

FLANGED GATE VALVE

Characteristic of Product

- On-line replacement of top seal: Easy installation and maintenance.
- Integral rubber-clad disc: The ductile iron framework is thermal-clad integrally with high-performance rubber, ensuring tight seal and rust prevention.
- Integrated brass nut: By means of special casting process, the brass stem nut is integrated with the disc with secure connection, thus the product is safe and reliable.
- Flat-bottom seat: The sealing surface of the body is flat without hollow, avoiding any dirt deposit.
- Wholly-through flow channel: The whole flow channel is through, giving “zero” pressure loss.
- Dependable top sealing: With multi-O ring structure adopted, the sealing is dependable.
- Epoxy resin coating: The cast is sprayed with epoxy resin coat both inside and outside, and the disc is wholly clad with rubber in accordance with food hygiene requirement, so it is safe and resistant to corrosion.

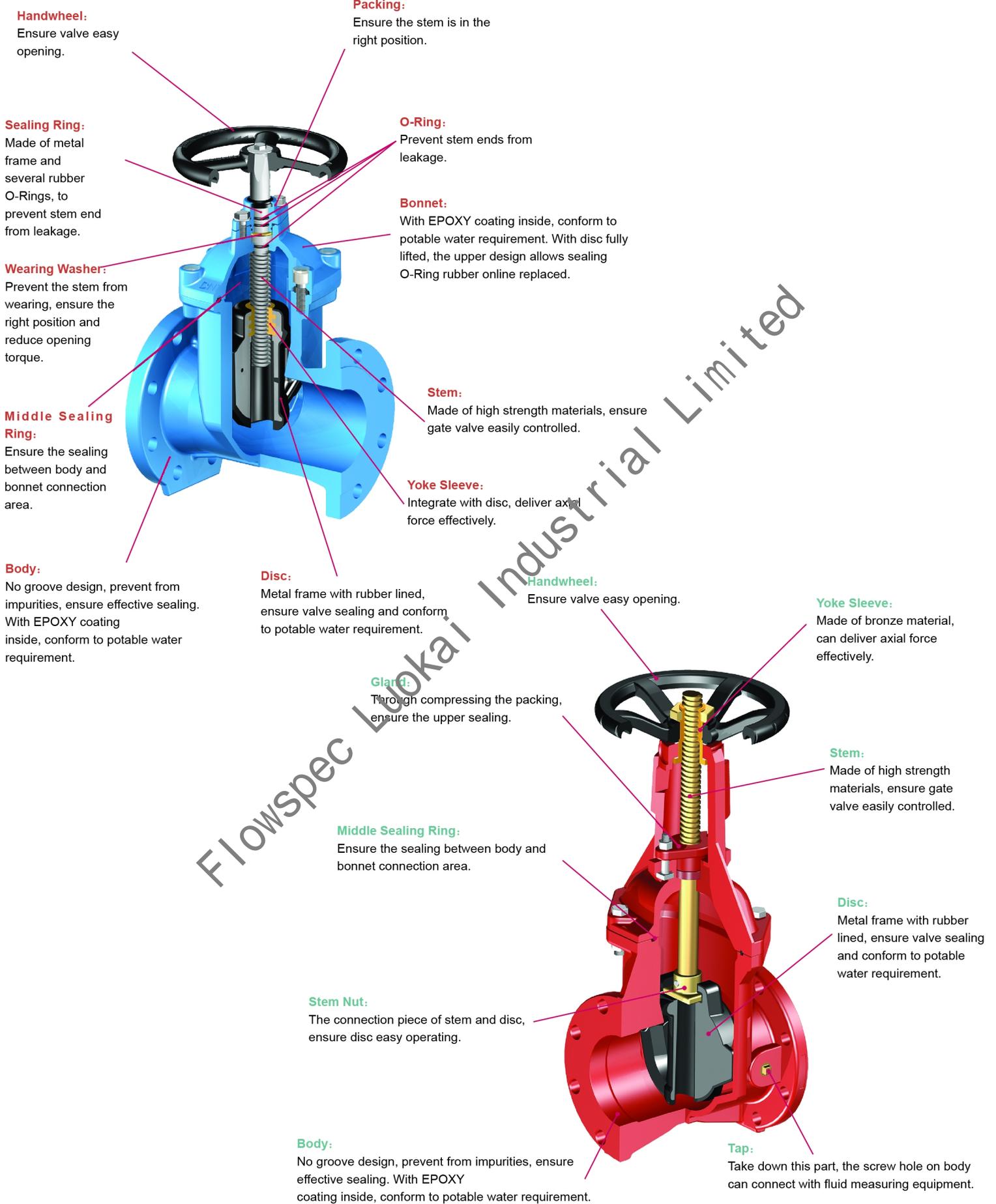


**FLOW CONTROLLED
BY US**

Flowspec Luokai Industrial Limited

Technical Data

Series		EZ				AZ				WZ				CZ		
DN Nominal Diameter		DN50-600		DN50-300		2.5" -12"		2.5" -12"		DN40-600		DN40-600		DN40-600		
PN Nominal Pressure		Non-Rising Stem		Rising Stem		Non-Rising Stem		Rising Stem		Non-Rising Stem		Rising Stem		Rising Stem		
		1.0MPa	1.6MPa	1.0MPa	1.6MPa	150PSI	200PSI	150PSI	200PSI	1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.6MPa	2.5MPa	4.0MPa
Testing Pressure	Shell	1.5MPa	2.4MPa	1.5MPa	2.4MPa	225PSI	300PSI	225PSI	300PSI	1.5MPa	2.4MPa	1.5MPa	2.4MPa	2.4MPa	3.75MPa	6.0MPa
	Sealing	1.1MPa	1.76MPa	1.1MPa	1.76MPa	165PSI	220PSI	165PSI	220PSI	1.1MPa	1.76MPa	1.1MPa	1.76MPa	1.76MPa	2.75MPa	4.4MPa
Working Temperature		-15~+425														
Suitable Media		Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis, Salts, etc.														



Handwheel:
Ensure valve easy opening.

Packing:
Ensure the stem is in the right position.

Sealing Ring:
Made of metal frame and several rubber O-Rings, to prevent stem end from leakage.

O-Ring:
Prevent stem ends from leakage.

Wearing Washer:
Prevent the stem from wearing, ensure the right position and reduce opening torque.

Bonnet:
With EPOXY coating inside, conform to potable water requirement. With disc fully lifted, the upper design allows sealing O-Ring rubber online replaced.

Middle Sealing Ring:
Ensure the sealing between body and bonnet connection area.

Stem:
Made of high strength materials, ensure gate valve easily controlled.

Yoke Sleeve:
Integrate with disc, deliver axial force effectively.

Body:
No groove design, prevent from impurities, ensure effective sealing. With EPOXY coating inside, conform to potable water requirement.

Disc:
Metal frame with rubber lined, ensure valve sealing and conform to potable water requirement.

Handwheel:
Ensure valve easy opening.

Yoke Sleeve:
Made of bronze material, can deliver axial force effectively.

Gland:
Through compressing the packing, ensure the upper sealing.

Middle Sealing Ring:
Ensure the sealing between body and bonnet connection area.

Stem:
Made of high strength materials, ensure gate valve easily controlled.

Disc:
Metal frame with rubber lined, ensure valve sealing and conform to potable water requirement.

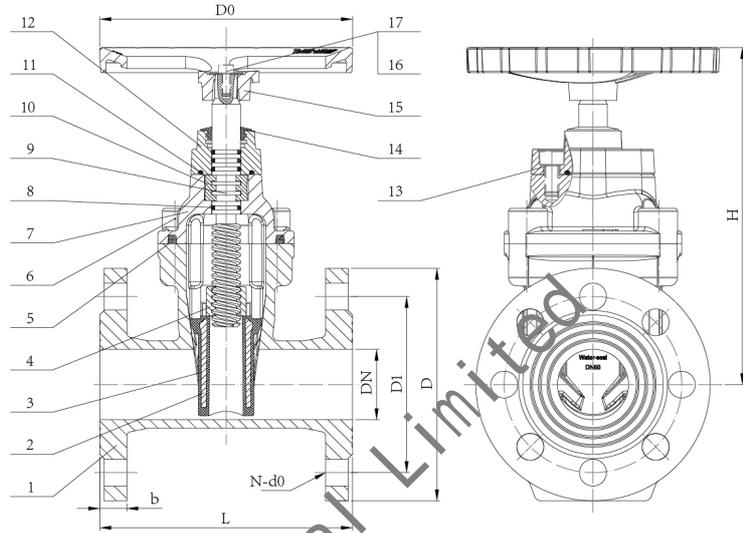
Stem Nut:
The connection piece of stem and disc, ensure disc easy operating.

Body:
No groove design, prevent from impurities, ensure effective sealing. With EPOXY coating inside, conform to potable water requirement.

Tap:
Take down this part, the screw hole on body can connect with fluid measuring equipment.

FLANGED GATE VALVE

Overall Dimensions & Weight of Series EZ Gate valve



PN1.0/1.6 MPa

DN	L			D		D1		b		N-d0		H	D0	Weight(kg)	
	F4	F5	5163	10	16	10	16	10	16	10	16			10	16
50(2")	150	250	178	165		125		19		4-19		249	180	10	11
65(2.5")	170	270	190	185		145		19		4-19		274	180	13	14
80(3")	180	280	203	200		160		18-19		8-19		310	200	23	24
100(4")	190	300	229	220		180		18-19		8-19		338	240	25	26
125(5")	200	325	254	250		210		18		8-19		406	300	33	35
150(6")	210	350	267	285		240		19		8-23		470	300	42	44
200(8")	230	400	292	340		295		20		8-23	12-23	560	350	76	80
250(10")	250	450	330	395	405	350	355	22		12-23	12-28	642	350	101	116
300(12")	270	500	356	445	460	400	410	24	22	12-23	12-28	740	400	136	156
350(14")	290	550	381	505	520	460	470	25		16-23	16-25	802	450	200	230
400(16")	310	600	406	565	580	515	525	28		16-25	16-30	907	450	430	495
450(18")	330	650	432	615	640	565	585	29		20-25	20-30	997	620	450	518
500(20")	350	700	457	670	715	620	650	31		20-25	20-34	1110	620	480	552
600(24")	390	800	508	780	840	725	770	33		20-30	20-41	1288	620	530	610

Material of Main Parts

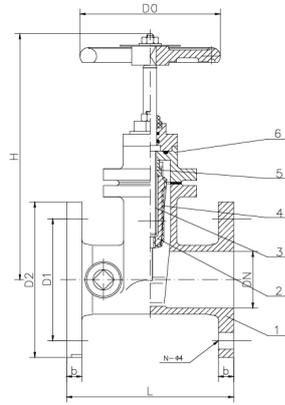
No.	Parts	Material
1	Body	65-45-12
2	Disc framework	65-45-12
3	Rubber Sealed Disc	65-45-12+EPDM
4	Shaft Nut	ZCuZn38Mn2Pb2
5	Middle Gasket	NBR
6	Internal hexagon cylinder-head bolt	Q235-A
7	Bonnet	65-45-12
8	Bonnet O-ring	NBR
9	Shaft	2Cr13

No.	Parts	Material
10	Bisect ring	ZCuZn38Mn2Pb2
11	Upper cover O-ring	NBR
12	Upper cover	65-45-12
13	Internal hexagon cylinder-head bolt	Q235-A
14	Dust cover	NBR
15	Handwheel	65-45-12
16	Flat gasket	304
17	Hexagon bolt	304

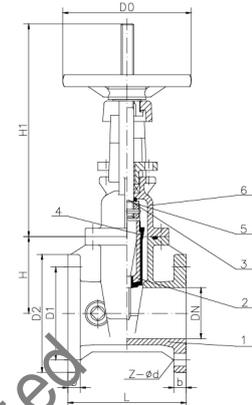
Overall Dimensions & Weights of Series AZ Gate valve



NRS(405)



OS & Y (409)



NRS(405)

125 PSI

Size mm (inch)	D1	D2	D0	H	L	b	N-Ød	Weight (kg)
DN65(2.5")	139.7(5.5)	178(7)	160(6.3)	256(10.08)	190.5(7.5)	17.53(0.69)	4-19(0.75)	15
DN80(3")	152.4(6)	190.5(7.5)	180(7.09)	275(10.83)	203.2(8)	19.05(0.75)	4-19(0.75)	20.22
DN100(4")	190.5(7.5)	228.6(9)	200(7.87)	310(12.2)	228.6(9)	23.88(0.94)	8-19(0.75)	30.5
DN150(6")	241.3(9.5)	279.4(11)	251(9.88)	408(16.06)	266.7(10.5)	25.4(1)	8-22(0.88)	53.75
DN200(8")	298.5(11.75)	342.9(13.5)	286(11.26)	512(20.16)	292.1(11.5)	28.45(1.12)	8-22(0.88)	86.33
DN250(10")	362(14.252)	406.4(16)	316(12.441)	606(23.858)	330.2(13)	30.23(1.19)	12-25.4(1)	133.33
DN300(12")	431.8(17)	482.6(19)	356(14.06)	716(28.189)	355.6(14)	31.75(1.25)	12-25.4(1)	319

OS & Y (409)

125 PSI

Size mm (inch)	D1	D2	D0	H	H1	L	b	N-Ød	Weight (kg)
DN65(2.5")	139.7(5.5)	178(7)	182(7.17)	126(4.96)	296(11.614)	190.5(7.5)	17.53(0.69)	4-19(0.75)	25
DN80(3")	152.4(6)	190.5(7.5)	250(9.84)	130(5.12)	345(13.583)	203(8)	19.05(0.75)	4-19(0.75)	31
DN100(4")	190.5(7.5)	228.6(9)	250(9.84)	157(6.18)	420(16.535)	228.6(9)	23.88(0.94)	8-19(0.75)	48
DN150(6")	241.3(9.5)	279.4(11)	302(11.89)	225(8.86)	540(21.26)	266.7(10.5)	25.4(1)	8-22.4(0.882)	72
DN200(8")	298.5(11.75)	344(13.54)	345(13.58)	285(11.22)	708(27.87)	292(11.5)	28.45(1.12)	8-22.4(0.882)	132
DN250(10")	362(14.252)	406(15.98)	408(16.06)	324(12.760)	927(36.5)	330.2(13)	30.23(1.19)	12-25.4(1)	210
DN300(12")	431.8(17)	483(19.02)	483(19.02)	383 (15.08)	1025(40.35)	355.6(14)	31.75(1.25)	12-25.4(1)	315

Material of Main Parts

NO.	Name	Material	
1	Body	HT200 ASTM A216 CL.B	
2	Rubber Disc	QT450+NBR ASTM A536 65-45-12+NBR	
3	Stem	405	Y1Cr13 416
		409	ASTM C62300
4	Sealing Face	ZQAI 9-4	
5	Stem Nut	ASTM C95200	
6	Bonnet	ASTM A216 CL.B	