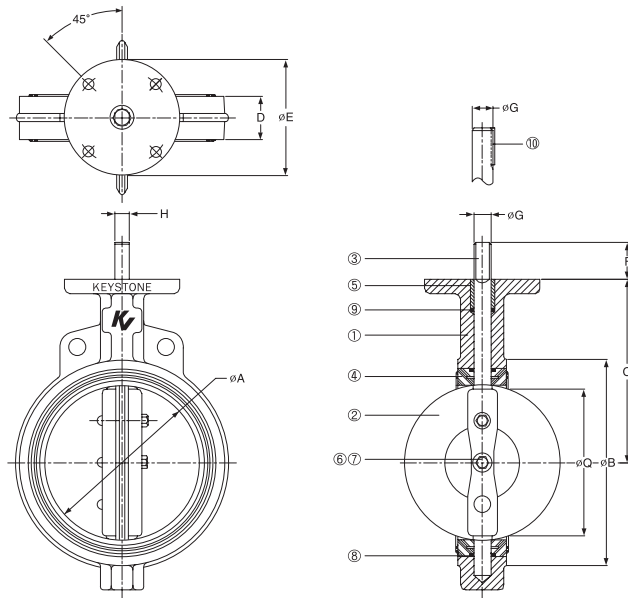


Figure 239

Part Name
1 Body
2 Disc
3 Stem
4 Seat
5 Bushing
6 Disc Screw
7 O-ring
8 O-ring
9 Packing
10 Key

Figure 239 Valve Dimensions (mm)

Valve Size (inch)(mm)	ϕA	ϕB	C	D	ϕE	F	ϕG	H	ϕQ	Top Plate Data			Weight (kg)	
										B.C.D.	Hole No.	Hole Dia.		
2	50	51	98	140	41	102	32	14.3	9.5	36	82.6	4	11.1	2.3
2½	65	64	117	152	44	102	32	14.3	9.5	51	82.6	4	11.1	2.8
3	80	76	133	159	44	102	32	14.3	9.5	68	82.6	4	11.1	3.2
4	100	102	162	178	51	102	32	15.9	11.1	94	82.6	4	11.1	5.9
5	125	127	187	191	54	102	32	15.9	11.1	121	82.6	4	11.1	6.4
6	150	152	217	203	54	102	32	19.1	12.7	149	82.6	4	11.1	7.7
8	200	203	271	241	64	152	32	22.2	15.9	202	127.0	4	14.3	15.9
10	250	254	330	273	64	152	51	28.6	-	255	127.0	4	14.3	21.3
12	300	305	394	311	76	152	51	28.6	-	304	127.0	4	14.3	34.0

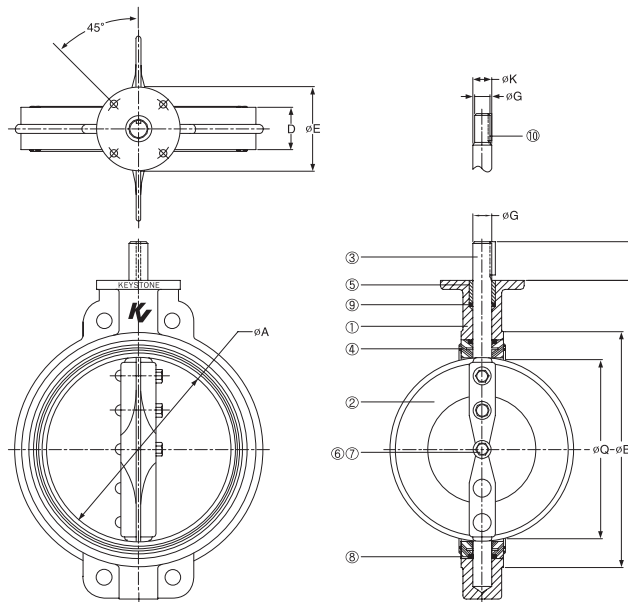


Figure 139

Part Name
1 Body
2 Disc
3 Stem
4 Seat
5 Bushing
6 Disc Screw
7 O-ring
8 O-ring
9 Packing
10 Key

Figure 139 Valve Dimensions (mm)

Valve Size (inch)(mm)	ϕA	ϕB	C	D	ϕE	F	ϕG	ϕK	ϕQ	Top Plate Data			Weight (kg)	
										B.C.D.	Hole No.	Hole Dia.		
14	350	330	426	305	76	152	76	34.9	-	327	127	4	14.3	52.2
16	400	381	483	329	102	152	76	41.3	-	377	127	4	14.3	95.3
18	450	432	540	368	108	203	108	47.6	-	426	165	4	21.0	108.9
20	500	483	597	403	127	203	108	47.6	54	475	165	4	21.0	143.3

Figure 129

Part Name
1 Body
2 Disc
3 Stem
4 Seat
5 Bushing
6 Disc Screw
7 O-ring
8 O-ring
9 Packing
10 Key

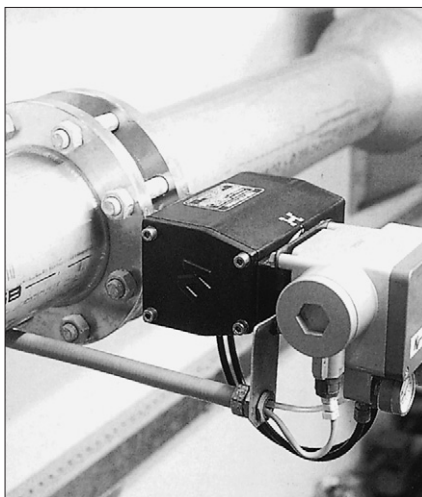
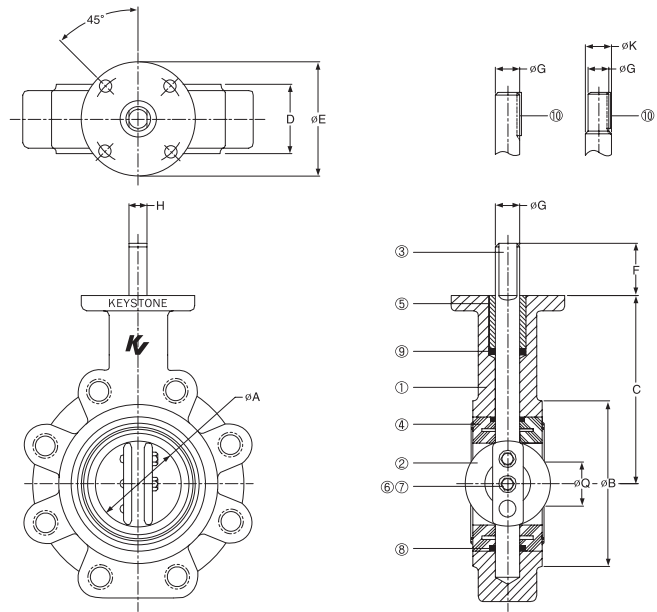


Figure 129 Valve Dimensions (mm)

Valve Size (inch)(mm)	øA	øB	C	D	øE	F	øG	H	øK	øQ	Top Plate Data			Weight (kg)	
											B.C.D.	Hole No.	Hole Dia.		
2	50	51	98	140	41	102	32	14.3	9.5	-	36	82.6	4	11.1	3.6
2½	65	64	117	152	44	102	32	14.3	9.5	-	51	82.6	4	11.1	4.1
3	80	76	133	159	44	102	32	14.3	9.5	-	68	82.6	4	11.1	4.5
4	100	102	162	178	51	102	32	15.9	11.1	-	94	82.6	4	11.1	8.2
5	125	127	187	191	54	102	32	15.9	11.1	-	121	82.6	4	11.1	9.5
6	150	152	217	203	54	102	32	19.1	12.7	-	149	82.6	4	11.1	10.0
8	200	203	271	241	64	152	32	22.2	15.9	-	202	127.0	4	14.3	20.0
10	250	254	330	273	64	152	51	28.6	-	-	255	127.0	4	14.3	21.8
12	300	305	394	311	76	152	51	28.6	-	-	304	127.0	4	14.3	43.6
14	350	330	425	305	76	152	76	34.9	-	-	327	127.0	4	14.3	59.4
16	400	381	483	329	102	152	76	41.3	-	-	377	127.0	4	14.3	100.0
18	450	432	543	368	108	203	108	47.6	-	-	426	165.0	4	21.0	119.7
20	500	483	597	403	127	203	108	47.6	-	54	475	165.0	4	21.0	167.0

Notes

- Valve size shown is the 100mm & 350mm.
- "Q" is the disc chordal dimension at face of valve for disc clearance into pipe fitting or equipment.
- The valve dimensions are for reference only. For detailed information, please consult factory.

Actuator Selection

Actuator	Figure	Remark
Handle	F401	Handlever
Gear	F42X	-
Pneumatic	F79U	-
Gear & Pneumatic	F453/79U	Dec clutchable gear unit provides manual override for the Keystone pneumatic actuator.
Electric	EPI ₂	-

