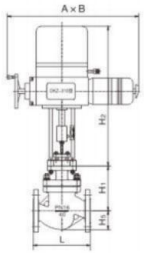
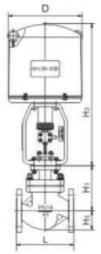
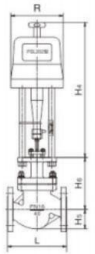


Equipped with DKZ actuator



Equipped with 3810 actuator



Equipped with PSL actuator

Product overview

The ZDLP electric single-seat regulating valve adopts a top-guided structure, a compact valve body, an S-shaped fluid channel, small pressure drop loss, large flow volume, wide adjustable range, and high flow characteristic accuracy. The guide area of the valve core guide part is large, and it has the characteristics of strong anti-seismic performance. The valve seat closing performance meets the GBT4213-92 standard. The regulating valve is equipped with a small, sturdy, and high-precision actuatorthat receives ON-OFF or 4-20mADC or 1~5V DC signals for proportional action. It is more suitable for use in high tempe rature, low temperature and high pressure occasions that require high reliability and closing performance.

Standard technical parameters

Valve body type: straight-through single-seat cast ball valve
Valve size: DN20-300
Rated pressure: PN16, PN40, PN63, PN100
Connection type: flange (standard), thread, welding (must be specified by the user)
Flange standard: Steel flanges according to GB9113-2000, JB/T-94
Sealing surface type:
PN16 is convex surface
PN40, 63, 100 are concave and convex surface

Flange end distance: According to GB12221-89
Material: ZG230-450
ZG1Cr18Ni9Ti
ZG1Cr18Ni12Mo2Ti
Gland type: Platen type
Padding: V-type polytetrafluoroethylene packing,
flexible graphite packing
Gasket: Type, toothed and flat
Material, F4/modified F4, stainless steel + graphite

Valve components
Valve core: single seat plunger type valve core
Sleeve: Metal seal
Equal percentage characteristics (%C)
Linear characteristics (LC)
Soft seal (material: reinforced polytetrafluoroethylene)
Equal percentage characteristics (%C)
Linear characteristics (LC)

Actuator
Type: Electric actuator
381LSA/XA-08, 381LSA/XA-20,
381LSB/XB-30, 381LSB/XB-50,
381LSC-65, 381LSC-99,
381LSC-160, 381LSC-260
Valve action: direct action, reverse action
Control action: proportional control or ON-OFF control
Input signal: 4-20mADC or 1-5VDC must select the position of the regulating valve when the input signal is "off"(protection, full open, full close)

Power supply: 220V AC, 50Hz
Output signal: 4~20mADC(load resistance below 500Ω)
Power consumption: Type A/50VA, Type B/150VA,
Type C/220VA
Protection level: IP55
Outlet connection: Ordinary S type G1/2,
explosion-proof X type G3/4
Ambient temperature: Without space heater -10℃ ~+60℃
With space heater -35℃ ~+60℃
Explosion-proof X type -10℃ ~+40℃
Ambient humidity: Ordinary S type below 95%,
explosion-proof X type 45-85%
Explosion-proof grade: ExdIIBT4
Overload protection: A and B types optional,
C type required
Manual device: with handle

Accessories (configured on request)
Space heater, overload protection

Performance
Rated Kv value: refer to Table 1
Flow characteristics: linear, equal percentage
Adjustable range: 50:1
Valve seat leakage rate (% for rated Kv value)
Metal seal less than 0.01%
(ANSI B16.104-1976 Class IV)
less than 0.001% (optional)
Soft seal less than 0.00001%
(ANSI B16.104-1976 Grade VI)
Basic error: ±1%
Hysteresis: ≤1%
Dead zone: ≤1%
Action time: refer to Table 1
Dimensions: refer to Table 2
Product weight: refer to Table 2
Wiring terminal diagram: Refer to the instruction manual of the actuator.
Paint color: The electric actuator and valve surface of the regulating valve should be painted. Stainless steel and copper valves do not need to be painted. The arrows and text on the valve body are painted red. User-specified colors are also acceptable.

Table 1 Kv value action time

Nominal diameter (mm)	Valve seat diameter (mm)	Rated flow coefficient KV		Electric actuator model	Output thrust (N)	Rated stroke (mm)	Action time (s)
		Linear	Equal ratio				
20	5	0.2		381LSA-08	800	10	2.4
	7	0.5					
	8	0.8					
	10	1.8	1.6	381LSA-08/20	800/2000	16	3.8/7.6
	12	2.8	2.8				
	15	4.4	4				
	20	6.9	6.3				
25	25	11	10				
32	32	17	16	381LSB-30/50	3000/5000	25	7.2/14.7
40	40	27	25				
50	50	44	40				
65	65	69	63	381LSB-50/SC-65	5000/6500	40	23.5/14.3
80	80	110	100				
100	100	176	160				
125	125	275	250	381LSC-99/160	10000/16000	60	30/60
150	150	440	400				
200	200	690	630				
250	250	1000	900	381LSC-99/260	16000/26000	100	90
300	300	1600	1440				

Table 2 Dimensions and weight

Nominal diameter (mm)	L		A	B	D	R	H1		H6		H2	H3	H4	H5		weight(kg)	
	PN 16/40	PN 63/100					PN 16/40	PN 63/100	PN 16/40	PN 63/100				PN 16/40	PN 63/100	PN 16/40	PN 63/100
20	150	230	460	230	225	177	126	138	142	154	490	373	459	43	49	10	13
25	160	230	460	230	225	177	126	138	142	154	490	373	459	48	54	12	16
32	180	260	460	230	225	177	134	142	154	162	490	495	459	57	61	15	19
40	200	260	460	230	225	177	157	165	177	185	490	495	459	66	70	17	26
50	230	300	460	230	225	177	167	187	187	207	490	495	459	80	84	18	27
65	290	340	530	230	255	177	199	204	226	231	540	700	520	92	97	34	43
80	310	380	530	230	255	177	214	219	241	246	540	700	520	100	105	46	69
100	350	430	530	230	255	177	229	240	256	267	540	700	520	120	125	54	85
125	400	500	630	260	310	226	263	280	290	307	625	725	570	134	138	76	120
150	480	550	630	260	310	226	293	300	320	327	625	725	570	156	163	79	125
200	600	650	630	260	310	226	358	364	385	391	625	725	570	199	206	100	150
250	730	775	730	300	415	345	440	450	460	470	735	760	630	255	270	375	390
300	850	900	730	300	415	345	550	565	550	560	735	760	630	320	340	475	495

Note:
1. The weight in the table is for PSL actuators
2. The valve body flange and flange end face distance can be manufactured according to the standards set by the user, such as ANSI, JIS, DIN, etc.