Actuator	Action	Air Fail Position	Control	Structure	Body Materia	Sealing Materia	Core Material	Connection DN	PN
1 Pneumatic	S Single-acting	Normally Open	B Control	4 Low temperature type	A CF3M	P PTFE	A CF3M	1 Flange	
Pneumatic & Handwheel	Double-acting	2 Normally Closed	C Intelligent	Bellows type	B CF8M	Y FEP(F46)	B CF8M	5 Weld	
4 Electric C220V	0 Others	4 Held	0 Others	6 High temperature type	C CF8	R BODY	C CF8	0 Others	
5 Electric AC380V		0 Others		7 Normal	D WCB	S Stellite	CF3		
0 Others				0 Others	CF3	3 Gr	L CE3MN		
					L CE3MN	4 WC	2 Ti		
Pneumatic Diaphra	am Cinalo Coot (Control Volvo			2 Ti	0 Others	0 Others		
Electric Single Sea	t Control Valve	Johnson valve			5 wcc				
					0 Others				



Overview

LPH11/LPG11 single—seat control valves are designed for heavy duty service. The compact valve body, having a S—shape flow passage that features low pressure loss, allows a large flow capacity, range ability, and high accuracy flow characteristics. The valve plug is highly vibration—resistant as it is held by a top guide section which has a large sliding area. The flow shut—off performance complies with the IEC or JIS Standards. The actuator integrated with simplest mechanisms utilizes a compact yet powerful diaphragm actuator loaded with multiple springs.

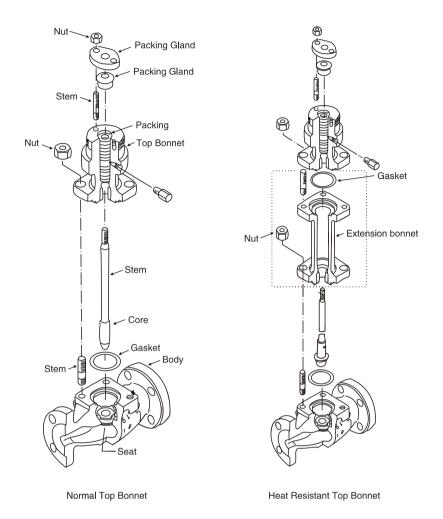
LPH11/LPG11 single-seat control valves are widely applicable for reliable control, with high shut-off performance, in high or low temperature, high pressure process lines.

Specifications

Body	Type: Straight-through, cast globe valve
Nominal size	20,25,40,50,65,80,100,150,200mm 3/4,1,1 1/2, 2, 2 1/2, 3, 4, 6, 8 inch
Pressure rating	JIS 10K, 16K, 20K, 30K, 40K ANSI Class 125, 150, 300, 600 PN1.6,4.0,6.4MPa
Connection	Flange:FF, RF, RJ, LG, MF Tongue and groove (groove), TG Male and female(female) Flanged end:JIS B2201-1984, ANSI B16.5-1981, GB/T 9112~9124-2000 Weld:SW (from 40-50mm), BW (from 65-200mm)
Body material	CF3M,CF8M,CF8,WCB,CF3,CE3MN,WCC,TI
Core material	304,316,304L,316L,CE3MN

Bonnet	Plain bonnet (-17~230℃) Extension bonnet Type I (-45~-17℃和230~566℃) Extension bonnet Type II(-100~-45℃) Extension bonnet Type III(-196 ~-100℃)
Packing / Grease	Grease not provided: When V shaped PTFE packing or PTFE yarn packing is used. Grease provided: When graphite packing is used.
Gasket	Type: Flat type, serrated type Material: Carbon steel (S15C), stainless steel (SUS316, SUS316L, SUS329J1), copper, aluminum, titanium, ASTM B574 (Hastelloy C–276 equivalent), or Alloy 20
Gland type	Bolted gland
Actuator	Pneumatic, electric: refer to the attachment.
Flow characteristics	Metal seat Equal percentage (%CF), Linear (LCF) Soft seat Equal percentage (%TF), Linear (LTF)
Performance	Inherent range ability 50:1 Leakage class: Metal seat: ANSI B16.104–1976 IV, Leakage less than 0.01% of maximum valve capacity. Soft seat: ANSI B16.104–1976 VI, Leakage less than 0.00001% of maximum valve capacity. Hysteresis error Without positioner: Within 3% F.S. With positioner: Within 1% F.S. Intrinsic error Without positioner: Within ±5% F.S. With positioner: Within ± 1% F.S.

Exploded View



Single Seated Control Valve (DN20-25)

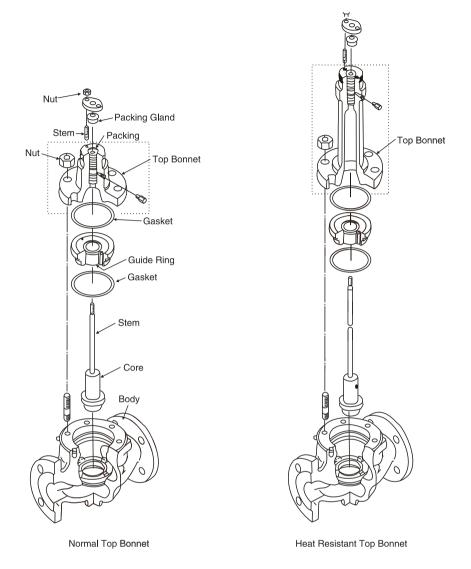
Cv Value and Travel

DN20-25 mm

Valve core type		ve seat and flow characteristics	Rated Travel	0.01	004	0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10	14
seat	Equal percentage						0	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
Plunger	valve Linear	14.3	0	0	0	0	0	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ	
		Equal percentage						0	0	0	0	0	0	0	0	0	0
		Linear				0	0	0	0	0	0	0	0	0	0	0	0
	DN	20	√	√	√	✓	√	\checkmark	√	√	√	√	√	√	~		
		25	√	$\sqrt{}$	√	√	√	√	√	\checkmark	√	√	√	\checkmark	√	$\sqrt{}$	

O and △ represent valve specifications.
△ represents that valve flow characteristics conform to the IEC 534–1–1976 standard.

Exploded View



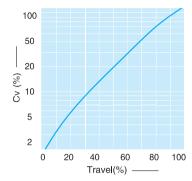
Single Seated Control Valve (DN40-200)

Cv value and travel

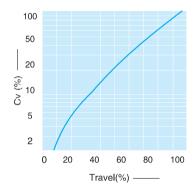
DN40-200 mm

DN		40			50			65			80			100			150			200	
Diameter	25	32	40	32	40	50	40	50	65	50	65	80	65	80	100	100	125	150	125	150	200
CV	10	17	24	17	24	44	24	44	68	44	68	99	68	99	175	175	275	360	275	360	640
Travel		25			25			38			38			38			50			75	

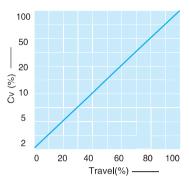
Characteristics



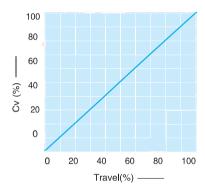
Equal percentage characteristics (%CF: Metal seat)



Equal percentage characteristics (%TF: Soft seat)

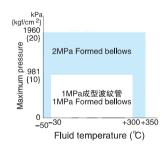


Linear characteristics (LCF: Metal seat)

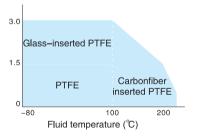


Linear characteristics (LTF: Soft seat)

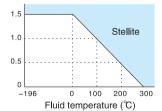
Temperature And Pressure Ranges



Bellows Type by Temperature and Pressure Ranges



Temperature and maximum differential pressure range of soft–seat type



Temperature/normal differential pressureranges requiring Stellite

Note: When cavitation/flushing service, oil prohibitive service, or retention of valve-close performance is required, use of Stellite is recommended regardless of temperature or differential pressure.



Allowable Differential Pressure

Metal Seat(DN20-25)

Air-to-close 100KPa

					Allov	vable di	fferenti	al press	sure(DN	120–25)			
Actuator	Supply pressure	Spring range	Positioner					CV					
				≤0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10	14
	4.4	00 10		40*	31	31	16	16	10	10	5.6	4.2	2.6
	1.4	0.2 ~ 1.0		56	ان ا	5	10	10	10	10	5.0	4.2	2.0
7HA1D	ZHA1D 1.6 0.3	0.2 ~ 1.0	With	40*	40*	40*	40*	40*	40*	40*	28	21	13
ZHAID		0.2 ~ 1.0	VVIIII	100	100	100	84	84	52	52	20	21	13
	4.0	0.8 ~ 2.4	With						40*	40*	40*	40*	39
	4.0	0.6 ~ 2.4	VVIIII						100	100	84	84	39
	1.4	0.2 ~ 1.0		40*	40*	40*	32.6	32.6	20	20	10.9	8.2	5.0
	1.4	0.2 ~ 1.0		100	62	62	52.0	32.0	20	20	10.9	0.2	3.0
ZHA2D	1.6	0.2 ~ 1.0	With		40*	40*	40*	40*	40*	40*	40*	40*	25.2
ZIIAZD	1.0	0.2 1.0	VVIIII		100	100	100	100	100	100	54	40	20.2
	4.0	0.8 ~ 2.4	With								40*	40*	40*
4.0	0.0 2.1	VVIIII								100	100	75	

Air-to-open 100KPa

					Α	lowable	differe	ntial pre	essure(DN20-2	25)		
Actuator	Supply	Spring range	Positioner					CV					
	pressure	range		≤0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10	14
	1.4	0.2 ~ 1.0		40*	31	31	16	16	10	10	5.6	4.2	2.6
ZHA1R	0.2 ~ 1.0		56	31	31	16	10	10	10	5.6	4.2	2.0	
	2.8	0.8 ~ 2.4	With	40*	40*	40*	40*	40*	40*	40*	39	29	18
	2.0	0.6 ~ 2.4	VVILII	100	100	100	100	100	72	72	39	29	10
	1.4	0.2 ~ 1.0		40*	40*	40*	32.6	32.6	20	20	10.9	8.2	5.0
1.4	1.4	0.2 ~ 1.0		100	62	62	32.0	32.0	20	20	10.9	0.2	5.0
ZHA2R	2.8	0.8 ~ 2.4	\ <i>\\i</i> +b		40*	40*	40*	40*	40*	40*	40*	40*	35
	۷.0	0.0 ~ 2.4	With	_ _	100	100	100	100	100	100	76	56	33

Note 1: Take care not to cause the maximum allowable differential pressure to exceed the maximum operating pressure designated by ANSI B 16. 34–1981 or JIS B2201–1984.

2. The upper figures denote the operating allowable differential pressure. The lower denote allowabledifferential pressure at full closure.

3. Allowable pressure differential with *, when the valve controls liquid, allowable pressure differential is only 3 MPa.

4. Column bordered with bold lines denote types provided with standard–type actuator



Metal Seat (DN40-200)

A. With type ZHA or ZVA actuator

Air-to-close 100KPa

/ III 10 0103	Allowable differential pressure(DN40–200)													
	Supply	Spring	5			Allowat	le diffe			e(DN40	200)			
Actuator	pressure	range	Positioner					Diar	neter					
	pressure	range		25	32	40	50	65	80	100	125	150	200	
	1.4	0.2 ~ 1.0		3.3	2.0	1.4	0.8	_	_	_	_	_	_	
711440	1.6	0.2 ~ 1.0	With	16	9.9	7.1	4.1	_	_	_	_	_	_	
ZHA1D	4.0	0.8 ~ 2.4	With	40 48	29	21	12	_		_	_	_	_	
	1.4	0.2 ~ 1.0		6.3	3.8	2.7	1.6	1.0	0.7	0.5	_	_	_	
711400	1.6	0.2 ~ 1.0	With	31.6	19.3	13.7	7.8	5.1	3.5	2.0	_	_	_	
ZHA2D	4.0	0.8 ~ 2.4	With	40	40	40	01.7	140	10 E	E O				
	4.0	0.0~2.4	VVILII	94	57	41	21.7	14.9	10.5	5.9	_	_		
	1.4	0.2 ~ 1.0		11.2	6.8	4.8	2.8	1.7	1.2	0.7	0.4	0.3	_	
ZHA3D	1.6	0.2 ~ 1.0	With	40 56	34.2	24.2	14	8.8	6.2	3.5	2.2	1.4	_	
2117103				40	40	40	40							
	4.0	0.8 ~ 2.4	With	100	100	72	42	26.5	18.7	10.5	6.7	4.1	-	
	1.4	0.2 ~ 1.0		_	_	8.3	4.8	3.0	2.2	1.2	0.7	0.5	0.3	
ZHA4D	1.6	0.2 ~ 1.0	With	_	_	40	24.2	15.2	10.7	6.1	3.9	2.4	1.5	
ZHA4D	4.0	0.8 ~ 2.4	\\/i+b			40	40	40	20.0	10.0	11.0	7 1	4.5	
	4.0	0.0~2.4	With			100	72	45	32.2	18.2	11.6	7.1	4.5	
ZHA5D	1.4	0.2 ~ 1.0						4.2	2.9	1.6	1.1	0.6	0.4	
ZHASD	1.6	0.2 ~ 1.0	With		-			20.8	14.7	8.3	5.3	3.2	2.1	

Air-to-open 100KPa

	Cummba	Continue				Allowab	le diffe	rential p	oressur	e (DN4	0-200)	
Actuator	Supply pressure	Spring range	Positioner					Diam	eter				
	procedio	rango		25	32	40	50	65	80	100	125	150	200
ZHA1R	1.4	0.2 ~ 1.0		3.3	2.0	1.4	0.8	_	_	_	_	_	_
ZHATN	2.8	0.8 ~ 2.4	With	22	13	9.9	5.7	_		_		_	_
	1.4	0.2 ~ 1.0		6.3	3.8	2.7	1.6	1.0	0.7	0.5	_	_	_
ZHA2R	2.8	0.8 ~ 2.4	With	40	27	14.1	11.1	6.9	4.9	2.8			
	2.0	0.0 * 2.4	VVILII	44	21	17.1	11.1		7.0				
	1.4	0.2 ~ 1.0		11.2	6.8	4.8	2.8	1.7	1.2	0.7	0.4	0.3	
ZHA3R	2.8	0.8 ~ 2.4	With	40	40	34	19.6	12.3	8.7	4.9	3.1	1.9	
	2.0		VVICII	78	47	0.	10.0	12.0	0.7	1.0	0.1	1.0	
	1.4	0.2 ~ 1.0				8.4	4.8	3.0	2.2	1.2	0.7	0.5	0.3
ZHA4R	2.8	0.8 ~ 2.4	With	_	_	40 58	31.5	21.3	15	8.5	5.4	3.3	2.1
ZVA5R	1.4	0.2 ~ 1.0						4.2	2.9	1.6	1.1	0.6	0.4
ZVASH	2.8	0.8 ~ 2.4	With					29.2	20.6	11.6	7.4	4.5	2.9
	4 (*)	1.9 ~ 3.5	\ \ /:+I=					40	40	24.2			
ZVA6R	7()	1.8 ~ 3.3	With					61	43	24.2			
	1.6	0.2 ~ 1.0	With	_	_	_	_		_	24.2	15.5	9.5	

Note 1. Take care not to cause the maximum allowable differential pressure to exceed the maximum operating pressure designated by ANSI B 16. 34–1981 or JIS B2201-1984.

^{2.} The upper figures denote the operating allowable differential pressure. The lower denote allowable differential pressure at full closure.

3. (*) Applicable to valve sizes of 65、80、100mm, 2* Applicable to valve size of 150mm

4. Column bordered with bold lines denote types provided with standard—type actuator



B. With type ZVP actuator

100KPa

				Allowable	differential p	ressure (DN	140–200)	100111 14
Actuator	Supply pressure	Positioner			Diam	eter		
	pressure		65	80	100	125	150	200
	3	With	40	36.8	20.7	13.2	8	
		VVILII	52	00.0	20.7	10.2	Ü	
ZVP5	4	With	40	40	27.8	17.8	10.8	
	4	VVICII	70	49	27.0	17.0	10.0	_
	5	With	40	40	34.9	22.4	13.6	
	5	VVILII	88	62	34.9	22.4	13.0	
	0	With	40	40	36.9	23.6	14.4	9.2
	3	VVILII	93	65	30.9	25.0	14.4	9.2
ZVP6	,) A /: 4 la	40	40	40	31.8	19.3	12.4
	4	With	100	88	49	01.0	13.0	12.7
	-	With	40	40	40	40	24.3	15.6
	5	VVILII	100	100	62	40	24.0	13.0
	3	With				35.5	21.6	13.8
	4	With				40	29	18.6
ZVP7	4	VVILII				47		10.0
		With				40	36.4	23.4
	5	VVILLI				60		

注 1. Take care not to cause the maximum allowable differential pressure to exceed the maximum operating pressure designated by ANSI B 16. 34–1981 or JIS B2201–1984.

Metal Seat, Bellows Type

Air-to-close

Air-to-clos	e												100KPa
	0	Outstand				Allowa	able dif	ferentia	l press	ure(DN	20–25)		
Actuator	Supply pressure	Spring range	Positioner					CV					
	procedio	rango		≤0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10	14
	1.4	02 ~ 10		20	20	20	16.3	16.3	10	10	5.4	4.1	2.5
	1.4	02 ~ ID		51	31	31	10.3	10.3	10	10	5.4	4.1	2.5
ZHA2D	1.6	02 ~ 10	With	_	20	20	20	20	20	20	20	20	12.6
ZIIAZD	1.0	0.2 ~ ID	VVILLI		50	50	50	50	50	50	27	20	12.0
	4.0	00 04	VA CIII.								20	20	20
	4.0	08 ~ 24	With	_		_		_			50	50	37.5

气开 Air-to-open 100KPa

Actuator	Oa. in i.	Out with an				Allowa	ble diff	erentia	pressu	ıre(DN2	20–25)		
Actuator	Supply	Spring range	Positioner					CV					
	pressure	range		≤0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10	14
1				20	20	20	100	10.0	10	10	F 4	4.4	0.5
ZHA2R		0.2 ~ 1.0		51	31	31	16.3	16.3	10	10	5.4	4.1	2.5
		0.8 ~ 2.4	\ \ / / i t le	_	20	20	20	20	20	20	20	20	17.5
	2.0	0.0 ~ 2.4	With		50	50	50	50	50	50	38	38	17.5

注: 1. Take care not to cause the maximum allowable differential pressure to exceed the maximum operating pressure designated by ANSI B 16. 34–1981 or JIS B2201–1984.

^{2.} The upper figures denote the operating allowable differential pressure. The lower denote allowable differential pressure at full closure.

3. When a backup system for pressure drop at the air source is used, select the allowable differential pressure from whichever is lower—constant supplied air pressure or backup system set pressure.

^{2.} The upper figures denote the operating allowable differential pressure. The lower denote allowable differential pressure at full closure.



Metal Seat, Bellows Type (DN40-200) With type ZHA or ZVA actuator

Air-to-close 100KPa

	Supply	0		Allowable differential pressure (DN40-200)												
Actuator	Supply	Spring range	Positioner				阀座	直径Dia	ameter							
	p. 6666.76			25	32	40	50	65	80	100	125	150	200			
	1.4	0.2 ~ 1.0		3.1	1.9	1.4	0.8	0.5	0.35	0.25						
ZHA2D	1.6	0.2 ~ 1.0	With	16	9.5	6.5	3.9	2.5	1.7	1.0						
ZIIAZD	4.0	0.8 ~ 2.4	With	20	20	20	11	7.5	5.5	3.0						
	4.0	0.0 ~ 2.4	VVILLI	47	29	20		/.5	3.3	0.0						
	1.4	0.2 ~ 1.0		5.6	3.4	2.4	1.4	0.8	0.6	0.35	0.2	0.15				
	1.6	0.2 ~ 1.0	With	20	17.1	12.1	7	4.4	3.1	1.75	1.1	0.7				
ZHA3D				28	17.1	12.1	,		0.1	1.75	1.1	0.7				
	4.0	.0 0.8 ~ 2.4	With	20	20	20	20	13.2	9.8	5.2	3.3	2.05				
	4.0	0.6 ~ 2.4	VVILII	50	50	36	21	10.2	3.0	5.2	0.0	2.00				
	1.4	0.2 ~ 1.0				4.1	2.4	1.5	1.1	0.6	0.35	0.25	0.15			
ZHA4D	1.6	0.2 ~ 1.0	With			20	12	7.5	5.3	3.0	2.0	0.2	0.75			
ZI IA4D	4.0	0.8 ~ 2.4	With			20	20	20	16.1	9.1	5.8	3.5	2.25			
	4.0	0.0 ~ 2.4	VVILII			50	36	22.5			0.0					
7\/\FD	1.4	0.2 ~ 1.0						2.1	1.5	0.8	0.55	0.3	0.2			
ZVA5D –	1.6	0.2 ~ 1.0	With					10.4	7.3	4.1	2.6	1.6	1.05			

Air-to-open 100KPa

	Cupali	Corina		Allowable differential pressure (DN40-200)												
Actuator	Supply pressure	Spring range	Positioner					Diamet	er							
				25	32	40	50	65	80	100	125	150	200			
	1.4	0.2 ~ 1.0		3.1	1.9	1.3	0.8	0.5	0.35	0.25	_	_	_			
ZHA2R	2.8	0.8 ~ 2.4	With	20	13.5	7.0	5.5	3.5	2.4	1.4	_	_	_			
	2.0	0.6 ~ 2.4	VVILII	22	13.5	7.0	5.5	3.5	2.4	1.4						
	1.4	0.2 ~ 1.0		5.6	3.4	2.4	1.4	0.8	0.6	0.35	0.2	0.15	_			
ZHA3R	2.8	0.8 ~ 2.4	With	20	20	17	9.8	6.1	4.4	2.4	1.5	0.95	_			
	2.0	0.0 ~ 2.4	VVIIII	39	23.5	17	9.0	0.1	7.4	۷.۲	1.5	0.93				
	1.4	0.2 ~ 1.0		_	_	4.2	2.4	1.5	1.1	0.6	0.35	0.25	0.15			
ZHA4R	2.8	0.8 ~ 2.4	With	_	_	20	16.5	10.7	7.5	4.2	2.7	1.6	1.1			
	2.0	0.6 ~ 2.4	VVILII			29	10.5	10.7	7.5	4.2	2.7	1.0	1.1			
ZVA5R	1.4	0.2 ~ 1.0		_	_	_	_	2.1	1.5	0.85	0.55	0.3	0.2			
ZVASIT	2.8	0.8 ~ 2.4	With	-	_	_	_	14.6	10.3	5.8	3.7	2.3	1.5			
	1 (*)	10 25	VA (; t.l.				_	20	20	12.1		_				
ZVA6R	4 (*)	4 (*) 1.9~3.5	With	_	_	_ _		30	21.5	12.1						
	1.6	0.2 ~ 1.0	With	_	_	_	_	_	_	12.1	7.5	4.7	_			

注: 1. Take care not to cause the maximum allowable differential pressure to exceed the maximum operating pressure designated by ANSI B 16. 34–1981 or JIS B2201–1984.

2. The upper figures denote the operating allowable differential pressure. The lower denote allowable differential pressure at full closure.

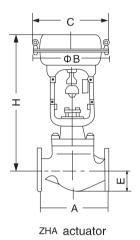
3. (*)Applicable to valve sizes of 65、80、100mm.

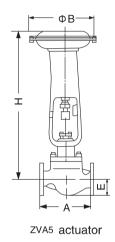
4. Column bordered with bold lines denote types provided with standard–type actuator.

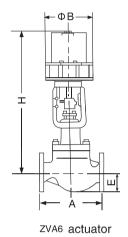
Allowable Differential Pressure for Electric Control Valve

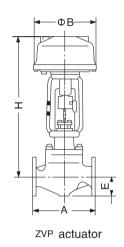
mm

DN (mm)	20				25	4	.0	50	65	80	100	15	50	200	250	300
Diameter (mm)	10	12	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Allowable differential pressure(MPa)		6.4		5.6	3.7	3.4	2.1	1.40	1.4	0.9	0.50	0.47	0.33	0.19	0.18	0.13









Dimensions

DN20-25

mm

		Α													
DN	ANSI 125RF ANSI 150RF JIS 10K FFRF PN1.6	JIS 16K RF	ANSI 300RF JIS 20KRF JIS 30KRF PN4.0	ANSI 600RF JIS 40KRF PN6.4	ANSI 150 RJ	ANSI 300 RJ	ANSI 600 RJ	JIS 20K MF TG	JIS 30K MF TG	ANSI 300 LG	ANSI 600 SW、BW				
20	184	190	194	206	_	206	206	198	208	203	206				
25	184	193	197	210	197	210	210	198	212	206	210				

Remark: Face-to-face is designed to meet IEC534-3-1976

DN40-200

mm

			А										
公称 通径 DN	ANSI 125FF、PN1.6 ANSI 150RF JIS 10K FF RF	JIS 16K RF	ANSI 300 RF JIS 20、30K RF JIS 30K RF	ANSI 600 RF JIS 40K RF PN6.4	JIS 16K MF TG	JIS 20K MF TG	JIS 30K MF TG	JIS 40K MF TG					
40	222	231	235	251	235	236	248	251					
50	254	263	267	286	265	267	276	286					
65	276	288	292	311	290	292	303	311					
80	298	313	317	337	310	317	326	337					
100	352	364	368	394	360	368	379	394					
150	451	465	473	508	475	473	486	508					
200	543	560	568	610	570	568	580	610					

Remark: Face-to-face is designed to meet IEC534-3-1976



mm

	A												
DN	ANSI 150 RJ	ANSI 300 RJ	ANSI 600 RJ	ANSI 300 LG	ANSI 600 LG	ANSI 150 SW、BW	ANSI 150、600 SW、BW						
40	235	248	251	244	248	251	251						
50	267	283	289	276	283	286	286						
65	289	308	314	302	308	311	311						
80	311	333	340	327	333	337	337						
100	365	384	397	378	391	394	394						
150	464	489	511	483	505	473	508						
200	556	584	613	578	606	568	610						

mm

				Н				mm
DN	Actuator	Normal	Extension bonnet 1	Extension bonnet 2	Extension bonnet 3	С	φВ	E
	ZHA1D、R	375	525	685	900	230	218	
20–25	ZHA2D、R	450	600	760	975	281	267	40
	ZHA1D、R	425	590	705	945	230	218	
40	ZHA2D、R	500	665	780	1020	281	267	70
	ZHA3D、R	590	760	875	1140	363	350	
	ZHA1D、R	425	595	710	950	230	218	
50	ZHA2D、R	500	670	785	1025	281	267	80
	ZHA3D、R	595	765	875	1140	363	350	
	ZHA2D、R	575	745/755	880	1130	281	267	
65	ZHA3D、R	630	800/810	930	1180	363	350	88
	ZHA4D、R	865	1035/1045	1165	1495	520	470	
	ZHA2D、R	580	755/765	900	1135	281	267	
80	ZHA3D、R	635	810/820	955	1190	363	350	98
	ZHA4D、R	870	1045/1055	1190	1505	520	470	
	ZHA2D、R	610	810/870	915	1150	281	267	
	ZHA3D、R	R 660 860/870		1020	1205	363	350	
	ZHA4D、R	890	1100/1110	1255	1520	520	470	
100	ZVA5D	1300	1515	1710	1940	_	620	113
	ZVA5R	1420	1635	1820	2050	_	620	
	ZVA6R	1160	1375	1560	1790	_	445	
	ZVP5	940	1155	1340	1570	_	345	
	ZHA3D、R	785	1020/1045	1250	1385	363	350	
	ZHA4D、R	955	1190/1215	1425	1570	520	470	
	ZVA5D	1360	1620	1870	2000	_	620	
150	ZVA5R	1480	1740	1980	2110	_	620	170
150	ZVA6R	1220	1480	1720	1850	_	445	170
	ZVP5	1000	1260	1500	1630	_	345	
	ZVP6	1210	1470	1710	1840	_	445	
	ZVP7	1290	1550	1790	1920	_	545	
	ZHA4D、R	1090	1350	1580	1710	520	470	
	ZVA5D	1475	1740	2025	2155	_	620	
000	ZVA5R	1585	1850	2145	2275	_	620	000
200	ZVP5	1165	1425	1665	1795	_	345	220
	ZVP6	1375	1635	1875	2005	_	445	
	ZVP7	1455	1715	1955	2085	_	545	

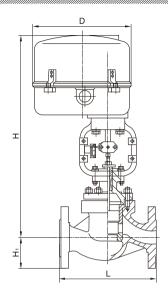
^{1. &}quot;H" dimensions are applicable when a hand wheel is not provided. When top-mounted hand wheel actuators or side-mounted hand wheel are used, add the hand wheel dimentsions.

2. "H" dimensions of Extended bonnet Type are as follows: The left side JIS 10K and ANSI 150, and the rightside for JIS 16K and ANSI 300 or over.



Weight

		kg Flange Weld															
DN	Actuator	А	NSI 12 JIS	25、15 10K	50	JIS		I 300	0K			l 600 40K		ANSI 150、300、600 JIS 10、16、20、30K			
		Р	Εİ	ΕII	ΕIII	Р	Εİ	ΕII	ΕIII	Р	Εİ	ΕII	ΕIII	Р	Εİ	ΕII	ΕIII
20、	ZHA1D、R	16	18	21	26	17	19	22	27	17	19	22	27	14	16	19	24
25	ZHA2D、R	23	25	28	33	24	26	29	34	24	26	29	34	21	23	26	31
	ZHA1D、R	24	27	30	32	29	32	35	37	37	40	43	45	29	32	35	37
40	ZHA2D、R	31	34	37	39	36	39	42	44	44	47	50	52	36	39	42	44
	ZHA3D、R	43	46	49	51	48	51	54	56	56	59	62	64	48	51	54	56
	ZHA1D、R	30	33	36	38	35	38	41	43	40	43	46	48	35	38	41	43
50	ZHA2D、R	37	40	43	45	42	45	48	50	47	50	43	55	42	45	48	50
	ZHA3D、R	49	52	55	57	54	57	60	62	59	62	65	67	54	57	60	62
	ZHA2D、R	43	47	51	53	48	52	56	58	65	69	73	75	48	52	56	58
65	ZHA3D、R	55	59	63	65	60	64	68	70	77	81	85	87	60	64	68	70
	ZHA4D、R	86	90	94	96	91	95	99	101	108	112	116	118	91	95	99	101
	ZHA2D、R	53	59	65	68	63	69	75	78	85	91	97	100	63	69	75	78
80	ZHA3D、R	65	71	77	80	75	81	87	90	97	103	109	112	75	81	87	90
	ZHA4D、R	96	102	108	111	106	112	118	121	128	134	140	143	106	112	118	121
	ZHA2D、R	63	73	78	81	78	88	93	96	113	123	128	131	75	85	90	93
	ZHA3D、R	75	85	90	93	90	100	105	108	125	135	140	143	87	97	102	105
	ZHA4D、R	106	116	121	124	121	131	136	139	156	166	171	174	118	128	133	136
100	ZVA5D	208	218	223	226	223	233	238	241	258	268	273	276	220	230	235	238
	ZVA5R	233	243	248	251	248	258	263	266	283	293	298	301	245	255	260	263
	ZVA6R	248	258	263	266	263	273	278	281	298	308	313	316	260	270	275	278
	ZVP5	123	133	138	141	138	148	153	156	173	183	188	191	135	145	150	153
	ZHA3D、R	157	172	179	182	187	202	209	212	237	252	259	262	177	192	199	202
	ZHA4D、R	188	203	210	213	218	233	240	243	268	283	290	293	208	223	230	233
	ZVA5D	290	305	312	315	320	335	342	345	370	385	392	395	310	325	332	335
150	ZVA5R	315	330	337	340	345	360	367	370	395	410	417	420	335	350	357	360
130	ZVA6R	330	345	352	355	360	375	382	385	410	425	432	435	350	365	372	375
	ZVP5	205	220	227	230	235	250	257	260	285	300	307	310	225	240	247	250
	ZVP6	280	295	302	305	310	325	332	335	360	375	382	385	300	315	322	325
	ZVP7	390	405	412	415	420	435	442	445	470	485	492	495	410	425	432	435
	ZHA4D、R	268	288	298	303	318	338	348	353	438	458	468	473	308	328	338	343
	ZVA5D	370	390	400	405	420	440	450	455	540	560	570	575	410	430	440	445
200	ZVA5R	395	415	425	430	445	465	475	480	565	585	595	600	435	455	465	470
200	ZVP5	285	305	315	320	335	355	365	370	455	475	485	490	325	345	355	360
	ZVP6	360	380	390	395	410	430	440	445	530	550	560	565	400	420	430	435
	ZVP7	470	490	500	505	520	540	550	555	640	660	670	675	510	530	540	545



Dimensions and Weight of Electric Control Valve

mm

	1				ŀ	1			H ₁		D	(kg)	
DN		L		Nor temp		Hiç tempe					Normal/	We	ight
	PN1.6	PN4.0	PN6.4	PN1.6 PN4.0	PN6.4	PN1.6 PN4.0	PN6.4	PN1.6	PN4.0	PN6.4	Flameproof	PN1.6	PN4.0 PN6.4
20	181	194	206	547	558	700	706	52	52	65	000/000	14	18
25	185	197	210	564	575	712	724	57	57	70	260/280	15	19
40	222	235	251	720	730	8890	901	75	75	85		26	35
50	254	267	286	730	739	902	908	82	82	90		30	40
65	276	292	311	845	854	1025	1035	92	92	102	290/310	34	53
80	298	317	337	867	870	1045	1051	100	100	107		42	65
100	352	368	394	890	900	1070	1090	110	117	125		52	86
150	451	473	508	1190	1220	1330	1337	142	150	172		152	206
200	600	600	650	1258	1350	1380	1390	170	187	207	260	220	280
250	673	673	775	1350	1570	1480	1490	202	225	235	360	423	470
300	737	737	900	1460	1600	1590	1690	230	257	265		663	735