ABO valve

GET IN CONTROL
INTELLIGENT • INNOVATIVE • INTERNATIONAL
STAY IN CONTROL

SERIES 950 FLANGED SEGMENT BALL VALVE

Body design
Flanged / Wafer

Nominal size
DN25 – DN500

Working pressure
16/25/40/63 bar

Flange connection
PN6/PN10/PN16/PN25/
PN40/PN64/Class 150/
Class 300/Class 600

Working temperature
-100 °C/+420 °C

Industry
Paper Industry
Chemical Industry
Iron steel Industry
Mine Industry
Waste Water Ind.

Leakage Class
Class A

Features
One Piece Design
Special Seat
Full Bore
Heating Jacked Option



SERIES ART.95X

www.abovalve.com

DESCRIPTION

ABO Type 950 Flanged V-port segment ball valve is specifically designed for precise flow control, while also providing reliable shut-off capability. Its specially notched segment ball creates high shear forces, effectively cutting through media containing fibers and solid particles. This robust design makes the V-port segment ball valve an ideal control solution for pulp and paper applications, as well as other demanding processes involving fibrous or particulate fluids.



WORKING MEDIUM

Pulp and Paper / Waste Water Treatment
Food And Beverage / Steel and metal industry
Chemical and petrochemical industries

SIZES

DN50 to DN500 *(Other sizes are available on request)*

WORKING PRESSURE AND TEMPERATURE

Pressure: 6-10-16-40-63-100 Bar
Temperature: From -100°C /420°C

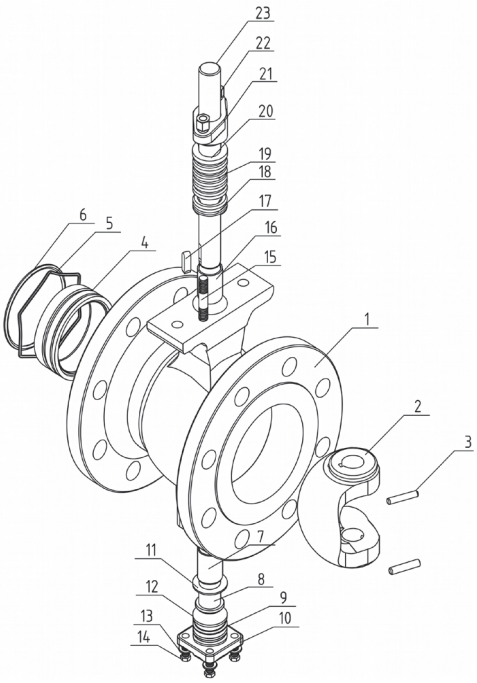
CONNECTION

DIN PN10, PN16 *(Other pressure class available on request like PN40, PN63,PN100)*
ASME B16.5 -class 150 *(Other pressure class available on request like Class 300,Class 600)*



Standart part list

Part No	Part Name	Part Material
1	Body	WCB /CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
2	V-port Segment	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
3	Pin	304 /316 /DUBLEX /ALLOY /HASTELLOY
4	Seat	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY (With Stellite)
5	Spring	304 /316 /DUBLEX /ALLOY /HASTELLOY
6	O-ring	Viton or Metal (Depends on media)
7	Bearing	Metal with PTFE
8	Lower Stem	304 /316 /DUBLEX /ALLOY /HASTELLOY
9	O-ring	Viton or Metal (Depends on media)
10	Packing Gland	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
11	Gasket	PTFE
12	Gasket	PTFE
13	Washer	304 /316 /DUBLEX /ALLOY /HASTELLOY
14	Bolt	304 /316 /DUBLEX /ALLOY /HASTELLOY
15	Bolt	304 /316 /DUBLEX /ALLOY /HASTELLOY
16	Bearing	Metal with PTFE
17	Key	304 /316 /DUBLEX /ALLOY /HASTELLOY
18	Packing	PTFE OR GRAPHITE
19	Packing	PTFE OR GRAPHITE
20	Packing	PTFE OR GRAPHITE
21	Packing Gland	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
22	Nut	304 /316 /DUBLEX /ALLOY /HASTELLOY
23	Upper Stem	304 /316 /DUBLEX /ALLOY /HASTELLOY



DESIGN ADVANTAGES

BODY

Single-piece body construction eliminates potential leakage paths associated with separate flanges or locking rings. This robust design enhances structural integrity, reduces the number of sealing interfaces, and ensures reliable leak-tight performance. By minimizing assembly components, the single-piece body also improves overall safety, simplifies maintenance, and extends service life, making it ideal for demanding industrial applications.

BALL

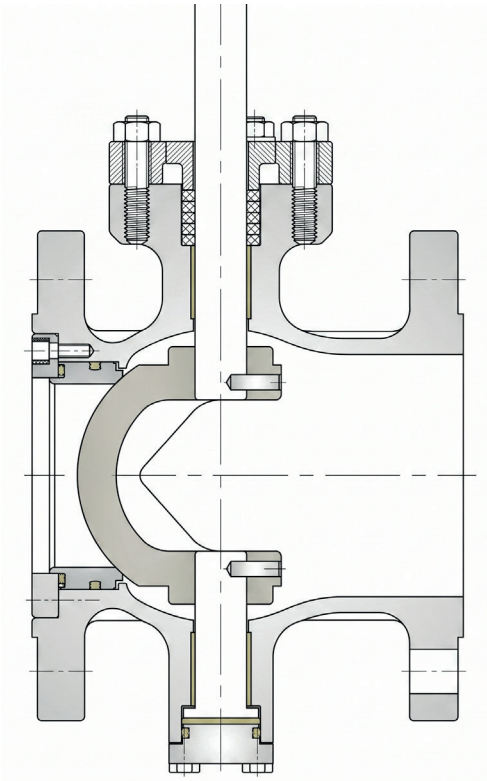
The specially engineered V-notch ball design delivers high shear force for effective media cutting and precise flow control. The precision-ground notched-ball surface ensures smooth operation with reduced operating torque while maintaining tight shut-off performance. This design is particularly advantageous for metal-seated segment valves, providing reliable sealing, enhanced durability, and extended service life even under demanding operating conditions. Nitriding, Tungsten Carbide, Stellite alloy, and Nickel-based alloy coatings are available to enhance resistance against abrasive media. These surface treatment options significantly improve wear resistance, corrosion resistance, and overall durability, ensuring reliable performance and extended service life in severe and abrasive operating conditions.

SEAT

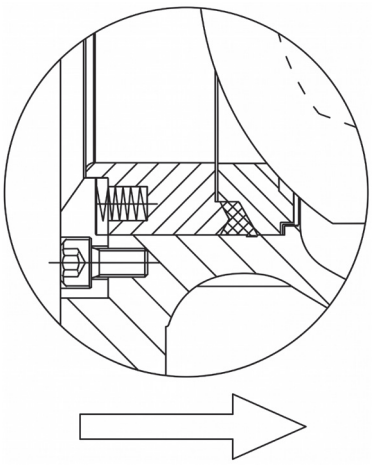
The special seat design eliminates the cavity between the seat and the valve body, preventing media accumulation and potential jamming. This design ensures consistent and reliable sealing performance by allowing smooth operation and reducing the risk of blockage. As a result, valve reliability, operational safety, and service life are significantly enhanced, even in demanding process conditions.

STEM

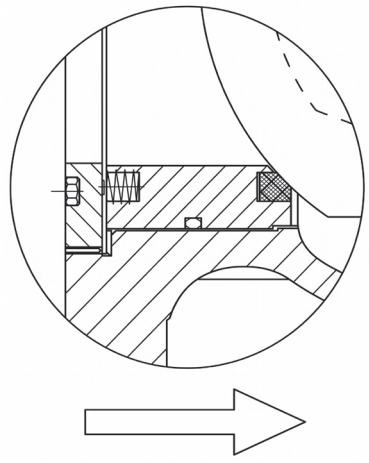
The stem is precision-ground to ensure excellent alignment with the actuator, preventing rocking motion and reducing the risk of failure in V-port segmented valves. Close-fit spline or pin-key connections are available between the stem and the segment ball, providing reliable torque transmission without motion loss or dead band, ensuring precise and consistent valve operation.



Seat Design



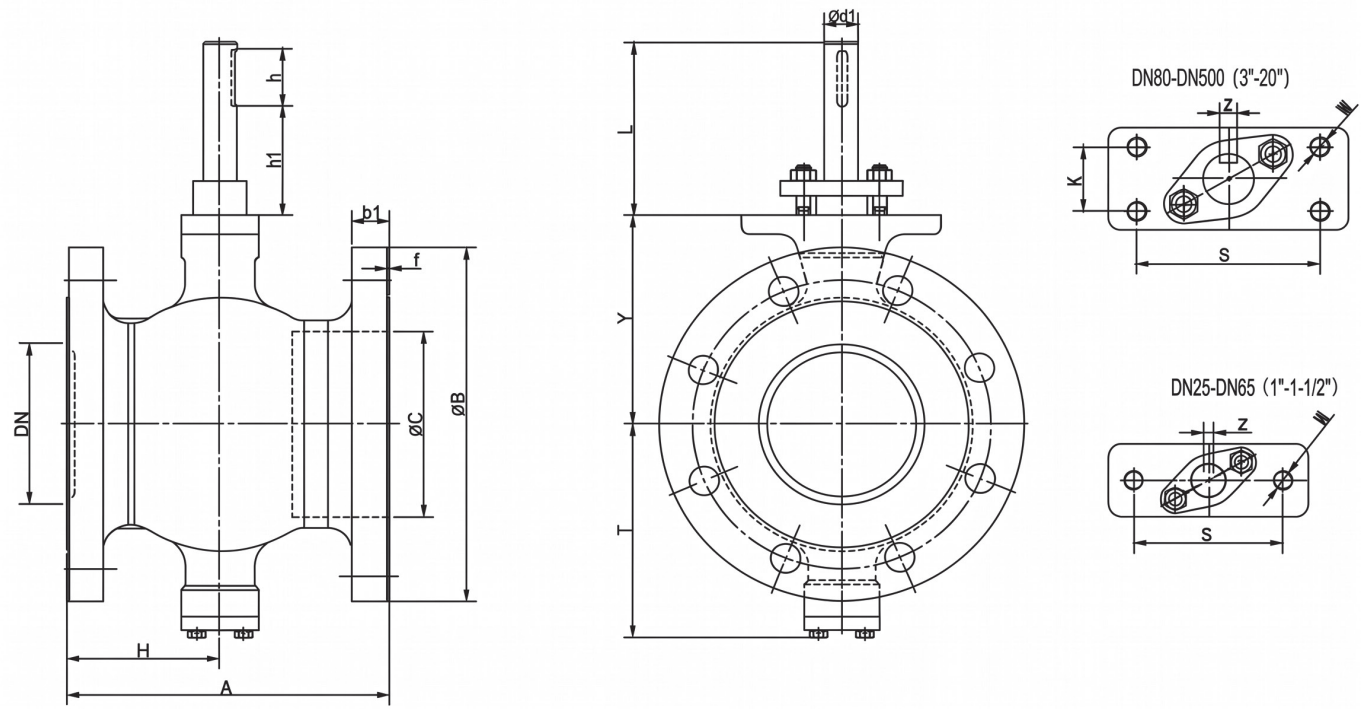
High Temp Metal Seat



Soft Seat

P16 CONNECTION

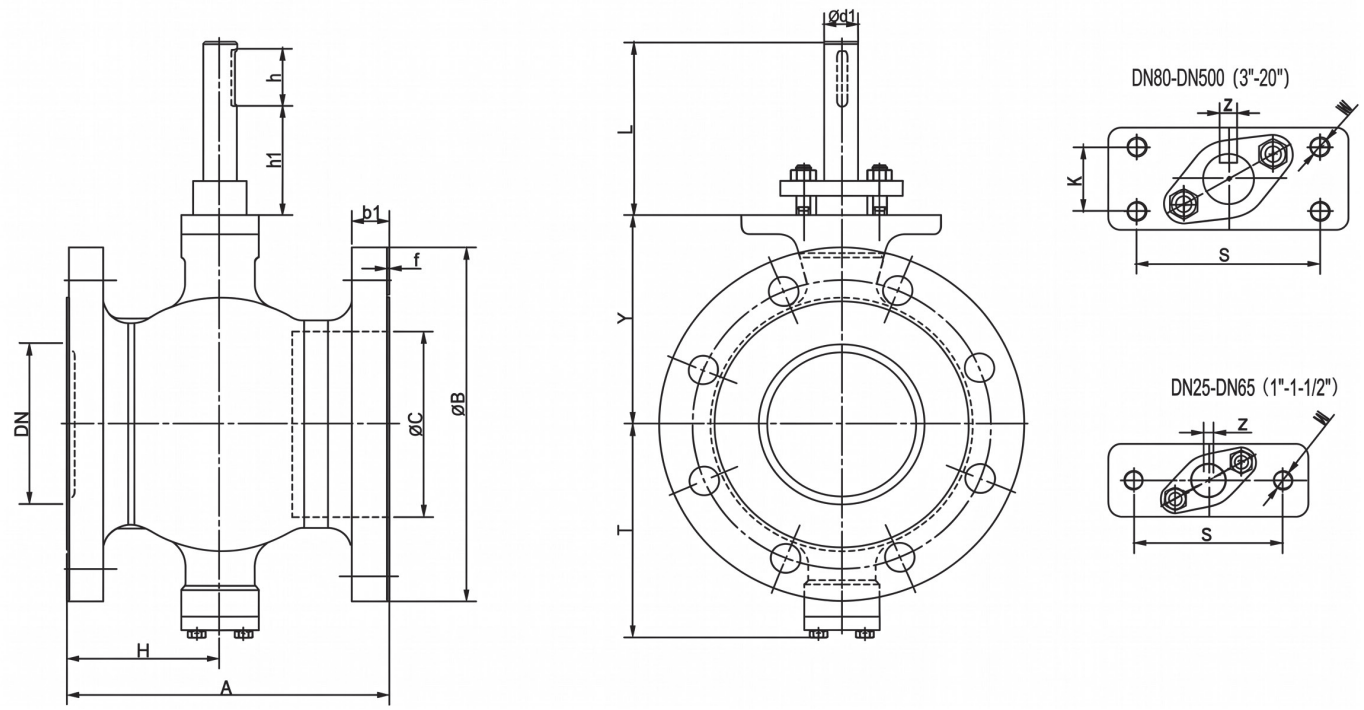
Dimension



DN	A	H	C	B	b1	f	L	Y	T	d	S	K	Z	M
25	102	35	38	115	16	2	75	73	81	16	75	/	5	2-M10
32	102	35	45	140	18	2	75	78	86	16	75	/	5	2-M10
40	114	35	50	150	18	2	75	80	90	16	75	/	5	2-M10
50	124	35	62	165	20	2	75	90	93	16	75	/	5	2-M10
65	145	35	73	185	20	2	75	105	108	16	75	/	5	2-M10
80	165	35	90	200	20	2	75	118	123	20	90	28	6	4-M10
100	194	35	115	220	22	2	75	130	138	20	90	28	6	4-M10
125	194	40	134	250	22	2	80	145	148	25	90	28	8	4-M10
150	229	50	164	285	24	2	94	170	170	30	110	40	8	4-M12
200	243	50	206	340	24	2	94	201	200	30	110	40	8	4-M12
250	297	60	260	405	26	2	98	237	240	40	135	40	12	4-M16
300	338	60	316	460	28	2	98	282	286	40	135	40	12	4-M16
350	400	60	372	520	30	2	125	337	330	50	140	64	14	4-M16
400	400	80	420	580	32	2	172	372	367	60	170	80	18	4-M20
450	520	90	470	640	40	2	172	432	422	70	190	90	20	4-M24
500	600	100	516	715	44	2	180	498	490	80	190	90	22	4-M24

P25 CONNECTION

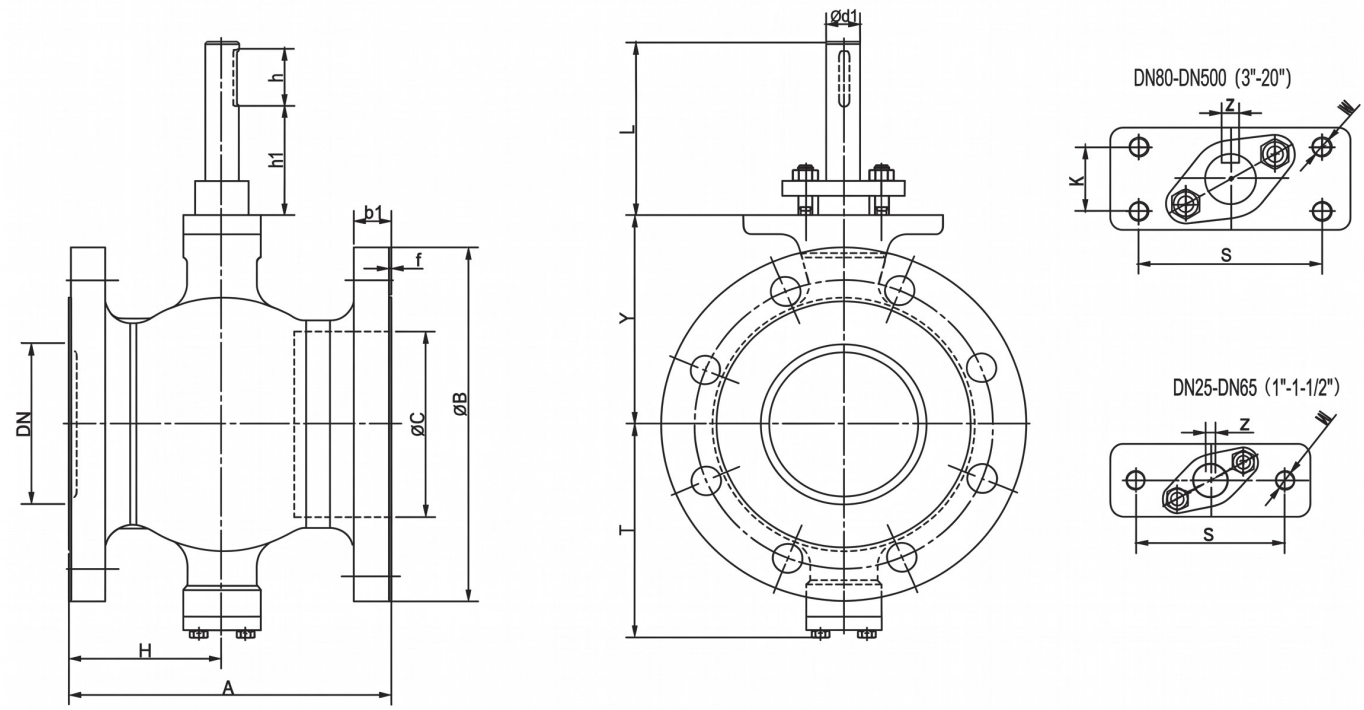
Dimension



DN	A	H	C	B	b1	f	L	Y	T	d	S	K	Z	M
25	102	35	40	115	16	2	75	86	88	20	90	28	6	4-M10
32	102	35	48	140	18	2	75	90	90	20	90	28	6	4-M10
40	114	35	56	150	18	2	80	93	95	25	90	28	8	4-M10
50	124	35	65	165	20	2	80	98	98	25	90	28	8	4-M10
65	145	35	81	185	22	2	95	125	130	30	110	40	8	4-M12
80	165	35	95	200	24	2	95	128	128	30	110	40	8	4-M12
100	194	35	115	235	24	2	95	142	142	30	110	40	8	4-M12
125	194	40	138	270	26	2	100	170	175	40	135	40	12	4-M16
150	229	50	170	300	28	2	125	215	215	50	140	64	14	4-M16
200	243	50	208	360	30	2	125	228	228	50	140	64	14	4-M16
250	297	60	265	425	32	2	150	260	260	60	170	80	18	4-M20
300	338	60	320	485	34	2	150	310	310	60	170	80	18	4-M20

CLASS 150 CONNECTION

Dimension



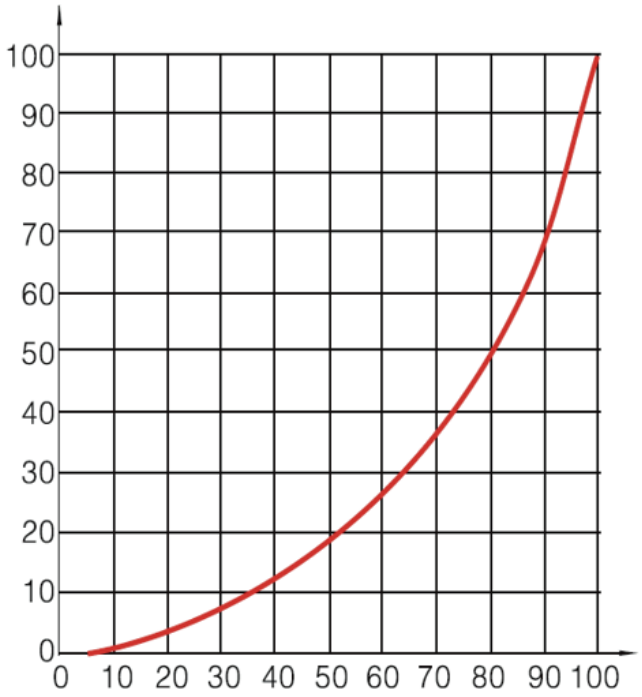
DN	A	H	C	B	b1	f	L	Y	T	d	S	K	Z	M
1”	102	35	38	108	14,5	2	75	73	81	16	75	/	5	2-M10
1 1/4”	102	35	45	115	14,5	2	75	78	86	16	75	/	5	2-M10
1 1/2”	114	35	50	127	14,5	2	75	80	90	16	75	/	5	2-M10
2”	124	35	62	152	16,3	2	75	90	93	16	75	/	5	2-M10
2 1/2”	145	35	73	180	18	2	75	105	108	16	75	/	5	2-M10
3”	165	35	90	191	19,5	2	75	118	123	20	90	28	6	4-M10
4”	194	35	115	230	24	2	75	130	138	20	90	28	6	4-M10
5”	194	40	134	255	24,3	2	80	145	148	25	90	28	8	4-M10
6”	229	50	164	280	26	2	94	170	170	30	110	40	8	4-M12
8”	243	50	206	340	29	2	94	201	200	30	110	40	8	4-M12
10”	297	60	260	405	30,6	2	98	237	240	40	135	40	12	4-M16
12”	338	60	316	485	32.2	2	98	282	286	40	135	40	12	4-M16
14”	400	60	372	535	35,4	2	125	337	330	50	140	64	14	4-M16
16”	400	80	420	595	37	2	172	372	367	60	170	80	18	4-M20
18”	520	90	470	635	40,1	2	172	432	422	70	190	90	20	4-M24
20”	600	100	516	700	44	2	180	498	490	80	190	90	22	4-M24

TORQUE AND FLOW CHARACTERISTIC

Valve Torque-NM (1.3 Include Safety Factor)

SEAT TYPE	SIZE	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
SOFT SEAT	10 BAR	20	25	30	35	51	65	82	115	172	245	432	600	1210	1800	3200	4700
METAL SEAT	10 BAR	20	25	30	35	51	85	121	187	305	502	899	1410	1990	3210	4560	6550
METAL / SOFT SEAT	20 BAR	30	36	40	42	64	100	145	224	364	598	1105	1530	2540	4050	5670	8300
METAL / SOFT SEAT	30 BAR	70	90	140	150	305	302	432	602	954	1520	2340	3500	6230	7230	11000	13550
METAL / SOFT SEAT	50 BAR	150	230	270	520	645	641	903	1640	1610	2740	4759	7000	9400	13100	17400	22000
METAL / SOFT SEAT	70 BAR	210	320	380	732	929	934	999	2210	2235	3900	6540	10100	13050	17980	24300	31000

Flow Characteristic



Size	CV
DN25	36
DN32	56
DN40	94
DN50	152
DN65	262
DN80	358
DN100	540
DN125	906
DN150	1424
DN200	2176
DN250	3532
DN300	5732
DN350	8245
DN400	10651
DN450	12878
DN500	16343

ABO valve

GET IN CONTROL
INTELLIGENT • INNOVATIVE • INTERNATIONAL
STAY IN CONTROL

SERIES 951 WAFER SEGMENT BALL VALVE

Body design
Flanged / Wafer

Nominal size
DN25 – DN500

Working pressure
16/25/40/63 bar

Flange connection
PN6/PN10/PN16/PN25/
PN40/PN64/Class 150/
Class 300/Class 600

Working temperature
-100 °C/+420 °C

Industry
Paper Industry
Chemical Industry
Iron steel Industry
Mine Industry
Waste Water Ind.

Leakage Class
Class A

Features
One Piece Design
Special Seat
Full Bore
Heating Jacked Option



SERIES ART.95X

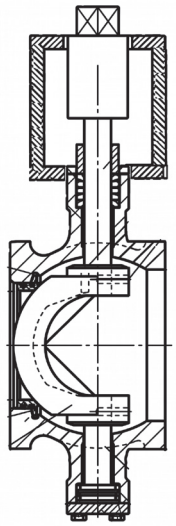
www.abovalve.com

DESRIPTION

ABO Type 951 WAFER V-port segment ball valve is specifically designed for precise flow control, while also providing reliable shut-off capability. Its specially notched segment ball creates high shear forces, effectively cutting through media containing fibers and solid particles. This robust design makes the V-port segment ball valve an ideal control solution for pulp and paper applications, as well as other demanding processes involving fibrous or particulate fluids.

WORKING MEDIUM

Pulp and Paper / Waste Water Treatment
Food And Beverage / Steel and metal industry
Chemical and petrochemical industries





SIZES

DN50 to DN500

WORKING PRESSURE AND TEMPERATURE

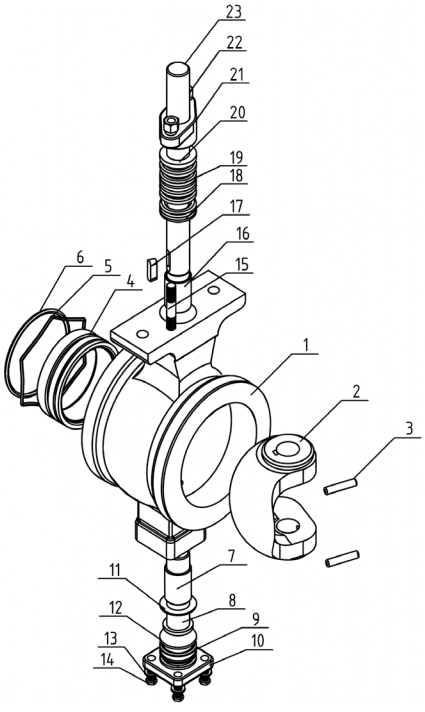
Pressure: 6-10-16-40 Bar
Temperature: From -100°C /420°C

CONNECTION

DIN PN10, PN16, PN25, PN40
ASME B16.5 -class 150, Class 300

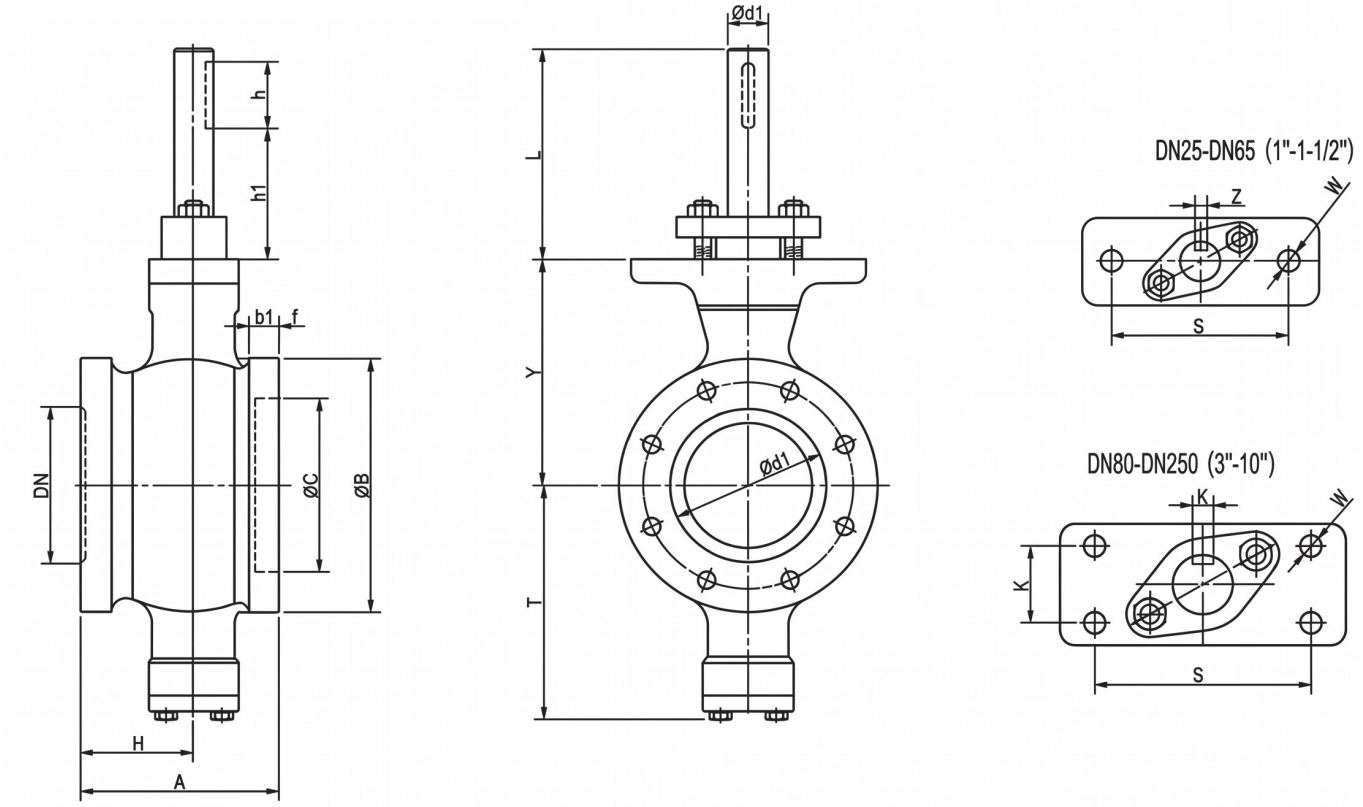
Standart part list

Part No	Part Name	Part Material
1	Body	WCB /CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
2	V-port Segment	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
3	Pin	304 /316 /DUBLEX /ALLOY /HASTELLOY
4	Seat	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY (With Stellite)
5	Spring	304 /316 /DUBLEX /ALLOY /HASTELLOY
6	O-ring	Viton or Metal (Depends on media)
7	Bearing	Metal with PTFE
8	Lower Stem	304 /316 /DUBLEX /ALLOY /HASTELLOY
9	O-ring	Viton or Metal (Depends on media)
10	Packing Gland	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
11	Gasket	PTFE
12	Gasket	PTFE
13	Washer	304 /316 /DUBLEX /ALLOY /HASTELLOY
14	Bolt	304 /316 /DUBLEX /ALLOY /HASTELLOY
15	Bolt	304 /316 /DUBLEX /ALLOY /HASTELLOY
16	Bearing	Metal with PTFE
17	Key	304 /316 /DUBLEX /ALLOY /HASTELLOY
18	Packing	PTFE OR GRAPHITE
19	Packing	PTFE OR GRAPHITE
20	Packing	PTFE OR GRAPHITE
21	Packing Gland	CF8 /CF8M /DUBLEX /ALLOY /HASTELLOY
22	Nut	304 /316 /DUBLEX /ALLOY /HASTELLOY
23	Upper Stem	304 /316 /DUBLEX /ALLOY /HASTELLOY



PN 10, PN16, PN25 , CLASS 150 CONNECTION

Dimension



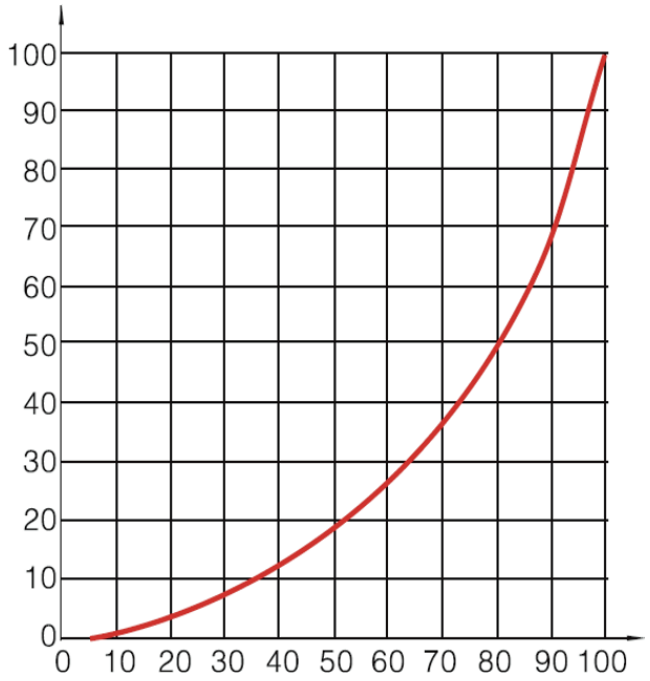
DN	A	H	C	B	L	Y	T	d	S	K	Z	M
25	50	35	38	68	75	73	81	16	75	/	5	2-M10
32	60	35	45	76	75	78	86	16	75	/	5	2-M10
40	60	35	50	84	75	80	90	16	75	/	5	2-M10
50	75	35	62	100	75	90	93	16	75	/	5	2-M10
65	100	35	73	118	75	105	108	16	75	/	5	2-M10
80	100	35	90	132	75	118	123	20	90	8	6	4-M10
100	115	35	115	158	75	130	138	20	90	28	6	4-M10
125	129	40	134	184	80	145	148	25	90	28	8	4-M10
150	160	50	164	216	94	170	170	30	110	40	8	4-M12
200	200	50	206	268	94	201	200	30	110	40	8	4-M12
250	240	60	260	326	98	237	240	40	135	40	12	4-M16

TORQUE AND FLOW CHARACTERISTIC

Valve Torque-NM (1.3 Include Safety Factor)

SEAT TYPE	SIZE	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250
METAL / SOFT SEAT	10 BAR	20	25	30	35	51	70	90	115	180	250	430
METAL / SOFT SEAT	20 BAR	30	36	40	42	64	100	145	224	364	598	1105

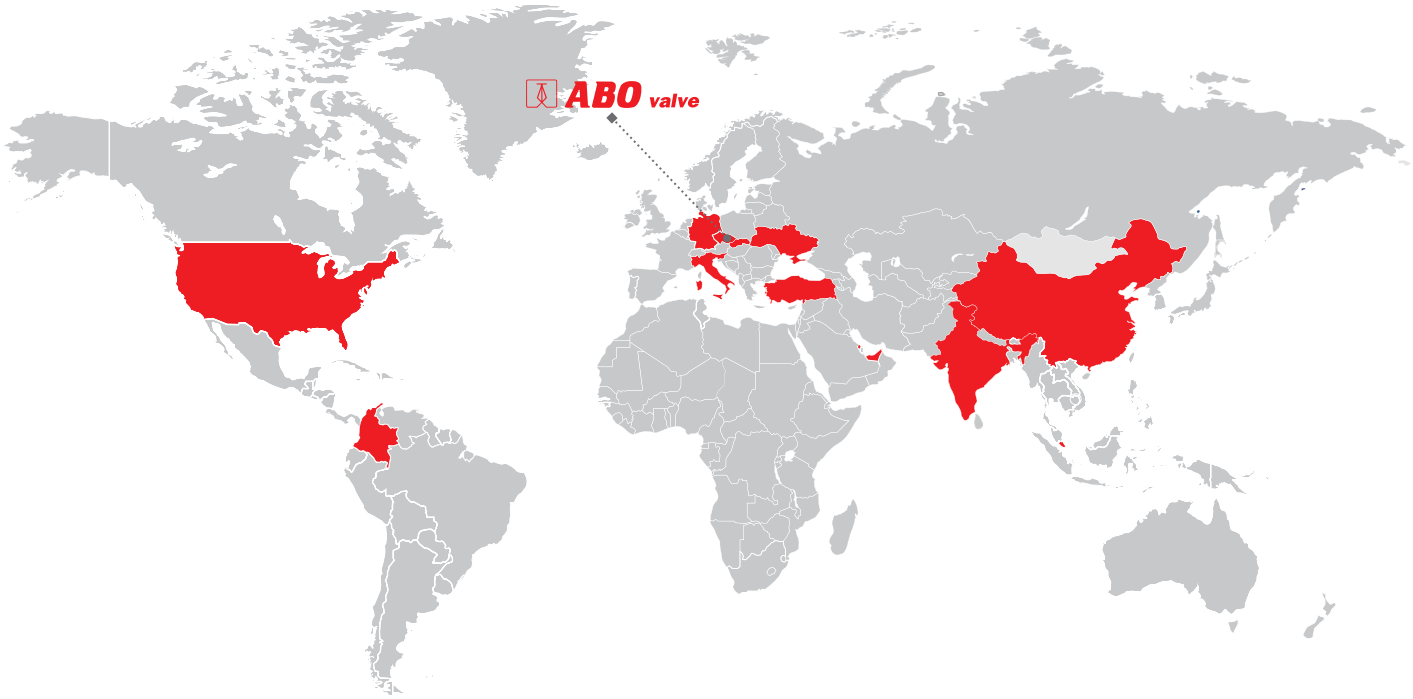
Flow Characteristic

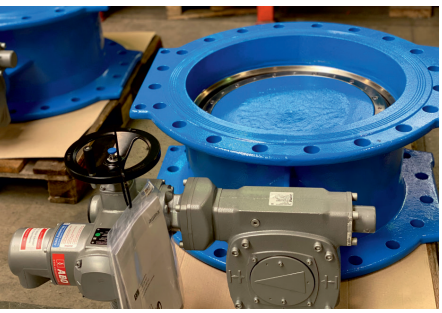


Size	CV
DN25	36
DN32	56
DN40	94
DN50	152
DN65	262
DN80	358
DN100	540
DN125	906
DN150	1424
DN200	2176
DN250	3532

ABO valve

GET IN CONTROL
INTELLIGENT • INNOVATIVE • INTERNATIONAL
STAY IN CONTROL











Czech Republic

ABO valve, s.r.o.
Dalimiliova 285/54
783 35 Olomouc
tel.: +420 585 223 955
sales@abovalve.com

Slovakia

ABO Slovakia, s.r.o.
Nové Mesto nad Váhom
tel.: +421 947 902 862
sales.sk@abovalve.com

Germany

ABO Armaturen GmbH
Essen
tel.: +49 (0) 152 / 26229501
sales.de@abovalve.com

Italy

ABO valve Italiana S.r.l.
Agrate Brianza
tel.: +39 334 9102143
sales.it@abovalve.com

Ukraine

ABO Ukraine LLC
Dnipro
tel.: +38 056 733 95 70
sales.ua@abovalve.com

Turkey

ABO Armaturen LTD STI
Istanbul
tel.: +90 0543 321 54 09
sales.tr@abovalve.com

China

ABO Flow Control
Shanghai
tel.: +86 136 015 228 31
sales.cn@abovalve.com

India

ABO Controls Pvt. Ltd.
Pune
tel.: +91 773 820 4779
sales.in@abovalve.com

Singapore

ABO Valve Pte. Ltd.
Singapore
+65 6254 0861
sales.sg@abovalve.com

USA

ABO Controls, LLC
Houston
tel.: +1 832 497 5303
sales.us@abovalve.com

Bahrajn

Sales representatives
Manama
tel.: +973 - 3444 9065
sales.gulf@abovalve.com

UAE

Sales representatives
Abu Dhabi
tel.: +971 56 920 7964
sales.ae@abovalve.com

Latin America

Sales representation
Cali, Colombia
+57 316 381 8343
sales.la@abovalve.com

Follow us:

www.abovalve.com

The technical information described in this leaflet is teantive and for general use only and does not constitute a recommendation or guarantee for any specific service or application requirement. Please consult ABO representative or factory for specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved. ABO valve accepts no liability for damages caused by bad interpretation or use of the information included in this brochure.

Valid since: 06/2026