



ZDLY Electronic Electric Small Flow Regulating Valve

Design Features

- European style finely made, precise control, good sealing performance, advanced design, excellent quality
- Exquisite technology, superior structure, stable flow, quick response, replace import
- Small pressure drop loss, stable output force, large flow coefficient, equal channel smooth cross-section
- Wide regulation range, high flow characteristic precision, top guide structure, easy handwheel operation

Overview

The ZDLY electronic electric small flow regulating valve consists of a 3810L (or PSL series) direct stroke electronic electric actuator and a smallIn flow valve. Suitable for regulating small flow rates, it has the characteristics of compact structure, small volume, light weight, and convenient installation and maintenance.

Model Description

-Z	-DL	-Y	-	-1	-Y	-1"	-25	-16	-D	-
Control valve category	Structure form	Trim type	Bonnet type	Connection mode	Sealing material	Nominal diameter	Valve core size	Nominal pressure	Flow characteristics	Action mode

Technical parameters & performance -- Valve body

Type	Straight through forge valve		
Nominal diameter	G1/2",G3/4"		
Nominal pressure	PN16,40,64bar		
Material	Stainless steel (1Cr18Ni9Ti, 1Cr18Ni12Mo2Ti), etc.		
Top bonnet	Regular type: -40~230℃ Heat sink type: 230~450℃		
Bonnet type	Bolt tightened type		
Packing	V-shaped PTFE, PTFE impregnated asbestos, graphite		

Technical parameters & performance -- Valve trim

Valve core type	Single seat plunger type
Flow characteristic	Linear
Material	Stainless steel (1Cr18Ni9Ti, 1Cr18Ni12Mo2Ti, 316L), Stainless steel surfacing STL, Titanium corrosion-resistant alloy, etc.

Technical parameters & performance -- Actuator

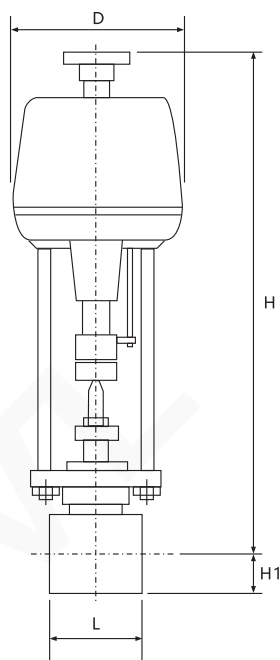
Model	381LSA-08	Output thrust (N)	800
Max. stroke (mm)	30	Working speed (mm/s)	4.2
Main technical parameters	Supply voltage: 220V/50Hz Input signal: 4-20mA or DC1-5V Output signal: 4-20mA·DC Protection class: Equivalent to IP55 Explosion-proof standard: Exd II Bt4 Manual operation function: Lever Ambient temperature:-25~+70℃ Ambient humidity: ≤95℃		

Valve action mode: Electric to close (B); Electric to open (K)

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Performance

Item	Index value
Basic error % (With positioner)	±1.0
Return difference % (With positioner)	≤1.0
Leakage rate l/h	0.01% * Valve rated capacity
Regulating range R	30:1



Rated flow coefficient Kv, rated stroke, matching actuator model, allowable differential pressure

Nominal diameter DN (mm)	G1/2", G3/4"								
Valve seat diameter (mm)	2	2.5	3	4	5	6	7	8	9
Rated stroke L (mm)	10								
Rated flow coefficient Kv	0.04	0.06	0.08	0.12	0.2	0.32	0.5	0.8	1
Allowable differential pressure (bar)	64								

- Note: The basis for determining the allowable differential pressure: 1) Valve closed P2=0;
2) The flow direction is bottom in top out.

Outline dimensions & weight

Unit: mm

Nominal diameter DN(mm)	Valve seat diameter DN (mm)	L (mm)	H(mm)		H1 (mm)	D (mm)	Weight (kg)
			Normal type	Heat sink type			
G1/2", G3/4"	2~9	80	437	553	19	225	19