ASL4 Series Balanced Single Seat Control Valve

Aisenberg®

Specification

DESIGN
The sleeve-guided structure and pressure-balanced valve core are designed for heavy-load conditions and are used on occasions with high leakage levels. The valve body has a compact structure, and the fluid channel has an S streamline shape,multistage pressure reducing , large flow volume, wide adjustable range, and high precision flow characteristics.-Good sealing properties and high allowable differential pressure. Cage-guided, balanced valve core design ensures minimum actuator thrust resulting in saving costs.

OPERATION
Handle/Electric /Pneumatic

CONNECTION
Butt Weld/Flange/Thread

PRESSURE RANGE
ANSI: CLASS150-1500LB
DIN: PN16-PN250

TEMPERATURE RANGE
Metal：-196°C - +570°C

MATERIALS
Body: WCB/WCC/
WC6/WC9/C5
CF8/CF3
CF8M/CF3M etc.

Trim: 304/304L
316/316L
410/420/440C
630/XM-19

Seat: Metal/SurfacingSTL

The above information is for reference only and Aisenberg reserves the right to alter without prior notice

Type:
ASL4

Balanced Single Seat
Control Valve
CLASS150-1500LB
PN16-PN250
WCB/WCC
WC6/WC9/C5
CF8/CF3
CF8M/CF3M etc.

Rated CV value and stroke

Valve size (mm)	Plug size (mm)	Rated CV		Stroke (mm)
		EQ%	Linear	
40	6	1	---	25
	8	1.5	---	25
	10	2	---	25
	15	4	---	25
	20	8	10	25
	25	13	16	25
	32	20	25	25
	40	32	35	25
50	50	46	55	25

Valve size (mm)	Plug size (mm)	Rated CV		Stroke (mm)
		EQ%	Linear	
65	65	75	85	40
80	80	110	135	40
100	100	185	210	40
125	125	298	345	60
150	150	385	466	60
200	200	650	735	60
250	250	960	1000	100
300	300	1300	1500	100

Aisenberg®

Model code

A	B	C	D	E	F	G	H	I	J	K	L	M
ASL	4	1	6	1	1	D	0	L4	5	3	P	14

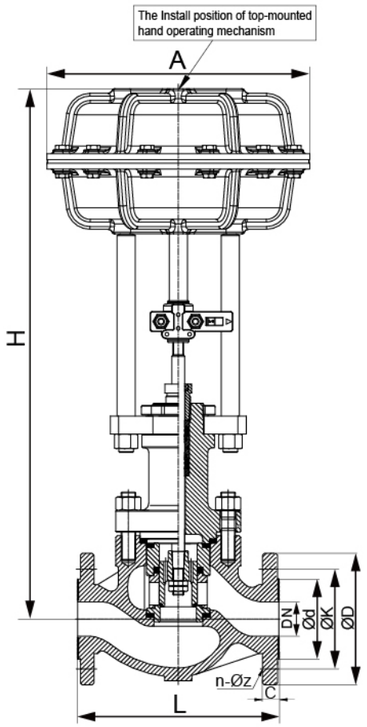
A. Product	B. Control	C. Circulation	D. Trim type	E. Bonnet type	F. Connnection
ASL=Control Valve	4=Balanced type	1=Globe structure 2=Angle structure 3=Z type structure	1=Screw in type valve seat 2=Pressing type valve seat 3=Dual spool pressure relief valve 4=Cut off 5=Sleeve double seat 6=Sleeve single seat 7=Porous type valve cage structure 8=Labyrinth valve cage structure 9=The multi-stage step-down structure	1=Standard 2=Heat dissipation 3=Bellows seal type 4=Low temperature extension type 5=Jacket	1=Flange 3=Weld 4=Thread

G. Seat	H. Depressed level	I. Actuator type	J. Pressure	K. Cylinder	L. Handwheel	M. Valve size
D=Metal	0=NONE II=2 stage III=3 stage IV=4 stage V=5 stage VI=6 stage VII=7 stage VIII=8 stage F=Diverging H=Converging	L4=Straight travel film type L6=Straight stroke cylinder A=Electric	5=Single acting normally close 6=Single acting normally open 7=Emergency cut off with double acting 8=Double acting with emergency open 9=Double acting E=220VAC Moudulated eclectric actuator EX=Explosion Proof 220VAC Moudulated eclectric actuator	2=266 3=294 4=370 5=475 6=590 02=2000N 03=3000N	P=Side D=Top 0=None	14=3/4" (DN20) 15=1" (DN25) 16=1 1/4"(DN32) 17=1 1/2"(DN40) 18=2" (DN50) 19=2 1/2" (DN65) 20=3" (DN80) 21=4" (DN100) 22=5" (DN125) 23=6" (DN150) 24=8" (DN200) 25=10" DN250 26=12" DN300

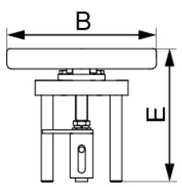
Art. ASL4-Series

Dimension

GB PN16/40/64

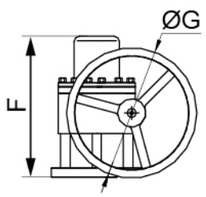


Top-mounted hand operating mechanism



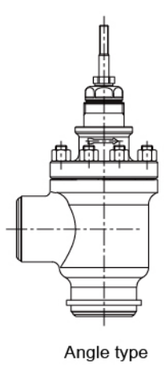
	B	E
DN50	200	200
DN80	250	216
DN100	300	264

DN40-DN100

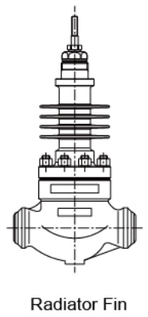


	F	G
DN150	430	400

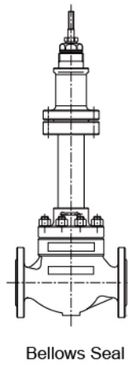
DN250-DN300



Angle type



Radiator Fin



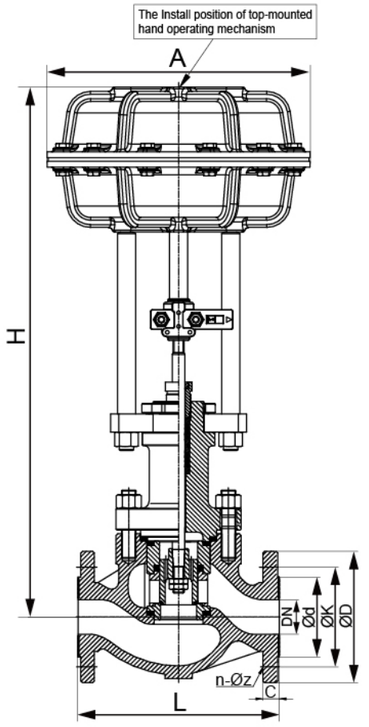
Bellows Seal

SIZE	DN	Actuator Model	A	H	PN16						PN40						PN64					
					L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz
1-1/2"	40	Ø294	294	552	222	150	110	88	18	4-Ø18	235	150	110	88	18	4-Ø18	251	170	125	88	28	4-Ø22
2"	50	Ø294	294	561	254	165	125	102	18	4-Ø18	267	165	125	102	20	4-Ø18	286	180	135	102	26	4-Ø22
2-1/2"	65	Ø370	370	676	276	185	145	122	18	8-Ø18	292	185	145	122	22	8-Ø18	311	205	160	122	26	8-Ø22
3"	80	Ø370	370	683	298	200	160	138	20	8-Ø18	317	200	160	138	24	8-Ø18	337	215	170	138	28	8-Ø22
4"	100	Ø370	370	691	352	220	180	158	20	8-Ø18	368	235	190	162	24	8-Ø22	394	250	200	162	30	8-Ø26
5"	125	Ø480	480	845	403	250	210	188	22	8-Ø18	425	270	220	188	26	8-Ø26	460	295	240	188	34	8-Ø30
6"	150	Ø480	480	861	451	285	240	212	22	8-Ø22	473	300	250	218	28	8-Ø26	508	345	280	218	36	8-Ø33
8"	200	Ø480	480	898	543	340	295	268	24	12-Ø22	568	375	320	285	34	12-Ø30	610	415	345	285	42	12-Ø36
10"	250	Ø590	590	1153	673	405	355	320	26	12-Ø26	700	450	385	345	38	12-Ø33	770	470	400	345	46	12-Ø36
12"	300	Ø590	590	1177	737	460	410	378	28	12-Ø26	775	515	450	410	42	16-Ø33	819	530	460	410	52	16-Ø36

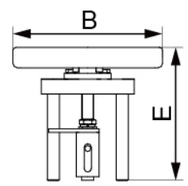
Note: The above data is for standard type, heat dispersion type, bellow type, and angular type. Please consult Aisenberg technical department.

Dimension

ASME 150LB/300LB/600LB

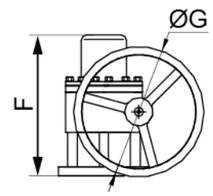


Top-mounted hand operating mechanism



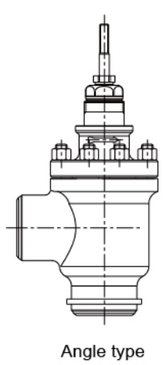
	B	E
DN50	200	200
DN80	250	216
DN100	300	264

DN40-DN100

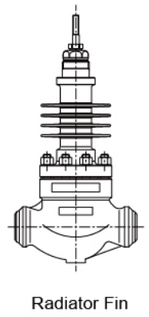


	F	G
DN150	430	400

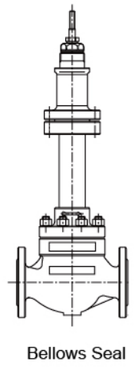
DN250-DN300



Angle type



Radiator Fin



Bellows Seal

SIZE	DN	Actuator Model	A	H	150LB						300LB						600LB					
					L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz
1-1/2"	40	Ø294	294	552	222	125	98.4	73	17.9	4-Ø16	235	155	114	73	21.1	4-Ø22	251	155	114	73	29.3	4-Ø22
2"	50	Ø294	294	561	254	150	121	92.1	19.5	4-Ø18	267	165	127	92.1	22.7	8-Ø18	286	165	127	92.1	32.4	8-Ø18
2-1/2"	65	Ø370	370	676	276	180	140	105	22.7	4-Ø18	292	190	149	105	25.9	8-Ø22	311	190	149	105	35.6	8-Ø22
3"	80	Ø370	370	683	298	190	152	127	24.3	4-Ø18	317	210	168	127	29	8-Ø22	337	210	168	127	38.8	8-Ø22
4"	100	Ø370	370	691	352	230	191	157	24.3	8-Ø18	368	255	200	157	32.2	8-Ø22	394	275	215	157	45.1	8-Ø26
5"	125	Ø480	480	845	403	255	216	186	24.3	8-Ø22	425	280	235	186	35.4	8-Ø22	460	330	267	186	51.5	8-Ø30
6"	150	Ø480	480	861	451	280	241	216	25.9	8-Ø22	473	320	270	216	37	12-Ø22	508	355	292	216	54.7	12-Ø30
8"	200	Ø480	480	898	543	345	299	270	29	8-Ø22	568	380	330	270	41.7	12-Ø26	610	420	349	270	62.6	12-Ø33
10"	250	Ø590	590	1153	673	405	362	324	30.6	8-Ø26	700	445	387	324	48.1	16-Ø30	770	510	432	324	70.5	16-Ø36
12"	300	Ø590	590	1177	737	485	432	381	32.2	12-Ø26	775	520	451	381	51.3	16-Ø33	819	560	489	381	73.7	20-Ø36

Art. ASL4-Series

ASL2 Series Unbalanced Single Seat Control Valve

Aisenberg®

Specification

DESIGN
High-load type, top-guided unbalanced structure, high strength, heavy load, S streamlined channel, multistage pressure reducing, high flow capacity. Wide adjustable range and high precision of flow characteristics. Suitable for heavy loads, common or harsh conditions, tight closure,suitable for the control of fluids or gases of various pressures and tempera-tures. Adapted to a variety of actuators to act as a regulator.

OPERATION
Handle/Electric/Pneumatic

CONNECTION
Butt Weld/Flange/Thread

PRESSURE RANGE
ANSI: CLASS150-1500LB
DIN: PN16-PN250

TEMPERATURE RANGE
Metal：-196°C - +570°C

MATERIALS
Body: WCB/WCC/
WC6/WC9/C5
CF8/CF3
CF8M/CF3M etc.

Trim: 304/304L
316/316L
410/420/440C
630/XM-19

Seat: Metal/SurfacingSTL

The above information is for reference only and Aisenberg reserves the right to alter without prior notice

Type:
ASL2
Unbalanced Single Seat Control Valve
CLASS150-1500LB
PN16-PN250
WCB/WCC
WC6/WC9/C5
CF8/CF3
CF8M/CF3M

Rated CV value and stroke

Valve size (mm)	Plug size (mm)	Rated CV		Stroke (mm)
		EQ%	Linear	
20	6	1	---	16
	8	1.5	---	16
	10	2	---	16
	15	4	--	16
	20	8	10	16
25	6	1	---	16
	8	1.5	---	16
	10	2	---	16
	15	4	---	16
	20	8	10	16
	25	13	16	16

Valve size (mm)	Plug size (mm)	Rated CV		Stroke (mm)
		EQ%	Linear	
32	32	20	25	16
40	40	32	35	25
50	50	46	55	25
65	65	75	85	40
80	80	110	135	40
100	100	185	210	40
125	125	298	345	60
150	150	385	466	60
200	200	650	735	60
250	250	960	1000	100
300	300	1300	1500	100

Aisenberg®

Model code

A	B	C	D	E	F	G	H	I	J	K	L	M
ASL	2	1	2	1	1	D	0	L4	5	2	0	14

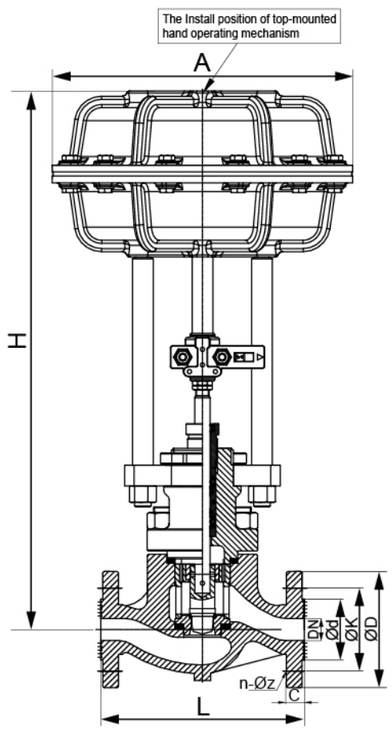
A. Product	B. Control	C. Circulation	D. Trim type	E. Bonnet type	F. Connnection
ASL=Control Valve	2=Unbalanced type 4=Balanced type	1=Globe structure 2=Angle structure 3=Z type structure	1=Screw in type valve seat 2=Pressing type valve seat 3=Dual spool pressure relief valve 4=Cut off 5=Sleeve double seat 6=Sleeve single seat 7=Porous type valve cage structure 8=Labyrinth valve cage structure 9=The multi-stage step-down structure	1=Standard 2=Heat dissipation 3=Bellows seal type 4=Low temperature extension type 5=Jacket	1=Flange 3=Weld 4=Thread

G. Seat	H. Depressed level	I. Actuator type	J. Pressure	K. Cylinder	L. Handwheel	M. Valve size
D=Metal	0=NONE II=2 stage III=3 stage IV=4 stage V=5 stage VI=6 stage VII=7 stage VIII=8 stage F=Diverging H=Converging	L6=Straight stroke cylinder A=Electric	5=Single acting normally close 6=Single acting normally open 7=Emergency cut off with double acting 8=Double acting with emergency open 9=Double acting E=220VAC Moudulated eclectric actuator EX=Explosion Proof 220VAC Moudulated eclectric actuator	2=266 3=294 4=370 5=475 6=590 02=2000N 03=3000N	P=Side D=Top 0=None	14=3/4" (DN20) 15=1" (DN25) 16=1 1/4"(DN32) 17=1 1/2"(DN40) 18=2" (DN50)

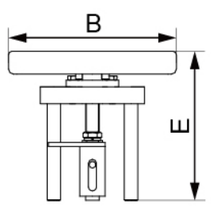
Art. ASL2-Series

Dimension

GB PN16/40/64

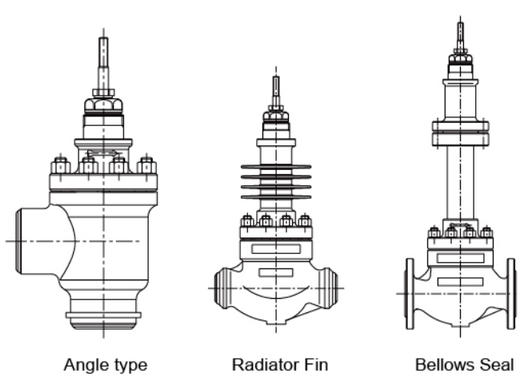


The top-mounted hand operating mechanism



	B	E
DN50	200	200
DN80	250	216
DN100	300	264

DN20-DN100

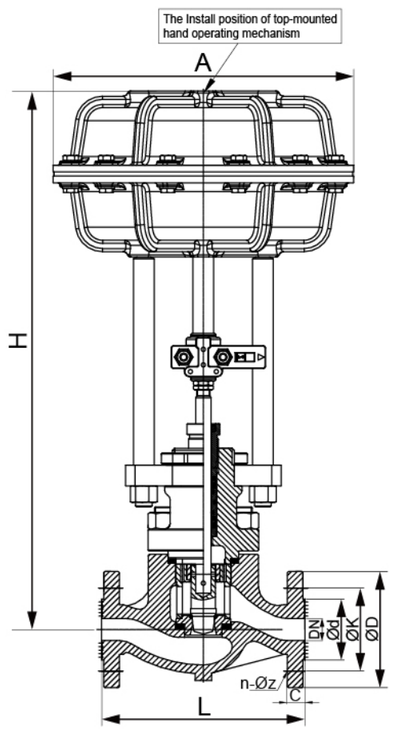


Angle type | Radiator Fin | Bellows Seal

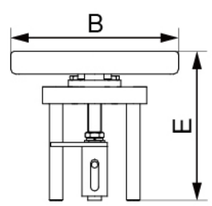
SIZE	DN	Actuator Model	A	H	PN16						PN40						PN64					
					L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz
3/4"	20	Ø226	226	468	184	105	75	58	18	4-Ø14	194	105	75	58	18	4-Ø14	206	130	90	58	22	4-Ø18
1"	25	Ø226	226	468	184	115	85	68	18	4-Ø14	197	115	85	68	18	4-Ø14	210	140	100	68	24	4-Ø18
1-1/4"	32	Ø294	294	552	222	140	100	78	18	4-Ø18	235	140	100	78	18	4-Ø18	251	155	110	78	24	4-Ø22
1-1/2"	40	Ø294	294	552	222	150	110	88	18	4-Ø18	235	150	110	88	18	4-Ø18	251	170	125	88	28	4-Ø22
2"	50	Ø294	294	561	254	165	125	102	18	4-Ø18	267	165	125	102	20	4-Ø18	286	180	135	102	26	4-Ø22
2-1/2"	65	Ø370	370	676	276	185	145	122	18	8-Ø18	292	185	145	122	22	8-Ø18	311	205	160	122	26	8-Ø22
3"	80	Ø370	370	683	298	200	160	138	20	8-Ø18	317	200	160	138	24	8-Ø18	337	215	170	138	28	8-Ø22
4"	100	Ø370	370	691	352	220	180	158	20	8-Ø18	368	235	190	162	24	8-Ø22	394	250	200	162	30	8-Ø26

Dimension

ASME 150LB/300LB/600LB

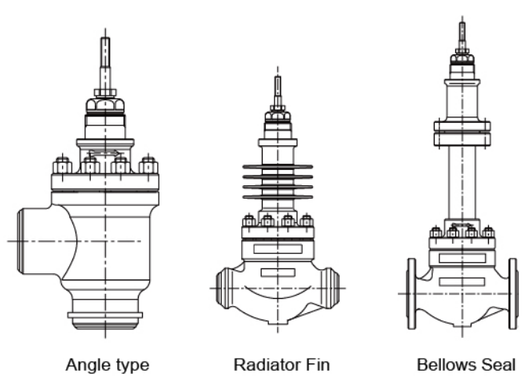


The top-mounted hand operating mechanism



	B	E
DN50	200	200
DN80	250	216
DN100	300	264

DN20-DN100



Angle type | Radiator Fin | Bellows Seal

SIZE	DN	Actuator Model	A	H	150LB						300LB						600LB					
					L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz	L	D	K	d	c	n-Øz
3/4"	20	Ø226	226	468	184	100	69.9	42.9	13.2	4-Ø16	194	115	82.6	42.9	16.3	4-Ø18	206	115	82.6	42.9	22.9	4-Ø18
1"	25	Ø226	226	468	184	110	79.4	50.8	14.7	4-Ø16	197	125	88.9	50.8	17.9	4-Ø18	210	125	88.9	50.8	24.5	4-Ø18
1-1/4"	32	Ø294	294	552	222	115	88.9	63.5	16.3	4-Ø16	235	135	98.4	63.5	19.5	4-Ø18	251	135	98.4	63.5	27.7	4-Ø22
1-1/2"	40	Ø294	294	552	222	125	98.4	73	17.9	4-Ø16	235	155	114	73	21.1	4-Ø22	251	155	114	73	29.3	4-Ø22
2"	50	Ø294	294	561	254	150	121	92.1	19.5	4-Ø18	267	165	127	92.1	22.7	8-Ø18	286	165	127	92.1	32.4	8-Ø18
2-1/2"	65	Ø370	370	676	276	180	140	105	22.7	4-Ø18	292	190	149	105	25.9	8-Ø22	311	190	149	105	35.6	8-Ø22
3"	80	Ø370	370	683	298	190	152	127	24.3	4-Ø18	317	210	168	127	29	8-Ø22	337	210	168	127	38.8	8-Ø22
4"	100	Ø370	370	691	352	230	191	157	24.3	8-Ø18	368	255	200	157	32.2	8-Ø22	394	275	215	157	45.1	8-Ø26

Art. ASL2-Series