8804.5/01-EN

Segment Ball Valve

LINOR RV Series

PN10/16/25/40
DN20-DN500 (3/4”-20”)
One-piece Trunnion Body
Wafer / Flanged ends (DIN)

Type Series Booklet



Legal information/Copyright

Type Series Booklet RV Series

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Segment Ball Valves

One-piece Segment Ball Valves



Main applications

- Spray irrigation systems
- Mining
- Chemical industry
- Fire-fighting systems
- Air-conditioning systems:

– Heating
– Ventilation
– Air-conditioning

- Industrial recirculation systems
- Cooling circuits
- Paint shops
- Paper and cellulose industry
- Pipelines and tank farms
- Snow-making systems
- Process engineering
- Washing plants
- Water treatment
- Water supply systems

Fluids handled

- Cleaning agents
- Condensate
- Cooling water
- Corrosive fluids
- Drinking water
- Fluids posing a health hazard
- Liquors (black, white, and green)
- Lubricants
- Oil
- Pulp
- River, lake and groundwater
- Service water
- Solvents
- Wash water

Operating data

Operating properties

Characteristic	Value
Nominal pressure	PN 10/16/25/40
Nominal size	DN 20-600 (3/4"-24")
Max. permissible temperature	350 °C

Body materials

Overview of available materials*

Material	Material number	Temperature limit
ASTM A 351 CF8M	1.4408	Up to 350 °C
ASTM A 351 CF8	1.4308	
ASTM A 216 WCB	1.0619	

*Other materials available upon request.

Design details

- One-piece segment ball valve
- Reduced bore
- Locking gear available
- Flanged ends to EN1092-1
- Face-to-face dimension according to ISA S75.04
- Pressure test ANSI/FCI70.2 IV/100

Product benefits

▪ Precise contouring of the V-notch provides excellent control characteristics for an extensive variety of flow applications

▪ Splined connection between the shaft and ball ensures precise control and low hysteresis.

▪ Seat retainer by side mounted, easy to change seats, means low cost for valve repairs.

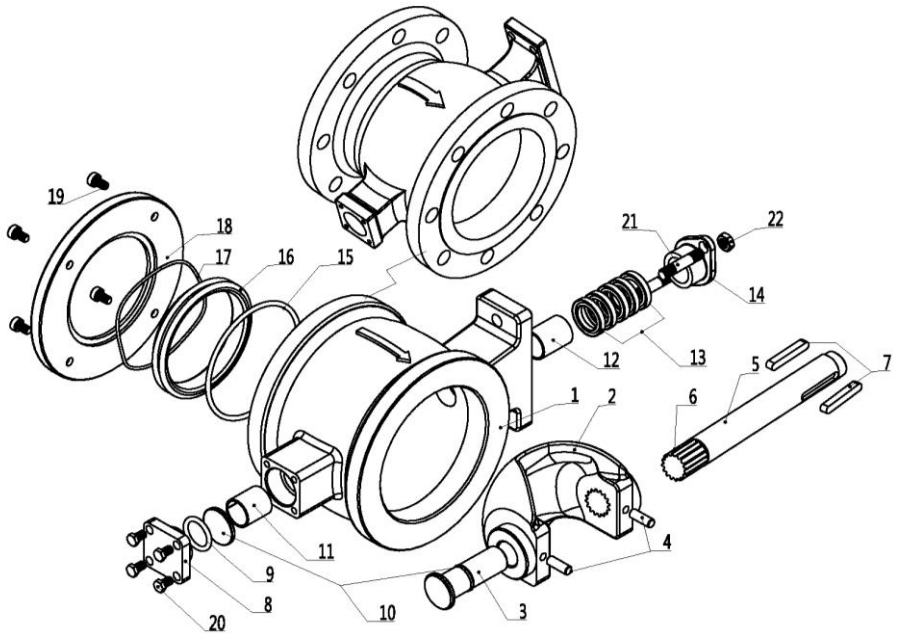
▪ Superior trunnion bearing technology is engineered for excellent abrasion resistance.

▪ Solid ball for heavy-duty applications.

On all enquiries/orders please specify:

1. Type
2. Nominal pressure
3. Nominal size
4. Operating pressure
5. Differential pressure
6. Flow rate
7. Operating temperature
8. Fluid handled
9. Pipe connection
10. Number of type series booklet

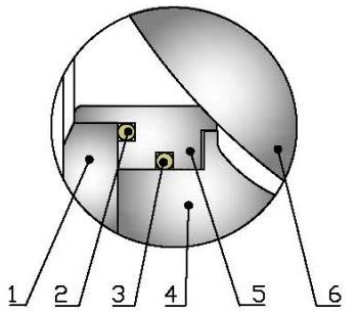
Exploded view



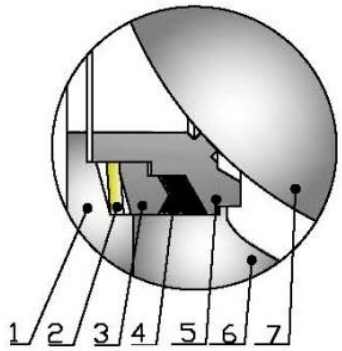
Overview of available materials

Part No.	Description	Material		
1	Body	ASTM A351 CF8M	ASTM A351 CF8	ASTM A216 WCB
2	Ball	ASTM A351 CF8M/CF8 + Hard chromium planting		
3	Lower Shaft	ANSI 316	17-4PH	
4	Cylindrical Pin	ANSI 316	ANSI 304	
5	Upper shaft	ANSI 316	17-4PH	
6	Spline	ANSI 316	17-4PH	
7	Flat Key	ANSI 304		
8	Blind Flange	ASTM A351 CF8M	ASTM A351 CF8	
9	O-ring	Viton	Graphite	
10	Gasket	PTFE	Graphite	
11	Self-lubricating Bearing	Composite Material		
12	Self-lubricating Bearing	Composite Material		
13	Packing	PTFE	Graphite	
14	Gland	ASTM A351 CF8		
15	O-ring	Viton	Graphite	
16	Seat	ANSI 316 /ANSI 304 + Stellite Surfacing	17-4PH	
17	Spring	ANSI 316/X750		
18	Retainer	ANSI 316	ANSI 304	Carbon Steel
19	Socked Head Screw	A193 B8	A193 B7	
20	Hexagon Screw	A193 B8	A193 B7	
21	Stud	A193 B8	A193 B7	
22	Hexagon Nut	A194 8	A194 2H	

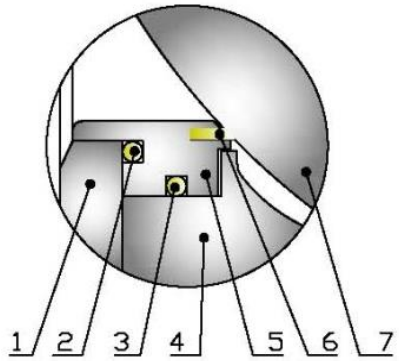
Seat seal constructions



Metal-seated		
Part No.	Description	Temp. Range
1	Retainer	-20~160℃
2	Spring	-20~230℃
3	O-ring	
4	Valve Body	
5	Metal seat	
6	Ball	



Metal-seated for high temp. application		
Part No.	Description	Temp. Range
1	Retainer	-20~350℃
2	Belleville Spring	
3	Plunge Ring	
4	Graphite Ring	
5	Metal seat	
6	Valve Body	
7	Ball	

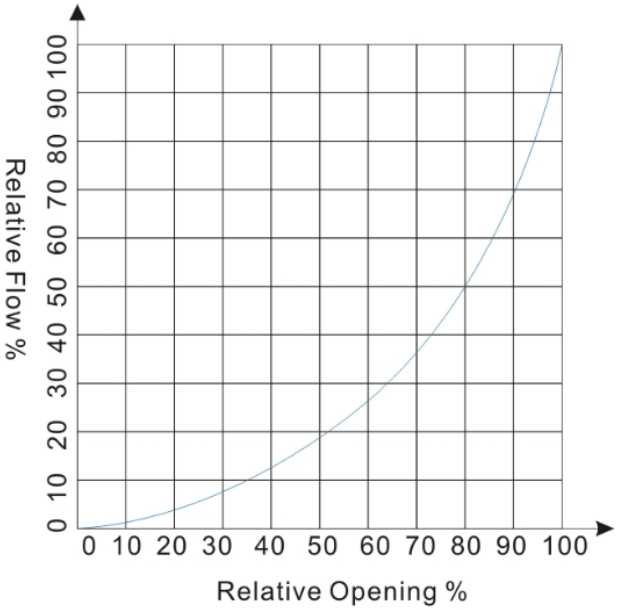


Soft-seated		
Part No.	Description	Temp. Range
1	Retainer	-20~160℃
2	Spring	
3	O-ring	
4	Valve Body	
5	Seat Body	
6	Seat Seal	
7	Ball	

Maximum Allowable Differential Pressure and Rated CV

DN	Max.shut off dp.	Max. control dp.	Rated CV
25	50	35	27
32	50	35	47
40	50	35	70
50	50	35	135
65	50	35	210
80	50	35	390
100	40	25	560
125	40	25	790
150	40	25	1130
200	35	25	1860
250	35	20	2900
300	30	10	4320
350	30	10	6640
400	30	10	8000

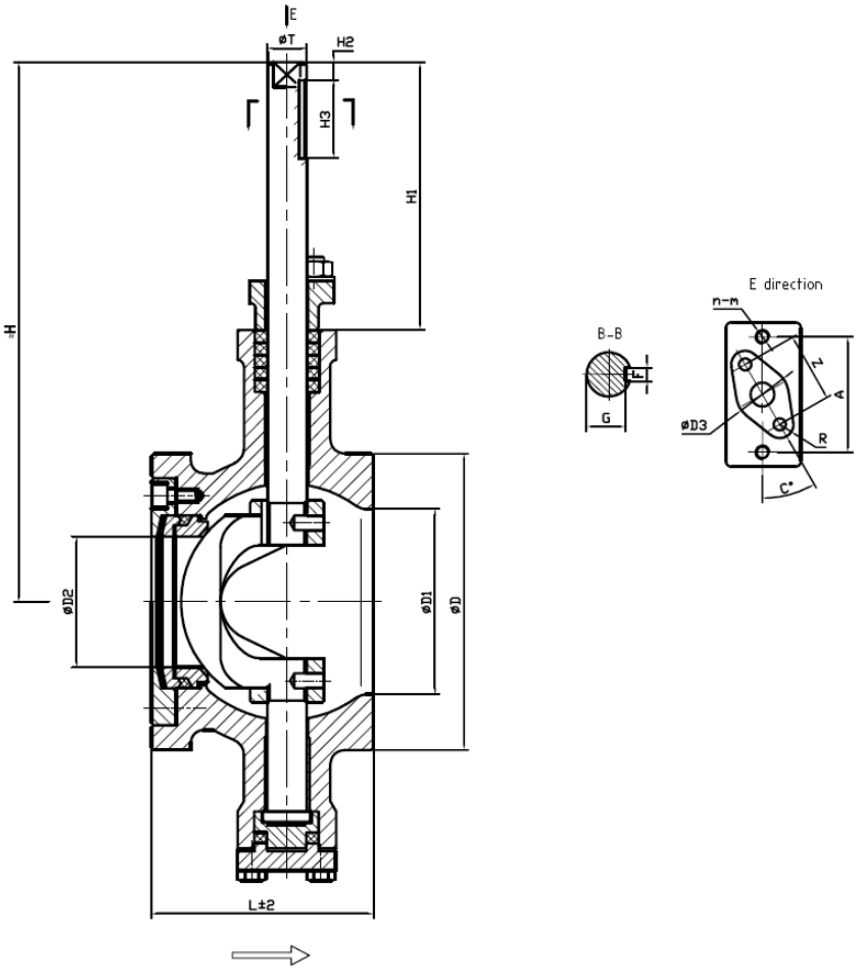
Equal Percentage Inherent Flow Characteristic



Dimensional drawings of Linor segment ball valves with high temperature seat

Drawing no.	Actuator	Pressure class	Connection type	Sizes
1	bare shaft	PN16	wafer	DN25-250
2	bare shaft	PN16	flanged	DN25-600
3	bare shaft	PN40	flanged	DN25-500
4	double-acting	PN16	wafer	DN25-250
5	double-acting	PN40	wafer	DN25-65
6	single-acting	PN16	wafer	DN25-250
7	single-acting	PN40	wafer	DN25-65
8	double-acting	PN16	flanged	DN25-350
9	double-acting	PN16	flanged	DN400-600
10	double-acting	PN40	flanged	DN25-200
11	double-acting	PN40	flanged	DN250-500
12	single-acting	PN16	flanged	DN25-250
13	single-acting	PN16	flanged	DN300-600
14	single-acting	PN40	flanged	DN50-150
15	single-acting	PN40	flanged	DN200-500

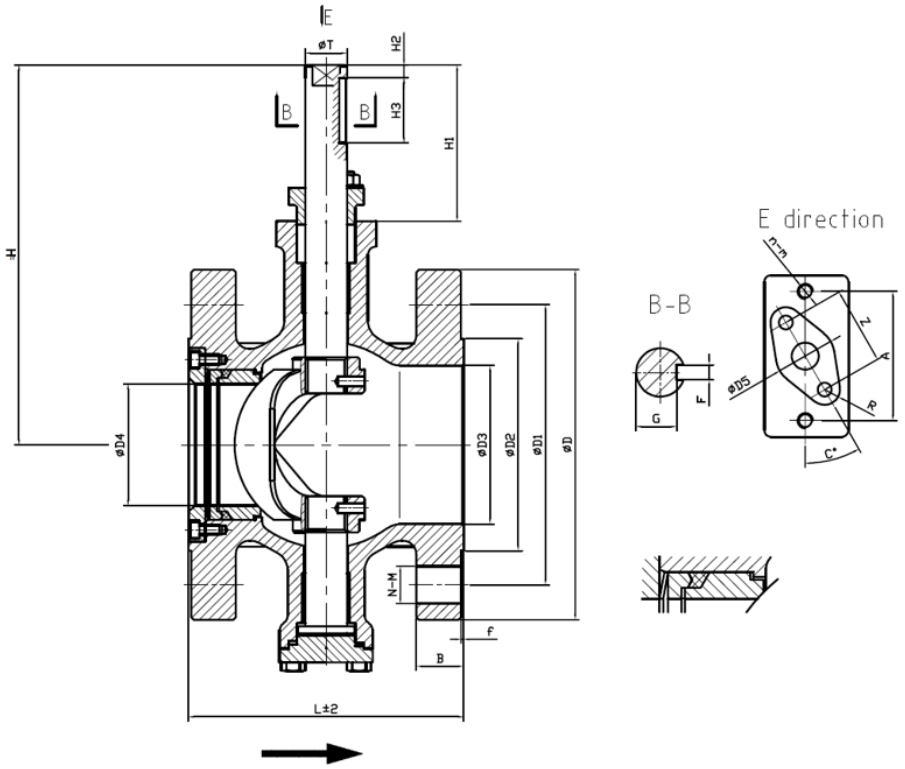
Drawing no. 1: **Dimensions of Linor segment ball valve with high temperature seat bare shaft, PN16, wafer type, sizes DN25-250**



Dimensions in mm

DN	L	ØD	ØD1	ØD2	H	H1	H2	H3	ØT	G	F	A	Z	R	ØD3	C°	n-m	[kg]
25	62	68	38	20	185	110	5	25	16	13	5	80	40	R8	28	30	2-M10	2.7
32	62	78	44	25	192.5	112.5	5	25	16	13	5	80	40	R8	28	30	2-M10	3
40	62	85	52	32	195	110	5	25	16	13	5	80	40	R8	28	30	2-M10	3.5
50	75	100	60	42	197	107	5	25	16	13	5	80	40	R8	28	30	2-M10	4.2
65	90	120	75	53	218	108	5	25	16	13	5	80	40	R8	28	30	2-M10	6
80	100	130	99	71	234	115	5	25	20	16.5	6	90	44	R9	32	30	2-M12	7.5
100	115	158	118	86	240	109	5	25	20	16.5	6	90	44	R9	32	30	2-M12	11
125	135	184	140	107	270	120	5	35	25	21	8	90	50	R10	38	40	4-M10	15.5
150	160	216	167	128	314	136	5	40	30	25	10	100	58	R11	44	40	4-M12	25
200	200	268	210	162	341	136	5	40	30	25	10	100	58	R11	44	40	4-M12	39
250	240	322	267	206	406	166	5	50	40	35	12	130	68	R11	56	50	4-M16	64

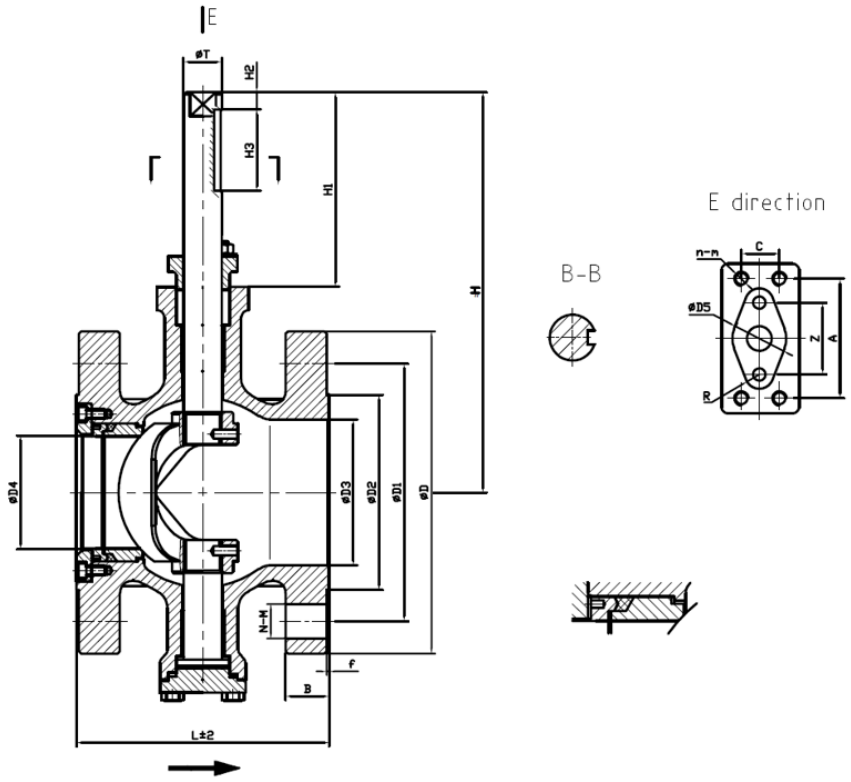
Drawing no. 2: **Dimensions of Linor segment ball valve with high temperature seat bare shaft, PN16, flanged type, sizes DN25-600**



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N- ØM	H	H1	H2	H3	ØT	G	F	A	Z	R	ØD5	C°	n-m	[kg]
25	102	115	85	68	38	20	16	2	4-14	185	107	5	25	16	13	5	80	40	R8	28	30	2-M10	4
32	102	140	100	78	48	25	18	2	4-18	192	107	5	25	16	13	5	80	40	R8	28	30	2-M10	5.5
40	114	150	110	88	52	32	18	2	4-18	195	110	5	25	16	13	5	80	40	R8	28	30	2-M10	6
50	124	165	125	102	60	42	20	2	4-18	198	105	5	25	16	13	5	80	40	R8	28	30	2-M10	7.5
65	145	185	145	122	80	53	20	2	8-18	218	106	5	25	16	13	5	80	40	R8	28	30	2-M10	9.5
80	165	200	160	138	99	73	20	2	8-18	234	115	5	25	20	16.5	6	90	44	R9	32	30	2-M12	14
100	194	220	180	158	118	86	22	2	8-18	240	109	5	25	20	16.5	6	90	44	R9	32	30	2-M12	21.5
125	213	250	210	188	138	107	22	2	8-18	270	120	5	35	25	21	8	90	50	R10	38	40	4-M10	23
150	229	285	240	212	167	128	22	2	8-22	314	136	5	40	30	25	10	100	58	R11	44	40	4-M12	37
200	243	340	295	268	210	162	24	2	12-22	341	136	5	40	30	25	10	100	58	R11	44	40	4-M12	58
250	297	405	355	320	267	206	26	2	12-26	406	166	5	50	40	35	12	130	68	R11	56	50	4-M16	85
300	338	460	410	378	310	236	28	2	12-26	435	166	5	50	40	35	12	130	68	R11	56	50	4-M16	131
350	400	520	470	438	365	294	30	2	16-26	511	182	8	60	50	44	16	134	102	R16	75	64	4-M16	199
400	425	580	525	480	410	340	32	2	16-30	626	245	8	80	60	53	18	175	120	R16	90	70	4-M20	345
450	520	640	585	550	460	385	40	2	20-30	690	255	8	90	70	62.5	20	210	130	R17	100	90	4-M24	510
500	600	715	650	610	516	425	44	2	20-33	750	255	8	90	80	71	22	210	145	R20	104	90	4-M24	607
600	680	840	770	720	620	500	54	2	20-36	845	285	10	110	85	76	22	230	145	R20	110	90	4-M27	720

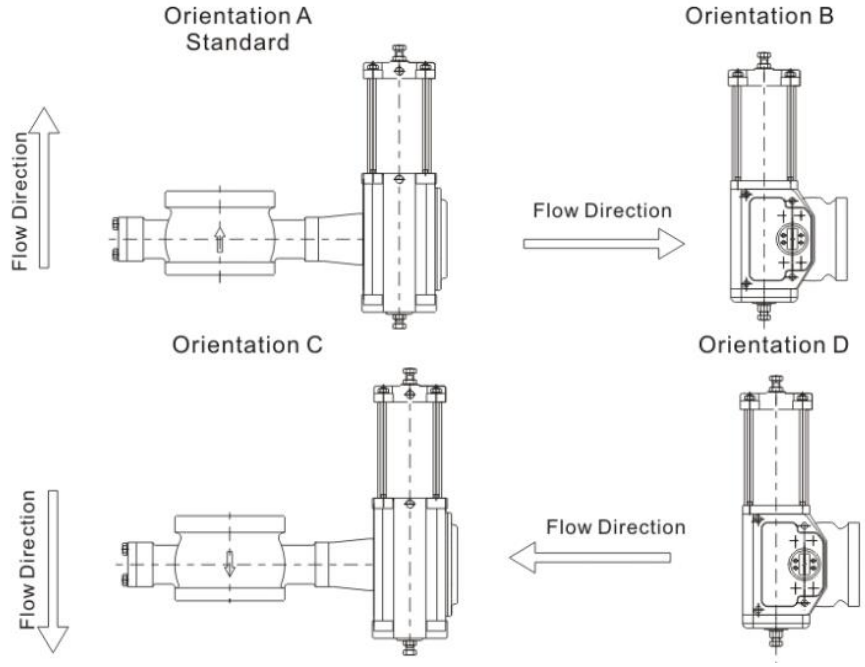
Drawing no. 3: **Dimensions of Linor segment ball valve with high temperature seat bare shaft, PN40, flanged type, sizes DN25-500**



Dimensions in mm

DN	L	Ø D	ØD1	Ø D2	Ø D3	Ø D4	B	f	N- Ø M	H	H1	H2	H3	Ø T	G	F	A	Z	Ø D5	C°	Q	[kg]
25	102	115	85	68	38	20	16	2	4-14	185	107	5	25	16	13	5	80	40	28	30	2-M10	4
32	102	140	100	78	48	25	18	2	4-18	192.5	107.5	5	25	16	13	5	80	40	28	30	2-M10	5.5
40	114	150	110	88	52	32	18	2	4-18	195	110	5	25	16	13	5	80	40	28	30	2-M10	7
50	124	165	125	102	60	42	20	2	4-18	210	110	5	25	16	13	5	80	40	28	30	2-M10	10
65	145	185	145	122	80	53	20	2	8-18	218	106	5	25	16	13	5	80	40	28	30	2-M10	15
80	165	200	160	138	99	71	24	2	8-18	254	120	5	35	25	21	8	90	50	38	40	4-M10	18
100	194	235	190	162	118	83	24	2	8-22	262	120	5	35	25	21	8	90	50	38	40	4-M10	25
125	213	270	220	188	138	107	26	2	8-26	270	120	5	35	25	21	8	130	68	56	50	4-M16	40
150	229	300	250	218	167	126	28	2	8-26	367	166	5	50	40	35	12	130	68	56	50	4-M16	53
200	243	375	320	285	210	158	34	2	12-30	384	166	5	50	40	35	12	130	68	56	50	4-M16	80
250	297	445	385	345	264	202	38	2	12-33	499	244	8	60	50	44	16	175	102	75	70	4-M20	138
300	338	515	450	410	310	234	42	2	16-33	515	224	8	60	50	38	16	175	102	75	70	4-M20	200
350	400	580	510	465	365	290	46	2	16-36	600	245	10	80	60	46	18	175	120	90	70	4-M20	296
400	480	660	585	535	415	325	50	2	16-39	625	245	10	90	70	55	20	210	130	100	90	4-M24	425
500	630	755	670	615	510	404	57	2	20-39	805	285	10	110	85	67	25	230	145	100	90	4-M27	765

Multiple Orientations Available

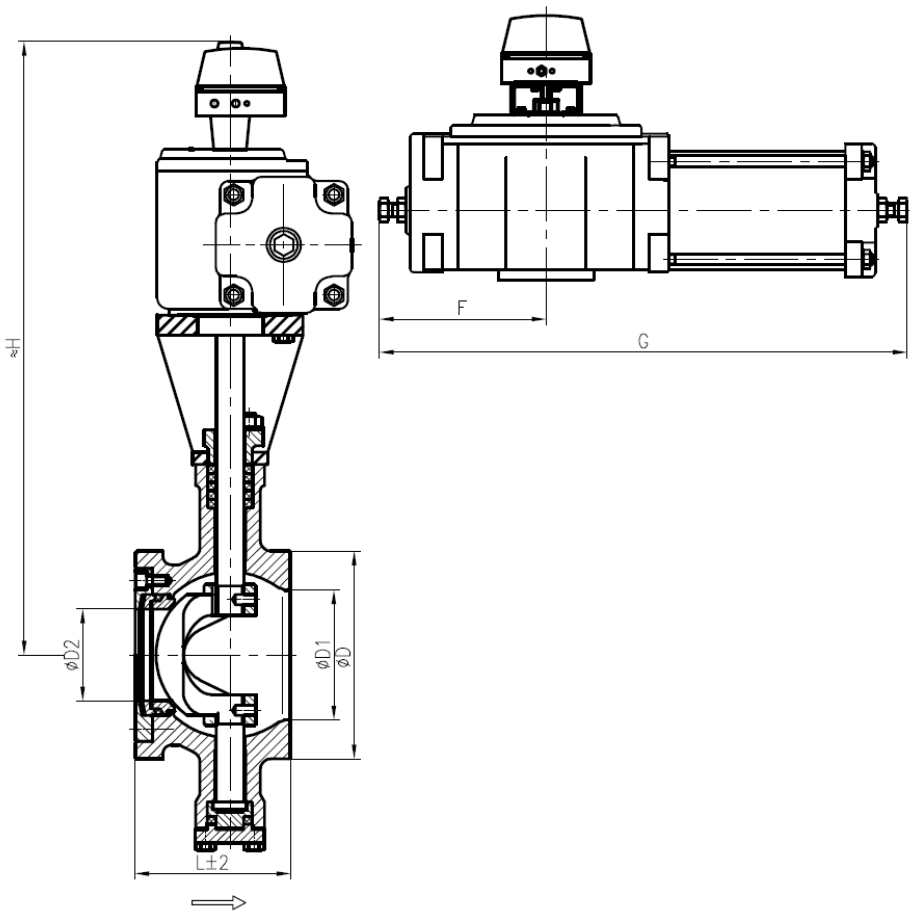


Actuator Sizing

DN	Operation Torque PN16（N.m）	Operation Torque PN40 (N.m)	Air Supply Pressure
	1.6MPa	4MPa	（MPa）
25	30	55	0.5~0.7
32	38	62	
40	42	70	
50	46	85	
65	62	125	
80	85	160	
100	130	220	
125	200	380	
150	275	560	
200	470	1000	
250	760	2000	
300	1150	2600	

Note: ZSQ and ZDQ series piston actuators are manufactured by Linuo. The actuators above are recommended for valves of pressure PN16, PN40 and temp. -20~230°C, with minimum air supply pressure of 5 bar.

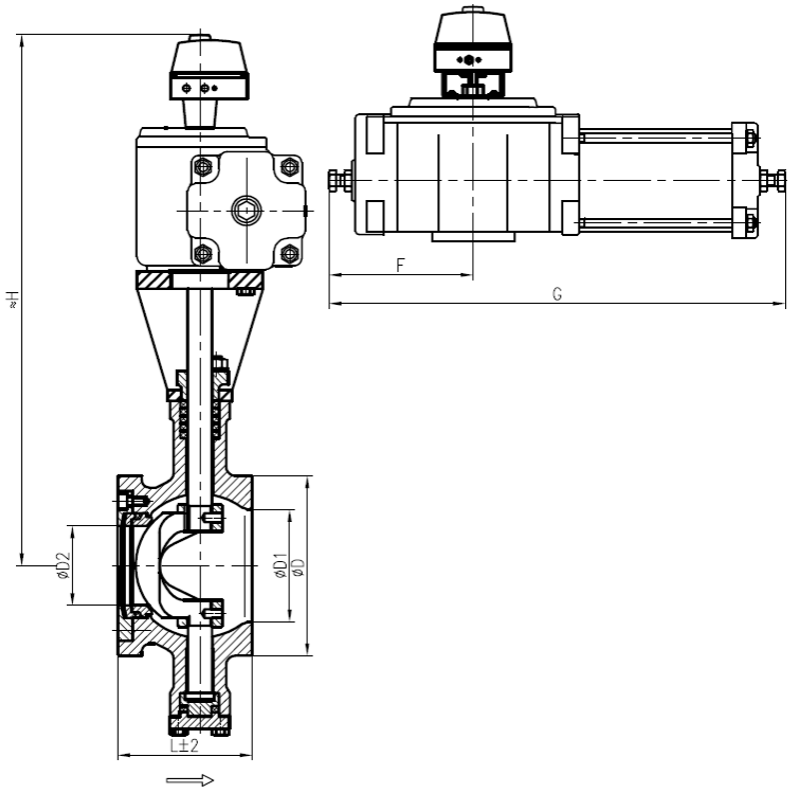
Drawing no. 4: **Dimensions of Linor segment ball valve with high temperature seat double-acting, PN16, wafer type, sizes DN25-250**



Dimensions in mm

DN	L	ØD	ØD1	ØD2	H	G	F	Actuator	[kg]
25	62	68	38	20	460	410	105	ZSQ41-80	9.5
32	62	78	44	25	465	410	105	ZSQ41-80	10
40	62	85	52	32	470	410	105	ZSQ41-80	10.8
50	75	100	60	42	475	430	130	ZSQ41-100	12.5
65	90	120	75	53	495	430	130	ZSQ41-100	14.2
80	100	130	99	73	515	430	130	ZSQ41-125	19.5
100	115	158	118	86	535	485	150	ZSQ50-125	24.4
125	135	184	140	107	555	485	150	ZSQ50-125	28.2
150	160	216	167	128	595	520	150	ZSQ50-160	45
200	200	268	210	162	655	580	150	ZSQ60-200	63
250	240	322	267	206	710	750	175	ZSQ80-200	107

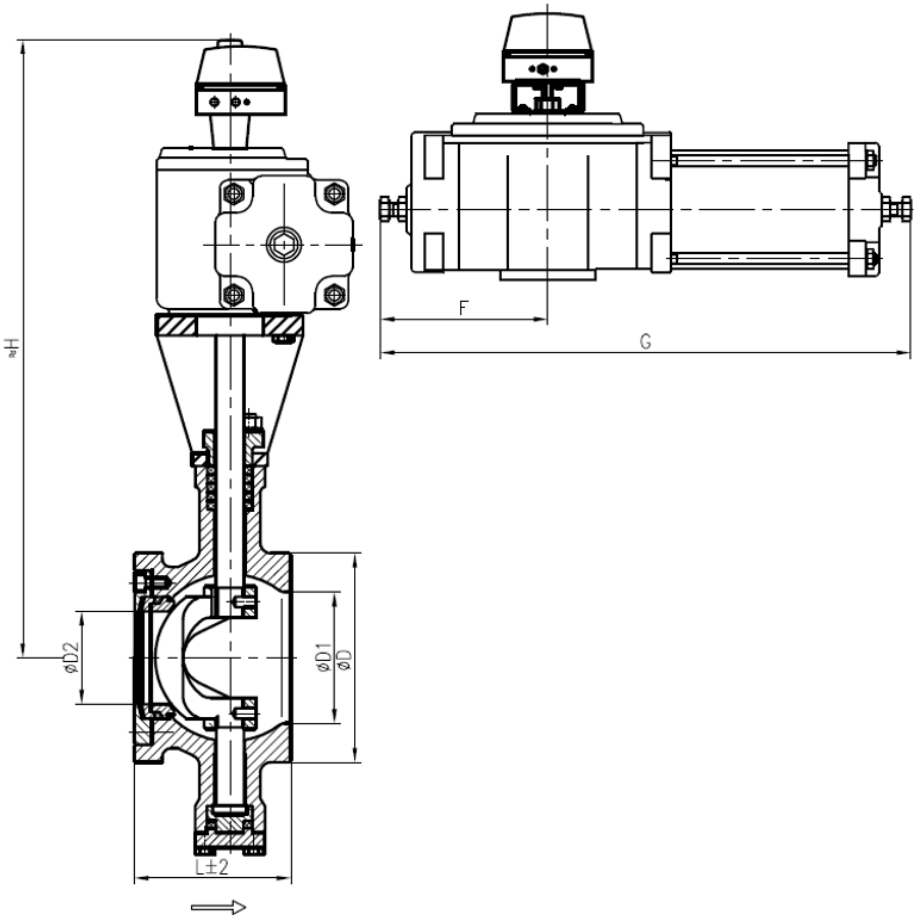
Drawing no. 5: **Dimensions of Linor segment ball valve with high temperature seat double-acting, PN40, wafer type, sizes DN25-65**



Dimensions in mm

DN	L	ØD	ØD1	ØD2	H	G	F	Actuator	[kg]
25	62	68	38	20	460	410	130	ZSQ41-80	9.5
32	62	78	44	25	465	430	130	ZSQ41-100	11
40	62	85	52	32	470	430	130	ZSQ41-100	12
50	75	100	60	42	485	475	150	ZSQ50-100	14.5
65	90	120	75	53	505	475	150	ZSQ50-100	16.5

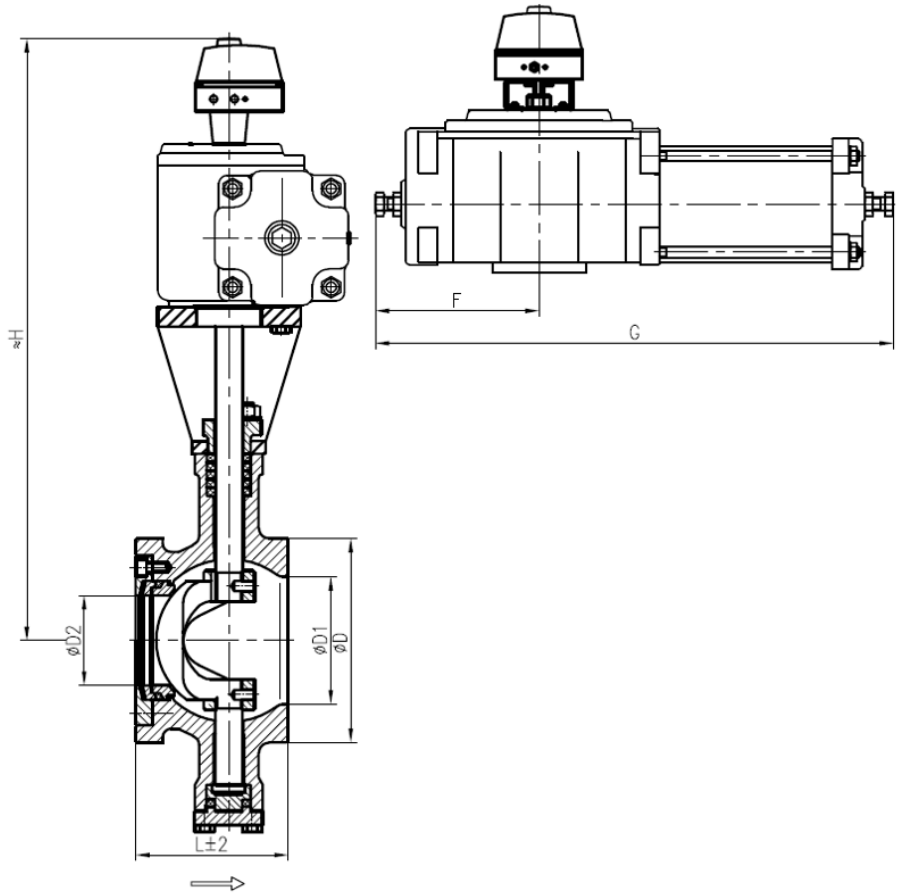
Drawing no. 6: **Dimensions of Linor segment ball valve with high temperature seat single-acting, PN16, wafer type, sizes DN25-250**



Dimensions in mm

DN	L	ØD	ØD1	ØD2	H	G	F	Actuator	[kg]
25	62	68	38	20	460	550	130	ZDQ41-100	19
32	62	78	44	25	465	550	130	ZDQ41-100	19.5
40	62	85	52	32	470	560	130	ZDQ41-125	20
50	75	100	60	42	475	560	130	ZDQ41-125	21
65	90	120	75	53	505	660	150	ZDQ50-125	23
80	100	130	99	73	525	700	150	ZDQ50-160	34.5
100	115	158	118	86	570	780	175	ZDQ60-160	40
125	135	184	140	107	590	790	175	ZDQ60-200	46
150	160	216	167	128	670	970	245	ZDQ80-200	65
200	200	268	210	162	695	990	245	ZDQ80-250	105
250	240	322	267	206	780	1230	300	ZDQ100-300	175

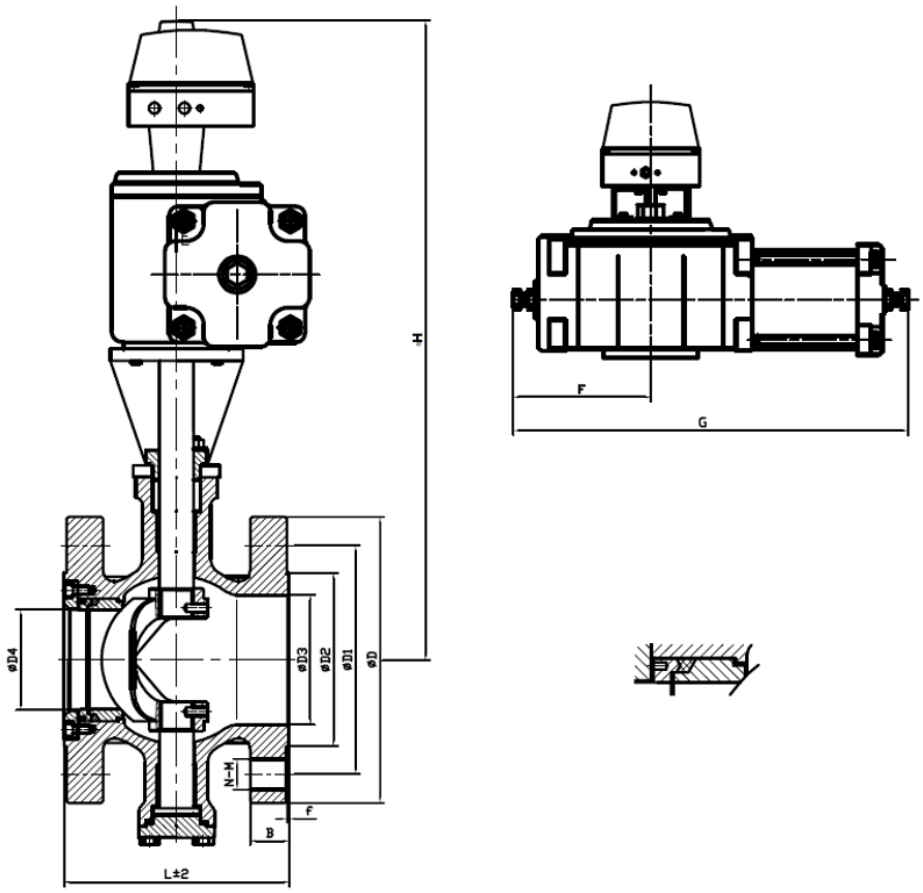
Drawing no. 7: **Dimensions of Linor segment ball valve with high temperature seat single-acting, PN40, wafer type, sizes DN25-65**



Dimensions in mm

DN	L	ØD	ØD1	ØD2	H	G	F	Actuator	[kg]
25	62	68	38	20	470	660	150	ZDQ50-125	23
32	62	78	44	25	475	700	150	ZDQ50-160	33
40	62	85	52	32	480	700	150	ZDQ50-160	34
50	75	100	60	42	495	700	150	ZDQ50-160	34.5
65	90	120	75	53	540	790	175	ZDQ60-200	62

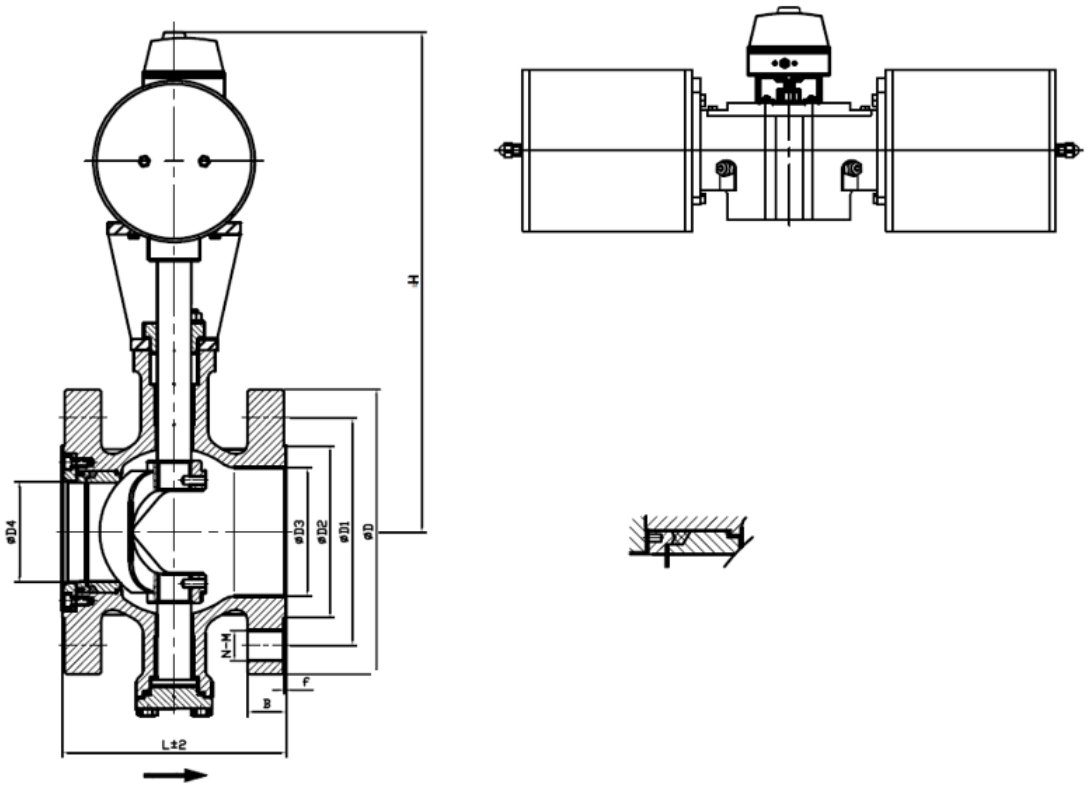
Drawing no. 8: **Dimensions of Linor segment ball valve with high temperature seat double-acting, PN16, flanged type, sizes DN25-350**



Dimensions in mm

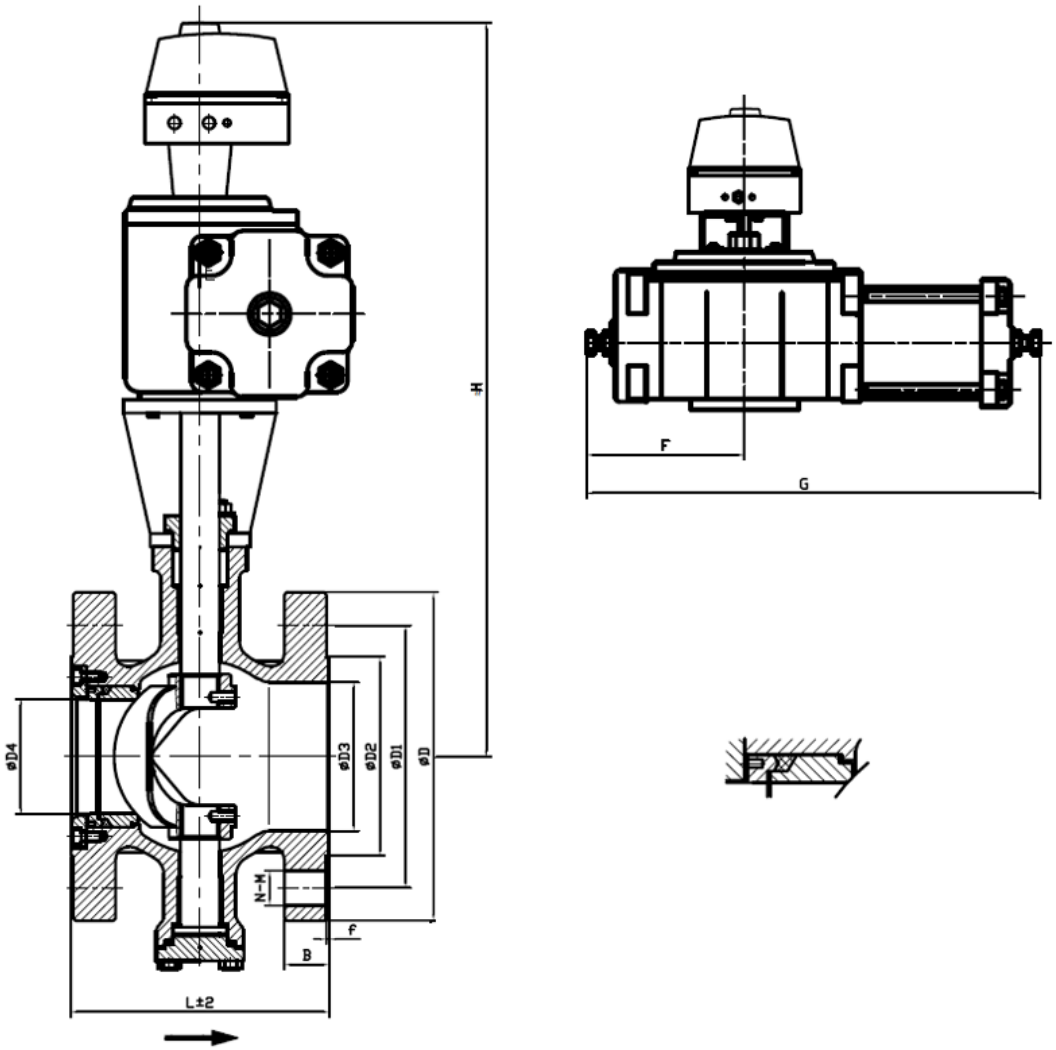
DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	F	Actuator	[kg]
25	102	115	85	68	38	20	16	2	4-14	465	410	130	ZSQ41-80	13
32	102	140	100	78	48	25	18	2	4-18	470	410	130	ZSQ41-80	15
40	114	150	110	88	52	32	18	2	4-18	470	410	130	ZSQ41-80	17
50	124	165	125	102	60	42	20	2	4-18	480	430	130	ZSQ41-100	19
65	145	185	145	122	80	53	20	2	8-18	500	430	130	ZSQ41-100	21
80	165	200	160	138	99	73	20	2	8-18	515	430	130	ZSQ41-125	25
100	194	220	180	158	118	86	22	2	8-18	530	485	150	ZSQ50-125	33
125	213	250	210	188	138	107	22	2	8-18	555	485	150	ZSQ50-125	40
150	229	285	240	212	167	128	22	2	8-22	595	520	150	ZSQ50-160	58
200	243	340	295	268	210	162	24	2	12-22	655	580	175	ZSQ60-200	92
250	297	405	355	320	264	206	26	2	12-26	750	750	245	ZSQ80-200	113
300	338	460	410	378	310	236	28	2	12-26	780	780	245	ZSQ80-250	193
350	400	520	470	438	365	294	30	2	16-26	870	925	300	ZSQ100-300	285

Drawing no. 9: **Dimensions of Linor segment ball valve with high temperature seat double-acting, PN16, flanged type, sizes DN400-600**



DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	ØA	Actuator	[kg]
400	425	580	525	480	410	340	32	2	16-30	970	1110	216	BRB20	335
450	520	640	585	550	460	385	40	2	20-30	1050	1110	270	BRB25	510
500	600	715	650	610	516	425	44	2	20-33	1110	1110	270	BRB25	610
600	680	840	770	720	620	500	54	2	20-36	1250	1390	297	BRC28	720

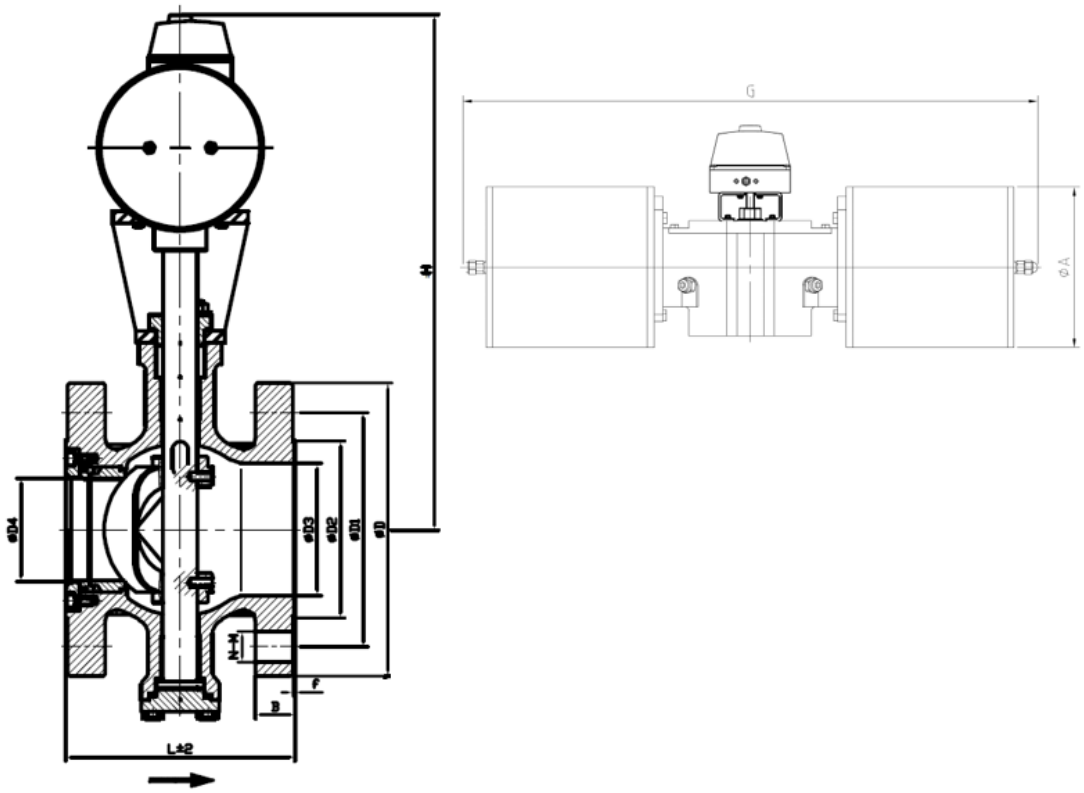
Drawing no. 10: Dimensions of Linor segment ball valve with high temperature seat double-acting, PN40, flanged type, DN25-200



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	F	Actuator	[kg]
25	102	115	85	68	38	20	16	2	4-14	465	410	130	ZSQ41-80	11
32	102	140	100	78	48	25	18	2	4-18	470	430	130	ZSQ41-100	14
40	114	150	100	88	52	32	20	2	4-18	470	430	130	ZSQ41-100	15
50	124	165	125	102	60	42	20	2	4-18	485	430	130	ZSQ41-100	18
65	145	185	145	122	80	53	20	2	8-18	510	475	150	ZSQ50-100	25
80	165	200	160	138	99	73	24	2	8-18	530	485	150	ZSQ50-125	30
100	194	235	190	162	118	86	24	2	8-22	550	520	150	ZSQ50-160	41
125	229	270	220	188	138	107	26	2	8-26	590	580	175	ZSQ60-200	69
150	229	300	250	218	167	125	28	2	8-26	670	580	175	ZSQ60-200	82
200	243	375	320	285	210	157	34	2	12-30	730	780	245	ZSQ80-250	163

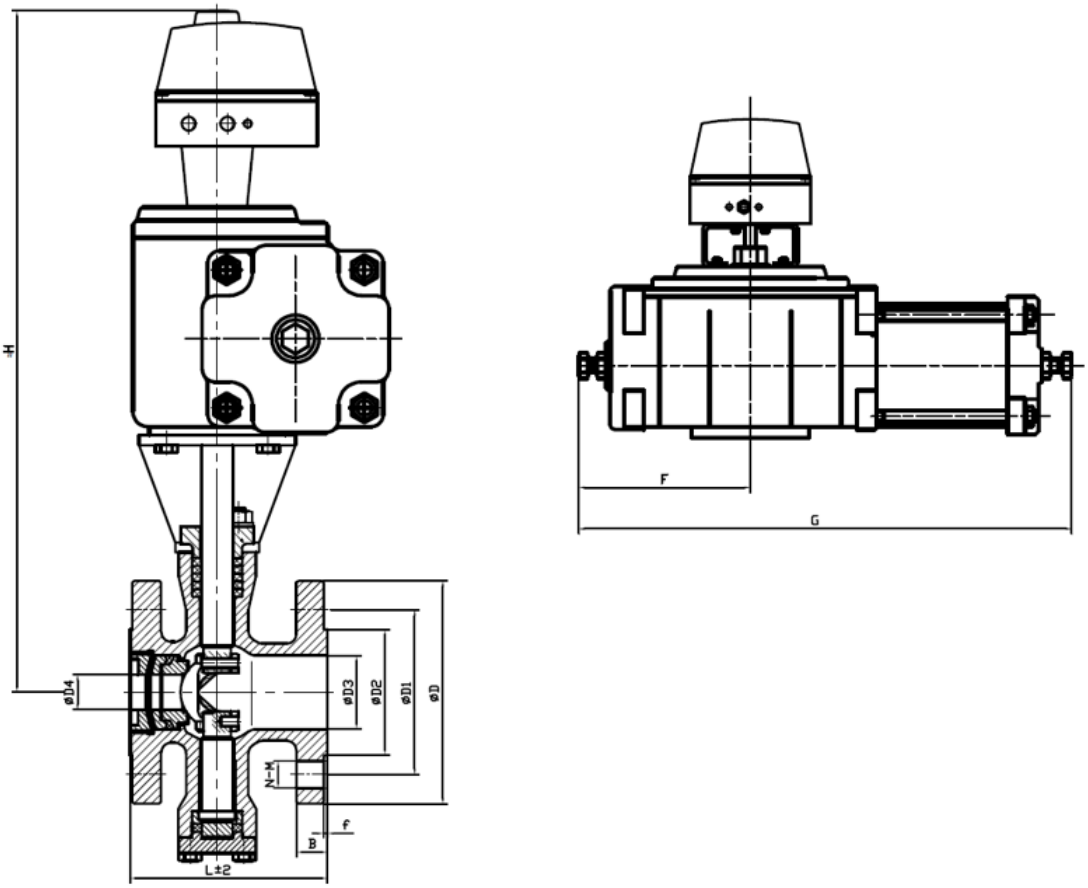
Drawing no. 11: Dimensions of Linor segment ball valve with high temperature seat double-acting, PN40, flanged type, DN250-500



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	ØA	Actuator	[kg]
250	297	445	385	345	264	200	38	2	12-33	815	812	216	BRA20	221
300	338	515	450	410	310	230	42	2	16-33	850	1110	216	BRB20	325
350	400	580	510	465	365	290	46	2	16-36	995	1110	270	BRB25	451
400	480	660	585	535	415	325	50	2	16-39	1015	1110	297	BRB28	593
500	630	755	670	615	510	404	57	2	20-39	1210	1390	370	BRC35	1120

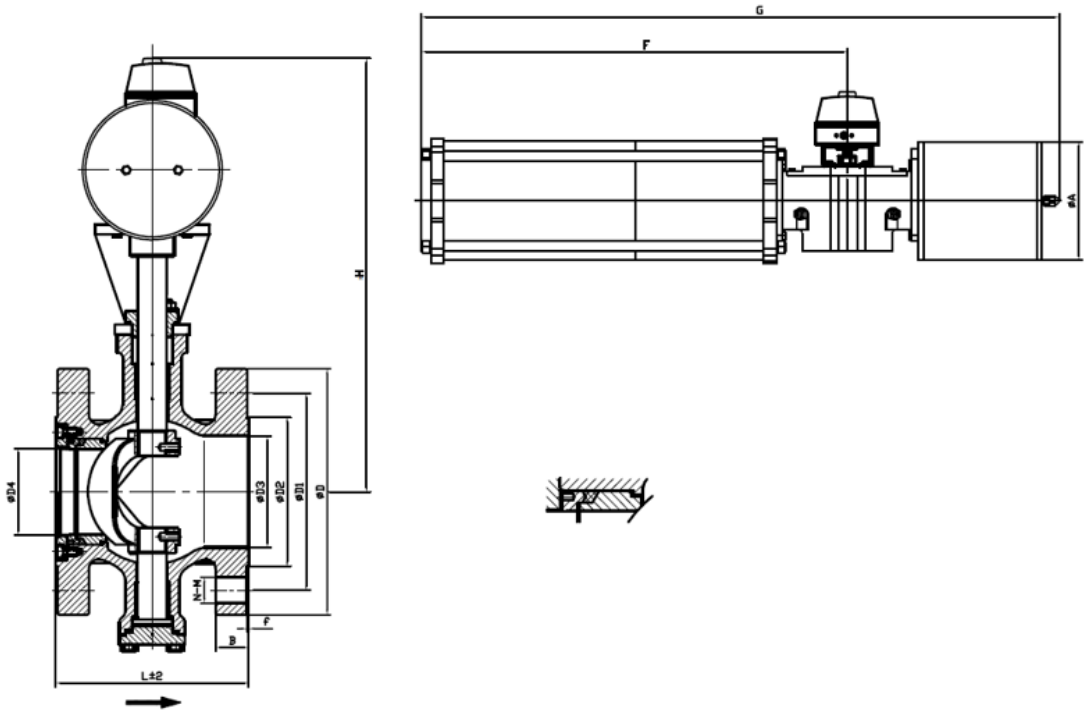
Drawing no. 12: Dimensions of Linor segment ball valve with high temperature seat single-acting, PN16, flanged type, sizes DN25-250



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	F	Actuator	[kg]
25	102	115	85	68	38	20	16	2	4-14	465	550	130	ZDQ41-100	23
32	102	140	100	78	48	25	18	2	4-18	470	550	130	ZDQ41-100	25
40	114	150	110	88	52	32	18	2	4-18	470	560	130	ZDQ41-125	27
50	124	165	125	102	60	40	20	2	4-18	480	560	130	ZDQ41-125	28
65	145	185	145	122	80	52	20	2	8-18	510	660	150	ZDQ50-125	32
80	165	200	160	138	99	71	20	2	8-18	525	700	150	ZDQ50-160	37
100	194	220	180	158	118	85	22	2	8-18	570	780	175	ZDQ60-160	40
125	213	250	210	188	138	100	22	2	8-18	590	790	175	ZDQ60-160	50
150	229	285	240	212	167	138	22	2	8-22	670	970	245	ZDQ80-200	73
200	243	340	295	268	210	167	24	2	12-22	695	990	245	ZDQ80-250	118
250	297	405	355	320	264	206	26	2	12-26	780	1230	300	ZDQ100-300	195

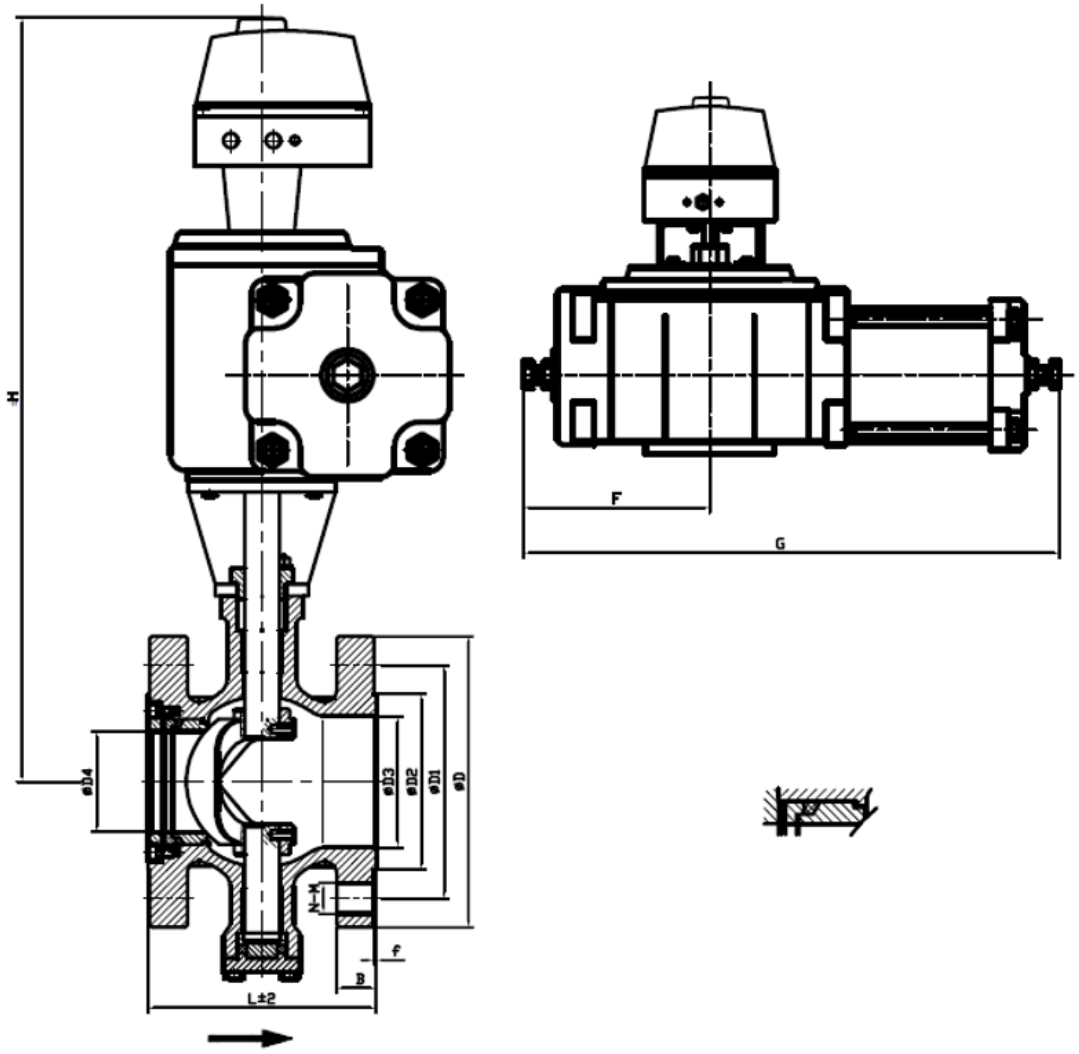
Drawing no. 13: Dimensions of Linor segment ball valve with high temperature seat single-acting, PN16, flanged type, sizes DN300-600



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	F	A	Actuator	[kg]
300	338	460	410	378	310	236	28	2	12-26	800	1500	945	216	BRB20S	296
350	400	520	470	438	365	294	30	2	16-26	940	1500	945	270	BRB25S	428
400	425	580	525	480	410	340	32	2	16-30	970	1520	965	297	BRB28S	627
450	520	640	585	550	460	385	40	2	20-30	1090	2040	1345	370	BRC35S	1030
500	600	715	650	610	516	425	44	2	20-33	1150	2040	1345	370	BRC35S	1135
600	680	840	770	720	620	500	54	2	20-36	1250	2050	1355	475	BRC45S	1400

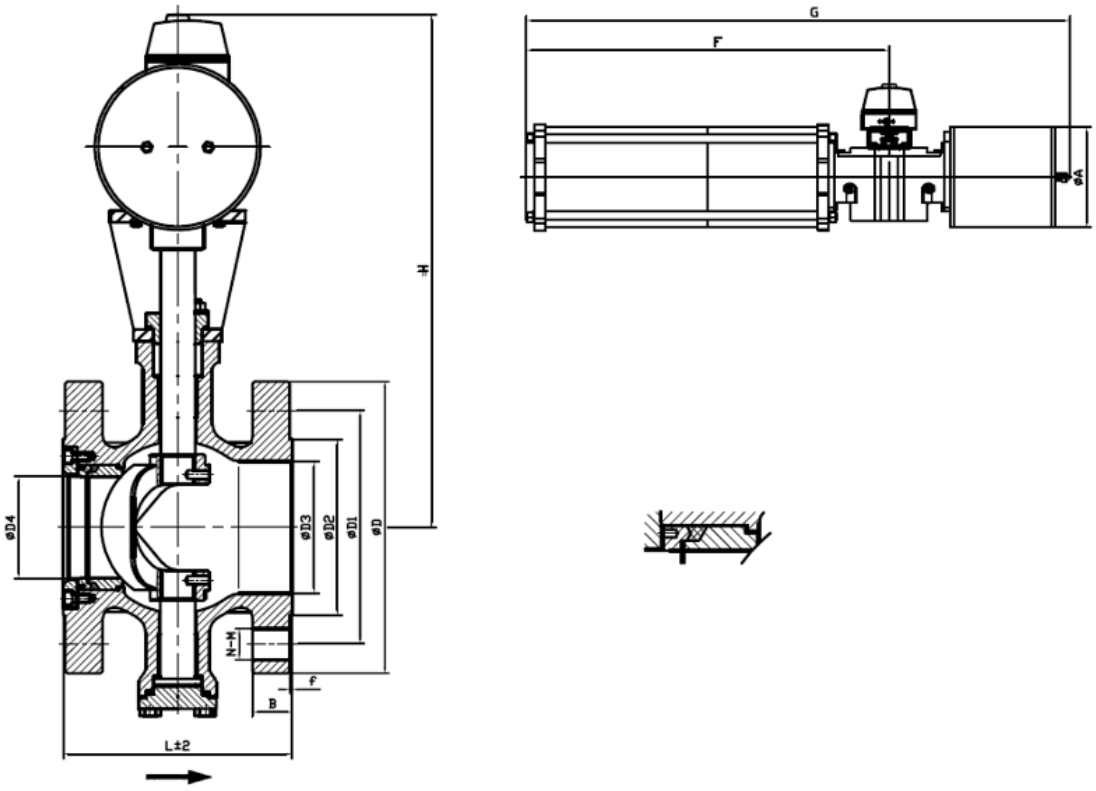
Drawing no. 14: Dimensions of Linor segment ball valve with high temperature seat single-acting, PN40, flanged type, sizes DN50-150



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	F	Actuator	[kg]
25	102	115	85	68	38	20	16	2	4-14	475	660	150	ZDQ50-125	25
32	102	140	100	78	48	25	18	2	4-18	480	700	150	ZDQ50-160	35
40	114	150	110	88	52	32	18	2	4-18	480	700	150	ZDQ50-160	37
50	124	165	125	102	60	42	20	2	4-18	495	700	150	ZDQ50-160	40
65	145	185	145	122	80	52	20	2	8-18	545	780	175	ZDQ60-160	73
80	165	200	160	138	99	73	24	2	8-18	575	790	175	ZDQ60-200	74
100	194	235	190	162	118	86	24	2	8-22	620	990	245	ZDQ80-250	157
125	213	270	220	188	138	107	26	2	8-26	630	1030	245	ZDQ80-300	220
150	229	300	250	218	167	125	28	2	8-26	745	1230	300	ZDQ100-300	290

Drawing no. 15: Dimensions of Linor segment ball valve with high temperature seat single-acting, PN40, flanged type, sizes DN200-500



Dimensions in mm

DN	L	ØD	ØD1	ØD2	ØD3	ØD4	B	f	N-ØM	H	G	F	ØA	Actuator	[kg]
200	243	375	320	285	210	157	34	2	12-30	755	1500	945	270	BRB25S	322
250	297	445	385	345	264	200	38	2	12-33	855	1890	1195	397	BRC28S	460
300	338	515	450	410	310	230	42	2	16-33	895	1890	1195	297	BRC28S	522
350	400	580	510	465	365	290	46	2	16-36	985	2040	1345	370	BRC35S	788
400	480	660	585	535	415	325	50	2	16-39	1055	2040	1345	297	BRC40S	1015
500	630	755	670	615	510	404	57	2	20-39	1370	2820	1870	800	BC50SR-700	1650

Mating dimensions - Standards

Face-to-face lengths: see tables

Flanged ends: DIN EN1092-1

Product selection

RV	050	F1	—	16	M	5	Y	5	W
1	2	3	-	4	5	6	7	8	9

1: Valve series type

RV - Segment ball valve

RR - Two-piece body floating ball valve

RB - Two-piece body trunnion mounted ball valve

2: Nominal diameter

015 - DN15	1/2”	065 - DN65	2-1/2″	250 - DN250	10″
020 - DN20	3/4”	080 - DN80	3″	300 - DN300	12″
025 - DN25	1”	100 - DN100	4″	350 - DN350	14″
032 - DN32	1-1/4”	125 - DN125	5″	400 - DN400	16″
040 - DN40	1-1/2″	150 - DN150	6″	450 - DN450	18″
050 - DN50	2″	200 - DN200	8″	500 - DN500	20″

3: Connection type

F1 – RF Flange

D1 – RF Wafer

4: Nominal pressure

DIN		ANSI	
04	PN6	01	150Lb
10	PN10	03	300Lb
16	PN16	06	600Lb
25	PN25	09	900Lb
40	PN40	15	1500Lb

5: Body material

C - WCB	L - CF3M (316L)	S - Duplex steel (2205)
F - CG3M (317L)	M - CF8M (316)	T - Titanium alloys
G - CG8M (317)	P - CF8 (304)	Z - Special material
H - Hastelloy alloy	Q - CF3 (304L)	

6: Disc material and surface treatment

Material:

1 - A105 (Q235, WCB)	7 - 317	K - LF2
2 - F6a	8 - 410	L - 4Cr13
3 - 304	9 - 201	S - Duplex steel (2205)
4 - 304L	E - 321	T - Titanium alloys
5 - 316	F - CG3M (317L)	Y - P20
6 - 316L	H - Hastelloy alloy	Z - Special material

Surface treatment:

0 - Without treatment	3 – Spr.weld. nickel base all.	6 - Spray welding stellite
1 - Hard chrome plating	4 – Spr.weld. tungsten carb.	7 - Graphite
2 - Nickel plating	5 - Plasma nitriding	

7: Seat seal construction

Y - Metal seated

G - High temperature execution

R - Soft-seated

8: Seat material and treatment:

Metal seat				Soft seat	
Material		Treatment		Material	
1	A105	0	Without treatment	P0	PTFE
2	F6a	1	Hard chrome plating	P1	GFRPTFE (glass fiber RTFE)
3	304	2	Nickel plating	P2	CFRPTFE (carbon fiber RTFE)
4	304L	3	Spray welding nickel base alloy	K0	PEEK
5	316	4	Spray welding tungsten carbide	E0	EPDM
6	316L	5	Plasma nitriding	B0	NBR
7	317	6	Overlaying stellite	V0	VITON
8	2CR13	7	Graphite	D0	DEVLON
F	317L	D	Overlaying 13%Cr		
H	Hastelloy alloy	G	Spray welding chromium carbide		
S	Duplex steel				
T	Titanium				
Z	Special material				

9: O-Ring material:

A - PFA

K - KFM

V - VITON

W - Without O-ring

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