DOVAL STEEL GROUP

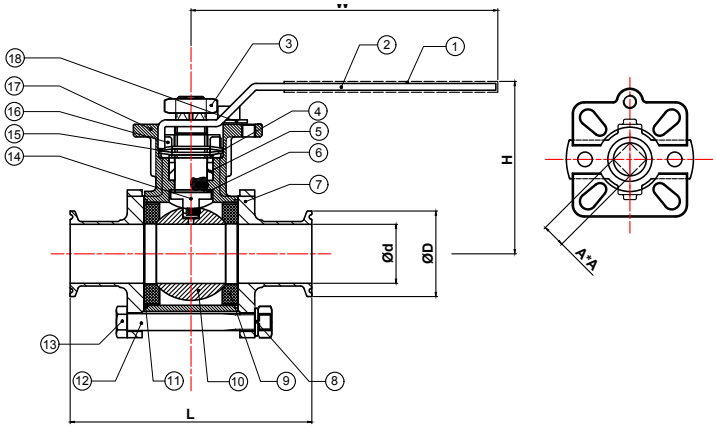
HEBRINOX® PIPE, FITTING AND VALVES

SANITARY FITTING & VALVES



VN306: 3PC Full Port Ball Valve





Parts and Materials

No.	Part Name	Materials
1	Plastic Cover	PVC
2	Handle	SS304
3	Stem Nut	SS304
4	Packing Gland	SS304
5	Stem Packing	TFM1600
6	Thrust Washer	RTFE
7	Cap	CF8M
8	Spring Washer	SS304
9	Seat	PTFE/TFM1600
10	Ball	SS316
11	Body Seal	PTFE
12	Hex Bolt	SS304
13	Nut	SS304
14	Stem	SS316
15	Bellville Washer	SS304
16	Gland Flange	SS304
17	Body	CF8M
18	Locking Device	SS304

Specifications:

- Inspection Test: API 598
- Material: NACE MR0175
- Ends: Tri Clamp
- Pressure: 1000 PSI (1/2″ - 2″)
  800 PSI (2-1/2″ - 3″)
  600 PSI (4″)

Features:

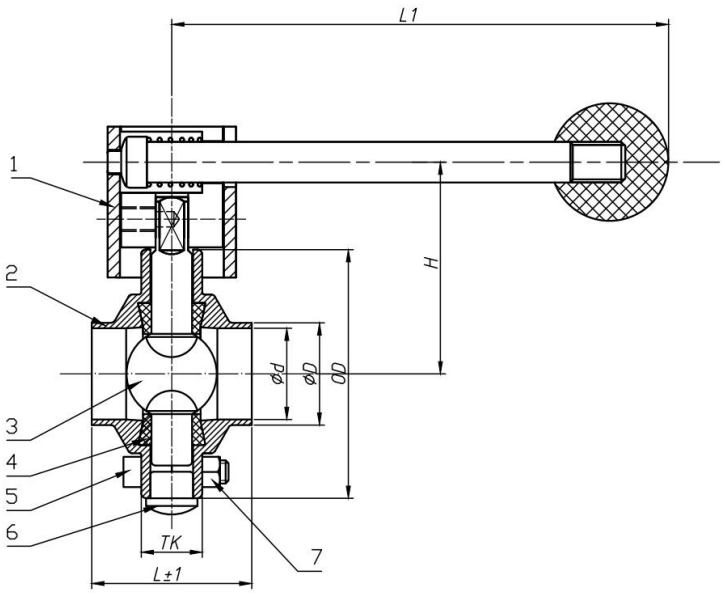
- 3 Piece Full Port Ball Valve
- High Mounting Pad
- Silicone Free Available
- Locking Handle
- Blow-out Proof Stem
- Vacuum Service to 29″ Hg

Dimensions

Size (inch)	d (mm)	D (mm)	H (mm)	W (mm)	L (mm)	A * A (mm*mm)	ISO 5211
1/2″	9.4	25.2	74.0	140.0	110.0	9.0*9.0	F03/F05
3/4″	15.5	25.2	77.0	140.0	120.0	9.0*9.0	F03/F05
1″	22.5	50.5	92.0	160.0	127.0	11.0*11.0	F04/F05
1-1/2″	34.8	50.5	112.0	186.0	143.0	14.0*14.0	F05/F07
2″	47.5	64.0	121.0	186.0	163.0	14.0*14.0	F05/F07
2-1/2″	60.3	77.5	157.0	233.0	199.0	17.0*17.0	F07/F10
3″	73.0	91.0	166.0	233.0	229.0	17.0*17.0	F07/F10
4″	97.0	119.0	189.0	330.0	244.0	22.0*22.0	F10/F12

Butterfly Valve Buttweld Ends





Specifications:

- Pressure:Maximum product pressure 145 psi
- Finish: All wetted surfaces are ≤32Ra
- Low resistance to flow
- 100% hydraulic tested / 100% inspected

Features:

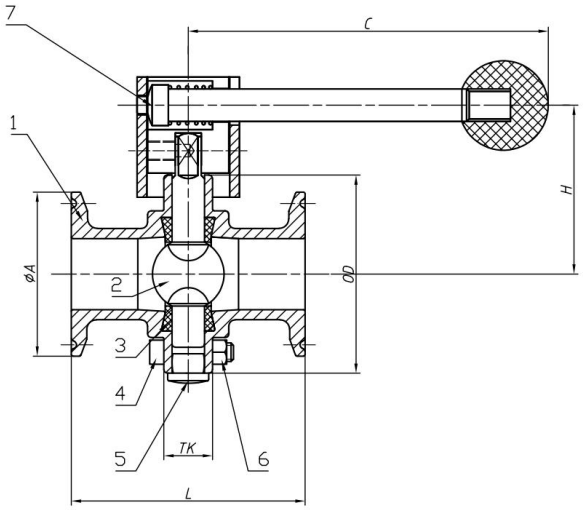
- Size Range: 1" through 4"
- Connections: Clamp, Buttweld
- Seat materials:EPDM, FKM, Silicone
- Material:304 or 316L

No.	Part Name	Materials
1	Handle	304
2	Body	304/316L
3	Disc	304/316L
4	Seat	EPDM, FKM, Silicone
5	Bolt	304
6	Plug	NBR
7	Nut	304

SIZE	TK（inch)	L（inch)	OD（inch)	H（inch)	L1（inch)
1"	0.43	1.97	3.07	3.23	5.12
1-1/2"	0.43	1.97	3.39	3.39	5.12
2"	0.43	2.05	3.94	3.7	5.35
2-1/2"	0.43	2.2	4.33	4.25	5.35
3"	0.43	2.2	4.92	4.53	5.91
4"	0.43	2.36	6.06	5.12	6.30

Butterfly Valve Clamp Ends





Specifications:

- Pressure:Maximum product pressure 145 psi
- Finish: All wetted surfaces are ≤32Ra
- Low resistance to flow
- 100% hydraulic tested / 100% inspected

Features:

- Size Range: 1" through 4"
- Connections: Clamp, Buttweld
- Seat materials:EPDM, FKM, Silicone
- Material:304 or 316L

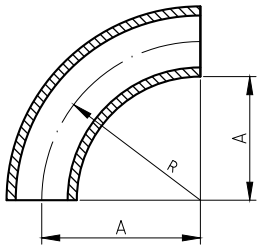
No.	Part Name	Materials
1	Handle	304
2	Body	304/316L
3	Disc	304/316L
4	Seat	EPDM, FKM, Silicone
5	Bolt	304
6	Plug	NBR
7	Nut	304

SIZE	TK（inch)	L（inch)	OD（inch)	H（inch)	C（inch)
1"	0.43	2.68	3.07	3.23	5.12
1-1/2"	0.43	2.76	3.39	3.39	5.12
2"	0.43	2.99	3.94	3.7	5.35
2-1/2"	0.43	3.15	4.33	4.25	5.35
3"	0.43	3.31	4.92	4.53	5.91
4"	0.43	3.62	6.06	5.12	6.3

Sanitary Elbows

90 Degree Weld Elbow - 2WCL

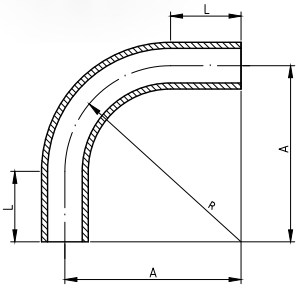




Tube O.D. (inch)	A (inch)	R (inch)	Nominal Wall (inch)
1/2″	1.125	1.125	0.065
3/4″	1.125	1.125	0.065
1″	1.50	1.50	0.065
1-1/4″	1.87	1.87	0.065
1-1/2″	2.25	2.25	0.065
2″	3.00	3.00	0.065
2-1/2″	3.75	3.75	0.065
3″	4.50	4.50	0.065
4″	6.00	6.00	0.083
5″	7.50	7.50	0.083
6″	9.00	9.00	0.109
8″	12.00	12.00	0.109
10″	15.00	15.00	0.120
12″	18.00	18.00	0.120

90 Degree Weld Long Elbow – L2S



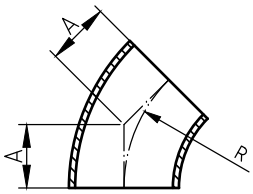


Tube O.D. (inch)	A (inch)	R (inch)	L (inch)	Nominal Wall (inch)
1/2″	3.00	1.125	1.875	0.065
3/4″	3.00	1.125	1.875	0.065
1″	2.06	1.50	0.56	0.065
1-1/2″	2.94	2.25	0.69	0.065
2″	4.06	3.00	1.06	0.065
2-1/2″	5.19	3.75	1.44	0.065
3″	6.31	4.50	1.81	0.065
4″	8.31	6.00	2.31	0.083
6″	12.46	9.00	3.46	0.109

Sanitary Elbows

45 Degree Weld Elbow - 2WK

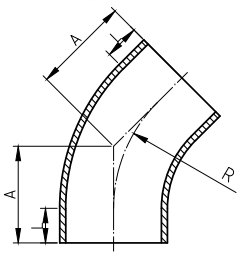




Tube O.D. (inch)	A (inch)	R (inch)	Nominal Wall (inch)
1/2″	0.47	1.125	0.065
3/4″	0.47	1.125	0.065
1″	0.62	1.50	0.065
1-1/4″	0.78	1.87	0.065
1-1/2″	0.94	2.25	0.065
2″	1.25	3.00	0.065
2-1/2″	1.56	3.75	0.065
3″	1.87	4.50	0.065
4″	2.50	6.00	0.083
5″	3.12	7.50	0.083
6″	3.75	9.00	0.109
8″	5.00	12.00	0.109
10″	6.25	15.00	0.120
12″	7.50	18.00	0.120

45 Degree Weld Long Elbow – L2KS



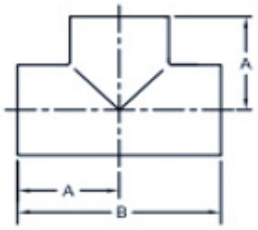


Tube O.D. (inch)	A (inch)	R (inch)	L (inch)	Nominal Wall (inch)
1/2″	2.25	1.125	1.78	0.065
3/4″	2.25	1.125	1.78	0.065
1″	1.19	1.50	0.57	0.065
1-1/2″	1.63	2.25	0.69	0.065
2″	2.31	3.00	1.07	0.065
2-1/2″	3.00	3.75	1.45	0.065
3″	3.69	4.50	1.83	0.065
4″	4.81	6.00	2.35	0.083
6″	6.00	9.00	2.27	0.109

Sanitary Tees

Short Weld Tee - 7WWW

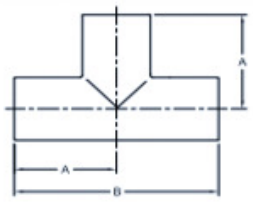




Tube O.D. (inch)	A (inch)	B (inch)	Nominal Wall (inch)
1″	1.125	2.25	0.065
1-1/4″	1.56	3.12	0.065
1-1/2″	1.66	3.31	0.065
2″	2.06	4.12	0.065
2-1/2″	2.34	4.69	0.065
3″	2.59	5.19	0.065
4″	3.44	6.87	0.083
6″	5.63	11.26	0.109
8″	7.00	14.00	0.109

Long Weld Tee - 7W



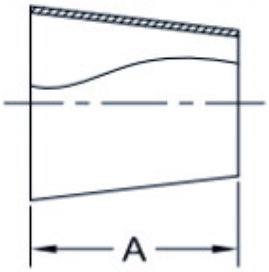


Tube O.D. (inch)	A (inch)	B (inch)	Nominal Wall (inch)
1/2″	1.875	3.75	0.065
3/4″	2.00	4.00	0.065
1″	1.875	3.75	0.065
1-1/2″	2.25	4.50	0.065
2″	3.00	6.00	0.065
2-1/2″	3.00	6.00	0.065
3″	3.25	6.50	0.065
4″	3.875	7.75	0.083
5″	5.215	10.43	0.083
6″	5.625	11.25	0.109
8″	7.00	14.00	0.109
10″	8.50	17.00	0.120
12″	10.00	20.00	0.120

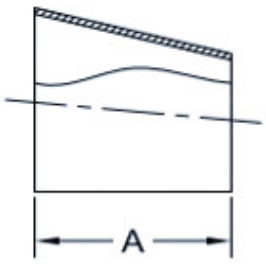
Sanitary Reducers

Concentric Weld Reducer – 31W
Eccentric Weld Reducer – 32W







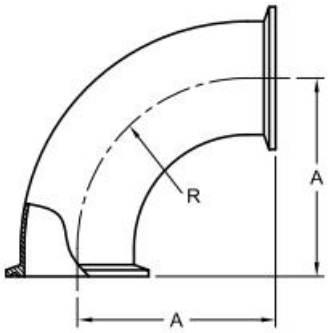


Tube O.D. (inch)	A (inch)	Nominal Wall (inch)
3/4″ x 1/2″	1.00	0.065
1″ x 1/2″	2.00	0.065
1″ x 3/4″	1.00	0.065
1-1/2″ x 1/2″	4.00	0.065
1-1/2″ x 3/4″	3.00	0.065
1-1/2″ x 1″	2.00	0.065
1-1/2″ x 1-1/4″	1.00	0.065
2″ x 1/2″	6.00	0.065
2″ x 3/4″	5.00	0.065
2″ x 1″	4.00	0.065
2″ x 1-1/2″	2.00	0.065
2-1/2″ x 1″	6.00	0.065
2-1/2″ x 1-1/2″	4.00	0.065
2-1/2″ x 2″	2.00	0.065
3″ x 1″	8.00	0.065
3″ x 1-1/2″	6.00	0.065
3″ x 2″	4.00	0.065
3″ x 2-1/2″	2.00	0.065
4″ x 1″	12.00	0.083
4″ x 1-1/2″	10.00	0.083
4″ x 2″	8.00	0.083
4″ x 2-1/2″	6.00	0.083
4″ x 3″	4.00	0.083
5″ x 4″	5.00	0.083
6″ x 2″	5.50	0.109
6″ x 2-1/2″	5.50	0.109
6″ x 3″	5.50	0.109
6″ x 4″	5.50	0.109
8″ x 3″	6.00	0.109
8″ x 4″	6.00	0.109
8″ x 6″	6.00	0.109
10″ x 6″	7.00	0.120
10″ x 8″	7.00	0.120
12″ x 6″	8.00	0.120
12″ x 8″	8.00	0.120
12″ x 10″	8.00	0.120

Clamp Fittings

90° CLAMP ELBOWS

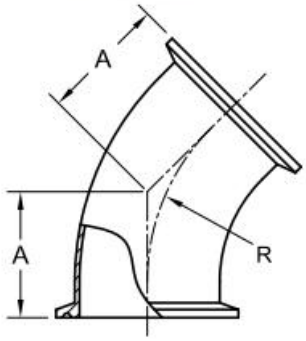




Tube O.D. (inch)	A (inch)	R (inch)	Nominal Wall (inch)
1"	2.00	1.50	0.065
1-1/2"	2.75	2.25	0.065
2"	3.50	3.00	0.065
2-1/2"	4.25	3.75	0.065
3"	5.00	4.50	0.065
4"	6.63	6.00	0.083
6"	9.88	9.00	0.109

45° CLAMP ELBOWS



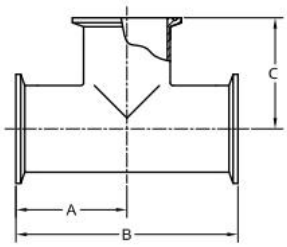


Tube O.D. (inch)	A (inch)	R (inch)	Nominal Wall (inch)
1"	1.13	1.50	0.065
1-1/2"	1.44	2.25	0.065
2"	1.75	3.00	0.065
2-1/2"	2.06	3.75	0.065
3"	2.38	4.50	0.065
4"	3.13	6.00	0.083
6"	4.62	9.00	0.109

Clamp Fittings

CLAMP TEES



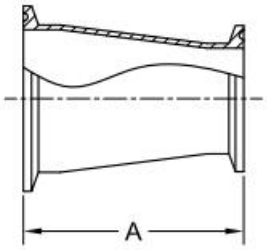


Tube O.D. (inch)	A (inch)	B (inch)	C (inch)	Nominal Wall (inch)
1"	2.37	4.75	2.37	0.065
1-1/2"	2.75	5.50	2.75	0.065
2"	3.50	7.00	3.50	0.065
2-1/2"	3.50	7.00	3.50	0.065
3"	3.75	7.50	3.75	0.065
4"	4.50	9.00	4.50	0.083
6"	6.50	13.00	6.50	0.109

Clamp Fittings

CLAMP CONCENTRIC REDUCERS



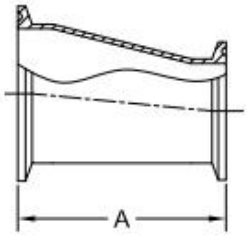


Tube O.D. (inch)	A (inch)	Nominal Wall (inch)
1"X1/2"	3.00	0.065
1"×3/4"	2.00	0.065
1-1/2"×1/2"	5.00	0.065
1-1/2"×3/4"	4.00	0.065
1-12"X1"	3.00	0.065
2"X12"	7.00	0.065
2"×3/4"	6.00	0.065
2"X1"	5.00	0.065
2"X1-1/2"	3.00	0.065
2-12"X1"	6.00	0.065
2-1/2"X1-1/2"	5.00	0.065
2-12"X2"	3.00	0.065
3"X1"	9.00	0.065
3"X1-12"	7.00	0.065
3"X2"	5.00	0.065
3"X2-1/2"	3.00	0.065
4"X1"	11.13	0.083
4"X1-12"	11.13	0.083
4"X2"	9.13	0.083
4"X2-1/2"	7.13	0.083
4"X3"	5.13	0.083
6"×2"	6.88	0.109
6"X3"	6.88	0.109
6"X4"	7.00	0.109

Clamp Fittings

CLAMP ECCENTRIC REDUCERS



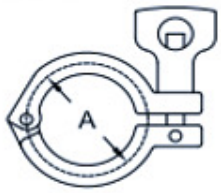


Tube O.D. (inch)	A (inch)	Nominal Wall (inch)
1"X1/2"	3.00	0.065
1"×3/4"	2.00	0.065
1-1/2"×1/2"	5.00	0.065
1-1/2"×3/4"	4.00	0.065
1-1/2"X1"	3.00	0.065
2"×1/2"	7.00	0.065
2"×3/4"	6.00	0.065
2"X1"	5.00	0.065
2"×1-1/2"	3.00	0.065
2-1/2"X1"	6.00	0.065
2-12"X1-1/2"	5.00	0.065
2-1/2"×2"	3.00	0.065
3"X1"	9.00	0.065
3"×1-1/2"	7.00	0.065
3"×2"	5.00	0.065
3"×2-1/2"	3.00	0.065
4"X1"	11.13	0.083
4"X1-1/2"	11.12	0.083
4"X2"	9.12	0.083
4"X2-1/2"	7.12	0.083
4"×3"	5.12	0.083
6"×2"	6.87	0.109
6"×3"	6.87	0.109
6"×4"	7.00	0.109

Sanitary Clamps

Single Pin Heavy Duty Clamps w/ Cross Hole Wing Nut – 13MHM

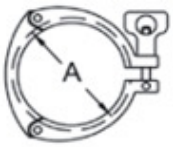




Tube O.D. (inch)	A (inch)	Service Pressure Rating @ 70°F	Service Pressure Rating @ 250°F
1/2″ - 3/4″	1.06	1500	1200
1″ - 1-1/2″	2.12	500	300
2″	2.65	450	250
2-1/2″	3.19	400	200
3″	3.72	350	175
4″	4.82	300	150
5″	5.82	225	100
6″	6.69	150	75
8″	8.69	100	50

Three Segment Clamps – 13MHHM-3P



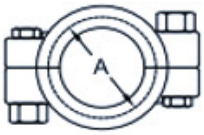


Tube O.D. (inch)	A (inch)	Service Pressure Rating @ 70°F	Service Pressure Rating @ 250°F
1″ - 1-1/2″	2.12	600	300
2″	2.65	550	275
2-1/2″	3.19	450	225
3″	3.72	350	175
4″	4.82	300	150
12″	12.74	75	50

Sanitary Clamps

High Pressure Bolted Clamps – 13MHP





Tube O.D. (inch)	A (inch)	Service Pressure Rating @ 70°F	Service Pressure Rating @ 250°F
1/2″	1.06	1500	1200
3/4″	1.06	1500	1200
1″	2.05	1500	1200
1-1/2″	2.05	1500	1200
2″	2.58	1000	800
2-1/2″	3.11	1000	800
3″	3.64	1000	800
4″	4.74	800	600
5″	5.83	300	200
6″	6.63	300	200
8″	8.64	250	150
10″	10.74	200	125
12″	12.74	150	100

DOVAL
STEEL GROUP

HEBRINOX®
PIPE, FITTING AND VALVES

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