



V203-V Series 3-Piece ISO5211 Direct Mount V Port Ball Valves

V203-V Series ball valves with V-Port ball with 30° or 60° options are an ideal proportional flow control valves with 50% stainless steel reinforced PTFE seats and pneumatic or electric actuator control. The V203-V series ball valves with anti-static structures are ATEX approved and are suitable for use in hazardous and explosive environments and with their compact design they provide proportional control with optimum investment cost.



ATEX
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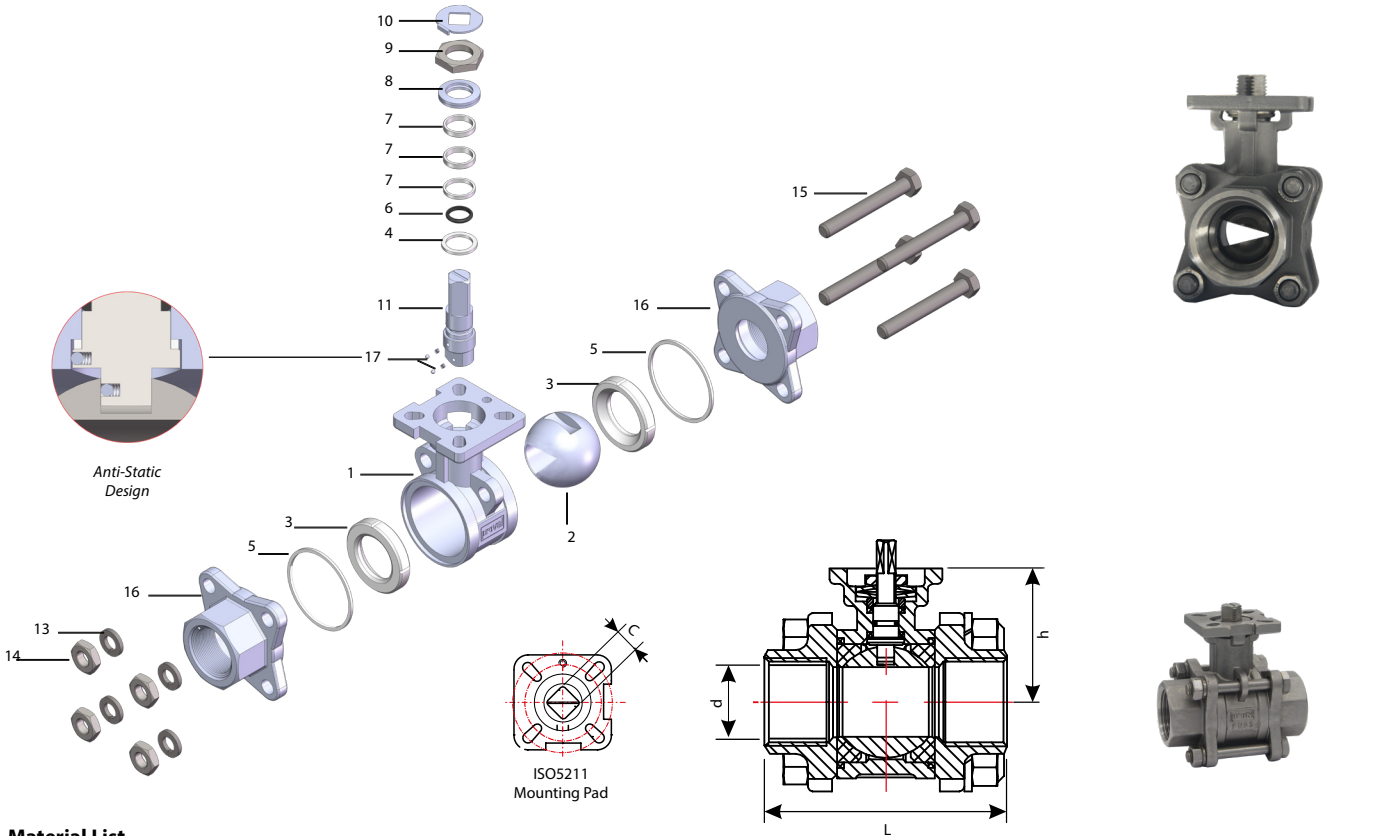
Anti-Static
Design



ISO5211
Top Flange



DIN3202-M3
Face to Face



Material List

No	Part Name	Material	Qty	No	Part Name	Material	Qty	No	Part Name	Material	Qty
1	Body	AISI316	1	7	V-Ring	PTFE	1	13	Spring Washer	AISI304	4 (Max 12)
2	Ball	AISI316 * Ceramic (Zirconium Oxide, ZrO2)	1	8	Thrust Washer	AISI304	1	14	Stud Nut	AISI304	4 (Max 12)
3	Ball Seat	%50 AISI316 St. Steel Reinforced PTFE * Glass Fiber Reinforced PTFE Graphite Reinforced PTFE Ceramic (Zirconium Oxide, ZrO2)	2	9	Gland Nut	AISI304	1	15	Stud Bolt	AISI304	4 (Max 6)
4	Washer	PTFE	1	10	Locking Washer	AISI304	1	16	Cap	AISI316	2
5	Body Seal	PTFE	2	11	Stem	AISI316	1	17	Anti-Static Device	AISI316	2
6	Stem O-Ring	Viton	1	12	Belleville Washer	AISI301	2				

* Standard construction material.

Dimensions (mm)

Size (Inch)	d	L	h	C	ISO5211 Top Flange	Torque (N.m)	Weight (Kg)
1/4"	11	50	43	9	F03	4	0,46
3/8"	12,5	60	43	9	F03	4	0,48
1/2"	15	75	48	9	F03	5	0,51
3/4"	20	80	53	11	F04/F05	8	0,89
1"	25	90	58,5	11	F04/F05	10	1,27
1-1/4"	32	110	71	14	F05/F07	14	2,04
1-1/2"	40	120	76,5	14	F05/F07	18	3,00
2"	50	140	85	14	F05/F07	25	3,80
2-1/2"	65	185	100	17	F07/F10	48	7,80
3"	80	205	112,5	17	F07/F10	75	12,40
4"	100	240	125,5	17	F07/F10	110	20,80



Proportional Control Electric Act. Op.
V-Ball Valve

V203-V Series Kv Flow Values

Size	V Ball	Flow Rate Kv(m ³ /hour) According to Ball Aperture*									
		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1/2"	30°	0	0	0,08	0,24	0,51	0,87	1,26	1,85	2,44	3,29
	60°	0	0	0,12	0,39	0,83	1,33	2,16	3,27	4,68	7,18
3/4"	30°	0	0,01	0,18	0,48	0,97	1,75	2,61	3,66	4,83	6,2
	60°	0	0,01	0,27	0,76	1,55	2,63	4,13	6,27	9,13	13,69
1"	30°	0	0,13	0,47	1	1,75	2,67	3,86	5,58	6,55	9,25
	60°	0	0,15	0,64	1,51	2,72	4,42	6,55	9,54	13,54	20,45
1-1/4"	30°	0	0,25	0,78	1,65	2,87	4,41	6,25	7,94	10,53	13,75
	60°	0	0,31	1,16	2,54	4,55	7,12	10,42	15,32	20,31	31,8
1-1/2"	30°	0	0,32	0,95	2,15	3,42	5,79	8,65	11,12	14,58	20,05
	60°	0	0,56	1,71	3,82	6,91	10,85	15,23	21,94	30,5	45,38
2"	30°	0	0,62	2,07	4,21	6,94	10,29	14,51	19,28	24,9	31,65
	60°	0	0,89	3,25	6,47	10,91	16,69	24,68	31,55	49,61	68,44
2-1/2"	30°	0	1,68	3,88	7,8	12,4	19,6	26,71	38,31	49,81	61,72
	60°	0	1,57	5,01	11,62	17,7	27,2	41,21	62,84	83,71	117,2
3"	30°	0	1,5	3,9	9,45	15,2	23,3	33,4	45,21	62,71	81,22
	60°	0	1,15	10,5	12,31	21,52	42,12	64	87,3	105,9	148,1
4"	30°	0	3,1	8,3	15,2	27,2	41,8	56,7	78,5	102,5	124,8
	60°	0	5,1	11,9	19,2	40,3	63,2	92,5	135,9	189,9	258,6

(*) Δp 1 bar.



Proportional Control Pneumatic Act. Op.
V-Port Threaded Ball Valve



Proportional Control Pneumatic Act. Op.
V-Port Monoblock Flanged Ball Valve

