

WZI FLOW CONTROL



SERIES WB410

Fluoropolymer Lined Butterfly

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SERIES WB410 FEATURES

- **Concentric** Disk Design for High Cv
- **Fully Molded One Piece** Internal Fluoropolymer Liner
- **Body Liner** seals both the valve body and connecting pipe without additional seals
- **Fully Coated** Butterfly Disk
- **Smooth Internal Flow Channel** Finishes
- **Optional Materials Linings, Coatings,** Internals and Valve Body
- **Bolted Valve Body** for Easy Liner Replacement

KEY COMPONENTS

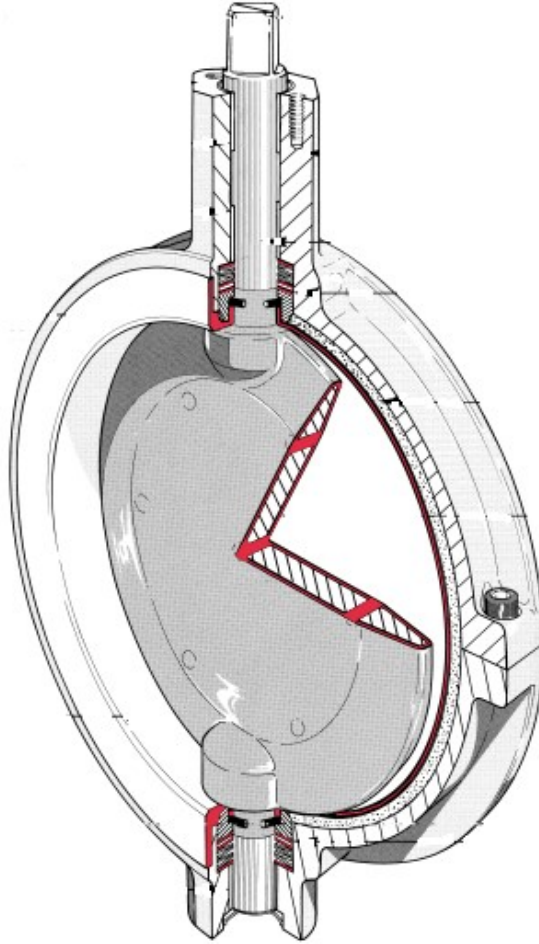


Table 1: Key Components

TYPE	Concentric Disk Fully Lined Butterfly Valve
BODY SIZE	1-1/2" ~ 24" (DN40 ~ 600)
BODY TYPE	Wafer and Double Flange
PRESSURE CLASSES	Class 150, PN 0.6, PN 1.6
OPERATING PRESSURE	145 PSIG, 1.0 Mpa, Vacuum Service to 10 Pa, 0.0015 psia
BODY CONNECTIONS	Raised Face Flange
DESIGN TEMPERATURE	-20°F ` 302°F (-29°C ` 150°C)
STEM PACKING	Silicone O-ring
SHUTOFF RATING	ANSI / FCI 70-2 CLASS VI
FACE TO FACE DIMENSIONS	Face to Face Dimensions to API 609, JSI B2002, GB12238 See Tables 4, 5, 6

Note: Prohibited fluids are elemental fluorine and molten alkali metals

MATERIALS

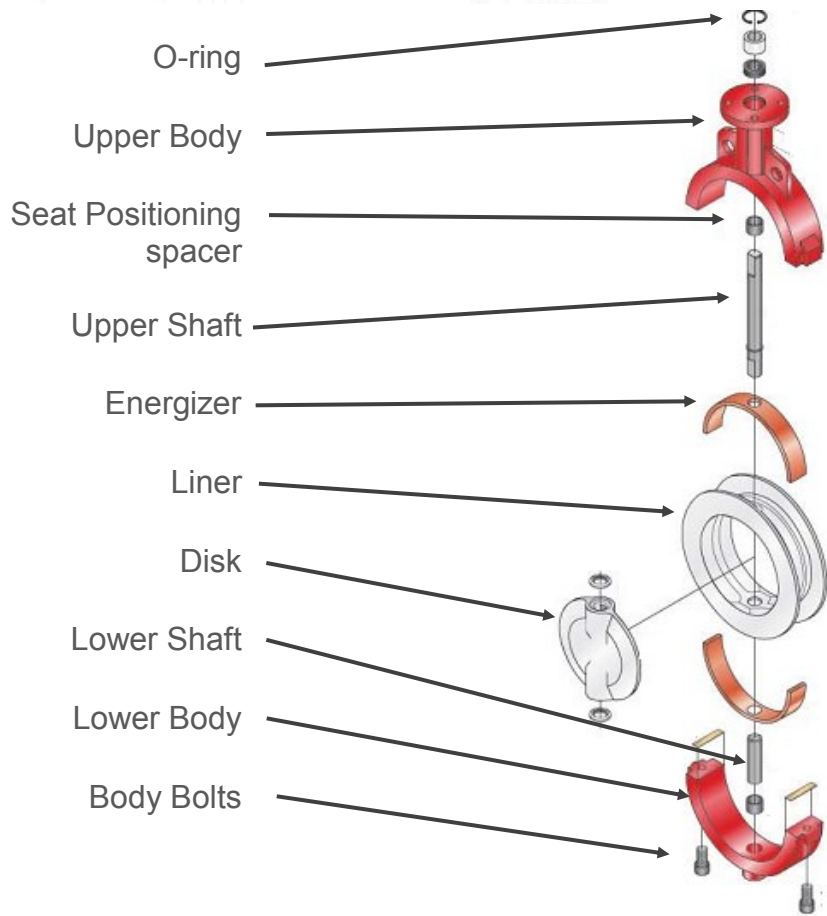


Table 2: Materials

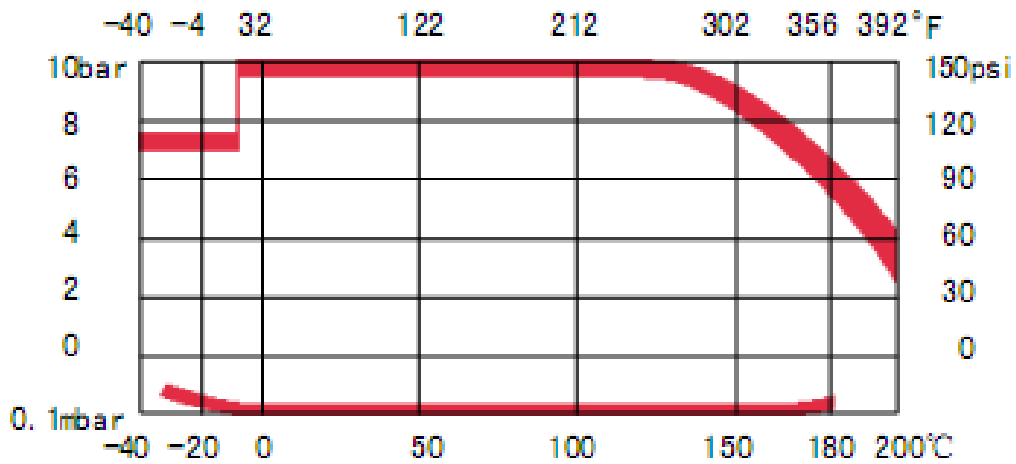
COMPONENT	MATERIAL
O-RING	SILICONE RUBBER
SEAT POSITIONING SPACER	304ss, 316ss, 321ss, 304Lss, 316Lss
UPPER/LOWER BODY	GREY IRON, WCB, CF8, CF8M, CF3, CF3M
UPPER/LOWER SHAFT	304ss, 316ss, 321ss, 304Lss, 316Lss
SEAT ENERGIZER	SILICONE RUBBER
LINER	PTFE, PCTFE, FEP, PFA, PO
DISK	GREY IRON, WCB, CF8, CF8M, CF3, CF3M
BODY BOLTING	B7, B8, B8M

Note:

- 1) Valve pressure boundary is supplied to ASTM standards. Trim components are supplied to ASTM/DIN/JIC/GB equivalent
- 2) Alternate materials are available, consult factory

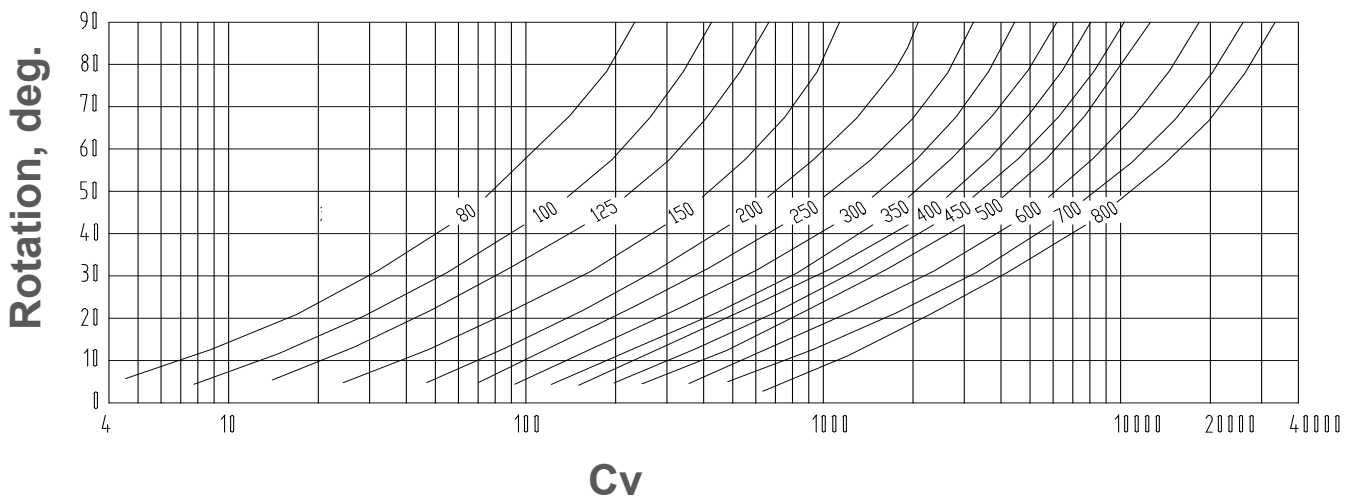
SHUTOFF LIMITS AND Cv

SHUTOFF P&T LIMITS



Note:

- 1) Shutoff pressure range is for seal limits on valve only. Actuator or shaft material may have reduced pressure limits



Note:

- 1) Valve sizes are in mm.
- 2) For sizes beyond those shown, consult Factory

VALVE ASSEMBLY WEIGHTS

Table 3: Valve Assembly Weights with RB Actuators

Actuator	Weight	Valve Size mm / inch												
		50/2"	80/3"	100/4"	125/5"	150/6"	200/8"	250/10"	300/12"	350/14"	400/16"	450/18"	500/20"	600/24"
RB63-DA	kg	7	---	---	---	---	---	---	---	---	---	---	---	---
	lb	18	---	---	---	---	---	---	---	---	---	---	---	---
RB80-DA	kg	8.5	16	---	---	---	---	---	---	---	---	---	---	---
	lb	21	40	---	---	---	---	---	---	---	---	---	---	---
RB80-SR	kg	9.1	---	---	---	---	---	---	---	---	---	---	---	---
	lb	23	---	---	---	---	---	---	---	---	---	---	---	---
RB100-DA	kg	---	17	23	27	30	---	---	---	---	---	---	---	---
	lb	---	43	58	68	75	---	---	---	---	---	---	---	---
RB100-SR	kg	11	18	---	---	---	---	---	---	---	---	---	---	---
	lb	28	45	---	---	---	---	---	---	---	---	---	---	---
RB125-DA	kg	---	---	29	33	36	47	---	---	---	---	---	---	---
	lb	---	---	73	83	90	118	---	---	---	---	---	---	---
RB125-SR	kg	---	26	32	36	---	---	---	---	---	---	---	---	---
	lb	---	65	80	90	---	---	---	---	---	---	---	---	---
RB160-DA	kg	---	---	---	---	47	58	80	90	---	---	---	---	---
	lb	---	---	---	---	118	145	200	225	---	---	---	---	---
RB160-SR	kg	---	37	43	47	50	---	---	---	---	---	---	---	---
	lb	---	93	108	118	125	---	---	---	---	---	---	---	---
RB200-DA	kg	---	---	---	---	---	---	105	115	133	---	---	---	---
	lb	---	---	---	---	---	---	263	288	333	---	---	---	---
RB200-SR	kg	---	---	74	78	81	92	---	---	---	---	---	---	---
	lb	---	---	185	195	203	230	---	---	---	---	---	---	---
RB254-DA	kg	---	---	---	---	---	---	---	---	171	206	236	256	---
	lb	---	---	---	---	---	---	---	---	428	515	590	640	---
RB254-SR	kg	---	---	---	---	---	136	158	168	186	---	---	---	---
	lb	---	---	---	---	---	340	395	420	465	---	---	---	---
RB270-DA	kg	---	---	---	---	---	---	---	---	---	214	244	264	379
	lb	---	---	---	---	---	---	---	---	---	535	610	660	948
RB270-SR	kg	---	---	---	---	---	---	172	182	200	---	---	---	---
	lb	---	---	---	---	---	---	430	455	500	---	---	---	---
RB300-DA	kg	---	---	---	---	---	---	---	---	---	---	---	---	395
	lb	---	---	---	---	---	---	---	---	---	---	---	---	988
RB300-SR	kg	---	---	---	---	---	---	---	---	215	250	---	---	---
	lb	---	---	---	---	---	---	---	---	538	625	---	---	---
RB350-DA	kg	---	---	---	---	---	---	---	---	---	---	337	357	472
	lb	---	---	---	---	---	---	---	---	---	---	843	893	1180
RB350SR	kg	---	---	---	---	---	---	---	---	---	354	384	404	519
	lb	---	---	---	---	---	---	---	---	---	885	960	1010	1298
RB400SR	kg	---	---	---	---	---	---	---	---	---	480	510	530	645
	lb	---	---	---	---	---	---	---	---	---	1200	1275	1325	1613

Note:

- 1) For sizes beyond those shown or other actuators, consult Factory

DIMENSIONS

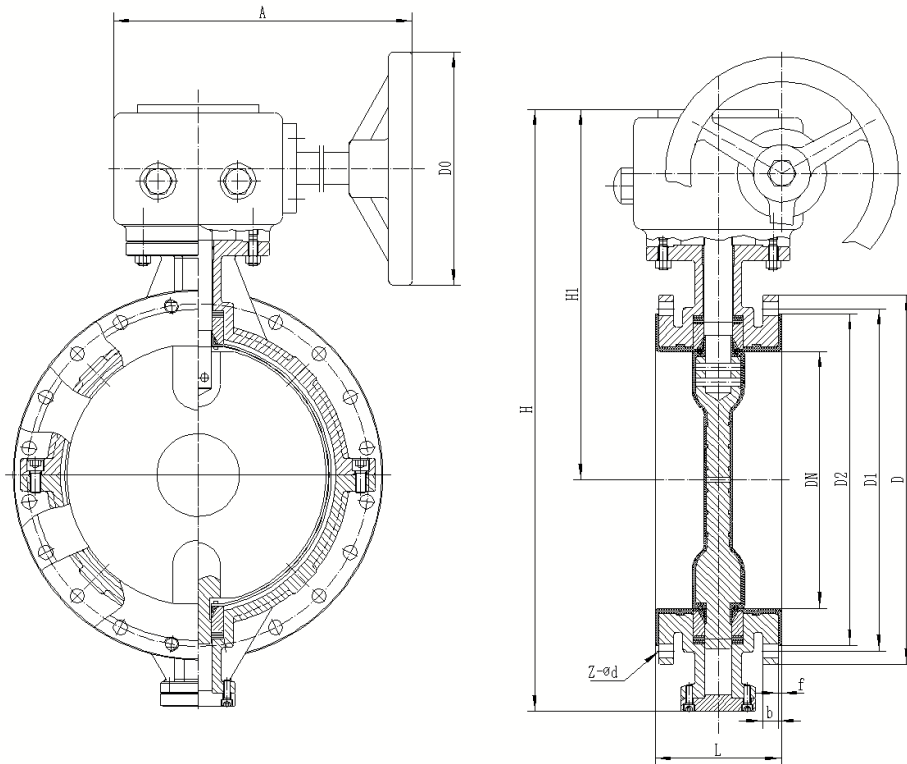


Table 4: PN 0.6 with handwheel

Nominal Diameter		Valve Dimensions							Actuator		W(kg)
DN (mm)	NPS (inch)	L	D	D ₁	D ₂	f	b	Z-ød	D ₀	H	
PN 0.6 (MPa)											
40	1.5	33	130	100	80	3	16	4-ø14	160	140	2.5
50	2	43	140	110	90	3	16	4-ø14	200	145	3.5
65	2.5	46	160	130	110	3	16	4-ø14	250	155	4.5
80	3	46	185	150	125	3	18	4-ø18	250	165	6
100	4	52	205	170	145	3	18	4-ø18	250	180	7.5
125	5	56	235	200	175	3	20	8-ø18	300	203	11
150	6	56	260	225	200	3	20	8-ø18	300	225	16
200	8	60	315	280	255	3	22	8-ø18	200*	275	48
250	10	68	370	335	310	3	24	12-ø18	200*	315	60
300	12	78	435	395	362	4	24	12-ø23	240*	348	75
350	14	78	485	445	412	4	26	12-ø23	240*	415	82
400	16	102	535	495	462	4	28	16-ø23	280*	460	123
450	18	114	590	550	518	4	28	16-ø23	280*	500	150
500	20	127	640	600	568	4	30	16-ø23	320*	530	180
600	24	154	755	705	670	5	30	20-ø25	320*	610	225

Note:

- 1) Valve dimensions are in mm.
- 2) For sizes and actuators beyond those shown, consult Factory

DIMENSIONS

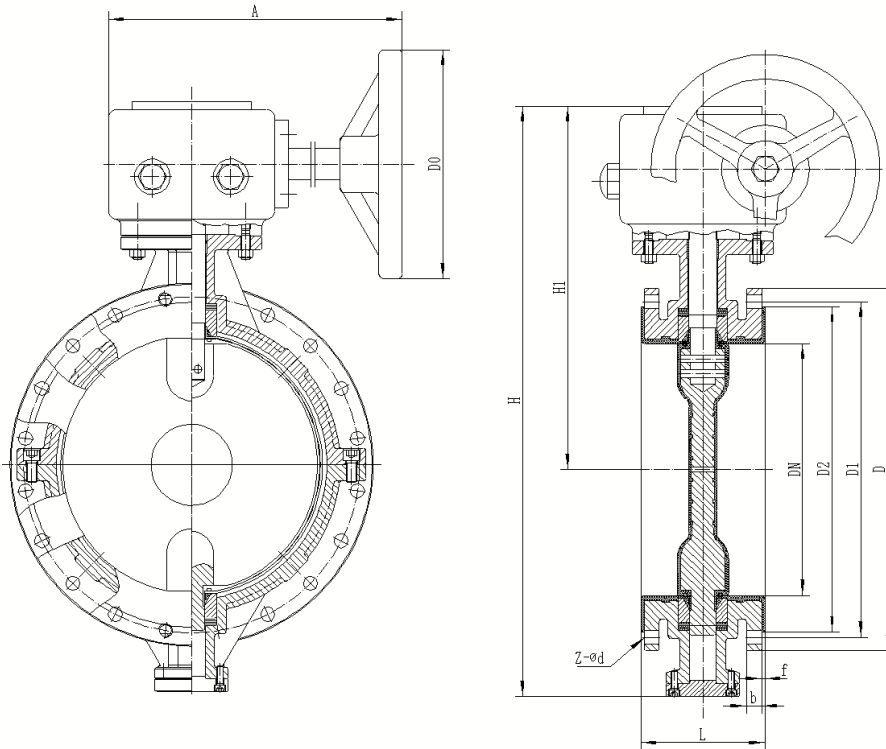


Table 5: PN 1.6 with Handwheel, metric dimensions

Nominal Diameter		Valve Dimensions							Actuator		W(kg)
DN (mm)	NPS (inch)	L	D	D ₁	D ₂	f	b	Z-ød	D ₀	H	
PN 1.6 (MPa); JIS 10K											
40	1-1/2	33	145	110	85	3	18	4-ø18	200	145	4
50	2	43	160	125	100	3	20	4-ø18	200	150	5
65	2-1/2	46	180	145	120	3	20	4-ø18	250	160	7
80	3	46	195	160	135	3	22	8-ø18	250	170	10
100	4	52	215	180	155	3	24	8-ø18	300	185	14
125	5	56	245	210	185	3	26	8-ø18	300	210	22
150	6	56	280	240	210	3	28	8-ø23	200*	230	32
200	8	60	335	295	265	3	30	12-ø23	240*	285	66
250	10	68	405	355	320	3	32	12-ø25	240*	325	80
300	12	78	460	410	375	4	34	12-ø25	280*	360	94
350	14	78	520	470	435	4	38	16-ø25	280*	430	125
400	16	102	580	525	485	4	40	16-ø30	320*	475	150
450	18	114	640	585	545	4	44	20-ø30	320*	525	172
500	20	127	705	650	608	4	46	20-ø34	320*	565	225
600	24	154	840	770	718	5	54	20-ø41	360*	620	290

Note:

- 1) Valve dimensions are in mm.
- 2) For sizes and beyond those shown, consult Factory

DIMENSIONS

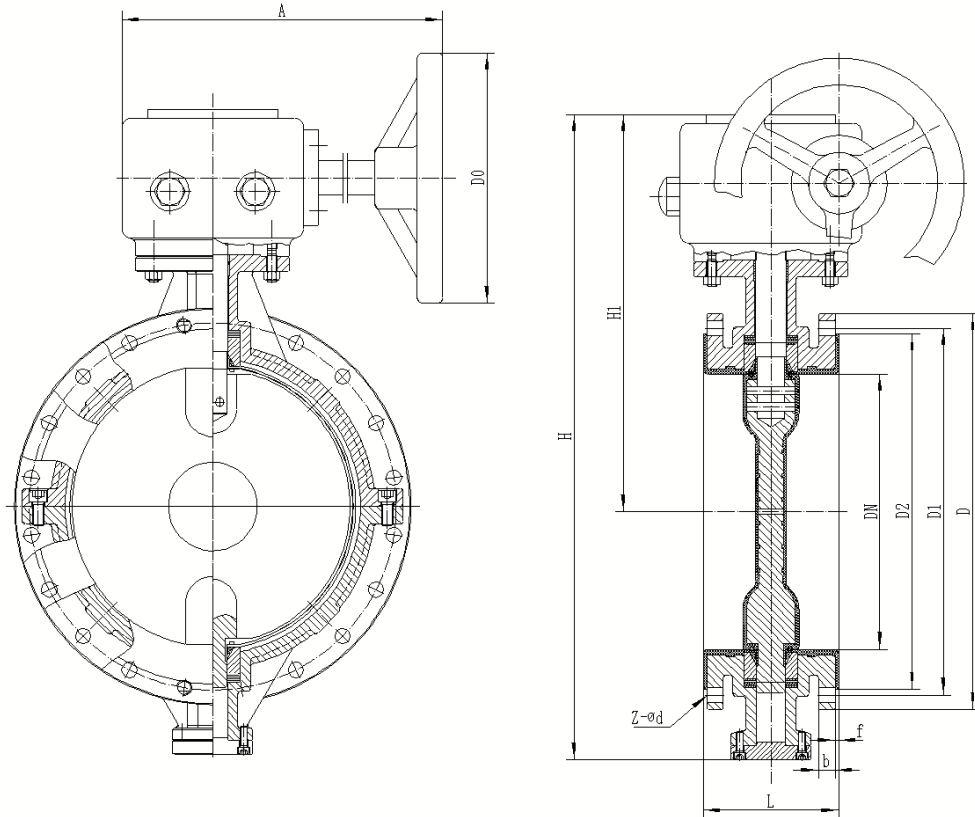


Table 6: Class 150 with Handwheel, Imperial Dimensions

Nominal Diameter		Valve Dimensions							Actuator		W(lb)
DN (mm)	NPS (inch)	L	D	D ₁	D ₂	f	b	Z-ød	D ₀	H	
CLASS 150											
40	1.5	1.30	5.00	3.88	3.3	0.12	0.71	4-ø0.62	7.9	5.7	9
50	2	1.69	6.00	4.75	3.9	0.12	0.79	4-ø0.75	7.9	5.9	11
65	2.5	1.81	7.00	5.50	4.7	0.12	0.79	4-ø0.75	9.8	6.3	15
80	3	1.81	7.50	6.00	5.3	0.12	0.87	4-ø0.75	9.8	6.7	22
100	4	2.06	9.00	7.50	6.1	0.12	0.94	8-ø0.75	11.8	7.3	31
125	5	2.20	10.00	8.50	7.3	0.12	1.02	8-ø0.88	11.8	8.3	48
150	6	2.20	11.02	9.50	8.3	0.12	1.10	8-ø0.88	7.9	9.1	70
200	8	2.38	13.50	11.75	10.4	0.12	1.18	8-ø0.88	9.4	11.2	145
250	10	2.68	16.00	14.25	12.6	0.12	1.26	12-ø1.00	9.4	12.8	176
300	12	3.06	19.00	14.00	14.8	0.16	1.34	12-ø1.00	11.0	14.2	207
350	14	4.00	21.00	18.75	17.1	0.16	1.50	12-ø1.12	11.0	16.9	275
400	16	4.00	23.50	21.25	19.1	0.16	1.57	16-ø1.12	12.6	18.7	330
450	18	4.49	25.00	22.75	21.5	0.16	1.73	16-ø1.25	12.6	20.7	378
500	20	4.50	27.50	25.00	23.9	0.16	1.81	20-ø1.25	12.6	22.2	495
600	24	6.06	32.00	29.50	28.3	0.20	2.13	20-ø1.38	14.2	24.4	638

Note:

- 1) Valve dimensions are in inches
- 2) For sizes and beyond those shown, consult Factory

WHO WE ARE

WZI Flow Control, Ltd., a subsidiary of WuZhong Instrument Company, Ltd., began business in 1959. As China's largest control valve manufacturer, WZI has a state of the art 2.8M ft² production, foundry and corporate office campus. With over 1000 employees, WZI is expanding globally with increased manu-facturing, sales and service capabilities to better serve our rapidly growing global customer base.

As a member of the highly acclaimed China Automation Group (www.cag.com.hk), WZI has successfully supplied over 1 million valves for the global market. With our 100% Testing and Serialization Program, WZI prides itself on our high quality, competitively priced products with superior delivery from our new sales and service center located in Houston, Texas. Our Southern California office designs new products and makes continuous improvements to our broad existing product offering.

LET'S WORK TOGETHER

Contact US



+1.832.328.7883



Sales@WZIFlowControl.com

Location

USA Headquarters

5656 N. Sam Houston Pkwy E.,

Suite 150 Houston, Texas 77032 USA

www.WZIFlowControl.com

WE'RE QUALIFIED

As a global manufacturing company, WZI Flow Control verifies that we are operating in full compliance with this partial list of industry standards. Our compliance includes additional standards not shown here. Please contact the factory for additional details.

ISO 9001

API Spec Q1

API 6DSS

API 607, 7th Edition

ISO 14001

API 6A

API 17D

API 6FA, 3rd Edition

OHSAS 18001

API 6D

API 609 Cat B

SIL-capable

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