

# SANITARY BALL VALVES – With High Position Pad

## N-3MDH-B – BUTT WELD ENDS

## N-3MDH-C – T-CLAMP

### Technical Data

Full Port, 3 piece type- Inside port finish  $Ra \leq 0.4$

Blow-Out Proof Stem

Material: Wetted parts ASTM A351 CF8M / 316

Connection Size: ½”(15mm), ¾”(20mm), 1”(25mm), 1½”(40mm),  
2”(50mm), 2½”(65mm), 3”(80mm), 4”(100mm)

Connection Type: Clamp & Tube butt weld ends available

ISO 5211 Mounting Pad- High position pad; Square stem

Locking Device: Valve operated locking in open or closed position

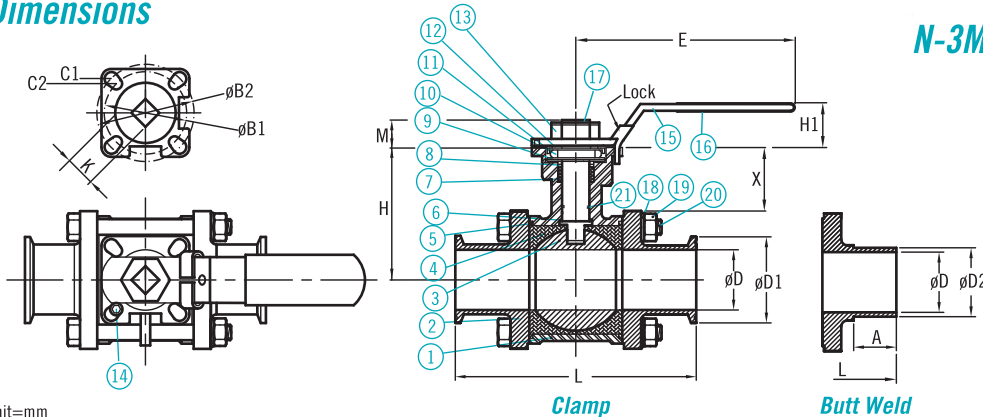
Working Temperature Limited: -20°F ~ 350°F (-5°C ~ 175°C)

Working Pressure Limited: 1000psi (70kg/cm<sup>2</sup>) for ½”~1”;  
800psi (56kg/cm<sup>2</sup>) for 1½”~2”;  
600psi (42kg/cm<sup>2</sup>) for 2½”~4”

Valves inspected and tested according to API 598 standard.



### Dimensions



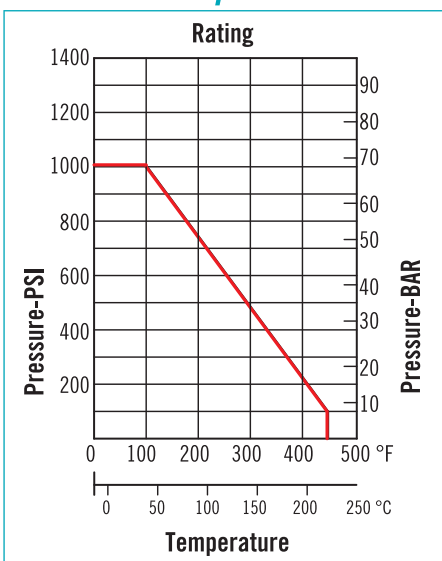
unit=mm

mm	Size inch	ISO-5211	$\phi D \pm 0.5$	$L \pm 1.0$	H	$M \pm 1.5$	$\phi B1$	$\phi B2$	K	D1	E	D2	H1	A	C1	C2	TORQUE Inch/Lbs	X
15	½	F03-F04	9.5	89	37	9	36	42	9	25.4	143	12.7	26	18	6	6	90	15.5
20	¾	F03-F04	15.9	101	47	9	36	42	9	25.4	143	19.1	26	21	6	6	100	20.6
25	1	F04-F05	22.2	114	57.2	11	42	50	11	50.4	160	25.4	34	25	6	8	140	29.0
40	1½	F05-F07	35.0	140	78.2	14	50	70	14	50.4	187	38.2	43	28	8	10	240	39.0
50	2	F05-F07	47.6	156	86.2	14	50	70	14	63.8	187	50.8	43	25	8	10	480	42.0
65	2½	F07-F10	60.3	197	109.2	17	70	102	17	77.6	310	63.5	53	35	10	12	650	48.0
80	3	F07-F10	73.0	229	117.7	17	70	102	17	91	310	76.2	53	43	10	12	1150	48.7
100	4	F10-F12	97.4	241	141.2	22	102	125	22	119	400	100.6	56	37	12	14	1400	34.0

### Parts List

Item	Parts Name	Material
1	Body	ASTM A351 CF8M / 316
2	Cap	ASTM A351 CF8M / 316
3	Ball	ASTM A351 CF8M / 316
4	Seat	PTFE / TFM1600
5	Gasket	PTFE
6	Thrust Packing	PTFE
7	Stem Packing	PTFE
8	Ring	AISI 304
9	Belleville Washer	AISI 304
10	Stem Nut	AISI 304
11	Lock Washer	AISI 304
12	Ring	AISI 304
13	Handle Nut	AISI 304
14	Stop Pin	AISI 304
15	Handle	AISI 304
16	Handle Sleeve	Plastic
17	Stem	AISI 316
18	Spring Washer	AISI 304
19	Bolt Nut	AISI 304
20	Bolt	AISI 304
21	O-Ring	Viton

### Pressure–Temperature



### Ordering Information

N-3MDH	Code	Model
	B	Butt Weld Ends
	C	T-Clamp
	Code	Body Material
	S	CF8M / SS316
	Code	Connection Size
	(A) ½” (B) ¾” (C) 1” (D) 1½”	
	(E) 2” (F) 2½” (G) 3” (H) 4”	
N-3MDH		Complete Ordering Code