HIGH PERFORMANCE 2-PIECE BALL VALVE

KV-L20

1000 WOG · full port · thread ends

2-piece body, full port ball valve with threaded ends and a built-in ISO 5211 direct mounting pad, ready for actuation. Sizes ¼" to 3" (DN8 – DN80).

- Built-in ISO 5211 direct mounting pad for easy automation
- Anti-static devices for ball-stem-body
- Blow-out proof stem · pressure balance hole in ball slot
- TA-Luft / ISO 15848-1 design approved
- Casting approved by TÜV AD 2000-Merkblatt W0
- NACE MR-0175 (optional)



1000 WOG	¼–3 in	780	F03–F10
PRESSURE CLASS	DN8 – DN80	MAX. CV · DN80	ISO 5211 PAD

Standards & torque.

DIRECT MOUNT STANDARD TYPE

Applicable standards

Design	MSS SP-110
Wall thickness	EN 12516-3
Pipe thread	ASME B1.20.1, BS 21, DIN 2999/259, ISO 228/1, JIS B0203, ISO 7/1
Inspection	MSS SP-110

Options

1. Actuator
2. Limit switch
3. Positioner

Materials

Body	CF8M · CF8 · WCB
Seats	TFM1600 / PTFE / TFM4215
O-ring	FKM

Torque values.

CLOSE TO OPEN · STANDARD SEATS (TFM1600 & PTFE)

ΔP		75 psig 5 bar		150 psig 10 bar		300 psig 20 bar		700 psig 50 bar		1000 psig 63 bar	
DN	NPS	N·m	in·lb	N·m	in·lb	N·m	in·lb	N·m	in·lb	N·m	in·lb
8	1/4	4.5	40	4.5	40	4.5	40	4.5	40	4.5	40
10	3/8	4.5	40	4.5	40	4.5	40	4.5	40	4.5	40
15	1/2	5	44	5	44	5	44	5	44	5	44
20	3/4	6	53	6	53	6	53	6	53	6	53
25	1	10	88	10	89	11	97	11	97	11	97
32	1-1/4	13	115	13	115	15	133	17	150	19	168
40	1-1/2	19	168	19	168	22	195	24	212	26	230
50	2	25	221	29	257	32	283	35	310	38	336
65	2-1/2	40	354	45	398	49	434	54	478	59	522
80	3	65	575	72	637	81	717	90	796	101	894

+30% torque with reinforced fibre-glass PTFE, carbon-filled PTFE, EK+PTFE or TFM4215 seats. 5 bar figures are maximum values tested after valves are placed for 24 hours. Actuator sizing: min. 30% safety factor.

Material of construction.

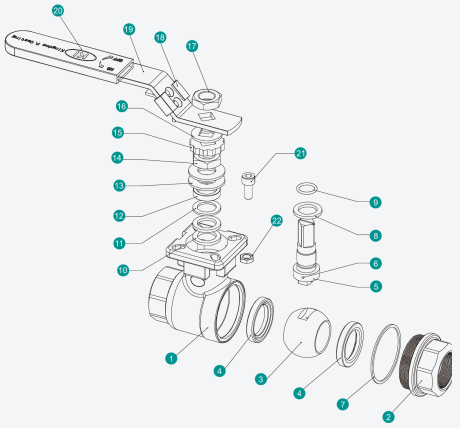
No.	Part	CF8M	CF8	WCB
1	**Body**	CF8M (1.4408)	CF8 (1.4308)	WCB (1.0619)
2	**End cap**	CF8M (1.4408)	CF8 (1.4308)	WCB (1.0619)
3	**Ball**	CF8M	CF8	
4	**Ball seat**	TFM1600 / PTFE / TFM4215		
5	**Stem**	316	304	
6	**Anti-static**	316	304	
7	**Body gasket**	PTFE / TFM1600 / graphite*		
8	**Thrust washer**	PTFE / TFM1600 / RTFE		
9	**O-ring**	FKM		
10	**Packing**	PTFE / graphite*		
11	**Bushing**	50% SS + 50% PTFE / 304		
12	**Gland**	316		
13	**Belleville washer**	301		
14	**Stem nut**	A194-8		
15	**Stop-lock-cap**	304		
16	**Handle gland**	304		
17	**Handle nut**	A194-8		
18	**Lock device**	304		
19	**Handle**	304		
20	**Handle sleeve**	Vinyl plastic		
21	**Stop bolt**	A2-70		
22	**Stop nut**	A2-70		

* Alternative materials highlighted in the source; no footnote is given by Kingdom – please confirm on order.

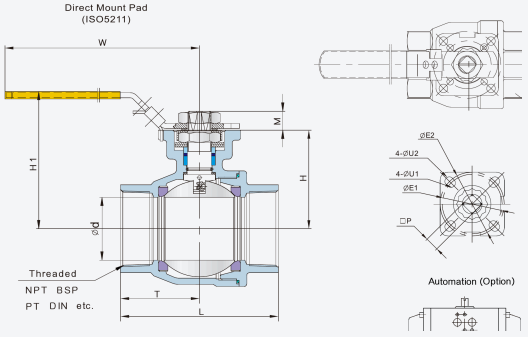
CV & weight.

DN	NPS	CV	kg	lb
8	1/4	**10**	0.58	1.28
10	3/8	**13**	0.55	1.21
15	1/2	**18**	0.51	1.12
20	3/4	**36**	0.61	1.34
25	1	**48**	1.10	2.43
32	1-1/4	**93**	1.42	3.13
40	1-1/2	**165**	2.04	4.50
50	2	**207**	3.27	7.21
65	2-1/2	**450**	6.04	13.3
80	3	**780**	9.17	20.2

EXPLODED VIEW



DIMENSION DRAWING · ANSI 1000 WOG



ANSI 1000 WOG dimensions.

MM · INCH TABLE AVAILABLE ON REQUEST

DN	NPS	d	L	W	H	H1	T	P	M	E1	E2	U1	U2	Hex B	ISO 5211
8	1/4	10.6	67	147	42.5	73	33.5	9	9	36	42	6	6	27	F03~F04
10	3/8	12.7	67	147	42.5	73	33.5	9	9	36	42	6	6	27	F03~F04
15	1/2	15	67	147	42.5	73	33.5	9	9	36	42	6	6	27	F03~F04
20	3/4	20	70.4	147	49	79	35.2	9	9	36	50	6	7	32	F03~F05
25	1	25	85	177	58	88	42.5	11	11	42	50	6	7	41	F04~F05
32	1-1/4	32	94	177	62.5	93	47	11	11	42	70	6	9	50	F04~F07
40	1-1/2	38	105	197	71.5	103	52.5	14	14	50	70	7	9	56	F05~F07
50	2	50	125	197	78.5	110	62.5	14	14	50	70	7	9	70	F05~F07
65	2-1/2	63.5	155	267	100	150	77.5	17	17	70	102	9	11	83	F07~F10
80	3	76	173	267	109	159	86.5	17	17	70	102	9	11	102	F07~F10

Data supplied by Kingdom Flow Control and provided for reference only. Specifications may change without notice – please confirm details with Actuation Valve & Control before ordering.

AV®

Need an actuated 2-piece ball valve?

Talk to our UK team about sizes, seat options and complete actuated packages.

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