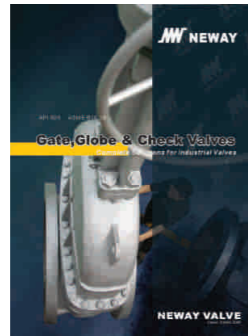
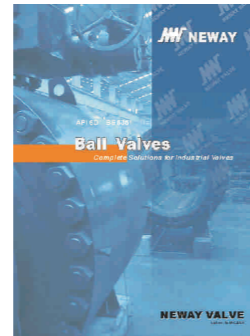


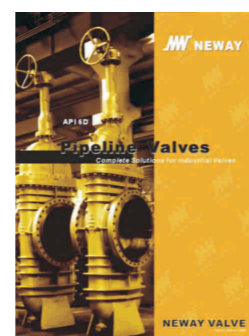
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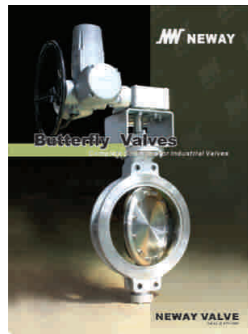
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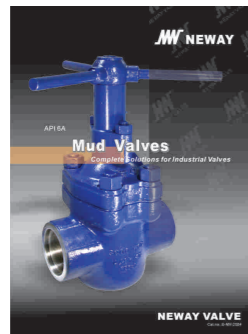
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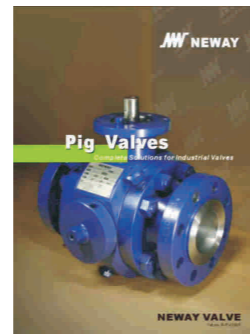
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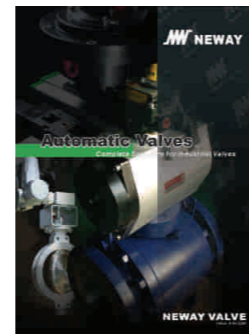
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Cat.no.:E-MV



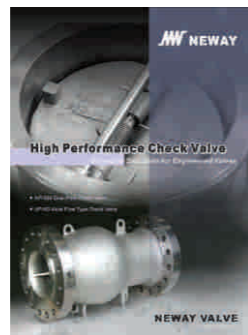
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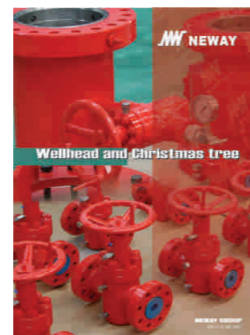
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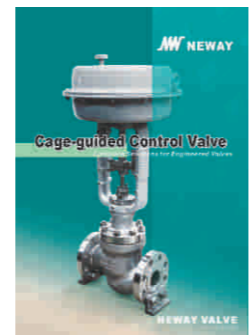
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Cat.no.:E-HPCV



Cat.no.:E-WE

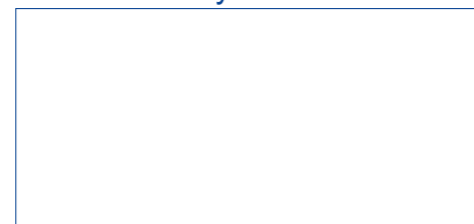


Cat.no.:E-CSC

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Cat.no.:E-CSS-2008

NW NEWAY

Single-seated Control Valve

Complete Solutions for Engineered Valves



NEWAY VALVE

Cat.no.:E-CSS-2008

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Complete Solutions for Engineered Valves

Being one of the leading valve manufacturer in the world, Neway specializes exclusively in the development of innovative designs, through intensive R&D programs and engineering excellence. We engineer and manufacture valve solutions for all industries.

Neway's main product lines include Gate, Globe, Check, Butterfly and Ball valves. Our production facilities and quality system have been inspected and approved by many global end users and EPC firms. Our products have been installed around the world, handling a wide variety of applications in the Gas, Oil, Refining, Chemical, Marine, Power Generation and Pipeline Transmission Industries.

Neway Facilities

Neway's management groups are structured based on operating several plants. Neway valves are manufactured in 6 specialized manufacturing facilities, 4 plants in China, one in Mexico and the other in Saudi Arabia. They are all supported by two Neway owned specialized foundries.

Our intranet includes over 400 computers using the most advanced R&D software including CAD, I-Deas, Pro-E, a number of CNC & machine centers, in addition we utilize a bar code inventory management systems. We are one of the few valve manufacturers performing Enterprise Resource Planning (ERP), in-house fire safe and cryogenic testing, high pressure gas and low fugitive emission testing.

Quality Assurance

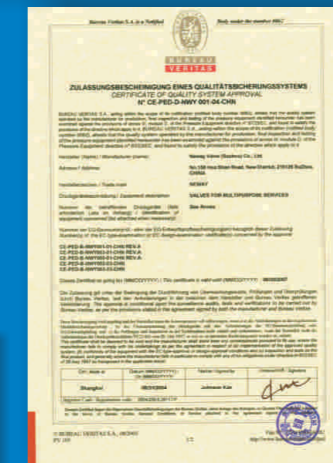
Neway's quality assurance is dedicated to the pursuit of zero defect valve supply to our customers. We have implemented a six sigma management process in order to continually improve our processes and management controls through the use of advanced statistical data analysis. Neway holds most of the industrial valve manufacturing certificates, such as ISO 9001, CE/PED, TA-Luft, API 6A, API 6D, ABS, and API 607 Fire Safe certificate.

ISO 9001

API 6A



API 6D



TA Luft



CE/PED

ABS



API 591



Fire Safe Test

Neway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, that are designed, manufactured, inspected and tested in accordance with our customer's specifications and that comply with all international standards.

With respect to the facts that the current industrial standards do not always take into consideration the likelihood and consequences of possible deterioration in service, related to specific service fluids or the external environment in which they operate. Our customers are requested to keep an open line of communication with our engineering department to identify and implement standards, that will provide valves with the possibility of deterioration in service, so as to ensure safety over the valves expected lifetime.

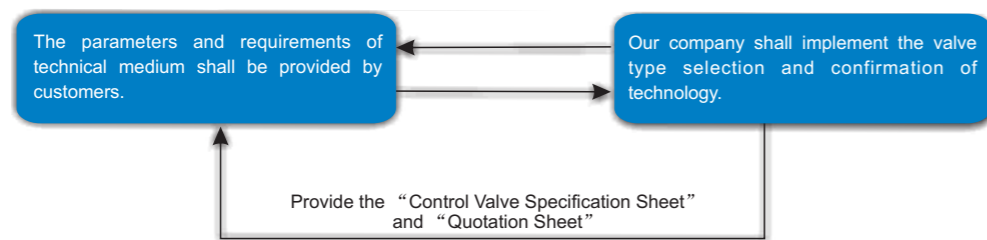
Confirmation of technical parameters

The global control valves (straight-through type) of our company include three types: CSS single-seated control valves, CSC cage-guided control valves, CSM multi-stage pressure reducing control valves, which may be selected for use by users according to the actual demand. This stylebook intends to introduce the CSS single-seated control valves.

CSS	CSC	CSM
Single-seated control valve	Cage-guided control valves	Multi-stage pressure reducing control valve

Confirmation of technology shall be carried out before ordering, with the purpose to ensure that the control valves provided by our company are in full appliance with the requirements of customers.

The specific procedure: The parameters and requirements of technical medium provided by customers, after the valve type selection and calculation for confirmation, shall be worked to "Control Valve Specification Sheet" which shall be provided to the customers for confirmation, then continue the quotation and the next business processes.



The parameters and requirements of technical medium provided by customers are as follows:

- 1) Fluid Name, Fluid state
- 2) Inlet Pressure, Outlet pressure
- 3) Normal flow, Minimum flow, Maximum flow
- 4) Fluid operating temperature, density and viscosity
- 5) Pipeline specification. material, installation direction (Horizontal or vertical)
- 6) Confirm the driving means of valve: electric drive or pneumatic drive, or other means
- 7) Confirm that the control valve is used for regulation or on-off and shutting off.
- 8) Confirm the requirements of the flow characteristics of valves (With the exception of the valves for on-off use)
- 9) Confirm the mode of action of the valve
- 10) Confirm whether the valve is equipped with hand-operating mechanism
- 11) Confirm the leakage rating at the closure of the valve
- 12) Confirm the protection or explosion-proof grade
- 13) Special specifications or requirements

The special specifications or requirements are as follows:

- 1) Oil prohibition treatment of valve body
- 2) Specifications of the vapor jacket of valve body
- 3) Valve stem bellow seal
- 4) Radioactive survey of valve body
- 5) Flow characteristic inspection of valve body
- 6) Low-temperature test of valve body
- 7) Ambient temperature $\leq -30^{\circ}\text{C}$
- 8) Ambient temperature $\geq 60^{\circ}\text{C}$
- 9) Treatment for strongly corrosive environment
- 10) Special requirements of on-off switching speed
- 11) Copper prohibition treatment
- 12) Designated coating
- 13) Other special requirements

Pattern of specification

Control Valve Specification Sheet										
Customer					Name of Valve					
Plant					Code No.					
Tag.no.					Quotation No.					
Purpose					DWG. No.					
Quantity					Manufacturing Sn.					
Valve Body	Code				<input type="checkbox"/>	Valve Body				<input type="checkbox"/>
	Size				<input type="checkbox"/>	Valve Plug				<input type="checkbox"/>
	Rating				<input type="checkbox"/>	Valve Seat				<input type="checkbox"/>
	Connection				<input type="checkbox"/>	Guide Sleeve				<input type="checkbox"/>
	Trim Form				<input type="checkbox"/>	Gland Packing				<input type="checkbox"/>
	Character				<input type="checkbox"/>					<input type="checkbox"/>
	Bonnnet				<input type="checkbox"/>					<input type="checkbox"/>
	Rated Cv	Travel		mm	<input type="checkbox"/>					<input type="checkbox"/>
Actuator	Code				<input type="checkbox"/>	Supply				<input type="checkbox"/>
	Output Force				<input type="checkbox"/>	Connection				<input type="checkbox"/>
	Action Type				<input type="checkbox"/>					<input type="checkbox"/>
	Spring Range				<input type="checkbox"/>					<input type="checkbox"/>
	Handwheel				<input type="checkbox"/>					<input type="checkbox"/>
Accessories	Name	Mode And Specification	Connection		Name	Mode And Specifications	Connection			
	Electro-pneumatic Positioner			<input type="checkbox"/>					<input type="checkbox"/>	
	Filter Reducing Valve			<input type="checkbox"/>					<input type="checkbox"/>	
	Solenoid Valve			<input type="checkbox"/>					<input type="checkbox"/>	
	Limit Switch			<input type="checkbox"/>					<input type="checkbox"/>	
	Speed-up Relay			<input type="checkbox"/>					<input type="checkbox"/>	
Action · capability	Lockup Valve			<input type="checkbox"/>					<input type="checkbox"/>	
	Signal				<input type="checkbox"/>	Leakage class				<input type="checkbox"/>
	Supply				<input type="checkbox"/>	Action speed				<input type="checkbox"/>
	Action				<input type="checkbox"/>	Mounting means				<input type="checkbox"/>
	Failure				<input type="checkbox"/>	Ambient temperature				<input type="checkbox"/>
	Oil-free				<input type="checkbox"/>	Line direction				<input type="checkbox"/>
	Painting				<input type="checkbox"/>	Dimension of connection tube				<input type="checkbox"/>
Other				<input type="checkbox"/>	Material of connection tube				<input type="checkbox"/>	
Service Condition · calculation	Unit	Minimum	Normal	Maximum	Name of Fluid					
	Flow Rate	Kg/h			State					
	Inlet Pressure	kPaG			Remark					
	Outlet Pressure	kPaG								
	Shutoff Pressure	kPa								
	Operating Temperature	$^{\circ}\text{C}$								
	Viscosity	$\text{Pa} \cdot \text{s}$								
	Density	Kg/m^3								
	Cal.cv									
	Opening	%								
Noise	dBA									
Compiling										
Confirming										
Approving										



Design Feature of CSS Single-seated Control Valve

CSS control valve is a single seat and high-precision valve with the following design features:

- Use S-shape interval channel with constant section, the slight flow resistance and strong flow capacity.
- The one-piece structure shall be applied to the small-size valve plug and stem to avoid the problems brought by pins or welding.
- Adopt top-guided structure which is compact with smooth flow and not easy to be blocked.
- With wide adjustable range and high adjusting precision
- Pneumatic actuator is a multi-spring diaphragm type with compact structure and strong output force.
- Electric actuator is an electronic electric actuating mechanism with one-piece structure and powerful functions.
- Apply to control various fluid mediums.



Design Reference Standard of The CSS Single-seated Control Valve

- ASME B16.34-1996 Valves-Flanged, Threaded, and Welding End.
- ASME B16.104 Seat Leakage of Control Valves
- IEC 60534-2-4-1989 Part 2 Flow Rate-Section 4: Inherent Flow Characteristics and Rangeability.
- IEC 60534-3-1976 Part 3 Dimension-Section 1: Structure Length of Flanged Connecting Two-way Global Control Valves
- GB/T4213-92 Pneumatic control valves
- JB/T 5296-91 General Test Methods of Flow Coefficient and Flow Resistance Coefficient of Valves
- API 598-1996 Inspection and Tests of Valves (Domestic Standard Reference GB/T 13927-1992)
- ISO 5208-2004 Pressure test of Industrial Valves (Domestic Standard Reference JB/T 9092-1999)



Main Performance Index Of The CSS Single-seated Control Valve

- Intrinsic error: $\pm 2\%$ (with localizer) ; $\pm 5\%$ (without localizer)
 $\pm 1\%$ (electronic actuator)
- Hysteresis error: 1% (with localizer) ; 3% (without localizer)
 $\pm 0.8\%$ (electronic actuating mechanism)
- Hysteresis: 1% (with localizer) ; 5% (without localizer)
 1% (electronic actuating mechanism)
- Rangeability: R=50
- Leakage class: ANSICLASS IV (rated $C_v \times 0.01\%$)
ANSICLASS V 、 VI (hard sealing, optional)
ANSICLASS VI (soft sealing)
- Flow characteristics: equal percentageage, linearity and quick-opening
- For the details of rated C_v value and allowable pressure drop, please see the content later.

Manufacturing Scope Of CSS Single-seated Control Valves

Range Of Size												
British unit	In	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
Metric unit	mm	15	20	25	40	50	65	80	100	125	150	200

Pressure Rating			
ANSI CLASS	150 Lb	300 Lb	600 Lb
HG20592~20635-97	1.6 MPa ~ 2.0 MPa	4.0MPa ~ 5.0 MPa	6.3 MPa ~ 10 MPa ~ 11 MPa
GB/T9112~9124	1.6 MPa ~ 2.0 MPa	4.0MPa ~ 5.0 MPa	6.3 MPa ~ 10 MPa ~ 11 MPa
JIS	10K	20K ~ 30K	40K

Applicable Temperature Range				
Temperature range	-5 \circ ~ 230 \circ	-45 \circ ~ -5 \circ or >230 \circ	-46 \circ ~ -100 \circ	-100 \circ ~ -196 \circ
Bonnet type	Standard type	Extension type	Long type	low temperature type

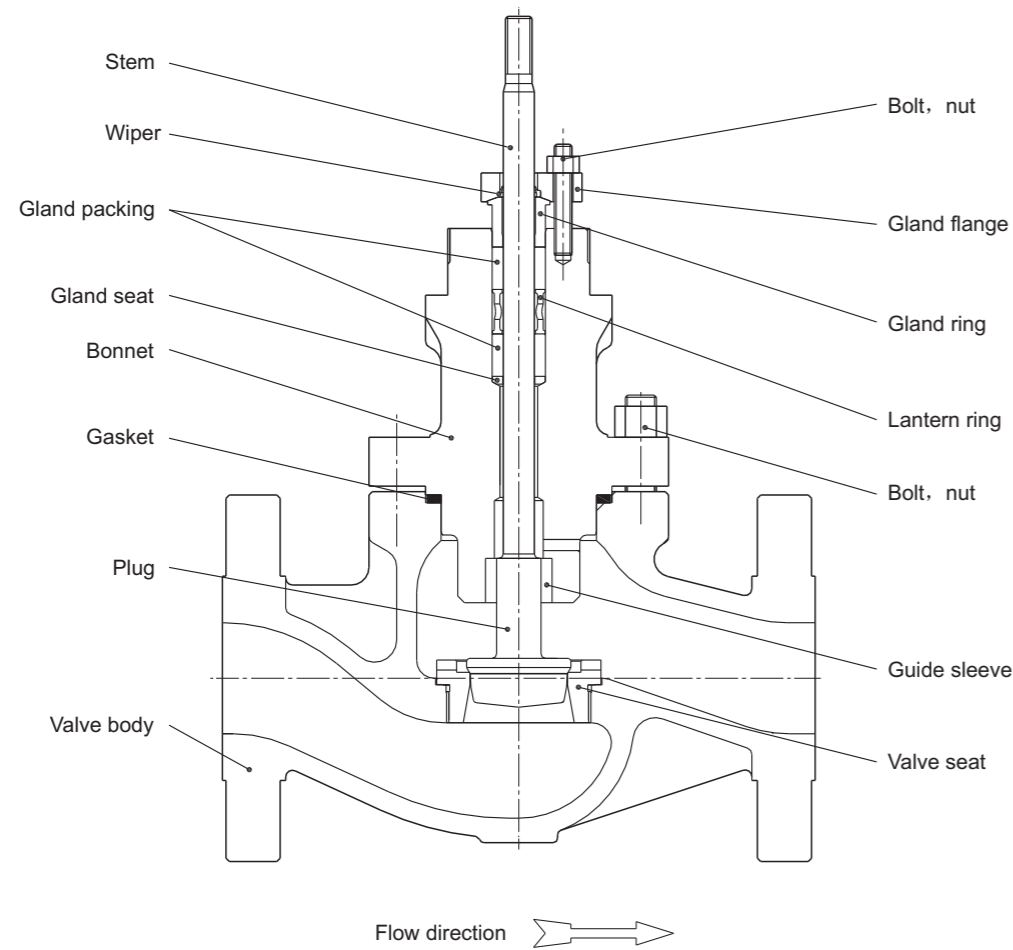
Notice: When the temperature of fluid medium is below -45 \circ C, it should confirm the length of bonnet and the connection dimension between the bonnet and thermal container with customers.

Connection Mode

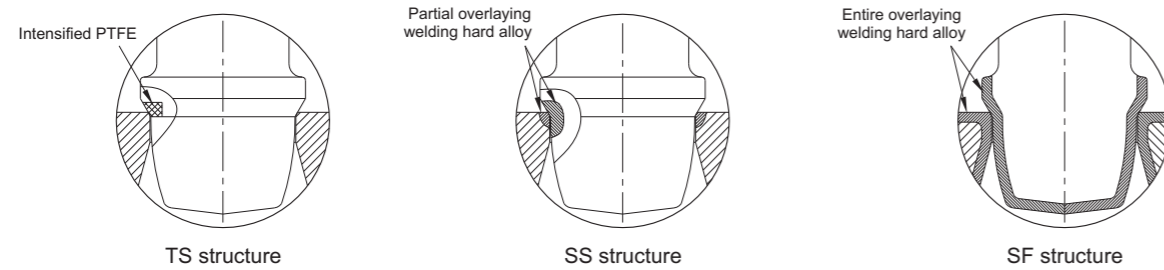
Connection Mode	Sealing Face Type	Abbreviated Code Of Sealing Face	Code Of Neway
Flange end	Flat face end	FF	F
	Raised face end	RF	R
	Female flanged end	MF	LF
	Male flange end	MM	LM
	RTJ end	RTJ	J
Welded end	Butt welding end (more than 3")	BW	B
	Socket welding end (equal to or less than 2")	SW	S

Coating

Standard painting color of carbon-steel valve: RAL9006 silvery white
The stainless steel valve body part shall not be painted.
The original color of electric actuator shall be kept, unless there are special requirements.
With the special requirements, customers may designate the type and color of the paint.



Structure of Sealing Part



As in the above figure,
 In the TS structure, the intensified PTFE is embedded in the sealing part of the valve plug.
 In the SS structure, the STELLITE hard alloy is overlaying welded in the sealing part of valve plug and valve seat (Partial overlaying welding).
 In the SF structure, the STELLITE hard alloy is overlaying welded in the entire surface of the valve plug and valve seat (Entire overlaying welding).

Rated Cv Value, Travel (Adjusting Type of Valve Plug)

Nominal Pipe Size		Valve Plug Dimension		Rated Cv	Travel
mm	in	mm	in	---	mm
15	1/2	6	1/8	0.3	12
		7	3/16	0.5	12
		8	1/4	1.0	12
		9	5/16	1.6	20
		10	3/8	2.6	20
20	3/4	15	1/2	4	20
		6	1/8	0.3	12
		7	3/16	0.5	12
		8	1/4	1.0	12
		9	5/16	1.6	20
		10	3/8	2.6	20
25	1	15	1/2	4	20
		20	3/4	8	20
		6	1/8	0.3	12
		7	3/16	0.5	12
		8	1/4	1.0	12
		9	5/16	1.6	20
		10	3/8	2.6	20
40	1-1/2	25	1	14	20
		32	1-1/4	22	20
		40	1-1/2	26	20

Nominal Pipe Size		Valve Plug Dimension		Rated Cv	Travel
mm	in	mm	in	---	mm
50	2	32	1-1/4	22	20
		40	1-1/2	26	20
65	2-1/2	50	2	46	20
		40	1-1/2	26	30
		65	2-1/2	74	30
80	3	50	2	46	30
		65	2-1/2	74	30
100	4	80	3	108	30
		65	2-1/2	74	40
		100	4	180	40
125	5	80	3	108	50
		100	4	180	50
		125	5	280	50
150	6	100	4	180	50
		125	5	280	50
		150	6	380	50
200	8	125	5	280	70
		150	6	380	70
		200	8	660	70

Rated Cv Value, Travel (on/off Type of Valve Plug)

Nominal Pipe Size		Valve Plug Dimension		Rated Cv	Travel
mm	in	mm	in	---	mm
15	1/2	15	1/2	4	20
20	3/4	20	3/4	10	20
25	1	25	1	16	20
40	1-1/2	40	1-1/2	36	20
50	2	50	2	60	20
65	2-1/2	65	2-1/2	100	20

Nominal Pipe Size		Valve Plug Dimension		Rated Cv	Travel
mm	in	mm	in	---	mm
80	3	80	3	140	20
100	4	100	4	220	30
125	5	125	5	340	40
150	6	150	6	460	40
200	8	200	8	720	60

Standard Product Material Combination (valve Body To Be Carbon-steel Wcb, Wc6, Lcb)

Material of valve body	WCB, WC6				LCB	
	316SS/TS	316SS	316SS/SS	316SS/SF	316SS/TS	316SS
Material and treatment of valve plug	316SS	316SS	316SS/SS	316SS/SF	316SS/TS	316SS
Material and treatment of valve seat	316SS	316SS	316SS/SS	316SS/SF	316SS	316SS
Material and treatment of guide sleeve	316SS/SS	316SS/SS	316SS/SS	316SS/SS	316SS/SS	316SS/SS
Range of working temperature	-5°C~+200°C	-5°C~+230°C	-5°C~+425°C	-5°C~+425°C	-45°C~+200°C	-45°C~+230°C
Allowable leakage rate of valve seat	CLASS VI	CLASS IV	CLASS IV	CLASS IV	CLASS VI	CLASS IV
Figure of temperature pressure	See fig.1	See fig.2	See fig.3		See fig.4	See fig.5

Note: The material grades listed in the above table are ASTM standard, for material of national standard and other standard, just adopt it.
Using temperature and pressure of any material are not allowed to exceed the pressure- temperature rating defined in ASME B16.34;
TS in the table indicate the configuration of embedding intensified PTFE; SS in the table expresses the configuration of partial overlaying welding hard alloy; SF in the table expresses the configuration of entire overlaying welding hard alloy.
If needing material unlisted in the table, please affirm it with the company's sales department.

Standard Product Material Combination (Valve Body To Be Stainless Steel Cf8/cf8m)

Material of valve body	CF8 / CF8M			
	316SS/TS	316SS	316SS/SS	316SS/SF
Material and treatment of valve plug	316SS	316SS	316SS/SS	316SS/SF
Material and treatment of valve seat	316SS	316SS	316SS/SS	316SS/SF
Material and treatment of guide sleeve	316SS/SS	316SS/SS	316SS/SS	316SS/SS
Range of working temperature	-75°C~+200°C	-196°C~+230°C	-196°C~+538°C	-196°C~+538°C
Allowable leakage rate of valve seat	CLASS VI	CLASS IV	CLASS IV	CLASS IV
Figure of temperature pressure	See fig.A	See fig.B	See fig.C	

Note: The material grades listed in the above table are ASTM standard, for material of national standard and other standard, just adopt it.
Using temperature and pressure of any material are not allowed to exceed the pressure- temperature rating defined in ASME B16.34;
TS in the table indicate the configuration of embedding intensified PTFE; SS in the table expresses the configuration of partial overlaying welding hard alloy; SF in the table expresses the configuration of entire overlaying welding hard alloy.
If needing material unlisted in the table, please affirm it with the company's sales department.

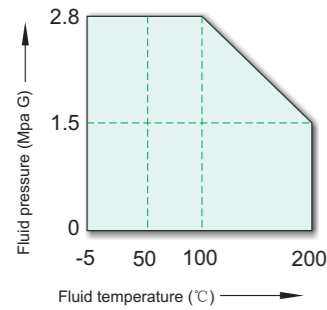


Fig.1

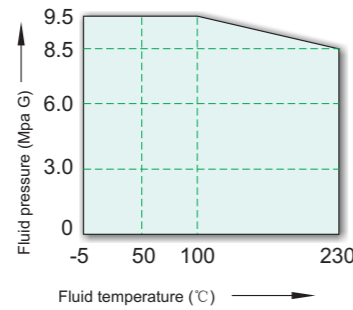


Fig.2

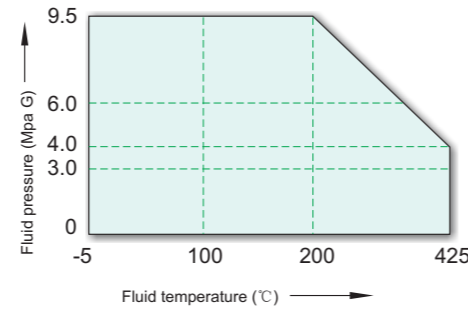


Fig.3

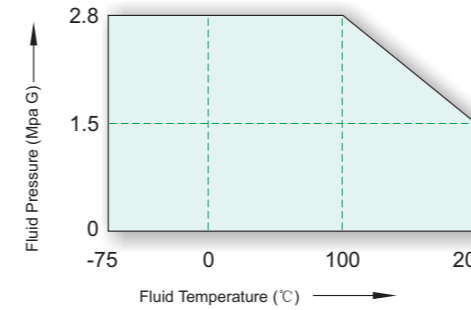


Fig.A

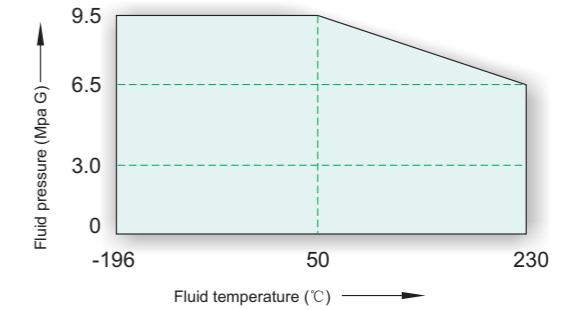


Fig.B

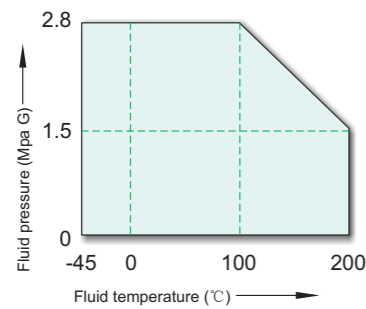


Fig.4

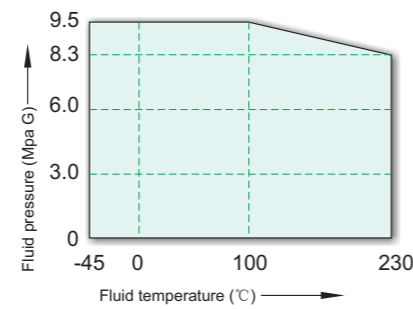


Fig.5

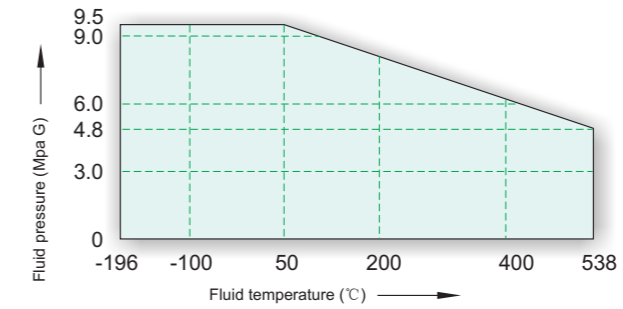


Fig.C

Applicable pressure-temperature range of valve body ---ASME B16.34---2004

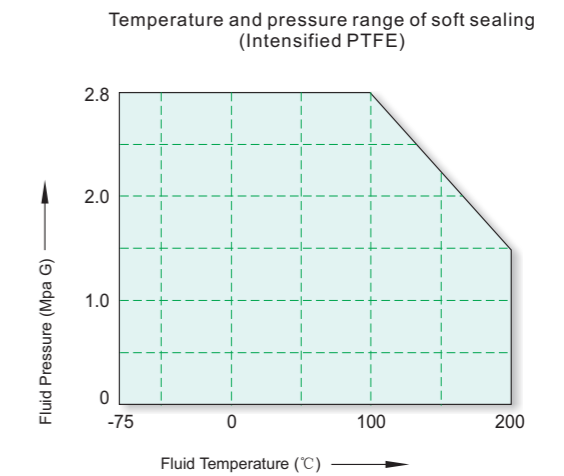
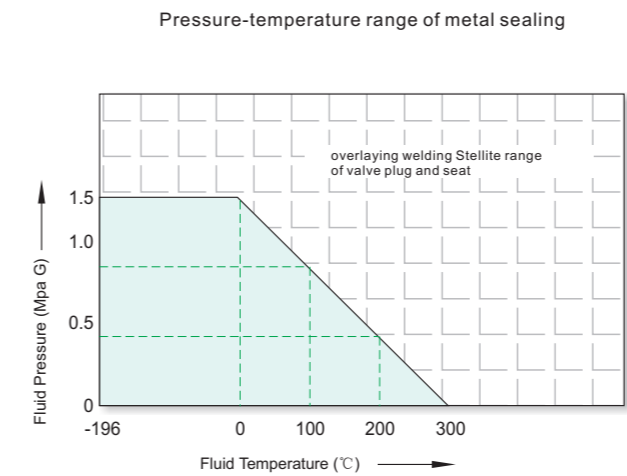
Unit: Mpa

°C	ANSI 150Lb							ANSI 300Lb			
	LCB	WCB	WC6	WC9	C5	CF8	CF8M	LCB	WCB	WC6	WC9
		A105	F11	F22	F5	F304	F316		A105	F11	F22
-196~38						1.90	1.90				
-45~38						1.90	1.90	4.78			
-29~38	1.84	1.96	1.98	1.98	2.00	1.90	1.90	4.80	5.11	5.17	5.17
50	1.82	1.92	1.95	1.95	1.95	1.83	1.84	4.75	5.01	5.17	5.17
100	1.74	1.77	1.77	1.77	1.77	1.57	1.62	4.53	4.66	5.15	5.15
150	1.58	1.58	1.58	1.58	1.58	1.42	1.48	4.39	4.51	4.97	5.03
200	1.38	1.38	1.38	1.38	1.38	1.32	1.37	4.25	4.38	4.80	4.86
250	1.21	1.21	1.21	1.21	1.21	1.21	1.21	4.08	4.19	4.63	4.63
300	1.02	1.02	1.02	1.02	1.02	1.02	1.02	3.87	3.98	4.29	4.29
325	0.93	0.93	0.93	0.93	0.93	0.93	0.93	3.76	3.87	4.14	4.14
350	0.84	0.84	0.84	0.84	0.84	0.84	0.84	3.64	3.76	4.03	4.03
375		0.74	0.74	0.74	0.74	0.74	0.74		3.64	3.89	3.89
400		0.65	0.65	0.65	0.65	0.65	0.65		3.47	3.65	3.65
425		0.55	0.55	0.55	0.55	0.55	0.55		2.88	3.52	3.52
450		0.46	0.46	0.46	0.46	0.46	0.46		2.30	3.37	3.37
475		0.37	0.37	0.37	0.37	0.37	0.37		1.74	3.17	3.17
500		0.28	0.28	0.28	0.28	0.28	0.28		1.18	2.57	2.82
538		0.14	0.14	0.14	0.14	0.14	0.14		0.59	1.49	1.84

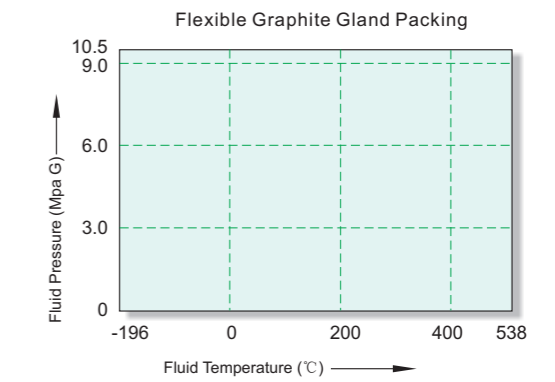
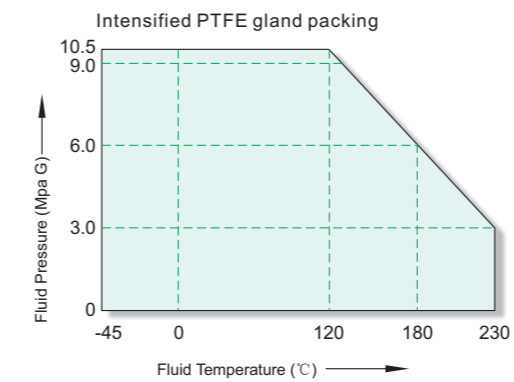
°C	ANSI 300Lb				ANSI 600Lb						
	C5	CF8	CF8M	LCB	WCB	WC6	WC9	C5	CF8	CF8M	
	F5	F304	F316		A105	F11	F22	F5	F304	F316	
-196~38		4.95	4.95						9.91	9.92	
-45~38		4.95	4.95	9.57					9.91	9.92	
-29~38	5.17	4.96	4.96	9.60	10.21	10.34	10.34	10.34	9.93	9.93	
50	5.17	4.78	4.81	9.49	10.02	10.34	10.34	10.34	9.56	9.62	
100	5.15	4.09	4.22	9.07	9.32	10.30	10.30	10.30	8.17	8.44	
150	5.03	3.70	3.85	8.79	9.02	9.95	10.03	10.03	7.40	7.70	
200	4.86	3.45	3.57	8.51	8.76	9.59	9.72	9.72	6.90	7.13	
250	4.63	3.25	3.34	8.16	8.39	9.27	9.27	9.27	6.50	6.68	
300	4.29	3.09	3.16	7.74	7.96	8.57	8.57	8.57	6.18	6.32	
325	4.14	3.02	3.09	7.52	7.74	8.26	8.26	8.26	6.04	6.18	
350	4.03	2.96	3.03	7.28	7.51	8.04	8.04	8.04	5.93	6.07	
375	3.89	2.90	2.99		7.27	7.76	7.76	7.76	5.81	5.98	
400	3.65	2.84	2.94		6.94	7.33	7.33	7.33	5.69	5.89	
425	3.52	2.80	2.91		5.75	7.00	7.00	7.00	5.60	5.83	
450	3.37	2.74	2.88		4.60	6.77	6.77	6.77	5.48	5.77	
475	2.79	2.69	2.87		3.49	6.34	6.34	5.57	5.39	5.73	
500	2.14	2.65	2.82		2.35	5.15	5.65	4.28	5.30	5.65	
538	1.37	2.44	2.52		1.18	2.98	3.69	2.74	4.89	5.00	

Note: (1) Upon prolonged exposure to temperatures above 425°C, the carbide phase of WCB steel may be converted to graphite.
(2) Flanged end valve ratings terminate at 538°C

Working pressure-temperature of sealing part material



Working temperature and pressure range of gland packing



Standard specification of electric actuator

Purpose	Drive actuator of straightway type adjusting valve, on-off valve	
Mode	PSL series	361LA series
Structural features	Full electronic one-piece, built-in servoamp	Full electronic one-piece, built-in servoamp
Voltage	230VAC	220VAC
Repeated precision	± 1%	± 1%
Lag	2% Sensitivity	0.8~1.0%
Protecting Level	IP 65	Ip55
Manual operation	With top type hand wheel	With side type or top type lever
Allowable environmental temperature	-20°C ~ 70°C	-10°C ~ 60°C
Optional accessories	Limit switch, torque switch, heating resistance, local control box, and special voltage	Overload protective device, built-in heater, pressure-resistant and explosion proof

Note: technical performance of electric actuator is based on product leaving factory, data on the above table for you reference

PSL standard specification of straightway type electric actuator

Standard mode	Thrust Force [KN]	Speed [mm/s]	The Most Travel [mm]	Power [VAC]	Power Cons Umpion [VA]	Electromotor Protection	Circuit Connection	Protecting Grade	Weight [Kg]
PSL201MA	1.0	0.25	50	230	25.5	Allow locked rotor	2-M20 × 1.5	IP65	4.25
PSL202MA	2.0	0.50	50	230	37	Allow locked rotor		IP65	4.50
PSL204.1MA	4.5	1.00	50	230	44	Thermoswitch		IP65	5.00
PSL208.1MA	8.0	1.00	50	230	74.2	Thermoswitch		IP65	7.00
PSL210MA	10.0	0.45	50	230	72	Thermoswitch		IP65	7.00
PSL312MA	12.0	0.60	65	230	88	Thermoswitch	3-M20 × 1.5	IP65	10.00
PSL314MA	14.0	0.35	65	230	77	Thermoswitch		IP65	10.00
PSL320MA	20.0	1.00	100	230	100	Thermoswitch		IP65	20.00
PSL325MA	25.0	1.00	100	230	100	Thermoswitch		IP65	20.00

361L standard specification of straightway type electric actuator

Standard mode	Thrust Force [KN]	Speed [mm/s]	The Most Travel [mm]	Power [VAC]	Power Cons Umpion [VA]	Electromotor Protection	Circuit Connection	Protecting Grade	Weight [Kg]
361LSA-08	0.8	4.2	30	220	45	Overheating protection	2-PF1/2	IP55	8.0
361LSA-20	2.0	2.1	30	220	50	Overheating protection		IP55	8.0
361LSB-30	3.0	3.5	60	220	150	Overheating protection		IP55	14.0
361LSB-50	5.0	1.7	60	220	150	Overheating protection		IP55	14.0
361LSC-65	6.5	2.8	100	220	170	Overheating protection		IP55	52.0
361LSC-99	10.0	2.0	100	220	170	Overheating protection		IP55	52.0
361LSC-160	16.0	1.0	100	220	370	Overheating protection		IP55	58.0

Standard specification of pneumatic diaphragm actuator

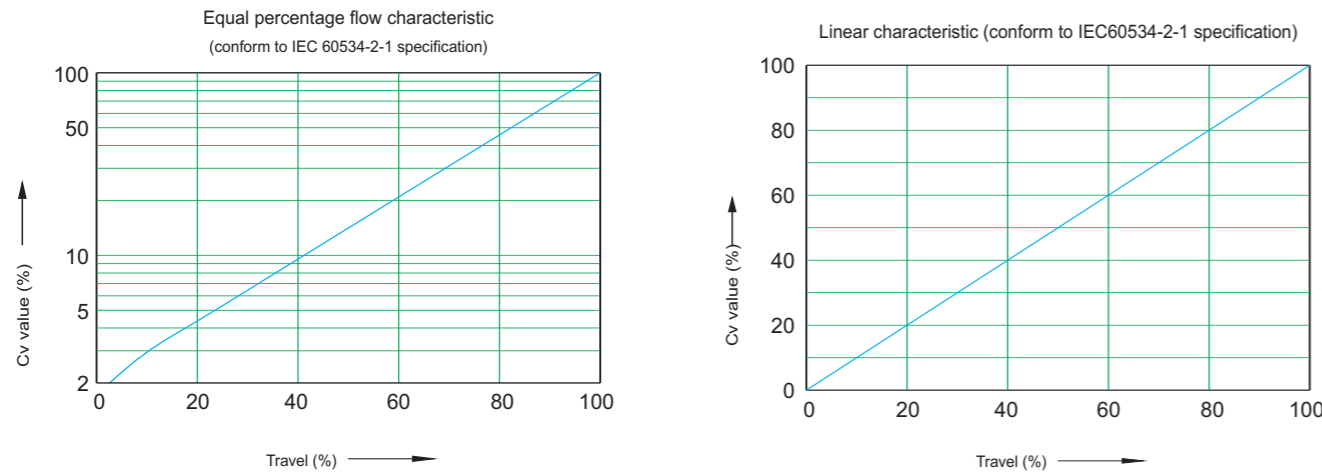
Purpose	Drive actuator of straightway type adjusting valve, on-off valve
Mode	PDL30、PDL40、PDL50、PDL50L、PDL60
Structural features	Pneumatic diaphragm, single action and multi-spring structure
Action type	Direct action (D), reverse action (R)
Supply pressure	0.14 MPa G、0.3 MPa G
Air supply connection	RC1/4 (RC3/8 for PDL60)
Action	Direct action type: when air signal increase valve close; reverse action type:when air signal increase valve open.
Basic error	±2% (with positioner); ±5% (without positioner)
Lag	1% (with positioner); 5% (without positioner)
Return difference	1% (with positioner); 3% (without positioner)
Linear	±1% (with positioner); ±5% (without positioner)
Allowable environmental temperature	-30°C~70°C
Matching accessories	Electro-pneumatic positioner, air-air positioner, air filtration reducing valve, solenoid valve, limit switch, lockup valve, etc.

Actuator travel, spring range, output force

Mode	PDL30		PDL40		PDL50		PDL50L		PDL60	
Travel mm	12 ' 20 ' 25		20 ' 25 ' 30 ' 40		30 ' 40 ' 50 ' 60		70 ' 80		50 ' 60 ' 70 ' 80 ' 90 ' 100	
Spring range Kpa	20~100	80~200	20~100	80~200	20~100	80~200	20~100	80~200	20~100	80~200
Output force N	600	2430	1080	4310	1860	7450	1860	7450	3130	12500

Note: the above data are norm of specification, special travel or output force can be made according to the customers requirements

The inherent flow characteristics of CSS single-seated adjusting valve provide equal percentage flow characteristic, linear characteristic, and quick opening characteristic and so on for choosing. Equal percentage flow characteristic, linear characteristic conform to the IEC60534-2-1 specification.



The flow characteristic of adjusting valve is divided into inherent flow characteristic and installed flow characteristic, inherent flow characteristic was also named ideal flow characteristic, referring to the characteristic of flow varying along with opening with a constant pressure drop in the inlet and outlet region.

The common flow characteristics are: equal percentage flow characteristic (also named logarithmic characteristic), Linearity (also named linear characteristic) and quick opening characteristic. When adjusting valve of linear characteristic is in small opening, the relative varying value of flow is large, and sensitivity is high, but it is difficult to control, however, when in large opening, the relative varying value of flow is small. When adjusting valve of equal percentage flow characteristic is in small opening, the relative varying value of flow is small, adjusting stability and mild, while in large opening, the relative varying value of flow is large.

Equal percentage flow characteristic is the direct ratio relationship between the relative varying value of flow across the valve, caused by the relative varying of displacement while valve opening and the relative flow in the same spot.

$$\frac{d(\frac{q_v}{q_{vmax}})}{d(\frac{l}{L})} = K \frac{q_v}{q_{vmax}} \text{ via integral transform, getting the formula: } \frac{C_v}{C_{vMAX}} = R^{(\frac{l}{L}-1)}$$

$\frac{C_v}{C_{vMAX}}$ refer to relative flow characteristic; $\frac{l}{L}$ Refer to relative displacement; R is adjustable ratio.

Linear flow characteristic is the linear relationship between the relative flow and relative displacement.

$$\frac{d(\frac{q_v}{q_{vmax}})}{d(\frac{l}{L})} = K \text{ via integral transform, getting the formula: } \frac{C_v}{C_{vMAX}} = \frac{1}{R} + (1 - \frac{1}{R}) \times \frac{l}{L}$$

PDL pneumatic diaphragm actuator

Gland packing: V-type PTFE

Unit: Mpa

Specification of the actuator	Spring range Kpa G	Sealing type of valve seat	Specification of valve plug(mm)													
			√10	15	20	25	32	40	50	65	80	100	125	150	200	
PDL30	20~100	Adjust	2.28	1.18	0.87	0.64	0.41	0.27	0.17	---	---	---	---	---	---	
		Cut off	---	---	0.72	0.50	0.32	0.20	0.11	---	---	---	---	---	---	
	80~200	Adjust	9.50	6.35	4.80	3.52	2.35	1.68	1.05	---	---	---	---	---	---	
		Cut off	---	---	4.25	3.10	2.02	1.50	0.93	---	---	---	---	---	---	
PDL40	20~100	Adjust	4.60	2.50	1.82	1.35	0.86	0.63	0.37	0.25	0.17	0.09	---	---	---	
		Cut off	---	---	1.55	1.13	0.72	0.52	0.30	0.20	0.14	0.06	---	---	---	
	80~200	Adjust	---	9.50	9.00	6.45	4.32	3.10	1.90	1.30	0.93	0.52	---	---	---	
		Cut off	---	---	7.85	5.72	3.90	2.80	1.80	1.20	0.84	0.50	---	---	---	
PDL50	20~100	Adjust	---	---	---	2.55	1.65	1.17	0.73	0.48	0.33	0.19	0.12	0.08	0.02	
		Cut off	---	---	---	2.25	1.50	1.05	0.68	0.43	0.30	0.17	0.10	0.06	0.01	
	80~200	Adjust	---	---	---	9.50	7.50	5.52	3.48	2.33	1.66	0.95	0.63	0.43	0.23	
		Cut off	---	---	---	9.40	6.60	5.00	3.20	2.15	1.54	0.90	0.58	0.41	0.20	
PDL60	20~100	Adjust	---	---	---	---	---	---	---	---	---	---	0.30	0.20	---	
		Cut off	---	---	---	---	---	---	---	---	---	---	0.24	0.16	---	
	80~200	Adjust	---	---	---	---	---	---	---	---	---	---	1.00	0.80	0.50	
		Cut off	---	---	---	---	---	---	---	---	---	---	0.95	0.70	0.30	

Note: When the range of spring is from 20 to 100kPa, air supply pressure is 140kPa G; when the range of spring is from 80 to 200kPa, air supply pressure is 300kPa G.

PDL pneumatic diaphragm actuator

Gland packing: flexible graphite

Unit: Mpa

Specification of the actuator	Spring range Kpa G	Sealing type of valve seat	Specification of valve plug(mm)													
			√10	15	20	25	32	40	50	65	80	100	125	150	200	
PDL30	20~100	Adjust	---	---	---	---	---	---	---	---	---	---	---	---	---	
		Cut off	---	---	---	---	---	---	---	---	---	---	---	---	---	
	80~200	Adjust	8.10	4.28	3.22	2.33	1.55	1.10	0.70	---	---	---	---	---	---	
		Cut off	---	---	2.80	2.03	1.34	0.95	0.60	---	---	---	---	---	---	
PDL40	20~100	Adjust	0.84	0.42	0.30	0.21	0.13	0.08	0.04	0.02	0.01	---	---	---	---	
		Cut off	---	---	0.19	0.11	0.05	0.01	---	---	---	---	---	---	---	
	80~200	Adjust	9.50	9.50	7.30	5.26	3.56	2.54	1.60	1.06	0.74	0.44	---	---	---	
		Cut off	---	---	6.40	4.68	3.20	2.28	1.45	0.97	0.70	0.38	---	---	---	
PDL50	20~100	Adjust	---	---	---	1.10	0.72	0.52	0.31	0.20	0.14	0.07	0.04	0.02	---	
		Cut off	---	---	---	0.90	0.60	0.42	0.24	0.15	0.10	0.04	0.02	0.01	---	
	80~200	Adjust	---	---	---	9.20	6.60	4.74	3.00	2.02	1.44	0.76	0.54	0.38	0.16	
		Cut off	---	---	---	8.60	6.05	4.35	2.80	1.95	1.33	0.78	0.50	0.35	0.14	
PDL60	20~100	Adjust	---	---	---	---	---	---	---	---	---	---	0.15	0.11	---	
		Cut off	---	---	---	---	---	---	---	---	---	---	0.12	0.08	---	
	80~200	Adjust	---	---	---	---	---	---	---	---	---	---	0.90	0.70	0.30	
		Cut off	---	---	---	---	---	---	---	---	---	---	0.85	0.65	0.28	

Note: when the spring ranges from 20 to 100kPa, air supply pressure is 140kPa G; when the spring ranges from 80 to 200kPa, air supply pressure is 300kPa G.

361L electronic actuator

Gland packing: V-type PTFE

Unit: Mpa

Specification of The Actuator	Output Force KN	Sealing Type of Valve Seat	Specification of Valve Plug(mm)												
			√10	15	20	25	32	40	50	65	80	100	125	150	200
361LSA-08	0.8	Adjust	3.00	1.50	1.16	0.84	0.55	0.38	0.24	---	---	---	---	---	---
		Cut off	---	---	0.96	0.78	0.48	0.30	0.17	---	---	---	---	---	---
361LSA-20	2.0	Adjust	9.30	4.92	3.70	2.66	1.80	1.26	0.80	---	---	---	---	---	---
		Cut off	---	---	3.21	2.34	1.60	1.13	0.70	---	---	---	---	---	---
361LSA-30	3.0	Adjust	9.50	7.50	5.60	4.10	2.73	1.90	1.23	0.82	0.58	0.34	---	---	---
		Cut off	---	---	5.00	3.71	2.55	1.75	1.12	0.74	0.52	0.28	---	---	---
361LSA-50	5.0	Adjust	---	---	---	7.00	4.72	3.38	2.15	1.44	1.02	0.59	0.38	0.26	---
		Cut off	---	---	---	6.30	4.22	3.10	1.95	1.32	0.94	0.54	0.34	0.25	---
361LSA-65	6.5	Adjust	---	---	---	---	---	---	2.90	1.90	1.35	0.80	0.51	0.35	---
		Cut off	---	---	---	---	---	---	2.64	1.77	1.27	0.74	0.47	0.32	---
361LSA-100	10.0	Adjust	---	---	---	---	---	---	---	3.00	2.10	1.20	0.80	0.56	0.28
		Cut off	---	---	---	---	---	---	---	2.75	1.96	1.15	0.73	0.52	0.27

361L electronic actuator

Gland packing: flexible graphite

Unit: Mpa

Specification of The Actuator	Output Force KN	Sealing Type of Valve Seat	Specification of Valve Plug(mm)												
			√10	15	20	25	32	40	50	65	80	100	125	150	200
361LSA-08	0.8	Adjust	0.68	0.32	0.23	0.15	---	---	---	---	---	---	---	---	---
		Cut off	---	---	0.11	0.05	---	---	---	---	---	---	---	---	---
361LSA-20	2.0	Adjust	7.00	3.65	2.75	1.95	1.32	0.94	0.58	---	---	---	---	---	---
		Cut off	---	---	2.40	1.70	1.15	0.80	0.50	---	---	---	---	---	---
361LSA-30	3.0	Adjust	9.50	5.70	4.31	3.10	2.05	1.50	0.94	0.62	0.43	0.24	---	---	---
		Cut off	---	---	3.75	2.74	1.80	1.32	0.83	0.55	0.38	0.20	---	---	---
361LSA-50	5.0	Adjust	---	---	---	5.85	3.90	2.82	1.78	1.20	0.84	0.50	0.31	0.21	---
		Cut off	---	---	---	5.20	3.45	2.55	1.64	1.10	0.76	0.45	0.27	0.19	---
361LSA-65	6.5	Adjust	---	---	---	---	---	---	2.50	1.68	1.19	0.70	0.45	0.30	---
		Cut off	---	---	---	---	---	---	2.30	1.54	1.10	0.63	0.41	0.27	---
361LSA-100	10.0	Adjust	---	---	---	---	---	---	---	2.47	1.75	1.00	0.65	0.46	0.25
		Cut off	---	---	---	---	---	---	---	2.30	1.64	0.95	0.62	0.42	0.22

PSL electronic actuator

Gland packing: V-type PTFE

Unit: Mpa

Specification of The Actuator	Output Force KN	Sealing Type of Valve Seat	Specification of Valve Plug(mm)														
			√10	15	20	25	32	40	50	65	80	100	125	150	200		
PSL201MA	1.0	Adjust	3.50	2.29	1.61	1.15	0.71	---	---	---	---	---	---	---	---		
		Cut off	---	---	1.46	0.92	0.53	---	---	---	---	---	---	---	---		
PSL202MA	2.0	Adjust	9.50	5.31	3.84	2.72	1.78	1.24	0.75	0.47	---	---	---	---	---		
		Cut off	---	---	3.70	2.50	1.60	1.09	0.62	0.36	---	---	---	---	---		
PSL204.1MA	4.5	Adjust	---	---	---	6.66	4.45	3.17	1.98	1.30	0.85	0.48	---	---	---		
		Cut off	---	---	---	6.44	4.27	3.02	1.86	1.19	0.77	0.41	---	---	---		
PSL208.1MA	8.0	Adjust	---	---	---	---	8.19	5.87	3.71	2.46	1.64	0.95	0.59	---	---		
		Cut off	---	---	---	---	8.01	5.72	3.59	2.36	1.56	0.88	0.53	---	---		
PSL210MA	10.0	Adjust	---	---	---	---	---	---	---	3.12	2.09	1.21	0.76	---	---		
		Cut off	---	---	---	---	---	---	---	3.02	2.01	1.15	0.71	---	---		
PSL312MA	12.0	Adjust	---	---	---	---	---	---	---	---	---	---	2.54	1.48	0.93	0.67	---
		Cut off	---	---	---	---	---	---	---	---	---	---	---	2.46	1.42	0.88	0.63
PSL314MA	14.0	Adjust	---	---	---	---	---	---	---	---	---	---	---	---	1.10	0.80	---
		Cut off	---	---	---	---	---	---	---	---	---	---	---	---	1.05	0.75	0.38
PSL320MA	20.0	Adjust	---	---	---	---	---	---	---	---	---	---	---	---	1.61	1.17	0.59
		Cut off	---	---	---	---	---	---	---	---	---	---	---	---	1.56	1.13	0.59

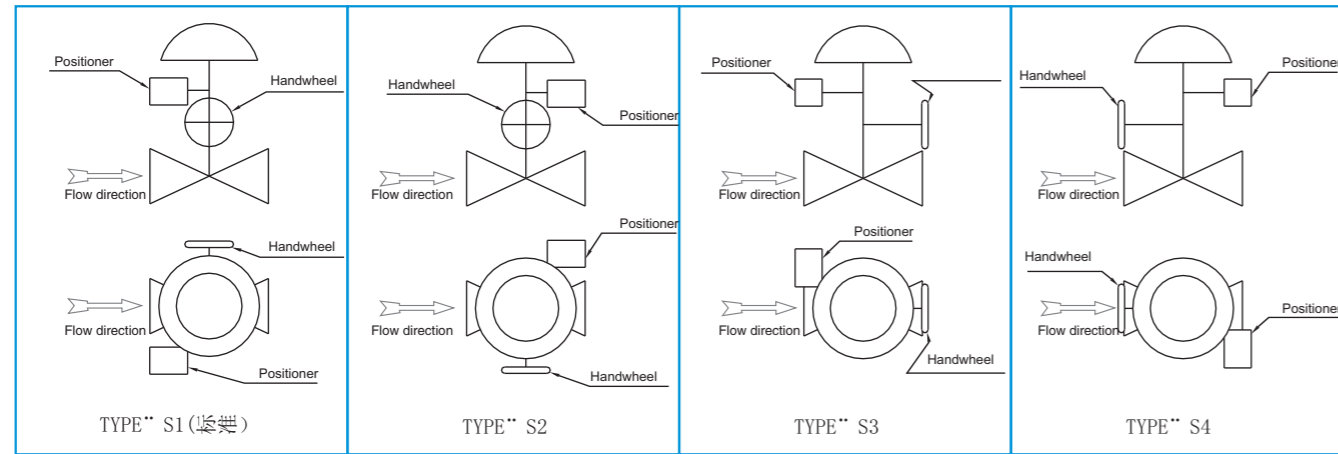
PSL electronic actuator

Gland packing: flexible graphite

Unit: Mpa

Specification of The Actuator	Output Force KN	Sealing Type of Valve Seat	Specification of Valve Plug(mm)														
			√10	15	20	25	32	40	50	65	80	100	125	150	200		
PSL201MA	1.0	Adjust	0.85	0.58	0.15	0.11	---	---	---	---	---	---	---	---	---	---	
		Cut off	---	---	0.15	0.11	---	---	---	---	---	---	---	---	---	---	
PSL202MA	2.0	Adjust	7.50	3.44	2.27	1.60	1.08	0.78	0.50	0.34	0.23	---	---	---	---		
		Cut off	---	---	2.27	1.60	1.08	0.78	0.50	0.34	0.19	---	---	---	---		
PSL204.1MA	4.5	Adjust	---	---	---	5.33	3.61	2.61	1.67	1.12	0.76	0.45	---	---	---		
		Cut off	---	---	---	5.33	3.61	2.61	1.67	1.12	0.73	0.39	---	---	---		
PSL208.1MA	8.0	Adjust	---	---	---	---	7.16	5.17	3.31	2.22	1.51	0.90	0.56	---	---		
		Cut off	---	---	---	---	7.16	5.17	3.31	2.22	1.48	0.84	0.51	---	---		
PSL210MA	10.0	Adjust	---	---	---	---	---	---	---	2.85	1.94	1.15	0.72	---	---		
		Cut off	---	---	---	---	---	---	---	2.85	1.90	1.09	0.67	---	---		
PSL312MA	12.0	Adjust	---	---	---	---	---	---	---	---	---	---	2.37	1.41	0.88	0.63	---
		Cut off	---	---	---	---	---	---	---	---	---	---	---	2.33	1.34	0.83	0.59
PSL314MA	14.0	Adjust	---	---	---	---	---	---	---	---	---	---	---	---	1.04	0.75	---
		Cut off	---	---	---	---	---	---	---	---	---	---	---	---	0.99	0.71	0.36
PSL320MA	20.0	Adjust	---	---	---	---	---	---	---	---	---	---	---	---	1.53	1.11	0.56
		Cut off	---	---	---	---	---	---	---	---	---	---	---	---	---	1.07	0.56

The following figure is installation position figure of the actuator and accessories, so users can choose based on operating conveniently, air or cable joint position and other factors. S1 is standard installation position figure. (Attention: hand wheel is optional).



Weight (equipped with pneumatic diaphragm actuator PDL)

Unit: Kg

Valve Size		Actuator	150# ~ PN1.6		300# ~ PN4.0		600# ~ PN10.0	
DN	NPS		Standard Type	Extension Type	Standard Type	Extension Type	Standard Type	Extension Type
15	1/2	PDL30	28	29	29	30	31	33
		PDL40	35	36	36	37	38	40
20	3/4	PDL30	28	29	29	30	31	33
		PDL40	35	36	36	37	38	40
25	1	PDL30	29	30	30	31	32	34
		PDL40	36	37	37	38	39	41
40	1-1/2	PDL30	35	36	41	43	49	51
		PDL40	42	43	48	50	56	58
		PDL50	73	74	79	81	87	89
50	2	PDL30	42	44	47	49	52	55
		PDL40	49	51	54	56	59	62
		PDL50	80	82	85	87	90	93
65	2-1/2	PDL40	57	60	63	66	78	83
		PDL50	88	91	91	94	106	111
80	3	PDL40	67	70	77	80	100	105
		PDL50	98	101	108	111	131	136
100	4	PDL40	78	82	97	101	127	133
		PDL50	108	112	127	131	158	164
125	5	PDL50	143	148	168	173	218	226
		PDL60	161	166	186	191	236	244
150	6	PDL50	188	196	218	226	268	280
		PDL60	206	214	236	246	286	300
200	8	PDL50L	268	280	318	333	438	458
		PDL60	276	288	326	341	446	466

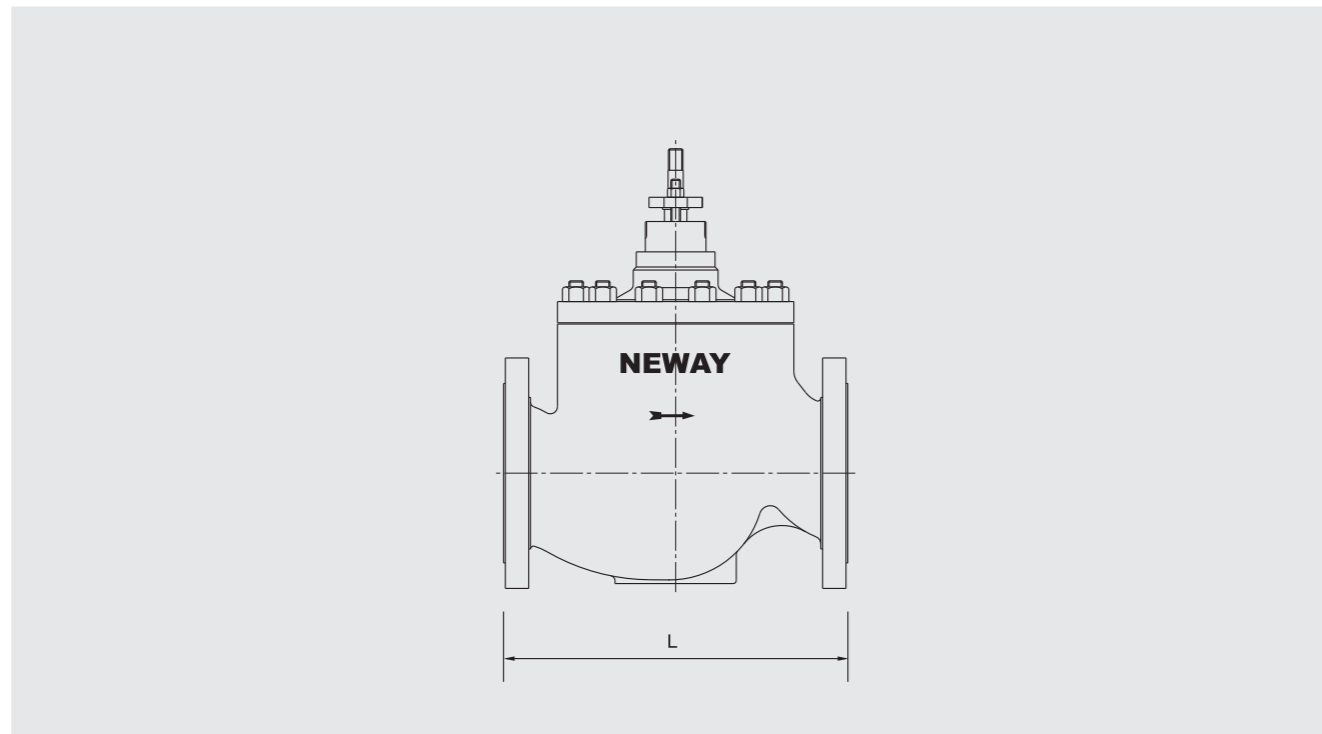
Weight (equipped with electric actuator PSL)

Unit: Kg

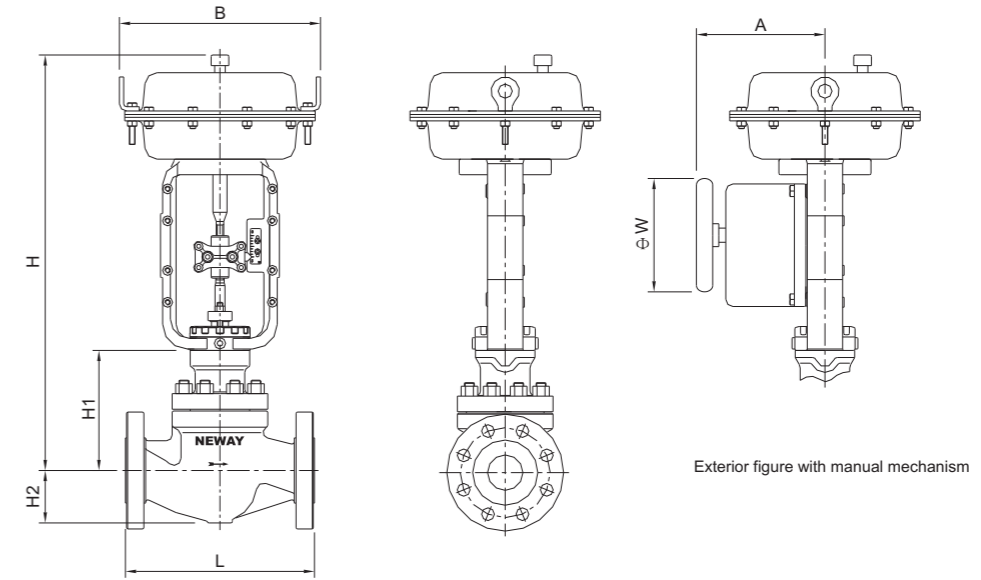
Valve Size		Actuator	150# ~ PN1.6		300# ~ PN4.0		600# ~ PN10.0	
SN	NPS		Standard Type	Extension Type	Standard Type	Extension Type	Standard Type	Extension Type
15	1/2	PSL201	13	14	14	15	16	18
		PSL202						
20	3/4	PSL201	13	14	14	15	16	18
		PSL202						
25	1	PSL201	14	15	15	16	17	19
		PSL202						
		PSL204.1	15	16	16	17	18	20
40	1-1/2	PSL202	20	21	26	28	34	36
		PSL204.1	21	22	27	29	35	37
		PSL208.1	23	24	29	31	37	39
50	2	PSL202	27	29	32	34	37	40
		PSL204.1	28	30	33	35	38	41
		PSL208.1	30	32	35	37	40	43
65	2-1/2	PSL204.1	36	39	41	44	55	60
		PSL210	38	41	43	46	58	63
80	3	PSL204.1	45	48	56	59	76	81
		PSL210	48	51	58	61	78	83
100	4	PSL208.1	57	61	73	77	108	114
		PSL210	61	65	76	80	111	117
125	5	PSL312	93	98	118	123	168	176
		PSL314	96	101	121	126	171	179
150	6	PSL312	141	149	171	179	221	233
		PSL314	151	159	181	189	231	243
200	8	PSL314	211	223	261	276	381	401
		PSL320	231	243	271	286	391	411

Valve Size		Face-face Dimension L											
		ANSI 150 RF PN1.6 RF		ANSI 150 RTJ PN1.6 RTJ		ANSI 300 RF PN4.0 RF		ANSI 300 RTJ PN4.0 RTJ		ANSI 600 RF PN10.0 RF		ANSI 600 RTJ PN10.0 RTJ	
DN	NPS	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
15	1/2	184	7.25	197	7.75	190	7.50	202	7.94	203	8.00	203	8.0
20	3/4	184	7.25	197	7.75	194	7.62	206	8.12	206	8.12	206	8.12
25	1	184	7.25	197	7.75	197	7.75	210	8.25	210	8.25	210	8.25
40	1-1/2	222	8.75	235	9.25	235	9.25	248	9.75	251	9.88	251	9.88
50	2	254	10.00	267	10.50	267	10.50	282	11.12	286	11.25	284	11.37
65	2-1/2	276	10.88	289	11.38	292	11.50	308	12.12	311	12.25	314	12.37
80	3	298	11.75	311	12.25	317	12.50	333	13.12	337	13.25	340	13.37
100	4	352	13.88	365	14.38	368	14.50	384	15.12	394	15.50	397	15.62
150	6	451	17.75	464	18.25	473	18.62	489	19.24	508	20.00	511	20.12
200	8	543	21.38	556	21.88	568	22.38	584	23.00	610	24.00	613	24.12
250	10	673	26.50	686	27.00	708	27.88	724	28.50	752	29.62	755	29.74
300	12	737	29.00	749	29.50	775	30.50	790	31.12	819	32.25	822	32.37
350	14	889	35.00	902	35.50	927	36.50	943	37.12	972	38.25	475	38.37
400	16	1016	40.00	1029	40.50	1057	41.62	1073	42.24	1108	43.62	1111	43.74

Note: According to IEC 60534-3-1976 < Part 3 dimension section 1: Face-to-Face Dimension for Flanged two-way Globe-Style Control Valves> .
Class rating is national standard or other national standard, using the approached grade value in the above table.



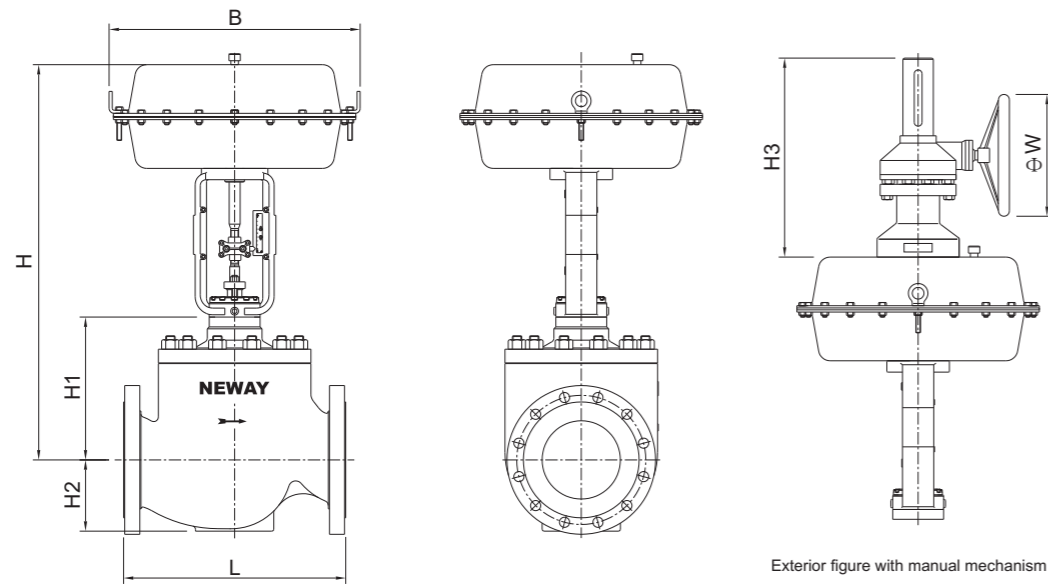
PDL pneumatic diaphragm actuator



Unit: mm

Valve Size		Actuator	H		H1		H2	B	A	W
DN	NPS		Standard Type	Extension Type	Standard Type	Extension Type				
15	1/2	PDL30	560	660	130	230	36	270	180	160
		PDL40	580	680	130	230	36	350	180	160
20	3/4	PDL30	560	660	130	230	37	270	180	160
		PDL40	580	680	130	230	37	350	180	160
25	1	PDL30	560	660	130	230	38	270	180	160
		PDL40	580	680	130	230	38	350	180	160
40	1-1/2	PDL30	600	750	170	320	65	270	180	160
		PDL40	620	770	170	320	65	350	180	160
		PDL50	740	890	170	320	65	470	260	300
50	2	PDL30	605	760	175	330	74	270	180	160
		PDL40	625	780	175	330	74	350	180	160
		PDL50	745	900	175	330	74	470	260	300
65	2-1/2	PDL40	650	800	200	350	85	350	180	160
		PDL50	770	900	200	350	85	470	260	300
80	3	PDL40	650	800	200	350	95	350	180	160
		PDL50	770	920	200	350	95	470	260	300
100	4	PDL40	700	850	250	400	110	350	180	160
		PDL50	820	970	250	400	110	470	260	300
125	5	PDL50	860	1010	290	440	170	470	260	300
150	6	PDL50	870	1020	300	450	180	470	260	300
200	8	PDL50L	1060	1210	360	510	215	470	260	300

PDL pneumatic diaphragm actuator

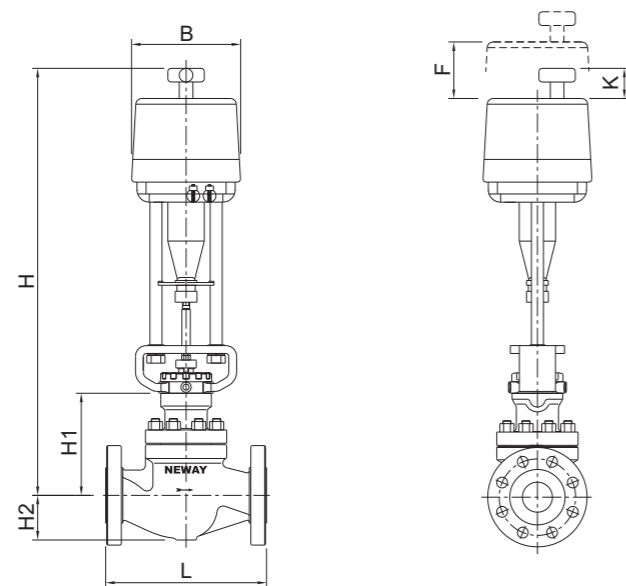


Exterior figure with manual mechanism

Unit: mm

Valve Size		Actuator	H		H1		H2	B	H3	W
DN	NPS		Standard Type	Extension Type	Standard Type	Extension Type				
125	5	PDL60	950	1100	290	440	170	620	500	300
150	6	PDL60	960	1110	300	450	180	620	500	300
200	8	PDL60	1020	1170	365	510	215	620	500	300

PSL electronic actuator



Unit: mm

Valve Size		Actuator	H		H1		H2	K	F
DN	NPS		Standard Type	Extension Type	Standard Type	Extension Type			
15	1/2	PSL201	670	770	130	230	36	50	100
		PSL202	670	770	130	230	36	50	100
20	3/4	PSL201	670	770	130	230	37	50	100
		PSL202	670	770	130	230	37	50	100
25	1	PSL201	670	770	130	230	38	50	100
		PSL202	670	770	130	230	38	50	100
40	1-1/2	PSL204.1	670	770	130	230	38	50	100
		PSL202	710	860	170	320	65	50	100
		PSL208.1	740	890	170	320	65	50	100
50	2	PSL202	715	870	175	330	74	50	100
		PSL204.1	715	870	175	330	74	50	100
		PSL208.1	745	900	175	330	74	50	100
65	2-1/2	PSL204.1	740	890	200	350	85	50	100
		PSL208.1	770	920	200	350	85	50	100
		PSL210	770	920	200	350	85	50	100
80	3	PSL204.1	740	890	200	350	95	50	100
		PSL208.1	770	920	200	350	95	50	100
		PSL210	770	920	200	350	95	50	100
100	4	PSL208.1	820	970	250	400	110	50	100
		PSL210	820	970	250	400	110	50	100
		PSL312	900	1050	250	400	170	65	230
125	5	PSL210	860	1010	290	440	110	50	100
		PSL312	940	1090	290	440	170	65	230
		PSL314	940	1090	290	440	170	65	230
150	6	PSL312	950	1100	300	450	180	65	230
		PSL314	950	1100	300	450	180	65	230
		PSL320	1180	1330	300	450	180	100	230
200	8	PSL314	1010	1160	360	510	215	65	230
		PSL320	1240	1390	360	510	215	100	230

The following table is comparison on flange standard in common use, including ISO international standard, ANSI American standard, JIS Japanese standard, DIN German standard, GB Chinese national standard, HG standard of Chinese Chemistry Department, JB standard of Chinese Machinery Department, etc. The same code number standard of Neway Company expresses that they can exchange for use with each other, but not definitely in full accord.

Code Number of Neway Company	Standard Number	
	ANSI B16.5 ANSI B16.47	GB/T9112~9124-2000 HG20615~20635-97 ISO7005-1:1992
0	125 Lb	
1	150 Lb	PN2.0 MPa
2	250 Lb	
3	300 Lb	PN5.0 MPa
4	400 Lb	
6	600 Lb	PN11.0 MPa
8	800 Lb	
9	900 Lb	PN15.0 MPa
15	1500 Lb	PN26.0 MPa
25	2500 Lb	PN42.0 MPa

Code Number of Neway Company	Standard Number
	JIS
2K	2K
5K	5K
10K	10K
16K	16K
20K	20K
30K	30K
40K	40K
63K	63K

Code Number of Neway Company	Standard Number		
	GB/T9112~9124-2000 HG20592~20614-97	DIN	ISO7005-1:1992
01P1		PN0.1 MPa	
02P1	PN0.25 MPa	PN0.25 MPa	PN0.25 MPa
06P1	PN0.6 MPa	PN0.6 MPa	PN0.6 MPa
10P1	PN1.0 MPa	PN1.0 MPa	PN1.0 MPa
16P1	PN1.6 MPa	PN1.6 MPa	PN1.6 MPa
25P1	PN2.5 MPa	PN2.5 MPa	PN2.5 MPa
40P1	PN4.0 MPa	PN4.0 MPa	PN4.0 MPa
63P1	PN6.3 MPa	PN6.3 MPa	
100P1	PN10 MPa	PN10 MPa	
160P1	PN16 MPa	PN16 MPa	
250P1	PN25 MPa	PN25 MPa	
320P1		PN32 MPa	
400P1		PN40 MPa	

Code Number of Neway Company	Standard Number
	JB/T 79.1~86.2-94
02P2	PN0.25 MPa
06P2	PN0.6 MPa
10P2	PN1.0 MPa
16P2	PN1.6 MPa
25P2	PN2.5 MPa
40P2	PN4.0 MPa
63P2	PN6.3 MPa
100P2	PN10 MPa
160P2	PN16 MPa
200P2	PN20 MPa

Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.