



V210 Series V Type Segmented Ball Valves

PROVAL Ball Sector (Segment) valves are specially designed for control applications of various medium like liquids, washers and steam.

V210 Series valves are used for sticky and crystallizing mediums, because of cleaning function of metal seat for both control and on/off applications where standard PTFE seated valves does not last for long. If the medium is including seating solid particles, the geometry of metal seat and segment will warranty better function than standard valves.

Metal seated valves meet the leakage performance of ANSI FCI 70-2 Class IV while PTFE seated vales provide zero leakage, tight shut-off to Class VI.

The wafer pattern segment valves are reduced bore type manufactured in stainless steel throughout with a hard chromed ball sector and Steelite or PTFE seat. The V-port gives an excellent control characteristic which is intermediate between linear and equal percentage.



Balls segmented with a various degrees of V angle are available, in order to achieve more precise control and desired flow characteristics.



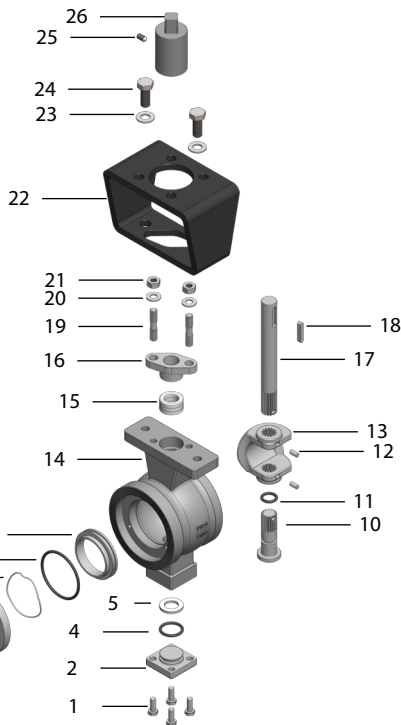
Pneumatically Actuated On/Off Segmented Ball Valve



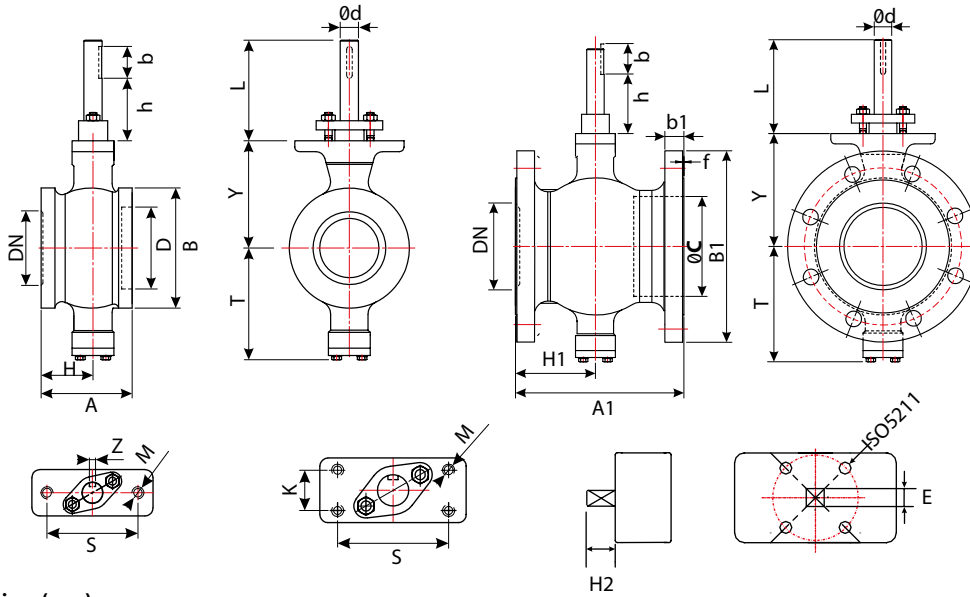
Pneumatically Actuated Segmented Ball Valve

Material List

No	Part Name	Qty	Material
1	Cap Screw	4	AISI304
2	Plug	1	WCB / AISI304 / AISI316
3	Screw	3	AISI316
4	O-Ring	1	FKM (Viton)
5	Washer	1	PTFE
6	Plug	1	AISI316
7	Spring	1	AISI316
8	O-Ring	1	FKM (Viton)
9	Seat	1	AISI316+HCr
10	Lower Stem	1	X20Cr13 / AISI304 / AISI316
11	O-Ring	1	FKM (Viton)
12	Pin	2	AISI304 / AISI316
13	Ball	1	AISI304+HCr / AISI316+HCr
14	Body	1	WCB / AISI304 / AISI316
15	Bush	1	AISI304+PTFE / AISI316+PTFE
16	Gland	1	WCB / AISI304 / AISI316
17	Upper Stem	1	AISI304 / AISI316
18	Key	1	X20Cr13 / AISI304 / AISI316
19	Screw	1	AISI304 / AISI316
20	Washer	2	AISI304 / AISI316
21	Somun	2	AISI304 / AISI316
22	Yoke	1	Carbon Steel
23	Washer	2	AISI304 / AISI316
24	Screw	2	AISI304 / AISI316
25	Set screw	1	AISI304
26	Stem Coupler	1	WCB / AISI304 / AISI316



V210 Series V-Notch Segmented Ball Valves

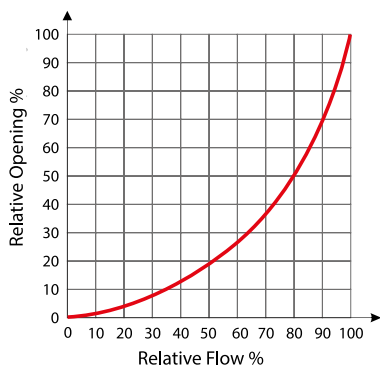


Pneumatically Actuated
Segmented Ball Valve

Dimensions(mm)

DN	A	A1	D	H	H1	B	B1	b1	f	0C	T	Y	L	0d	h	b	S	K	M	Z	ISO5211 Flange	E	H2	Kv (m ³ /h)	Torque (Nm)	Net Unit Weight (kg)	
																										Wafer	Flanged
25	50	102	16	30	51	68	115	16	2	38	81	73	75	16	40	35	75	-	2-M10	5	F07	11	17	31	38	2,5	5,1
32	60	102	16	35	51	76	140	18	2	45	86	78	75	16	40	35	75	-	2-M10	5	F07	11	17	48	38	3	6,4
40	60	114	16	35	57	84	150	18	2	50	90	80	75	16	40	35	75	-	2-M10	5	F07	14	20	81	46	3,3	7,8
50	75	124	16	43	60	100	165	20	2	62	93	90	75	16	40	35	75	-	2-M10	5	F07	17	20	131	62	4,5	10,0
65	100	145	16	50	70	118	185	20	2	73	108	105	75	16	40	35	75	-	2-M10	5	F07	17	20	226	70	5,8	12,8
80	100	165	20	57	75	132	200	20	2	93	123	118	75	20	40	35	90	28	4-M10	6	F10	22	25	310	77	8,6	16,1
100	115	194	20	65	92	158	220	22	2	115	138	130	75	20	40	35	90	28	4-M10	6	F10	22	25	467	92	11,2	21,0
125	129	194	25	78	97	184	250	22	2	134	148	145	80	25	40	40	90	28	4-M10	8	F12	27	30	784	138	15,3	27,1
150	160	229	30	95	110	216	285	24	2	164	170	170	94	30	44	50	110	40	4-M12	8	F12	27	30	1232	230	25,2	40,0
200	200	243	30	120	120	268	340	24	2	206	200	201	94	30	44	50	110	40	4-M12	8	F14	36	40	1882	384	41,9	53,0
250	240	297	40	148	148	326	405	26	2	260	240	237	98	40	38	60	135	40	4-M16	12	F14	36	40	3055	692	71,8	85,3
300	-	338	40	-	190	-	460	28	2	316	286	282	98	40	-	60	135	40	4-M16	12	F14	36	40	4958	1076	-	132
350	-	400	50	-	221	-	520	30	2	372	330	337	125	50	-	60	140	64	4-M16	14	F14	36	40	7132	1538	-	196
400	-	400	60	-	220	-	580	32	2	420	367	372	172	60	-	80	170	80	4-M20	18	F16	46	50	9213	2462	-	231
450	-	520	80	-	290	-	640	40	2	470	422	432	172	70	-	90	190	90	4-M24	20	F16	46	50	11140	3462	-	370
500	-	600	80	-	320	-	715	44	2	516	490	498	180	80	-	100	190	90	4-M24	22	F16	46	50	14137	5000	-	545

Flow Characteristics Curve



Flow Coefficient - Kv Values

Size (DN)	Kv Values (m ³ / hour)
25	31
32	48
40	81
50	131
65	227
80	310
100	467
125	784

Size (DN)	Kv Values (m ³ / hour)
150	1232
200	1882
250	3055
300	4958
350	7131
400	9213
450	11139
500	14137