ELECTRIC REGULATING VALVE

Model：JL900–DL/C4/H/16/C/100/T2/W3

Design Feature

- High control precision, wide adjustable range, large allowable pressure difference, good sealing performance
- Large flow capacity, multi-level pressure reduction, low noise, anti-cavitation, anti-pressure wear
- Built-in balance seal ring, open and close frequently, eliminate flash cavitation, enhance service life
- Integral packing box, compensation seal, dust prevention and shock absorption, stable flow

Model Naming Method

JL	-900	-DL	-C4	-H	-16	-C	-100	-T2	-	-W3	-	-
Juliang brand	Electric	Regulating vlave	Flange	Metal hard sealing	PN	WCB	DN	Regulating type	Anti explosion class	-20~250℃	Attachement selection	Attachement selection

Overview

Electronic electric single-seat regulating valve, by 3810L (or PSL series) direct stroke electronic actuator and through single-seat valve.It contains feeding service function, accepts the unified standard signals of 4-20ma or 1-5v.DC, converts the current signal into related linear displacement, automatically controls the opening of valve, and continuously adjusts the process parameters such as pressure, flow rate,temperature and liquid level of the fluid in the pipeline. It is suitable for the occasions with strict requirements on leakage volume, low pressure difference before and after the valve, certain viscosity and a small amount of fiber medium.

Technical Parameter

DN	DN15~300mm
Nominal pressure	1.6~6.4Mpa（Can design the high pressure condition)
Body material	WCB(C), SS304(P), SS316(R)
Sealing material	PTFE (F),metal hard sealing (H), hard alloy (Y)
Medium temp.	W2：-20~150℃ W3：-20~250℃ W4：-29~425℃
Connection mode	Flange , Female thread, Butt welding
Valve core mode	Single seat (P),Sleeve (M)
Control precision	0.3%~1%
Input signal	4~20mA,0~10V,1~5V
Flow characteristic	Equal percentage, equal liner,quick open
Electric actuator	381 series,2SB series,Imported actuator series
Control mode	Standard regulating type, smart regulating type
Travel(mm)	30,60,100

●Notes:Other special sealing materials and special temperature can be selected according to customers' requirements.

Technical specification

Design reference	JB
Design standard	JB/T7387-2014
Structure Length	ISA S75.03-1992
Flange connection	HG/T20592
Test ,Inspection standard	JB/T7387-2014

Charactristic

ITEM			Technical Index
Basic tolerance %			±2.5
Return tolerance %			⩽2.5
Dead band %			⩽1.0
Deviation for start point & end point %	Electric to open	Start point	±2.5
		End point	±2.5
	Electric to close	Start point	±2.5
		End point	±2.5
Rated travel deviation %			⩽2.5
Leakage rate l/h			0.01% x valve rated capacity
Ajustable range R			30:1 50:1

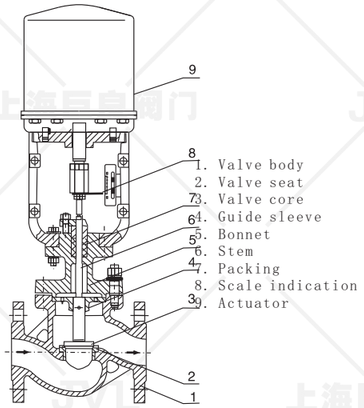
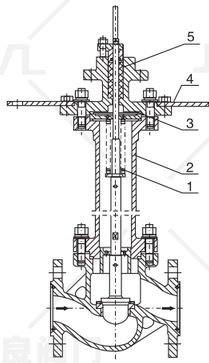
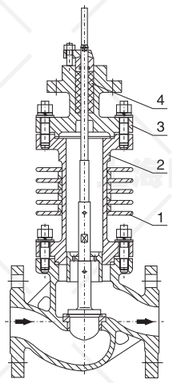


Fig 1 Standard type



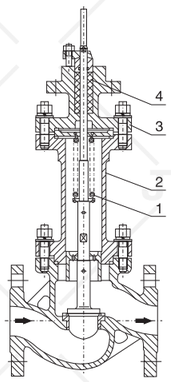
Reasonable valve core integrated external extraction structure, simple and convenient maintenance (≤DN100)
1. Bellow
2. Tube
3. Bonnet
4. Cooling box connecting plate
5. Packing

Fig 2 Low temperature type



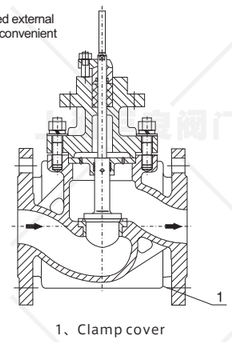
1. Cooling fin
2. Tube
3. Bonnet
4. Packing

Fig 3 High temperature type



Reasonable valve core integrated external extraction structure, simple and convenient maintenance (≤DN100)
1. Bellow
2. Tube
3. Bonnet
4. Packing

Fig 4 Bellows sealing type



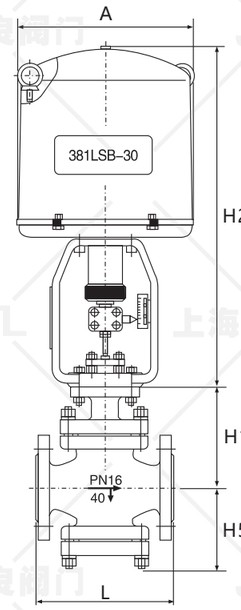
1、Clamp cover

Fig 5 Jacket insulation type

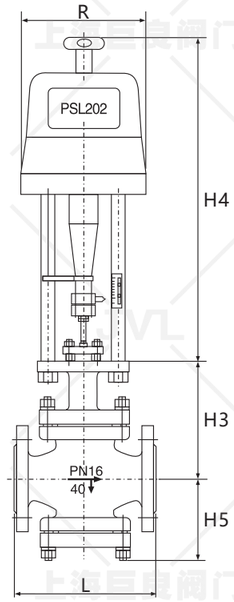
RATED FLOW COEFFICIENT KV, RATED TRAVEL, MATCHING ACTUATOR MODEL

DN (mm)	Seat DN (mm)	Rated flow coefficient Kv	Rated travel L (mm)	Actuator model	Allowable pressure deviation (bar)
25	26	8	16	381LS/XA-20	30
32	32	13	16	381LS/XA-20	20
40	40	22	20	381LS/XA-30	18
50	50	32	20	381LS/XA-30	20.5
65	65	50	40	381LS/XA-50	11.6
80	80	80	40	381LS/XA-50	6.7
100	100	120	40	381LS/XA-50	4.7
125	125	200	60	381LS/XA-65	3.9
150	150	280	60	381LS/XA-65	2.6
200	200	450	60	381LS/XA-65	1.6

•Note: For the bellows sealed regulator, the maximum allowable pressure difference is 10bar. If the value in the table is less than 10bar, it will not change. If it is greater than 10bar, it will take 10bar.



Standard



ELECTRIC OVERALL DIMENSIONS CHART–PN16 (16bar)

DN	L		A	R	H1		H3		H2	H4	H5	WT (kg)	
	PN16/40	PN64			PN16/40	PN64	PN16/40	PN64				PN16/40	PN64
25	185	200	225	177	155	165	171	181	373	459	120	16	21
32	200	210	225	177	175	185	195	205	495	459	120	19	24
40	220	235	225	177	180	185	200	205	495	459	140	22	31
50	250	265	225	177	200	205	220	225	495	459	145	23	33
65	275	295	255	177	235	245	262	272	700	520	190	39	49
80	300	320	255	177	250	255	277	282	700	520	210	50	75
100	350	370	255	177	260	270	287	297	700	520	220	59	92
125	410	440	310	226	330	335	357	362	725	570	270	80	129
150	450	475	310	226	350	365	377	392	725	570	280	87	137
200	550	570	310	226	420	430	447	457	725	570	320	115	170

•Notes:1. Other structure overall dimensions refer to the electric single seat regulating valve.
2. The weight in the table is the data of the matched PSL actuator.
3. Flange and flange end distance can be manufactured according to user specified standards, such as ANSI,JIS,DIN standards.