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GLZ High Pressure Flow Auto Controller



GLZ Serials High Pressure Flow Controller is an integral mechanical and electrical high-tech product. It assembles the high pressure flow meter...

Description

- General
- Technical Datum
- Installation
- Structure Diagram of Wireless Communication System
- Model Selection

GLZ Serials High Pressure Flow Controller is an integral mechanical and electrical high-tech product. It assembles the high pressure flow meter, high pressure flow control valve and flow controller. The controller has a compact structure, a visual display, a high control precision, rot/corrosion proof, fouling prevention, alternating current and direct current dual-purpose, flow manual control or automatic flow control and other merits. It has been widely used for ration flow control and the projects of high pressure water/polymer injection, especially for waterflooding.

Patent No: ZL 2006 1004 6132.3 ZL 2004 2 0031280.4

GLZ Serials high Pressure Flow Auto Controller constitutes of impeller, axle and axle bearing that have been treated specifically. The meter functions well in preventing fouling of the sewage on spot and the impeller timbering assembly is easily taken out of the meter cover which are very convenient for the periodic verification of the flow meter. The executive control mechanism of the flow control valve is the alternating current electrical machine with the reduction gear. It has manual device. When the alternating current interrupts, the flow meter can work normally because of the internal power source. At this moment the valve can be controlled manually. The hand wheel is very light for the reduction gear, so the resolution ratio of regulating is relatively high. The application of the advanced electronic technology makes the complete controller have a fairly high stability and anti-jamming ability.

1. Flow Range And Accuracy

Table 1

DN (mm)	Flow Range (m³/h)		Flow Range (m³/h)
	1.0%	1.5%	
15	0.1~0.5	0.1~1	0.08~1.2
	0.2~1	0.1~1	
25	1~3	0.06~6	0.6~7
	1~5	0.6~6	
40	2~9	2~10	1~12
50	2~10 (Z)	1~10 (Z)	2.5~25 (Z)
	3~15 (Z)	2~20 (Z)	
	2~10 (J)	1~10 (J)	2~25 (J)
	3~20 (J)	2~20 (J)	
80	20~80	10~100	10~130

Note: The above flowrate can be custom-made.

2. Fluid Temperature: 0°C~+120°C ;

3. Nominal Pressure: 16MPa, 25MPa, 32MPa, 42MPa

4. Pressure Loss : <0.02MPa ;

5. Power: AC220V±10%/50HZ

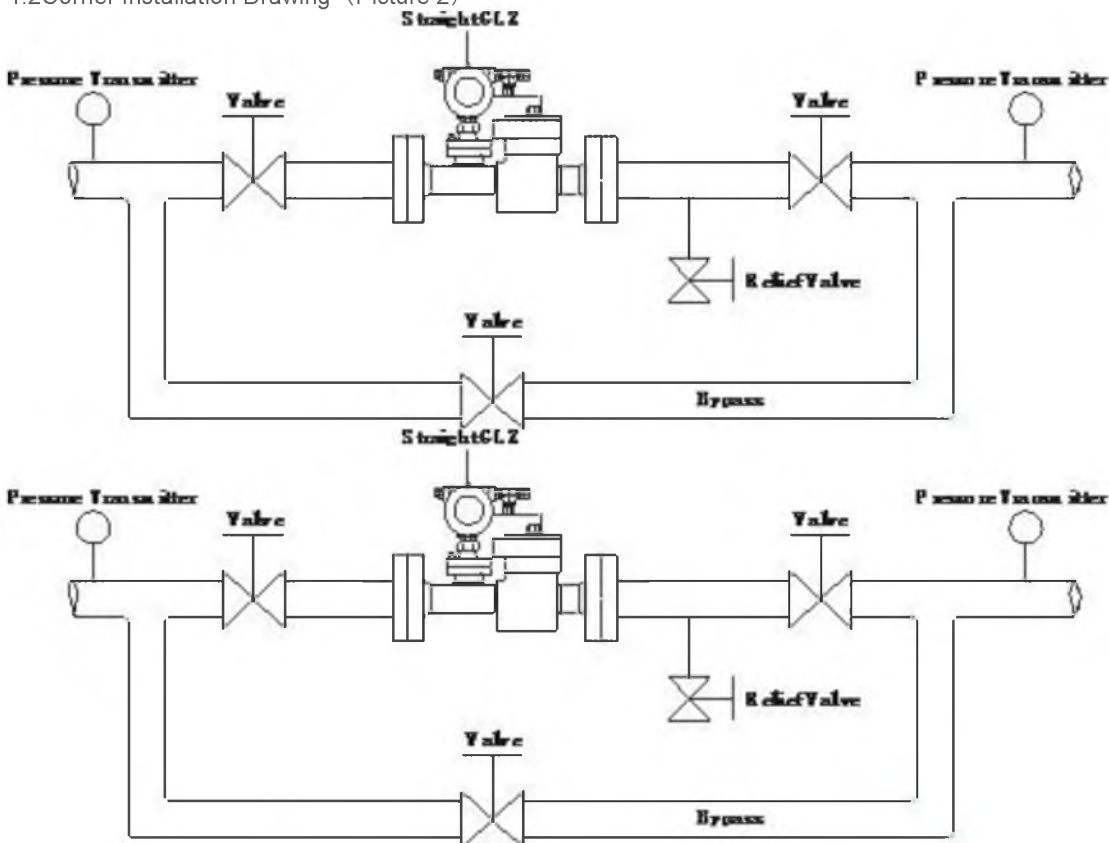
6. Power Consumption: < 100W



1、Installation Drawing

1.1 Vertical Installation Drawing (Picture 1)

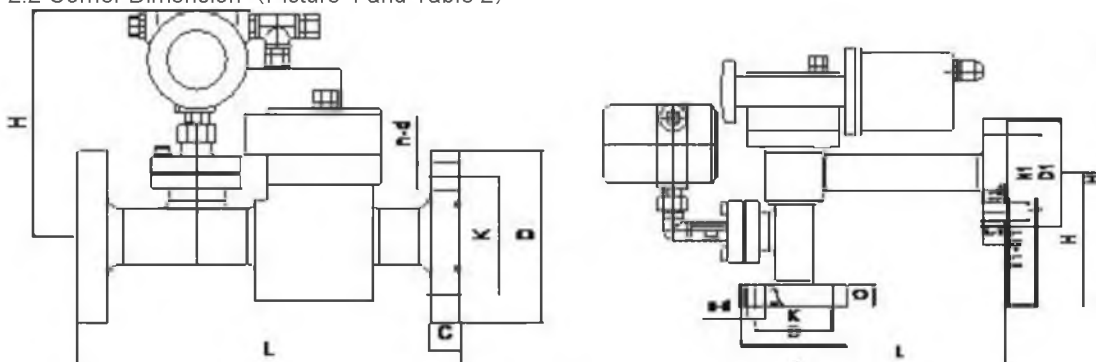
1.2 Corner Installation Drawing (Picture 2)



2、Dimension (Picture 2 and Table 3)

2.1 Vertical Dimension (Picture 3 and Table 4)

2.2 Corner Dimension (Picture 4 and Table 2)



Picture 3

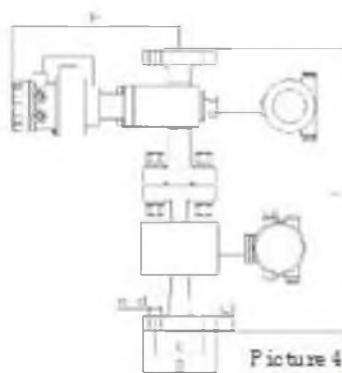


Table 2

DN (mm)	PN (MPa)	L	H	D	K	d	n	c
15	16	500	350	150	101.5	26	4	29
	25	500	350	150	101.5	26	4	29
25	16	560	350	180	124	29.5	4	32
	25	560	350	180	124	29.5	4	32

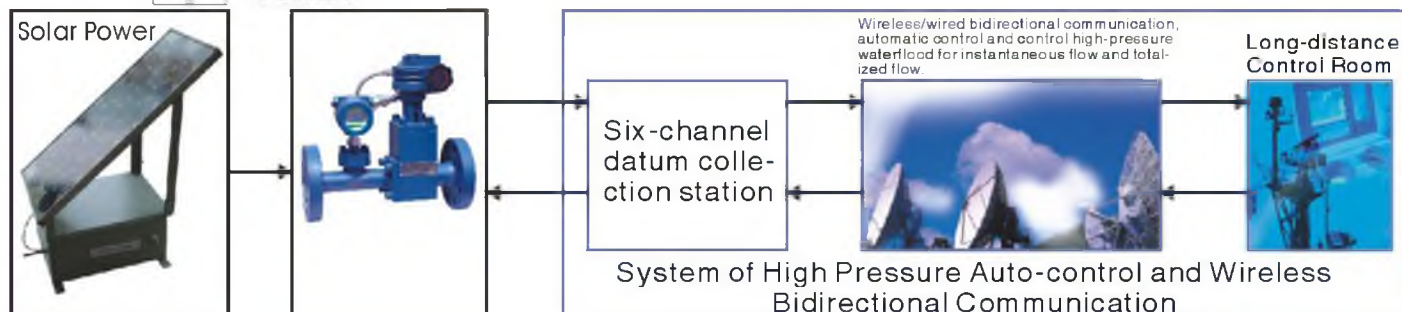


Table 3

Nominal Diameter (mm)	Nominal Pressure (MPa)	L	H	D	K	d	n	c	Note
15	16	400	252	120	82.5	22	4	22.5	Flange Standard HG20592-97
	25	400	252	120	82.5	22	4	22.5	
25	16	480	280	150	101.5	26	4	29	
	25	480	280	150	101.5	26	4	29	
40	16	480	290	180	124	29.5	4	32	
	25	480	290	180	124	29.5	4	32	
	16	480	290	180	124	29.5	4	32	
	25	480	290	180	124	29.5	4	32	
	42	480	290	205	146	32.5	4	44.5	
50	16	440	310	215	165	26	8	38.5	
	25	440	310	215	165	26	8	38.5	
	25	480	310	215	165	26	8	38.5	
	32	480	310	235	171.5	29.5	8	44	
65	42	500	320	265	197	32.5	8	41.5	
80	16	600	320	260	205	30	8	46	Flange Standard JB/T82.4-94

Table 4

Nominal Diameter (mm)	Nominal Pressure (MPa)	L	D	K	C	n	d	H	D1	K1	C1	n1	d1	H1
25	16	170	140	101.5	29	4	26	176	140	101.5	29	4	26	350
	26	276	140	101.5	29	4	26	176	140	101.5	29	4	26	350
50	16	150	215	165	38.5	8	26	176	170	130	28	6	24	350
	26	150	215	165	38.5	8	26	176	170	130	30	6	24	350
	32	150	235	171.5	44	8	29.5	176	170	130	40	6	24	350
	42	185	235	171.5	51	8	29.5	190	210	158	45	6	29.5	450
65	16	200	245	190.5	41.5	8	29.5	213	245	190.5	41	8	29.5	450
80	16	220	255	200	45	8	30	210	240	188	45	6	30	456

GLZ	-	<u>□</u>	<u>□□□</u>	<u>□</u>	<u>□□</u>	<u>□</u>	<u>□</u>	<u>□□</u>	<u>□</u>	<u>□</u>	<u>□</u>	<u>□</u>
0		1	2	3	4	5	6	7	8	9	10	11

(Table 4)

Type		1	2	3	4	5	6	7	8	9	10	Note
		M etering	D N	Structure	P N	M aterial	E lectric Enclosure	A ccuracy	P ower Supply	C ontrol Mode	O utput Signal	
GLZ	-											High Pressure Flow Auto Controller
	I											Im peller Type
	II											M agnetic -V ortex Type
	III											E lectrom agnetic Type
	IV											Vortex Type
		15										DN: 15mm
		25										DN: 25mm
		40										DN: 40mm
		50										DN: 50mm
		65										DN: 65mm
		80										DN: 80mm
			Z									Straight Type
			J									Comer Type
				16								16M Pa
				25								25M Pa
				32								32M Pa
				42								42M Pa
					G							Cast Steel
					S							304 Stainless Steel
						P						Comm on Type
						B						Ex -Type
							1.0					1.0%
							1.5					1.5%
							2.0					2.0%
								A				A C 220V
								D				A C 24V
									1			Basic Control (Flow)
									2			Pressure Control
										F		Pulse Output
										I		(4~20)m A
										R		RS-485

For example : GLZ- II 50Z25GB1.0A1I

Meaning: GLZ-Pressure Flow Auto Controller, Magnetic-Vortex Type, DN50 mm, Straight Type, PN25MPa, Cast Steel, Ex-Type, 1.0%, AC220V, Basic Control, (4-20)mA Output

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