KITZ

XJ Series

Aluminum Butterfly Valves

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KITZ XJ series aluminum butterfly valves: Featuring a unique style for the neck designs (U.S.P. No. 6676109) to accommodate various piping designs, piping positions, and installation environments.

Your choice of two neck designs :

A long neck type and a short neck type are available for use in a variety of applications.

Easy valve-to-flange centering :

The light weight of the die-cast aluminum valve body (which is only one third of the weight of KITZ's conventional cast-iron butterfly valves) eases valve-to-flange centering work on mounting valves on pipelines.

Wide range of service applications :

Austenitic stainless steel discs and EPDM* rubber seats can handle many different types of line fluid without risk of corrosion.
*EPDM:ethylene propylene diene terpolymer

Stabilized operating torque :

A pair of stem bearings assembled around the top and bottom stems prevents stem galling and stabilizes the valve operating torque for smooth and trouble-free disc rotation.

On-the-spot actuator assembly :

The actuator mounting pads of all necks are designed in conformity with ISO 5211 requirements for direct on-site mounting of actuators that are provided with ISO 5211 valve mounting flanges.

Prevention of dew condensation (Long neck type) :

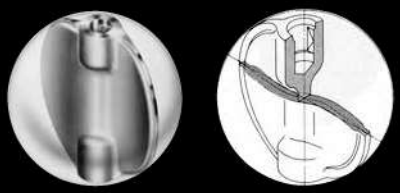
A long stainless steel neck blocks transfer of fluid heat to the valve operating device, so no insulation is needed on the operating device. Dew condensation is also minimized for gear-operated valves used in cold water service.

Rust prevention :

The main parts such as the stems, discs, necks, neck connectors, and endplates and small parts such as stopper plates, washers, and boltings are all made of stainless steel for high-grade rust prevention.

S-shaped spherical disc for high sealing performance (patented) :

KITZ's original cross-sectionally S-shaped valve discs with spherical surfaces make evenly tight contact with rubber liners for excellent sealing performance with reduced operating torque. Complete 360° shut-off mechanisms help to extend the service life of rubber liners. (Size:≥2 inches)

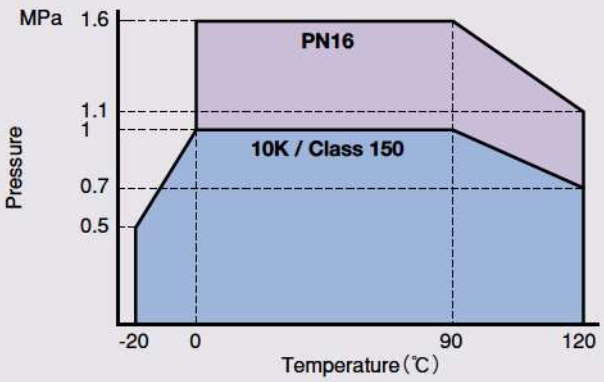


Technical Specification

Class	JIS 10K	Class 150	PN16
Maximum service pressure	1 MPa	1 MPa	1.6 MPa (16 bar)
Service temperature range*1	−20℃ to +120℃		
Continuous service Temperature range*2	−20℃ to +100℃		
Face-to-face dimension	API609, BS EN558 Basic Series20 ISO 5752-20, JIS B 2002 46 series		
Coupling flanges	JIS B 2220/ 2239 10K	ASME Class 150*3 JIS B 2220/ 2239 10K	EN1092 PN16*3

*1 Condition: Fluid is not frozen.
*2 Refer to P-T rating chart.
*3 With centering sleeves.
Refer to the product range chart on page 3 and precautions on page 14 for details.

P-T Rating

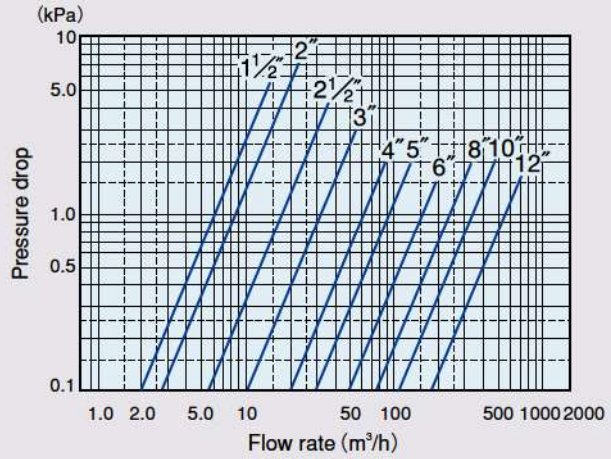


Note : Contact the KITZ Corporation for technical advice when service conditions may exceed the limits of the P-T rating range shown here.

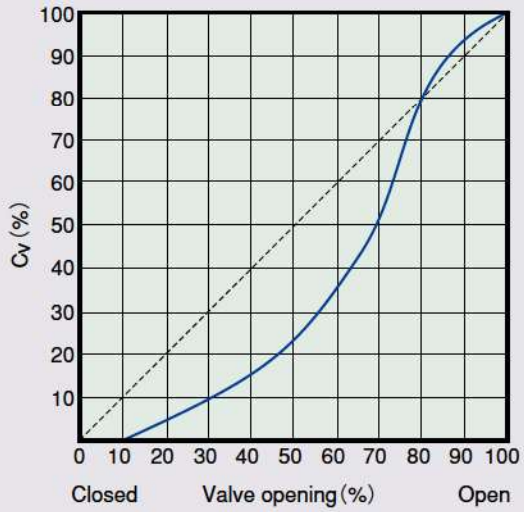
Cv Value

Valve size		Valve opening
mm	inch	90°
40	1½	77
50	2	99
65	2½	205
80	3	372
100	4	723
125	5	1100
150	6	1820
200	8	2780
250	10	4350
300	12	6860

Pressure Loss (for handling static clean water)



Flow Characteristics

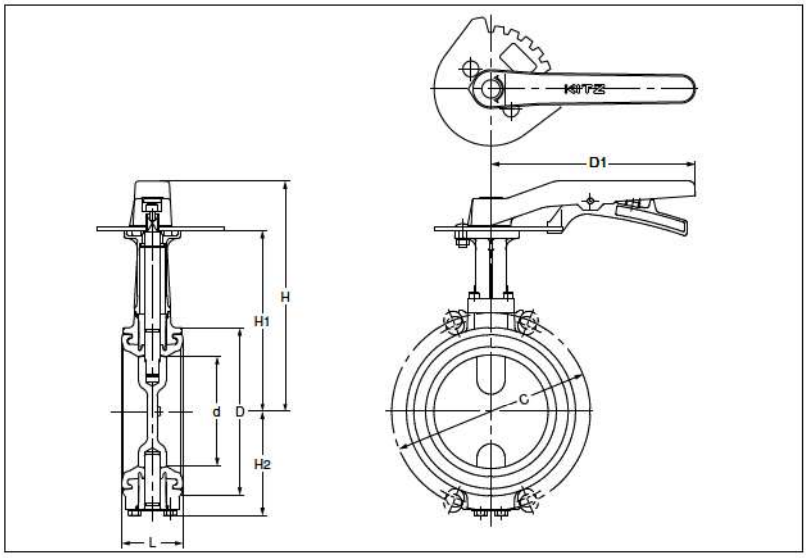


Material

Parts	Materia
Body	Aluminum Die-cast/Equivalent ASTM B85-84-383.0
Neck	304 Stainless Steel
Stem	(Equivalent ASTM A276 Type 410)
Disc	A351 Gr. CF8M
O-ring	EPDM
Rubber seat	EPDM
Bottom stem	(Equivalent ASTM A276 Type 410)
Bearing	Metal Backed PTFE (Size 10″ and 12″) Polyphenylenesulfide (10XJMEA : Size 1½″ to 8″) Bronze : CAC401 (PN16XJME : Size 2″ to 8″)

Long Neck Type *Lever Operated*

10XJME (Size: "1½" to "6")
10XJMEA (Size: "1½" to "8")*
PN16XJME (Size: "2" to "6")



■Dimensions

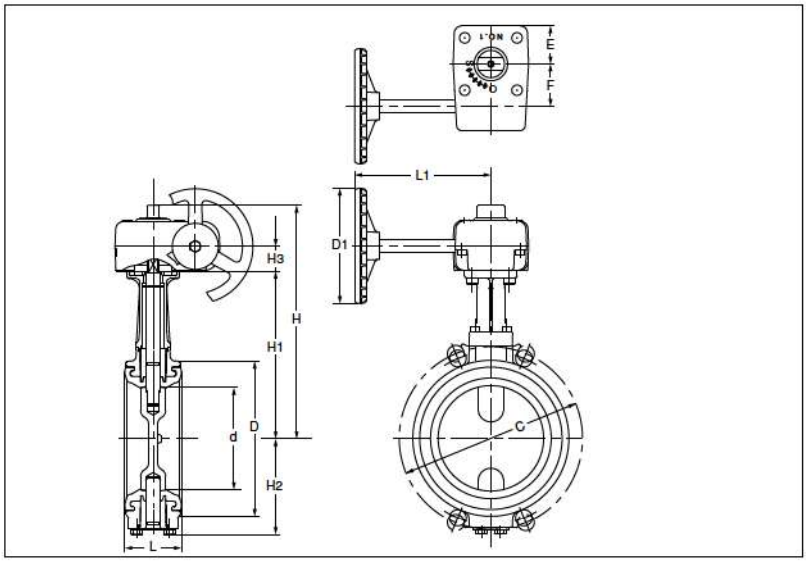
unit: mm

Size		d	H	H1	H2	L	D	C			D1
mm	inch							10K	Class 150	PN16	
40	1½	40	172	128	40	33	80	105	98.5	—	180
50	2	50	176	132	66	43	93	120	120.5	125	180
65	2½	65	185	141	74	46	118	140	139.5	145	180
80	3	80	193	149	83	46	129	150	152.5	160	180
100	4	100	204	160	94	52	149	175	190.5	180	180
125	5	125	249	195	122	56	184	210	216	210	230
150	6	150	261	207	135	56	214	240	241.5	240	230
200	8	196	281	234	161	60	258	—	298.5	—	350

* JIS 10K and ASME Class 150. Refer to Page 3 for details.

Long Neck Type *Gear Operated*

G-10XJME (Size: "1½" to "12")
G-10XJMEA (Size: "1½" to "10")*
G-PN16XJME (Size: "2" to "8")



■Dimensions

unit: mm

Size		d	H	H1	H2	H3	L	D	C			D1	L1	E	F	Gear type
mm	inch								10K	Class150	PN16					
40	1½	40	175	128	40	19	33	80	105	98.5	—	80	122	29	28	No.0
50	2	50	179	132	66	19	43	93	120	120.5	125	80	122	29	28	No.0
65	2½	65	188	141	74	19	46	118	140	139.5	145	80	122	29	28	No.0
80	3	80	196	149	83	19	46	129	150	152.5	160	80	122	29	28	No.0
100	4	100	223	160	94	24	52	149	175	190.5	180	110	135	36	40	No.1
125	5	125	258	195	122	24	56	184	210	216	210	110	150	36	40	No.1
150	6	150	270	207	135	24	56	214	240	241.5	240	110	150	36	40	No.1
200	8	196	311	234	161*1	32	60	258	290	298.5	295	170	180	51	63	No.2
250	10	245	405	328	238	32	68	316	355	362	—	170	180	51	63	No.2
300	12	295	430	353	263	32	78	367	400	—	—	170	180	51	63	No.2

*1 G-PN16XJME H2=183
* JIS 10K and ASME Class 150. Refer to Page 3 for details.