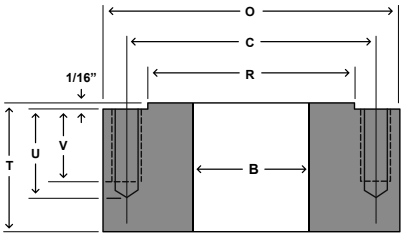
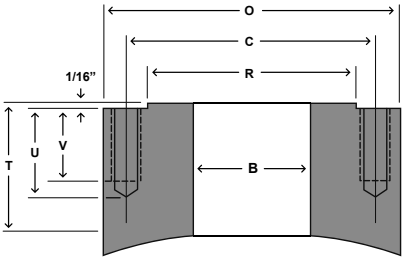
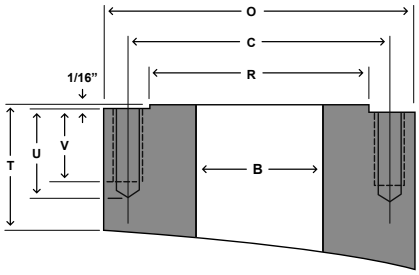
Class 150 Studding Outlets



FLAT BOTTOM



SHELL / HEAD MOUNT



TANGENTIAL MOUNT

Bore	OD	Thickness	OD of RF	Stud Circle	Hole Dia	# of Holes	Hole Depth	Tap Size	T.P.I.	Tap Depth	Flat Bottom Weight	
B	O	T	R	C			U			V	Base	per 1"
1/2	3.50	1.25	1.38	2.38	27/64	4	0.88	1/2	13	0.56	3	2.7
3/4	3.88	1.25	1.69	2.75	27/64	4	0.88	1/2	13	0.56	3.7	3.2
1	4.25	1.25	2.00	3.12	27/64	4	0.88	1/2	13	0.56	4.3	3.8
1 1/4	4.62	1.25	2.50	3.50	27/64	4	0.88	1/2	13	0.56	5.1	4.4
1 1/2	5.00	1.25	2.88	3.88	27/64	4	0.88	1/2	13	0.56	5.9	5.1
2	6.00	1.50	3.62	4.75	17/32	4	1.12	5/8	11	0.75	10.2	7.1
2 1/2	7.00	1.50	4.12	5.50	17/32	4	1.12	5/8	11	0.75	14	9.5
3	7.50	1.50	5.00	6.00	17/32	4	1.12	5/8	11	0.75	15	11
3 1/2	8.50	1.50	5.50	7.00	17/32	8	1.12	5/8	11	0.75	19	13
4	9.00	1.50	6.19	7.50	17/32	8	1.12	5/8	11	0.75	20	14
5	10.00	1.75	7.31	8.50	21/32	8	1.31	3/4	10	0.88	28	17
6	11.00	1.75	8.50	9.50	21/32	8	1.31	3/4	10	0.88	31	19
8	13.50	1.75	10.62	11.75	21/32	8	1.31	3/4	10	0.88	46	26
10	16.00	1.81	12.75	14.25	49/64	12	1.44	7/8	9	1.00	58	35
12	19.00	1.81	15.00	17.00	49/64	12	1.44	7/8	9	1.00	83	48
14	21.00	2.00	16.25	18.75	7/8	12	1.56	1	8	1.12	102	55
16	23.50	2.00	18.50	21.25	7/8	16	1.56	1	8	1.12	123	66
18	25.00	2.25	21.00	22.75	1	16	1.81	1 1/8	8	1.25	140	67
20	27.50	2.25	23.00	25.00	1	20	1.81	1 1/8	8	1.25	166	79
24	32.00	2.50	27.25	29.50	1 1/8	20	2.12	1 1/4	8	1.44	231	100

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

MATERIAL: Studding Outlets are most commonly provided in SA-105. they can also be made from a full range of stainless and alloy materials

THICKNESS: The standard thickness shown above for all studding outlets is the minimum required per ASME section V111 division 1 paragraph UG–43(d) for thread engagement and an ID mount. It is important to note that each individual application should be analyzed for proper thickness

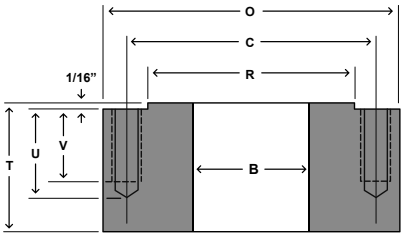
FACING: The studding outlet minimum thickness "T" includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

DRILLIN AND TAPPING: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is an accordance with ASME section V111 Division 1 Para. UG–43(g) for a design temperature not to exceed 650°f, a base metal stress of 17,500 psi(g), and a stud stress of 25,000 psi(g). All other materials exceeding these stresses should be checked for UG–43 compliance

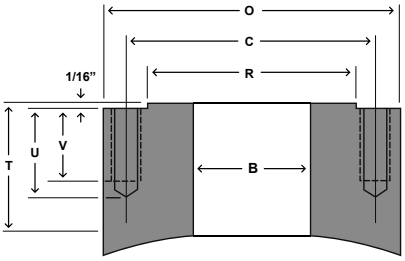
BORE: Bore sizes shown above are standard. Other sizes can be furnished upon request

CURVING: All connections can be furnished contoured to fit any shell, head, or cone at an additional cost. Specify diameter to be mounted

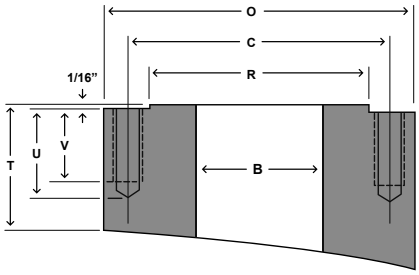
Class 300 Studding Outlets



FLAT BOTTOM



SHELL / HEAD MOUNT



TANGENTIAL MOUNT

Bore	OD	Thickness	OD of RF	Stud Circle	Hole Dia	# of Holes	Hole Depth	Tap Size	T.P.I.	Tap Depth	Flat Bottom Weight	
B	O	T	R	C			U			V	Base	per 1"
1/2	3.75	1.25	1.38	2.62	27/64	4	0.88	1/2	13	0.56	3.5	3.1
3/4	4.62	1.50	1.69	3.25	17/32	4	1.12	5/8	11	0.75	6.4	4.6
1	4.88	1.50	2.00	3.50	17/32	4	1.12	5/8	11	0.75	7	5.1
1 1/4	5.25	1.50	2.50	3.88	17/32	4	1.12	5/8	11	0.75	8	5.8
1 1/2	6.12	1.75	2.88	4.50	21/32	4	1.31	3/4	10	0.88	13	7.8
2	6.50	1.50	3.62	5.00	17/32	8	1.12	5/8	11	0.75	12	8.5
2 1/2	7.50	1.75	4.12	5.88	21/32	8	1.31	3/4	10	0.88	18	11
3	8.25	1.75	5.00	6.62	21/32	8	1.31	3/4	10	0.88	22	14
3 1/2	9.00	1.75	5.50	7.25	21/32	8	1.31	3/4	10	0.88	25	15
4	10.00	1.75	6.19	7.88	21/32	8	1.31	3/4	10	0.88	30	19
5	11.00	1.75	7.31	9.25	21/32	8	1.31	3/4	10	0.88	36	21
6	12.50	1.75	8.50	10.62	21/32	12	1.31	3/4	10	0.88	44	27
8	15.00	1.88	10.62	13.00	49/64	12	1.44	7/8	9	1.00	63	36
10	17.50	2.12	12.75	15.25	7/8	16	1.56	1	8	1.12	90	46
12	20.50	2.25	15.00	17.75	1	16	1.81	1 1/8	8	1.25	127	61
14	23.00	2.25	16.25	20.25	1	20	1.81	1 1/8	8	1.25	153	74
16	25.50	2.50	18.50	22.50	1 1/8	20	2.12	1 1/4	8	1.44	201	88
18	28.00	2.50	21.00	24.75	1 1/8	24	2.12	1 1/4	8	1.44	235	102
20	30.50	2.50	23.00	27.00	1 1/8	24	2.12	1 1/4	8	1.44	273	118
24	36.00	2.88	27.25	32.00	1 3/8	24	2.38	1 1/2	8	1.69	425	160

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

MATERIAL: Studding Outlets are most commonly provided in SA–105. they can also be made from a full range of stainless and alloy materials

THICKNESS: The standard thickness shown above for all studding outlets is the minimum required per ASME section V111 division 1 paragraph UG–43(d) for thread engagement and an ID mount. It is important to note that each individual application should be analyzed for proper thickness

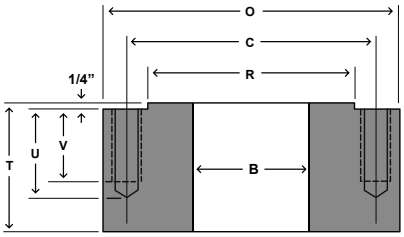
FACING: The studding outlet minimum thickness "T" includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

DRILLIN AND TAPPING: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is an accordance with ASME section V111 Division 1 Para. UG–43(g) for a design temperature not to exceed 650°f, a base metal stress of 17,500 psi(g), and a stud stress of 25,000 psi(g). All other materials exceeding these stresses should be checked for UG–43 compliance

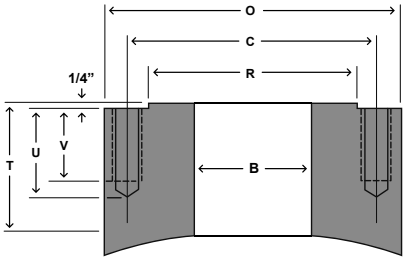
BORE: Bore sizes shown above are standard. Other sizes can be furnished upon request

CURVING: All connections can be furnished contoured to fit any shell, head, or cone at an additional cost. Specify diameter to be mounted

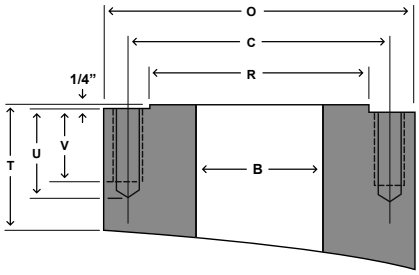
Class 600 Studding Outlets



FLAT BOTTOM



SHELL / HEAD MOUNT



TANGENTIAL MOUNT

Bore	OD	Thickness	OD of RF	Stud Circle	Hole Dia	# of Holes	Hole Depth	Tap Size	T.P.I.	Tap Depth	Flat Bottom Weight	
B	O	T	R	C			U			V	Base	per 1"
1/2	3.75	1.50	1.38	2.62	27/64	4	0.88	1/2	13	0.56	3.8	3.1
3/4	4.62	1.75	1.69	3.25	17/32	4	1.12	5/8	11	0.75	6.7	4.6
1	4.88	1.75	2.00	3.50	17/32	4	1.12	5/8	11	0.75	7.4	5.1
1 1/4	5.25	1.75	2.50	3.88	17/32	4	1.12	5/8	11	0.75	8.6	5.8
1 1/2	6.12	1.94	2.88	4.50	21/32	4	1.31	3/4	10	0.88	13	7.8
2	6.50	1.75	3.62	5.00	17/32	8	1.12	5/8	11	0.75	12	8.5
2 1/2	7.50	2.00	4.12	5.88	21/32	8	1.31	3/4	10	0.88	19	11
3	8.25	2.00	5.00	6.62	21/32	8	1.31	3/4	10	0.88	23	13
3 1/2	9.00	2.12	5.50	7.25	49/64	8	1.44	7/8	9	1.00	28	15
4	10.75	2.12	6.19	8.50	49/64	8	1.44	7/8	9	1.00	41	22
5	13.00	2.25	7.31	10.50	7/8	8	1.56	1	8	1.12	63	32
6	14.00	2.25	8.50	11.50	7/8	12	1.56	1	8	1.12	68	36
8	16.50	2.50	10.62	13.75	1	12	1.81	1 1/8	8	1.25	101	46
10	20.00	2.75	12.75	17.00	1 1/8	16	2.12	1 1/4	8	1.44	160	67
12	22.00	2.75	15.00	19.25	1 1/8	20	2.12	1 1/4	8	1.44	180	76
14	23.75	2.88	16.25	20.75	1 1/4	20	2.25	1 3/8	8	1.56	201	82
16	27.00	3.00	18.50	23.75	1 3/8	20	2.38	1 1/2	8	1.69	271	105
18	29.25	3.25	21.00	25.75	1 1/2	20	2.56	1 5/8	8	1.88	331	118
20	32.00	3.25	23.00	28.50	1 1/2	24	2.56	1 5/8	8	1.88	387	139
24	37.00	3.75	27.25	33.00	1 3/4	24	3.00	1 7/8	8	2.12	571	176

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

MATERIAL: Studding Outlets are most commonly provided in SA–105. they can also be made from a full range of stainless and alloy materials

THICKNESS: The standard thickness shown above for all studding outlets is the minimum required per ASME section V111 division 1 paragraph UG–43(d) for thread engagement and an ID mount. It is important to note that each individual application should be analyzed for proper thickness

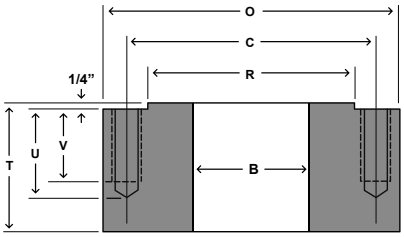
FACING: The studding outlet minimum thickness "T" includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

DRILLIN AND TAPPING: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is an accordance with ASME section V111 Division 1 Para. UG–43(g) for a design temperature not to exceed 650°f, a base metal stress of 17,500 psi(g), and a stud stress of 25,000 psi(g). All other materials exceeding these stresses should be checked for UG–43 compliance

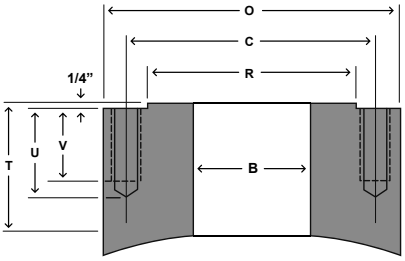
BORE: Bore sizes shown above are standard. Other sizes can be furnished upon request

CURVING: All connections can be furnished contoured to fit any shell, head, or cone at an additional cost. Specify diameter to be mounted

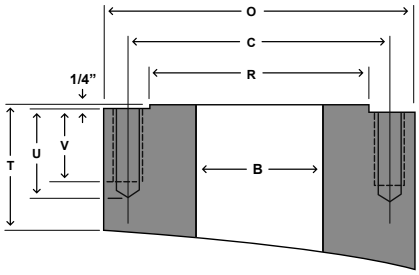
Class 900 Studding Outlets



FLAT BOTTOM



SHELL / HEAD MOUNT



TANGENTIAL MOUNT

Bore	OD	Thickness	OD of RF	Stud Circle	Hole Dia	# of Holes	Hole Depth	Tap Size	T.P.I.	Tap Depth	Flat Bottom Weight	
B	O	T	R	C			U			V	Base	per 1"
1/2	4.75	2.00	1.38	3.25	21/32	4	1.31	3/4	10	0.88	8.2	5
3/4	5.12	2.00	1.69	3.50	21/32	4	1.31	3/4	10	0.88	10	5.7
1	5.88	2.12	2.00	4.00	49/64	4	1.44	7/8	9	1.00	14	7.5
1 1/4	6.25	2.12	2.50	4.38	49/64	4	1.44	7/8	9	1.00	15	8.3
1 1/2	7.00	2.25	2.88	4.88	7/8	4	1.56	1	8	1.12	20	10
2	8.50	2.12	3.62	6.50	49/64	8	1.44	7/8	9	1.00	27	15
2 1/2	9.62	2.25	4.12	7.50	7/8	8	1.56	1	8	1.12	37	19
3	9.50	2.12	5.00	7.50	49/64	8	1.44	7/8	9	1.00	33	18
4	11.50	2.50	6.19	9.25	1	8	1.81	1 1/8	8	1.25	56	26
5	13.75	2.75	7.31	11.00	1 1/8	8	2.12	1 1/4	8	1.44	87	37
6	15.00	2.50	8.50	12.50	1	12	1.81	1 1/8	8	1.25	91	42
8	18.50	3.00	10.62	15.50	1 1/4	12	2.25	1 3/8	8	1.56	162	62
10	21.50	3.00	12.75	18.50	1 1/4	16	2.25	1 3/8	8	1.56	210	81
12	24.00	3.00	15.00	21.00	1 1/4	20	2.25	1 3/8	8	1.56	251	96
14	25.25	3.25	16.25	22.00	1 3/8	20	2.38	1 1/2	8	1.69	275	98
16	27.75	3.50	18.50	24.25	1 1/2	20	2.56	1 5/8	8	1.88	348	114
18	31.00	3.88	21.00	27.00	1 3/4	20	3.00	1 7/8	8	2.12	473	142
20	33.75	4.25	23.00	29.50	1 7/8	20	3.31	2	8	2.25	608	164
24	41.00	5.12	27.25	35.50	2 3/8	20	4.00	2 1/2	8	2.81	1096	246

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

MATERIAL: Studding Outlets are most commonly provided in SA–105. they can also be made from a full range of stainless and alloy materials

THICKNESS: The standard thickness shown above for all studding outlets is the minimum required per ASME section V111 division 1 paragraph UG–43(d) for thread engagement and an ID mount. It is important to note that each individual application should be analyzed for proper thickness

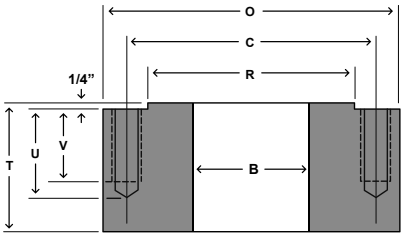
FACING: The studding outlet minimum thickness "T" includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

DRILLIN AND TAPPING: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is an accordance with ASME section V111 Division 1 Para. UG–43(g) for a design temperature not to exceed 650°f, a base metal stress of 17,500 psi(g), and a stud stress of 25,000 psi(g). All other materials exceeding these stresses should be checked for UG–43 compliance

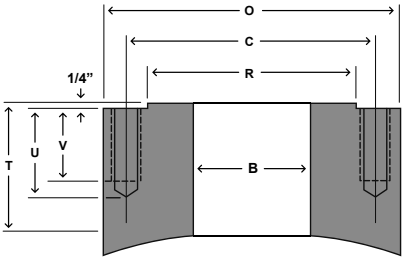
BORE: Bore sizes shown above are standard. Other sizes can be furnished upon request

CURVING: All connections can be furnished contoured to fit any shell, head, or cone at an additional cost. Specify diameter to be mounted

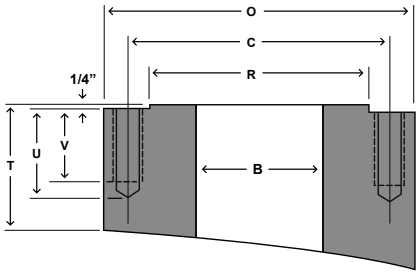
Class 1500 Studding Outlets



FLAT BOTTOM



SHELL / HEAD MOUNT



TANGENTIAL MOUNT

Bore Size	OD	Thickness	OD of RF	Stud Circle	Hole Dia	# of Holes	Hole Depth	Tap Size	T.P.I.	Tap Depth	Flat Bottom Weight	
B	O	T	R	C			U			V	Base	per 1"
1/2	4.75	2.00	1.38	3.25	21/32	4	1.31	3/4	10	0.88	8.2	5
3/4	5.12	2.00	1.69	3.50	21/32	4	1.31	3/4	10	0.88	10	5.7
1	5.88	2 12	2.00	4.00	49/64	4	1 44	7/8	9	1 00	14	7.5
1 1/4	6.25	2.12	2.50	4.38	49/64	4	1.44	7/8	9	1.00	15	8.3
1 1/2	7.00	2.25	2.88	4.88	7/8	4	1.56	1	8	1.12	20	10
2	8.50	2.12	3.62	6.50	49/64	8	1.44	7/8	9	1.00	27	15
2 1/2	9.62	2.25	4.12	7.50	7/8	8	1.56	1	8	1.12	37	19
3	10.50	2.50	5.00	8.00	1	8	1.81	1 1/8	8	1.25	48	23
4	12.25	2.75	6.19	9.50	1 1/8	8	2.12	1 1/4	8	1.44	70	30
5	14.75	3.12	7.31	11.50	1 3/8	8	2.38	1 1/2	8	1.69	114	43
6	15.50	3.00	8.50	12.50	1 1/4	12	2.25	1 3/8	8	1 56	116	45
8	19.00	3.50	10.62	15.50	1 1/2	12	2.56	1 5/8	8	1.88	224	66
10	23.00	3.88	12.75	19.00	1 3/4	12	3.00	1 7/8	8	2.12	345	95
12	26.50	4.12	15.00	22.50	1 7/8	16	3.31	2	8	2.25	456	124
14	29.50	4.25	16.25	25.00	2 1/8	16	3.56	2 1/4	8	2.56	540	150
16	32.50	5.00	18.50	27.75	2 3/8	16	4.00	2 1/2	8	2.81	762	178
18	36.00	5.50	21.00	30.50	2 5/8	16	4.38	2 3/4	8	3.12	1024	216
20	38.75	5.88	23.00	32.75	2 7/8	16	4.62	3	8	3.44	1234	245
24	46.00	6.75	27.25	39.00	3 3/8	16	5.38	3 1/2	8	4.00	1992	343

DIMENSIONS ARE IN INCHES | WEIGHTS ARE IN POUNDS

MATERIAL: Studding Outlets are most commonly provided in SA–105. they can also be made from a full range of stainless and alloy materials

THICKNESS: The standard thickness shown above for all studding outlets is the minimum required per ASME section V111 division 1 paragraph UG–43(d) for thread engagement and an ID mount. It is important to note that each individual application should be analyzed for proper thickness

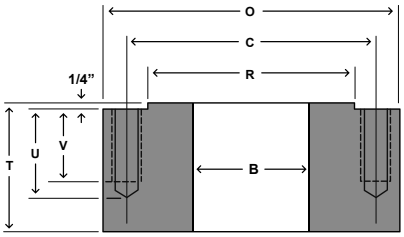
FACING: The studding outlet minimum thickness "T" includes proper raised face per ANSI B16.5. Outlets can be supplied with any special facing as needed upon request.

DRILLIN AND TAPPING: Studding outlets are furnished to ANSI B16.5 specifications unless otherwise specified. Thread depth is an accordance with ASME section V111 Division 1 Para. UG–43(g) for a design temperature not to exceed 650°f, a base metal stress of 17,500 psi(g), and a stud stress of 25,000 psi(g). All other materials exceeding these stresses should be checked for UG–43 compliance

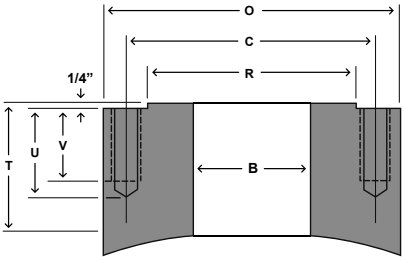
BORE: Bore sizes shown above are standard. Other sizes can be furnished upon request

CURVING: All connections can be furnished contoured to fit any shell, head, or cone at an additional cost. Specify diameter to be mounted

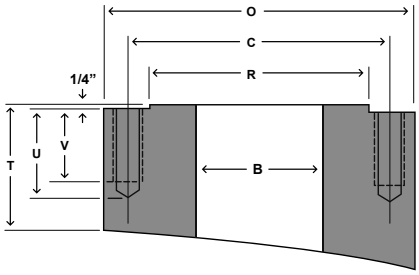
Class 2500 Studding Outlets



FLAT BOTTOM



SHELL / HEAD MOUNT



TANGENTIAL MOUNT

Bore Size	OD	Thickness	OD of RF	Stud Circle	Hole Dia	# of Holes	Hole Depth	Tap Size	T.P.I.	Tap Depth	Flat Bottom Weight	
B	O	T	R	C			U			V	Base	per 1"
1/2	5.25	2.00	1.38	3.50	21/32	4	1.31	3/4	10	0.88	10	6.1
3/4	5.50	2.00	1.69	3.75	21/32	4	1.31	3/4	10	0.88	11	6.6
1	6.25	2.12	2.00	4.25	49/64	4	1.44	7/8	9	1.00	15	8.5
1 1/4	7.25	2.25	2.50	5.12	7/8	4	1.56	1	8	1.12	22	11
1 1/2	8.00	2.50	2.88	5.75	1	4	1.81	1 1/8	8	1.25	29	14
2	9.25	2.25	3.62	6.75	7/8	8	1.56	1	8	1.12	34	18
2 1/2	10.50	2.50	4.12	7.75	1	8	1.81	1 1/8	8	1.25	49	23
3	12.00	2.75	5.00	9.00	1 1/8	8	2.12	1 1/4	8	1.44	71	30
4	14.00	3.25	6.19	10.75	1 3/8	8	2.38	1 1/2	8	1.69	112	40
5	16.50	3.75	7.31	12.75	1 5/8	8	2.81	1 3/4	8	2.00	179	55
6	19.00	4.12	8.50	14.50	1 7/8	8	3.31	2	8	2.25	259	72
8	21.75	4.38	10.62	17.25	1 7/8	12	3.31	2	8	2.25	345	91
10	26.50	5.12	12.75	21.25	2 3/8	12	4.00	2 1/2	8	2.81	590	134
12	30.00	5.50	15.00	24.38	2 5/8	12	4.38	2 3/4	8	3.12	799	168

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