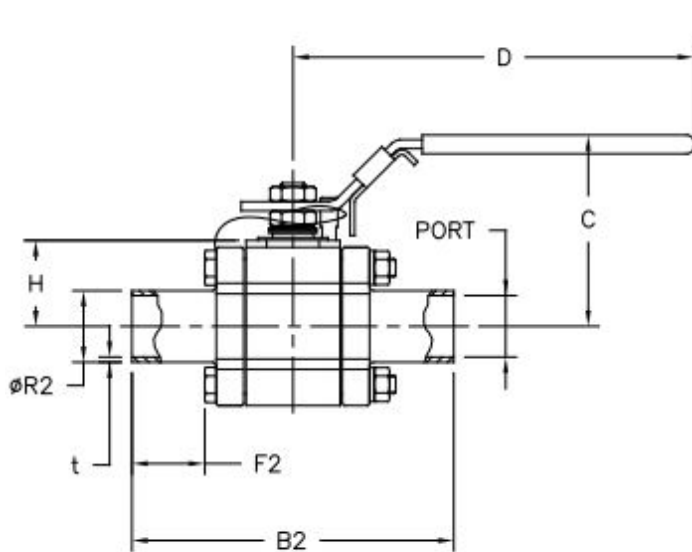


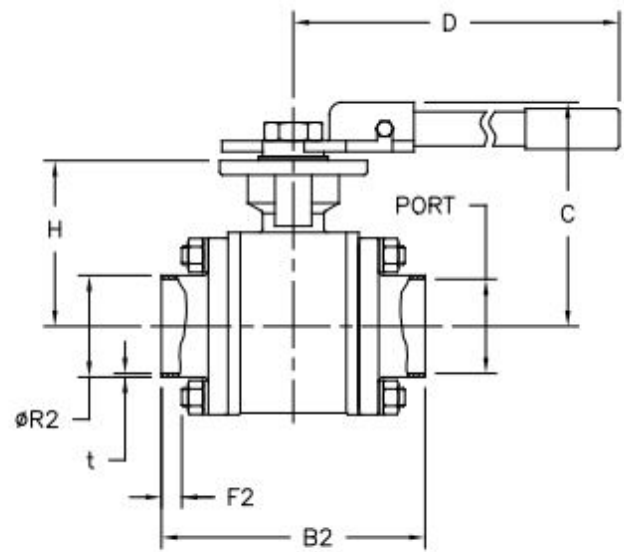
Mark 9020D DIN Series

Sanitary Ball Valves

DIMENSIONS



DN15 – DN40



DN50 – DN100

ART1048-DIN

Mark 9020D DIN Series valve ends match DIN 11866 Part A (DIN 11850 Series 2) tube. Through bore matches tube inside diameter. Valves conform to ASME BPE guidelines. For Pressure/Temperature ratings, and information regarding Actuator mounting dimensions and stem extensions, see page 9-11 of Bulletin Mark 9020 Series.

Size	DN15 – DN40 MK 9020D (DIN) Dimensions, mm											Weight Kg	Torque N.m
	Port	B2	C	D	F2	H	ØR2	t	Hgth. C' with Ext. Stem	ISO 5211	Stem Flats x Thd		
DN15	16,0	126,0	70	133	36	30,8	19,00	1.5	131	F03	6,5x3/8-24	0,9	4,4
DN20	20,0	137,4	76	133	35	35,3	23,00	1.5	135	F03	6,5x3/8-24	0,9	10,7
DN25	26,0	149,7	85	172	35	39,0	29,00	1.5	139	F04	8 x 7/16-20	1,4	16,7
DN40	38,0	169,2	101	204	34	51,3	41,00	1.5	152	F05	9,7 x M6-1,4	4,0	38

Size	DN50 – DN100 MK 9020D (DIN) Dimensions, mm											Weight Kg	Torque N.m
	Port	B2	C	D	F2	H	ØR2	t	Hgth. C' with Ext. Stem	ISO 5211	Stem Flats x Thd		
DN50	50,0	180,6	127	202	33	84,3	53,00	1.5	184	F05/F07	14 x 11/16-10	4,6	74
DN65	66,0	229,2	150	366	29	112,6	70,00	2.0	213	F07/F10	17 x 7/8-14	9,0	90
DN80	81,0	237,2	158	365	31	121,0	85,00	2.0	221	F07/F10	17 x 7/8-14	12,2	110
DN100	100,0	265,9	201	401	25	159,7	104,0	2.0	294	F10/F12	22 x 1-1/8-12	21,8	150

ORDERING SCHEMATIC

Model	Size	Body Mat'l	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Model Number
9020D 3-Pc Sanitary Ball Valve (DIN)

Size (DN 11866 Part A)
15 DN15
20 DN20
25 DN25
32 DN32
40 DN40
50 DN50
65 DN65
80 DN80
100 DN100

Body Material
LF CF3M 316L 1% Ferrite
LFCE CF3M 316L 1% Ferrite + PED/CE (DN40 - DN100 Only)

Seat/Stem Extension
T TFM1600 Enhanced Teflon (Std.)
C TFM1600 Cavity Filler Enhanced Teflon ²
E TFM1600 with Enclosed Stem Extension ¹
S TFM1600 Cavity Filler with Stem Extension ^{1,2}

¹ Stem extension not available in DN100 size

² Consult factory

Ends
A Tri-Clamp / SF1 Int. Fin. (Std.) ²
B Extended Tube End / SF1 Int. Fin. (Std.)
C Tri-Clamp x Extended Tube End / SF1 Int. Fin. ^{1,2}
D Tri-Clamp / SF4 Int. Fin. ²
E Extended Tube End / SF4 Int. Fin.
F Tri-Clamp x Extended Tube End / SF4 Int. Fin. ^{1,2}
G Extended Tube x Tri-Clamp / SF4 Int. Fin. ^{1,2}
H Extended Tube x Tri-Camp / SF1 Int. Fin. ^{1,2}

Note: SF1 finish is 20 Ra µin (0.5 Ra µm) Mechanical Polish, SF4 is 15Ra µin (0.4 Ra µm) mechanical/electropolish finish

¹ See page 5 of the MK9020 (BPE) bulletin for orientation of ends

² Consult Factory

3 & 4	Operation
HL	Lever (Std.)
NN	None
P1	UT-0A-DA STD
P2	UT-0-DA STD S1 UT-0-SR STD
P3	UT-1-DA-STD S2 UT-1-SR STD
P4	UT-2-DA STD S3 UT-2-SR STD
P5	UT-2.5-DA STD S4 UT-2.5-SR STD
P6	UT-3-DA-STD S5 UT-3-SR STD
P7	UT-3.5-DA STD S6 UT-3.5-SR STD
P8	UT-4-DA STD S7 UT-4-SR STD
PF	UT-4.5-DA STD SF UT-4.5-SR STD
P9	UT-5-DA STD S8 UT-5-SR STD
ZZ	Non-Standard

5 & 6	Actuator Pressure
40	40 psi
60	60 psi
80	80 psi
NN	N/A (no pneumatic actuator)
ZZ	Non-Standard

7 & 8	Solenoid Feature	Act. Type
00	None	
3A	3W 8551-120VAC N4 UT-0/5	SR
3C	3W EF8551-120VAC N7 UT-0/5	SR
3J	3W 8317G35-120VAC N4 UT-0/2.5	SR
3M	3W 8321G1-120VAC N4 UT-3/5	SR
3Q	3W EF8317G35-120VAC N7 UT-0/2.5	SR
3R	3W EF8321G1-120VAC N7 UT-3/5	SR
4A	4W 8551-120VAC N4 UT-0A	DA
4B	4W 8551-120VAC N4 UT-0/5	DA
4D	4W EF8551-120VAC N7 UT-0A	DA
4E	4W EF8551-120VAC N7 UT0/5	DA
ZZ	Non-Standard	

Model	Size	Body Mat'l	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

9 & 10	Limit Switch
00	None
AA	LS FMYB-5120-N4 to UT-0/3
AB	LS FMYB-5120-N4 to UT-3.5/7
AC	LS AMYB-5120-N7 to UT-0/3
AD	LS AMYB-5120-N7 to UT-3.5/7
AE	LS-AMYB-5120-N4 to Valve
AF	LS AMYB-5120-N7 to Valve
0Z	Non-Standard

11 & 12	Fail Position
NN	Fail Position N/A (No "SR" Actuator)
01	Fail Closed
02	Fail Open

13 & 14	Positioner
00	None
AA	Siemens 760P (3-15 psi), for UT-0/3
AB	Siemens 760P (3-15 psi), for UT-3.5/7
AC	Siemens 760E (4-20 mA), for UT-0/3
AD	Siemens 760E (4-20 mA), for UT-3.5/7
AE	Siemens 2-IQ (4-20 mA) for UT-0/3DA
AF	Siemens 2-IQ (4-20 mA) for UT-3.5/7DA
AQ	Siemens 2-IQ (4-20 mA), for UT-0/3SR
AR	Siemens 2-IQ (4-20 mA), for UT-3.5/7SR
ZZ	Non-Standard

15	Misc. Features
0	None
1	2-Bug Screen 1/8" SST
2	2-Speed Control 1/8" (4-Way)
3	SST Tube & Fittings F/Automation
4	AFR 4Z030A to UT-0-2.5 SST
Z	Non-Standard

16	SEP Option
0	None
G	SEP w/SF1 Finish DN15-DN25 Only
H	SEP w/SF4 Finish DN15-DN25 Only

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