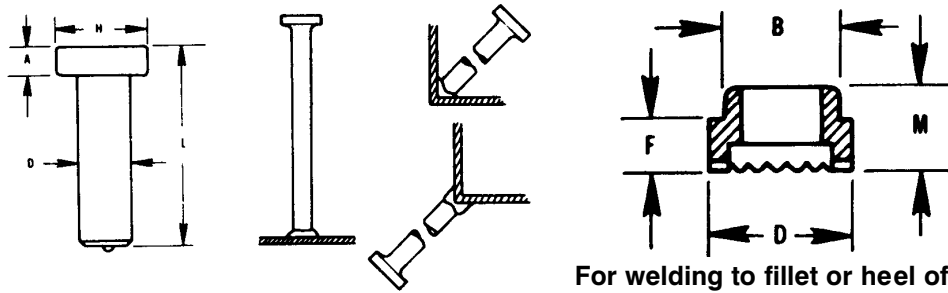




HEADED ANCHOR



For welding to fillet or heel of angle consult SWA representative for ferrule part number.

STUD SPECIFICATIONS			FERRULE SPECIFICATIONS				
D	A	H	No.	D	B	F	M
1/4	.187	.500	FF-025	.454	.380	.234	.390
3/8	.281	.750	FF-037	.640	.505	.234	.390
1/2	.281	1.000	FF-050	.795	.650	.250	.438
5/8	.312	1.250	FF-062	1.030	.785	.328	.516

Description	Weight (lbs.) Per 1000	Part Number	Pieces Per Standard Box	Description	Weight (lbs.) Per 1000	Part Number	Pieces Per Standard Box
1/4 X 1 1/8	18	HA0250112	2000	1/2 X 1 5/8	130	HA0500162	500
1/4 X 2 11/16	43	HA0250268	1000	1/2 X 2 1/8	170	HA0500212	500
1/4 X 4 1/8	65	HA0250412	1000	1/2 X 2 5/8	197	HA0500262	500
				1/2 X 3 1/8	226	HA0500312	250
3/8 X 1 3/8	69	HA0370137	1000	1/2 X 3 5/8	259	HA0500362	250
3/8 X 1 5/8	75	HA0370162	1000	1/2 X 4 1/8	292	HA0500412	250
3/8 X 2 1/8	93	HA0370212	1000	1/2 X 5 1/16	341	HA0500531	200
3/8 X 2 5/8	108	HA0370262	500	1/2 X 6 1/8	393	HA0500612	150
3/8 X 3 1/8	126	HA0370312	500	1/2 X 8 1/8	504	HA0500812	100
3/8 X 4 1/8	155	HA0370412	500	1/2 X 10 1/8	630	HA0501012	75
3/8 X 6 1/8	218	HA0370612	250	5/8 X 2 11/16	315	HA0620268	250
				5/8 X 3 3/16	360	HA0620318	200
				5/8 X 4 3/16	450	HA0620418	200
				5/8 X 5 3/16	560	HA0620518	150
				5/8 X 6 9/16	652	HA0620656	100
				5/8 X 8 3/16	793	HA0620818	100
				5/8 X 10 3/16	1039	HA0621018	75

All S.W.A. headed anchors meet AWS specifications. Test reports available on request.

HEADED ANCHOR STUDS are designed for welding to flat surfaces or welding in the fillet or to the heel of angles. When ordering specify if studs are to be welded to flat surfaces or in fillet or to heel of angle. All orders for studs include required ferrules.

LENGTH: Length is before weld. Stud diameters (D) 1/2" and below will be approximately 1/8" shorter after welding. 5/8" will be approximately 3/16" shorter after welding.

MATERIAL: Low carbon steel. ASTM A108

STAINLESS STEELS: HA studs are also available in stainless steel.

Mechanical Property Requirements

	Type A ¹	Type B ²
Tensile strength	55,000 psi min (380 MPa)	60,000 psi min (415 MPa)
Yield strength (0.2% offset)	—	50,000 psi min (345 MPa)
Elongation (% in 2 in.)	17% min	20% min
Reduction of area	50% min	50% min

¹ Type A studs shall be general purpose of any type and size used for purposes other than shear transfer in composite beam design and construction.

² Type B studs shall be studs that are heated, bent, or of other configuration in 1/2 in. (12.7 mm), 5/8 in. (15.9 mm), 3/4 in. (19mm), 7/8 in. (22.2 mm) and 1 in. (25.4 mm) diameter that are used as an essential component in composite beam design and construction.

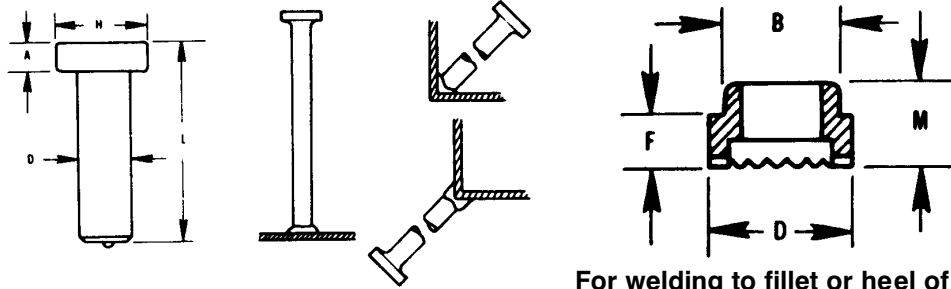
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SHEAR CONNECTOR STUD



For welding to fillet or heel of angle consult SWA representative for ferrule part number.

³ / ₄ " DIAMETER SHEAR CONNECTORS									⁷ / ₈ " DIAMETER SHEAR CONNECTORS																								
Stud Specifications			Ferrule Specifications						Stud Specifications			Ferrule Specifications																					
D	H	A	Type	No.	D	B	F	M	D	H	A	Type	No.	D	B	F	M																
³ / ₄	1 ¹ / ₄	³ / ₈	Flat Surface	FF-075	1.215	1.030	.469	.656	⁷ / ₈	1 ³ / ₈	³ / ₈	Flat Surface	FF-087	1.408	1.210	.545	.732																
			Weld Through Deck	FW-075	1.325	1.210	.406	.600																									
Standard Length	Weight (lbs) Per 1000	Part Number	Pieces Per Standard Box	Standard Length	Weight (lbs) Per 1000	Part Number	Pieces Per Standard Box																										
3 ³ / ₁₆	486	SC0750318	125	3 ³ / ₁₆	640	SC0870318	100																										
3 ³ / ₈	509	SC0750337	125	3 ¹¹ / ₁₆	726	SC0870368	100																										
3 ⁷ / ₈	572	SC0750387	100	4 ³ / ₁₆	811	SC0870418	75																										
4 ³ / ₁₆	611	SC0750418	100	5 ³ / ₁₆	981	SC0870518	60																										
4 ³ / ₈	640	SC0750437	100	6 ³ / ₁₆	1153	SC0870618	60																										
4 ⁷ / ₈	707	SC0750487	75	7 ³ / ₁₆	1322	SC0870718	50																										
5 ³ / ₁₆	736	SC0750518	60	8 ³ / ₁₆	1473	SC0870818	45																										
5 ³ / ₈	759	SC0750537	60	9 ³ / ₁₆	1642	SC0870918	40																										
5 ⁷ / ₈	832	SC0750587	60	10 ³ / ₁₆	1800	SC0871018	40																										
6 ³ / ₁₆	861	SC0750618	60					<h3>Mechanical Property Requirements</h3> <table border="1"> <thead> <tr> <th></th> <th>Type A¹</th> <th>Type B²</th> </tr> </thead> <tbody> <tr> <td>Tensile strength</td> <td>55,000 psi min (380 MPa)</td> <td>60,000 psi min (415 MPa)</td> </tr> <tr> <td>Yield strength (0.2% offset)</td> <td>—</td> <td>50,000 psi min (345 MPa)</td> </tr> <tr> <td>Elongation % in 2 in.</td> <td>17% min</td> <td>20% min</td> </tr> <tr> <td>Reduction of area</td> <td>50% min</td> <td>50% min</td> </tr> </tbody> </table>												Type A ¹	Type B ²	Tensile strength	55,000 psi min (380 MPa)	60,000 psi min (415 MPa)	Yield strength (0.2% offset)	—	50,000 psi min (345 MPa)	Elongation % in 2 in.	17% min	20% min	Reduction of area	50% min	50% min
	Type A ¹	Type B ²																															
Tensile strength	55,000 psi min (380 MPa)	60,000 psi min (415 MPa)																															
Yield strength (0.2% offset)	—	50,000 psi min (345 MPa)																															
Elongation % in 2 in.	17% min	20% min																															
Reduction of area	50% min	50% min																															
7 ³ / ₁₆	987	SC0870718	50																														
8 ³ / ₁₆	1112	SC0750818	60																														

All S.W.A. shear connector studs meet AWS specifications. Test reports available on request.

SHEAR CONNECTOR STUDS are designed to effectively tie the concrete to the steel beams and to resist shear loadings between the concrete slab and steel beam in composite construction. All orders for studs include required ferrules.

LENGTH: Length is before weld. Studs when welded to base metal will be approximately 3/16" shorter after weld and when welded thru-deck 3/8" shorter after weld. Lengths for shear connector studs are generally set by governing specifications. Consult your SWA representative for other lengths available for specific applications.

MATERIAL: Low carbon steel.

STAINLESS STEELS: SC studs are also available in stainless steel.

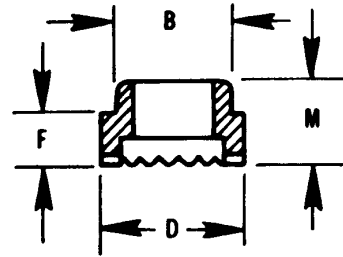
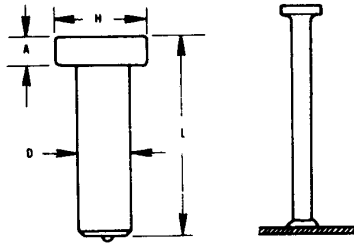
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SHEAR CONNECTOR STUD



For welding to fillet or heel of angle consult SWA representative for ferrule part number.

1" DIAMETER SHEAR CONNECTORS								
Stud Specifications			Ferrule Specifications					
D	H	A	Type	No.	D	B	F	M
1	1 ⁵ / ₈	1/2	Flat Surface	FF-100	1.625	1.416	.633	.835

Mechanical Property Requirements

	Type A ¹	Type B ²
Tensile strength	55,000 psi min (380 MPa)	60,000 psi min (415 MPa)
Yield strength (0.2% offset)	—	50,000 psi min (345 MPa)
Elongation % in 2 in.	17% min	20% min
Reduction of area	50% min	50% min

¹ Type A studs shall be general purpose of any type and size used for purposes other than shear transfer in composite beam design and construction.

² Type B studs shall be studs that are heated, bent, or of other configuration in 1/2 in. (12.7 mm), 5/8 in. (15.9 mm), 3/4 in. (19mm), 7/8 in. (22.2 mm) and 1 in. (25.4 mm) diameter that are used as an essential component in composite beam design and construction.

Standard Length	Weight (lbs) Per 1000	Part Number	Pieces Per Standard Box
4 ¹ / ₄	1133	SC1000425	75
5 ¹ / ₄	1383	SC1000525	60
6 ¹ / ₄	1600	SC1000625	60
8 ¹ / ₄	2050	SC1000825	40
9 ¹ / ₄	2225	SC1000925	40

SHEAR CONNECTOR STUDS are designed to effectively tie the concrete to the steel beams and to resist shear loadings between the concrete slab and steel beam in composite construction. All orders for studs include required ferrules.

LENGTH: Length is before weld. Studs will be approximately 1/4" shorter after welding. Lengths for shear connector studs are generally set by governing specifications. Consult your SWA representative for other lengths available for specific applications.

MATERIAL: Low carbon steel.

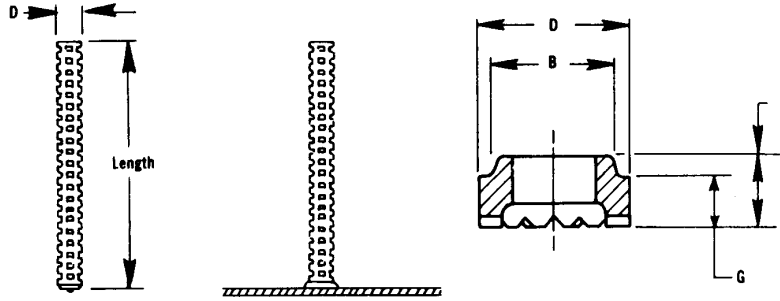
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DEFORMED ANCHOR



STUD SPECIFICATIONS				FERRULE SPECIFICATIONS					
Parts No.	Description	Weight (lbs) Per 1000	Pieces Per Standard Box	D	No.	B	D	G	M
DA0250612	1/4 x 6 ^{1/8}	88	1000	1/4	FF-025	.380	.455	.234	.390
DA0251212	1/4 x 12 ^{1/8}	175	1000						
DA0371012	3/8 x 10 ^{1/8}	288	1000						
DA0371212	3/8 x 12 ^{1/8}	344	1000	3/8	FF-037	.505	.640	.234	.390
DA0371812	3/8 x 18 ^{1/8}	365	700						
DA0372412	3/8 x 24 ^{1/8}	685	700						
DA0373012	3/8 x 30 ^{1/8}	855	700						
DA0373612	3/8 x 36 ^{1/8}	1026	700						
DA0501012	1/2 x 10 ^{1/8}	545	700							1/2	FF-050	.650	.795	.250	.438
DA0501212	1/2 x 12 ^{1/8}	680	700						
DA0501812	1/2 x 18 ^{1/8}	972	350						
DA0502412	1/2 x 24 ^{1/8}	1292	350						
DA0503012	1/2 x 30 ^{1/8}	1615	350						
DA0503612	1/2 x 36 ^{1/8}	1935	350						
DA0621218	5/8 x 12 ^{3/16}	1077	500	5/8	FF-062	.785	1.030	.328	.516
DA0621818	5/8 x 18 ^{3/16}	1633	250						
DA0622418	5/8 x 24 ^{3/16}	2136	250						
DA0623018	5/8 x 30 ^{3/16}	2666	250						
DA0623618	5/8 x 36 ^{3/16}	3196	250						
DA0751218	3/4 x 12 ^{3/16}	1525	250	3/4	FF-075	1.215	1.030	.469	.656
DA0751818	3/4 x 18 ^{3/16}	2276	125						
DA0752418	3/4 x 24 ^{3/16}	3027	125						
DA0753018	3/4 x 30 ^{3/16}	3778	125						
DA0753618	3/4 x 36 ^{3/16}	4529	125						

Mechanical Property Requirements

Type C³

Tensile strength	80,000 psi min (552 MPa)
Yield strength (0.2% offset)	—
(0.5% offset)	70,000 psi min (485 MPa)
Elongation % in 2 in.	—
Reduction of area	—

³ Type C studs are cold-worked deformed steel bars manufactured in accordance with specification ASTM A496 having a nominal diameter equivalent to the diameter of a plain wire having the same weight per foot as the deformed wire. ASTM A496 specifies a maximum diameter of 0.628 in. (16 mm) maximum. Any bar supplied above that diameter must have the same physical characteristics regarding deformations as required by ASTM A496.

MATERIAL: Low Carbon Steel ASTM: A-496

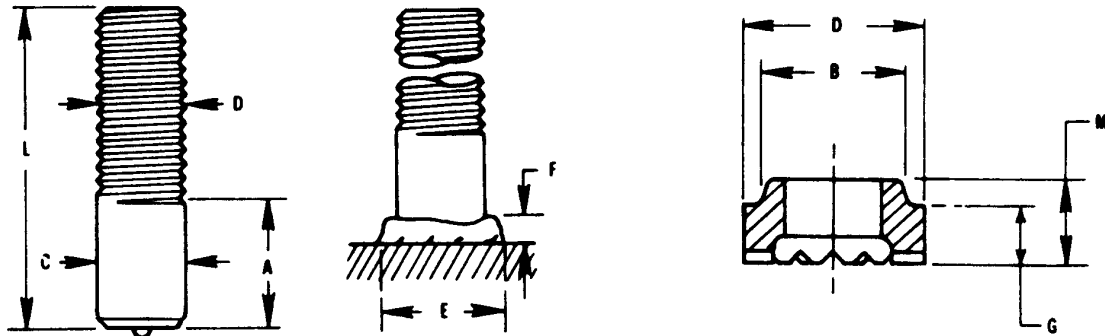
LENGTH: Length is before weld. Stud diameters (D) 1/2" and smaller will be approximately 1/8" shorter after welding. 5/8" and larger will be approximately 3/16" shorter after welding.

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PT PARTIAL THREAD STUD



STUD SPECIFICATIONS						FERRULE SPECIFICATIONS				
D	Min. L.	C	A	Fillet Dimension		No.	D	B	G	M
				E	F					
1/4-20	3/8	.215	3/8	5/16	3/32	FP-025	.455	.385	.125	.250
5/16-18	43/64	.275	3/8	13/32	7/64	FP-031	.535	.445	.125	.250
3/8-16	27/32	.330	3/8	15/32	7/64	FP-037	.590	.505	.139	.26
7/16-14	15/16	.387	7/16	17/32	1/8	FP-043	.675	.585	.173	.329
1/2-13	1 1/32	.448	1/2	19/32	5/32	FP-050	.740	.650	.206	.362
5/8-11	1 13/64	.562	5/8	3/4	3/16	FP-062	.910	.785	.277	.433
3/4-10	1 7/16	.680	51/64	59/64	1/4	FP-075	1.150	1.030	.339	.526
7/8-9	1 39/64	.798	55/64	1 3/64	5/16	FP-087	1.330	1.210	.406	.593
1-8	1 51/64	.915	59/64	1 3/16	11/32	FP-100	1.526	1.406	.474	.661

HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

EXAMPLE

1/2-13 x 1-1/8" (BW) partial thread (PT), mild steel.

HOW TO DETERMINE BEFORE WELD (BW) LENGTH

First establish the standing length of the stud after weld (AW).

Based on the diameter of the stud include the following additional length before weld (BW).

Diameters up through 9/16" add 1/8"

Diameters from 5/8" through 7/8" add 3/16"

Diameters 1" through 1-1/4" add 1/4"

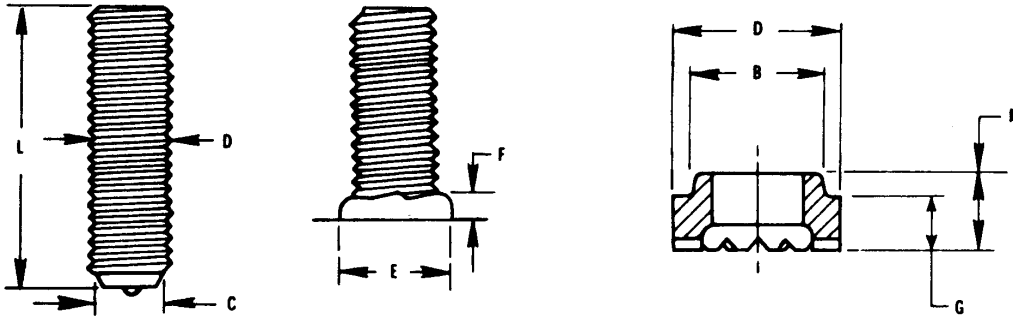
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FULL THREAD STUD



STUD SPECIFICATIONS					FERRULE SPECIFICATIONS				
D	Min. L.	C	Fillet Dimension		No.	D	B	G	M
			E	F					
10-24	$\frac{25}{32}$	.187	$\frac{9}{32}$	$\frac{3}{32}$	FF-019	.390	.305	.234	.390
$\frac{1}{4}$ -20	$\frac{25}{32}$	.187	$\frac{23}{64}$	$\frac{7}{64}$	FF-025	.454	.380	.234	.390
$\frac{5}{16}$ -18	$\frac{25}{32}$	.187	$\frac{7}{16}$	$\frac{7}{64}$	FF-031	.578	.445	.234	.390
$\frac{3}{8}$ -16	$\frac{25}{32}$	.187	$\frac{1}{2}$	$\frac{1}{8}$	FF-037	.640	.505	.234	.390
$\frac{7}{16}$ -14	$\frac{25}{32}$	.187	$\frac{37}{64}$	$\frac{9}{64}$	FF-043	.703	.585	.234	.422
$\frac{1}{2}$ -13	$\frac{13}{16}$	.187	$\frac{11}{16}$	$\frac{5}{32}$	FF-050	.795	.650	.250	.438
$\frac{5}{8}$ -11	$\frac{31}{32}$	.187	$\frac{51}{64}$	$\frac{3}{16}$	FF-062	1.030	.785	.328	.516
$\frac{3}{4}$ -10	$1\frac{15}{64}$	.187	$\frac{15}{16}$	$\frac{1}{4}$	FF-075	1.215	1.030	.469	.656
$\frac{7}{8}$ -9	$1\frac{1}{2}$	.375	$1\frac{3}{32}$	$\frac{5}{16}$	FF-087	1.408	1.210	.545	.732
1-8	$1\frac{17}{32}$	.375	$1\frac{15}{64}$	$\frac{3}{8}$	FF-100	1.615	1.406	.633	.820

HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

EXAMPLE

$\frac{1}{2}$ -13 x $1\frac{1}{8}$ " (BW) Full Thread (FT), mild steel.

HOW TO DETERMINE BEFORE WELD (BW) LENGTH

First establish the standing length of the stud after weld (AW).

Based on the diameter of the stud include the following additional length before weld (BW).

Diameters up through $\frac{9}{16}$ " add $\frac{1}{8}$ "

Diameters from $\frac{5}{8}$ " through $\frac{7}{8}$ " add $\frac{3}{16}$ "

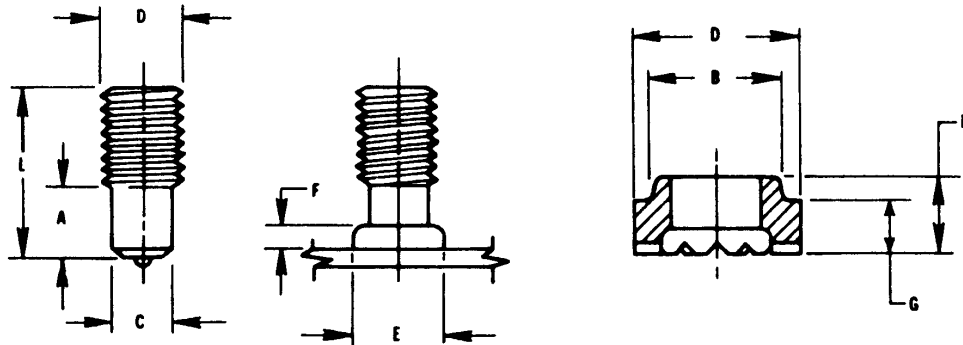
Diameters 1" through $1\frac{1}{4}$ " add $\frac{1}{4}$ "

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RB REDUCED BASE STUD



STUD SPECIFICATIONS						FERRULE SPECIFICATIONS				
D	Min. L.	C	A	Fillet Dimension		No.	D	B	G	M
				E	F					
1/4-20	3/4	.187	.187	5/16	3/32	FM-025	.455	.380	.265	.390
5/16-18	3/4	.272	.187	13/32	7/64	FF-031-X	.578	.445	.281	.437
3/8-16	3/4	.312	.375	15/32	7/64	FM-037	.590	.505	.125	.250
1/2-13	1	.437	.437	17/32	1/8	FM-050	.740	.650	.125	.281
5/8-11	1 1/4	.500	.547	19/32	5/32	FM-062	.875	.785	.174	.328
3/4-10	1 1/2	.620	.797	3/4	3/16	FF-062	1.030	.785	.328	.516
7/8-9	1 1/2	.745	.922	59/64	1/4	FF-075	1.215	1.030	.469	.656
1-8	1 3/4	.875	1.078	1 3/64	5/16	FF-087	1.408	1.210	.545	.732

HOW TO ORDER

Specify diameter, thread size before weld (BW) length, type of material.

EXAMPLE

3/8-16 x 1" (BW) reduce base (RB), mild steel.

HOW TO DETERMINE BEFORE WELD (BW) LENGTH

First establish the standing length of the stud after weld (AW).

Based on the diameter of the stud include the following additional length before weld (BW).

Diameters up through 9/16" add 1/8"

Diameters from 5/8" through 7/8" add 3/16"

Diameters 1" through 1-1/4" add 1/4"

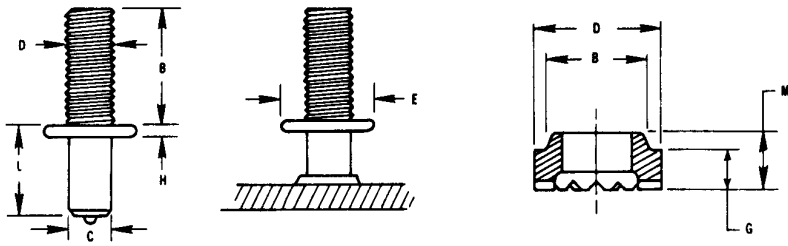
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COLLAR STUDS



How To Order:

Specify base diameter, before weld (BW) length to the top of the collar, thread size and length, type of material.

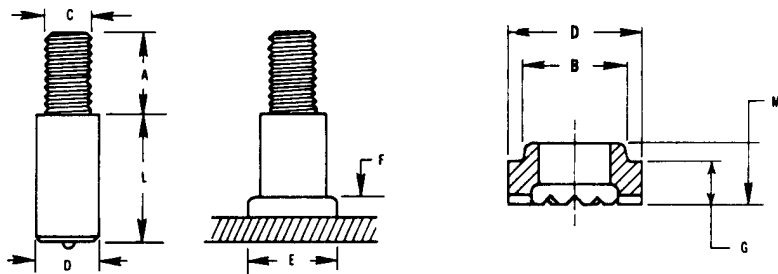
Example:

.330 x 1-1/2"(BW) with a 3/8-16 x 3/4" thread extension, collar stud (CK), mild steel.

STUD SPECIFICATIONS						FERRULE SPECIFICATIONS				
D	Std. B	Min. L.	C	E	H	No.	D	B	G	M
1/4-20	5/8	3/8	.214	1/2	3/32	FK-025	.875	.785	.110	.235
5/16-18	5/8	3/8	.273	5/8	3/32	FK-031	.875	.785	.095	.235
3/8-16	5/8	3/8	.331	5/8	3/32	FK-037	.875	.785	.095	.235
1/2-13	3/4	1/2	.446	3/4	3/32	FK-050	1.030	.921	.125	.250



SHOULDER STUDS



How To Order:

Specify base diameter, before weld (BW) length of the base, thread size and length, type of material.

Example:

1/2" base diameter, 1-1/8" before weld (BW) length, with a 3/8-16" x 3/4" thread extension (SB), stainless steel.

STUD SPECIFICATIONS						FERRULE SPECIFICATIONS				
D	Std. B	Min. L.	C	E	H	No.	D	B	G	M
1/4-20	5/8	3/8	.214	1/2	3/32	FK-025	.875	.785	.110	.235
5/16-18	5/8	3/8	.273	5/8	3/32	FK-031	.875	.785	.095	.235
3/8-16	5/8	3/8	.331	5/8	3/32	FK-037	.875	.785	.095	.235
1/2-13	3/4	1/2	.446	3/4	3/32	FK-050	1.030	.921	.125	.250

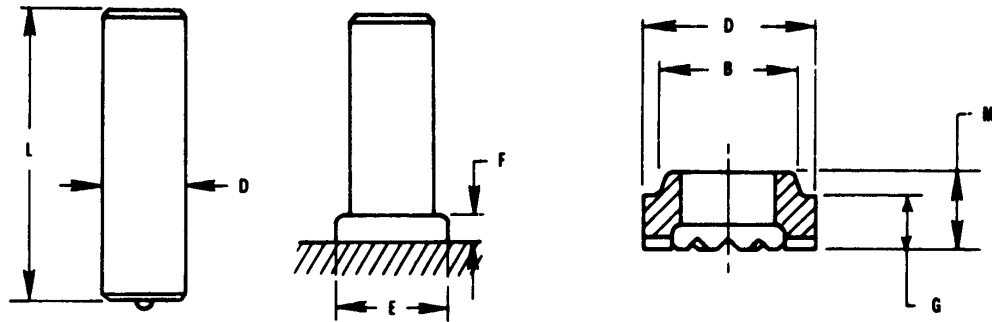
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No Thread Stud



STUD SPECIFICATIONS				FERRULE SPECIFICATIONS				
D	Min. L	Fillet Dimension		No.	D	B	G	M
		E	F					
$\frac{3}{16}$	$\frac{25}{32}$	$\frac{9}{32}$	$\frac{3}{32}$	FF-019	.390	.305	.234	.390
$\frac{1}{4}$	$\frac{25}{32}$	$\frac{23}{64}$	$\frac{7}{64}$	FF-025	.455	.385	.234	.390
$\frac{5}{16}$	$\frac{25}{32}$	$\frac{7}{16}$	$\frac{7}{64}$	FF-031	.578	.445	.234	.390
$\frac{3}{8}$	$\frac{25}{32}$	$\frac{1}{2}$	$\frac{1}{8}$	FF-037	.640	.505	.234	.390
$\frac{7}{16}$	$\frac{25}{32}$	$\frac{19}{32}$	$\frac{9}{64}$	FF-043	.703	.585	.234	.422
$\frac{1}{2}$	$\frac{13}{16}$	$\frac{11}{16}$	$\frac{5}{32}$	FF-050	.795	.650	.250	.438
$\frac{5}{8}$	$\frac{31}{32}$	$\frac{7}{8}$	$\frac{3}{16}$	FF-062	1.030	.785	.328	.516
$\frac{3}{4}$	$1\frac{15}{64}$	$1\frac{1}{64}$	$\frac{1}{4}$	FF-075	1.215	1.030	.469	.656
$\frac{7}{8}$	$1\frac{1}{2}$	$1\frac{1}{8}$	$\frac{5}{16}$	FF-087	1.408	1.210	.545	.732
1	$1\frac{41}{64}$	$1\frac{3}{8}$	$\frac{3}{8}$	FF-100	1.610	1.406	.633	.820

HOW TO ORDER

Specify base diameter, before weld (BW) length, tap size and depth, type of material.

EXAMPLE

$\frac{3}{8}$ x $1\frac{1}{2}$ " (BW) No Thread (NT), stainless steel.

HOW TO DETERMINE BEFORE WELD (BW) LENGTH

First establish the standing length of the stud after weld (AW).

Based on the diameter of the stud include the following additional length before weld (BW).

Diameters up through $\frac{9}{16}$ " add $\frac{1}{8}$ "

Diameters from $\frac{5}{8}$ " through $\frac{7}{8}$ " add $\frac{3}{16}$ "

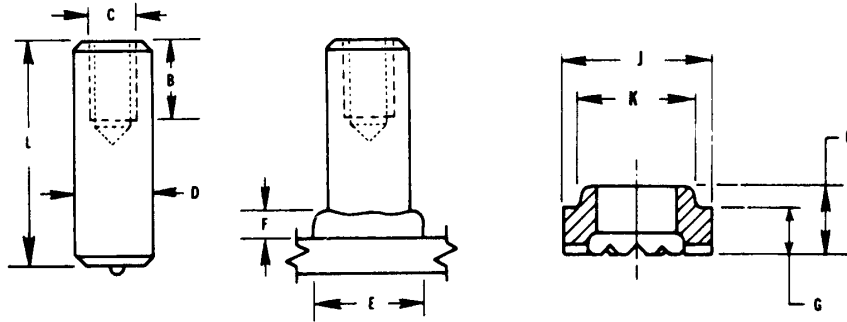
Diameters 1" through $1\frac{1}{4}$ " add $\frac{1}{4}$ "

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TS TAPPED STUD



STUD SPECIFICATIONS								FERRULE SPECIFICATIONS				
Tap		Minimum Length										
C	B	D=1/2 Max.	D=5/8 to 3/4	D=7/8 Over	Fillet Dimension		STUD DIA. D	No.	J	K	G	M
					E	F						
8- 32	1/4	9/16	5/8	11/16	23/64	7/64	1/8	FF-025	.455	.380	.234	.390
10-24	9/32	21/32	22/32	25/32	7/16	7/64	5/16	FF-031	.578	.445	.234	.390
1/4- 20	3/8	13/16	7/8	15/16	1/2	1/8	3/8	FF-037	.640	.505	.234	.390
5/16-18	15/32	29/32	31/32	1 1/32	19/32	9/64	7/16	FF-043	.703	.585	.234	.422
3/8- 16	9/16	1 1/32	1 7/64	1 5/32	11/16	5/32	1/2	FF-050	.795	.650	.250	.438
7/16-14	21/32		1 9/32	1 11/32	7/8	3/16	5/8	FF-062	1.030	.785	.328	.516
1/2- 13	3/4		1 3/8	1 7/16	1 1/16	1/4	3/4	FF-075	1.215	1.030	.469	.656
5/8- 11	15/16		1 5/8	1 11/16	1 1/8	5/16	7/8	FF-087	1.408	1.210	.545	.732
3/4- 10	1.125		2		1 3/8	3/8	1	FF-100	1.610	1.406	.633	.820

HOW TO ORDER

Specify base diameter, finished length before weld (BW) length, tap size, tap depth and type of material.

EXAMPLE

5/8 x 1-1/4" (BW) Tapped Stud (TS) with a 3/8-16 x 7/16 tap, mild steel.

HOW TO DETERMINE BEFORE WELD (BW) LENGTH

First establish the standing length of the stud after weld (AW).

Based on the diameter of the stud include the following additional length before weld (BW).

Diameters up through 9/16" add 1/8"

Diameters from 5/8" through 7/8" add 3/16"

Diameters 1" through 1-1/4" add 1/4"

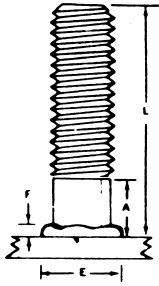
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PARTIAL THREAD STAINLESS STEEL STUDS

Before Weld (BW)



**STAINLESS STEEL
Partial Thread**

DESCRIPTION	PART #
1/4-20 X 7/8	PDBSS25X087
1/4-20 X 1	PDBSS25X100
1/4-20 X 1-1/8	PDBSS25X112
1/4-20 X 1-1/4	PDBSS25X125
1/4-20 X 1-3/8	PDBSS25X138
1/4-20 X 1-1/2	PDBSS25X150
1/4-20 X 1-5/8	PDBSS25X162
1/4-20 X 1-3/4	PDBSS25X175
1/4-20 X 2	PDBSS25X200
1/4-20 X 2-1/8	PDBSS25X212
1/4-20 X 3-3/8	PDBSS25X338
5/16-18 X 7/8	PDBSS312X087
5/16-18 X 1	PDBSS312X100
5/16-18 X 1-1/8	PDBSS312X112
5/16-18 X 1-1/4	PDBSS312X125
5/16-18 X 1-3/8	PDBSS312X138
5/16-18 X 1-1/2	PDBSS312X150
5/16-18 X 1-5/8	PDBSS312X162
5/16-18 X 1-3/4	PDBSS312X175
5/16-18 X 2	PDBSS312X200
5/16-18 X 3	PDBSS312X300
5/16-18 X 4	PDBSS312X400
3/8-16 X 7/8	PDBSS38X087
3/8-16 X 1	PDBSS38X100
3/8-16 X 1-1/8	PDBSS38X112
3/8-16 X 1-3/8	PDBSS38X138
3/8-16 X 1-1/2	PDBSS38X150
3/8-16 X 1-5/8	PDBSS38X162
3/8-16 X 1-3/4	PDBSS38X175
3/8-16 X 2	PDBSS38X200
3/8-16 X 2-1/8	PDBSS38X212
3/8-16 X 2-1/4	PDBSS38X225

DESCRIPTION	PART #
3/8-16 X 2-3/8	PDBSS38X238
3/8-16 X 2-1/2	PDBSS38X250
3/8-16 X 2-5/8	PDBSS38X262
3/8-16 X 2-3/4	PDBSS38X275
3/8-16 X 2-7/8	PDBSS38X287
3/8-16 X 3	PDBSS38X300
3/8-16 X 3-1/8	PDBSS38X312
3/8-16 X 3-1/2	PDBSS38X350
3/8-16 X 4	PDBSS38X400
3/8-16 X 5	PDBSS38X500
3/8-16 X 6	PDBSS38X600

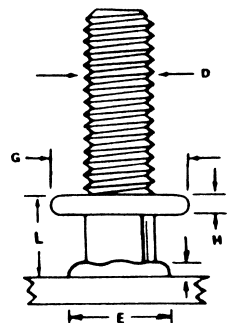
DESCRIPTION	PART #
1/2-13 X 1	PDBSS50X100
1/2-13 X 1-1/8	PDBSS50X112
1/2-13 X 1-1/2	PDBSS50X150
1/2-13 X 1-5/8	PDBSS50X162
1/2-13 X 1-3/4	PDBSS50X175
1/2-13 X 1-7/8	PDBSS50X187
1/2-13 X 2	PDBSS50X200
1/2-13 X 2-1/8	PDBSS50X212
1/2-13 X 2-1/4	PDBSS50X225
1/2-13 X 2-3/8	PDBSS50X238
1/2-13 X 2-1/2	PDBSS50X250
1/2-13 X 2-5/8	PDBSS50X262
1/2-13 X 2-3/4	PDBSS50X275
1/2-13 X 2-7/8	PDBSS50X287
1/2-13 X 3	PDBSS50X300
1/2-13 X 3-1/8	PDBSS50X312
1/2-13 X 3-1/4	PDBSS50X325
1/2-13 X 3-1/2	PDBSS50X350
1/2-13 X 3-3/4	PDBSS50X375
1/2-13 X 4	PDBSS50X400
1/2-13 X 4-1/2	PDBSS50X450
1/2-13 X 5	PDBSS50X500
1/2-13 X 6	PDBSS50X600

DESCRIPTION	PART #
5/8-11 X 1-1/4	PDBSS62X125
5/8-11 X 1-1/2	PDBSS62X150
5/8-11 X 1-5/8	PDBSS62X162
5/8-11 X 1-3/4	PDBSS62X175
5/8-11 X 1-7/8	PDBSS62X187
5/8-11 X 2	PDBSS62X200
5/8-11 X 2-1/8	PDBSS62X212
5/8-11 X 2-1/4	PDBSS62X225
5/8-11 X 2-1/2	PDBSS62X250
5/8-11 X 2-5/8	PDBSS62X262
5/8-11 X 2-3/4	PDBSS62X275
5/8-11 X 3	PDBSS62X300
5/8-11 X 3-1/8	PDBSS62X312
5/8-11 X 3-1/2	PDBSS62X350
5/8-11 X 4	PDBSS62X400
5/8-11 X 5	PDBSS62X500
5/8-11 X 6	PDBSS62X600
3/4-10 X 1-1/2	PDBSS75X150
3/4-10 X 1-3/4	PDBSS75X175
3/4-10 X 2	PDBSS75X200
3/4-10 X 2-1/8	PDBSS75X212
3/4-10 X 2-1/4	PDBSS75X225
3/4-10 X 2-1/2	PDBSS75X250
3/4-10 X 2-3/4	PDBSS75X275
3/4-10 X 3	PDBSS75X300
3/4-10 X 3-1/2	PDBSS75X350
3/4-10 X 4	PDBSS75X400
3/4-10 X 4-1/2	PDBSS75X450
3/4-10 X 5	PDBSS75X500
3/4-10 X 6	PDBSS75X600

STRAIGHT LENGTH STUDS Collar Studs

DESCRIPTION	
.330 x 1/2 (3/8 x 5/8 Threaded Ext.)	CS
.330 x 5/8 (3/8 x 5/8 Threaded Ext.)	CS
.330 x 1-1/8 (3/8 x 5/8 Threaded Ext.)	CS
.330 x 2-1/8 (3/8 x 5/8 Threaded Ext.)	CS

BEFORE WELD (BW)

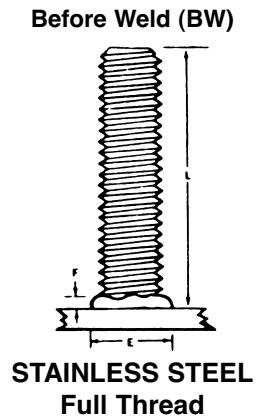


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FULL THREAD STAINLESS STEEL STUDS



DESCRIPTION	PART #
10-24 X 3/4	PDSS1024X075
10-24 X 7/8	PDSS1024X087
10-24 X 1	PDSS1024X100
10-32 X 3/4	PDSS1032X075
10-32 X 1	PDSS1032X100
1/4-20 X 5/8	PDSS25X062
1/4-20 X 3/4	PDSS25X075
1/4-20 X 7/8	PDSS25X087
1/4-20 X 1	PDSS25X100
1/4-20 X 1-1/8	PDSS25X112
1/4-20 X 1-1/4	PDSS25X125
1/4-20 X 1-3/8	PDSS25X138
1/4-20 X 1-1/2	PDSS25X150
1/4-20 X 1-5/8	PDSS25X162
1/4-20 X 2	PDSS25X200
5/16-18 X 5/8	PDSS312X062
5/16-18 X 3/4	PDSS312X075
5/16-18 X 7/8	PDSS312X087
5/16-18 X 1	PDSS312X100
5/16-18 X 1-1/8	PDSS312X112
5/16-18 X 1-1/4	PDSS312X125
5/16-18 X 1-3/8	PDSS312X138
5/16-18 X 1-1/2	PDSS312X150
3/8-16 X 3/4	PDSS38X075
3/8-16 X 7/8	PDSS38X087
3/8-16 X 1	PDSS38X100
3/8-16 X 1-1/8	PDSS38X112
3/8-16 X 1-1/4	PDSS38X125
3/8-16 X 1-3/8	PDSS38X138
3/8-16 X 1-1/2	PDSS38X150
3/8-16 X 1-3/4	PDSS38X175
1/2-13 X 7/8	PDSS50X087
1/2-13 X 1	PDSS50X100
1/2-13 X 1-1/8	PDSS50X112
1/2-13 X 1-1/4	PDSS50X125
1/2-13 X 1-3/8	PDSS50X138
1/2-13 X 1-1/2	PDSS50X150
1/2-13 X 1-5/8	PDSS50X162

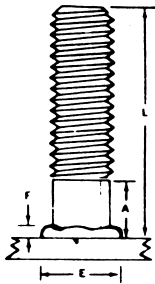
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PARTIAL THREAD MILD STEEL STUDS

Before Weld (BW)



MILD STEEL
Partial Thread

DESCRIPTION	PART #	DESCRIPTION	PART #	DESCRIPTION	PART #
1/4-20 X 7/8	PDBMS25X087	3/8-16 X 2-3/8	PDBMS38X238	5/8-11 X 1-1/4	PDBMS62X125
1/4-20 X 1	PDBMS25X100	3/8-16 X 2-1/2	PDBMS38X250	5/8-11 X 1-1/2	PDBMS62X150
1/4-20 X 1-1/8	PDBMS25X112	3/8-16 X 2-5/8	PDBMS38X262	5/8-11 X 1-5/8	PDBMS62X162
1/4-20 X 1-1/4	PDBMS25X125	3/8-16 X 2-3/4	PDBMS38X275	5/8-11 X 1-3/4	PDBMS62X175
1/4-20 X 1-3/8	PDBMS25X138	3/8-16 X 2-7/8	PDBMS38X287	5/8-11 X 1-7/8	PDBMS62X187
1/4-20 X 1-1/2	PDBMS25X150	3/8-16 X 3	PDBMS38X300	5/8-11 X 2	PDBMS62X200
1/4-20 X 1-5/8	PDBMS25X162	3/8-16 X 3-1/8	PDBMS38X312	5/8-11 X 2-1/8	PDBMS62X212
1/4-20 X 1-3/4	PDBMS25X175	3/8-16 X 3-1/2	PDBMS38X350	5/8-11 X 2-1/4	PDBMS62X225
1/4-20 X 2	PDBMS25X200	3/8-16 X 4	PDBMS38X400	5/8-11 X 2-1/2	PDBMS62X250
1/4-20 X 2-1/8	PDBMS25X212	3/8-16 X 5	PDBMS38X500	5/8-11 X 2-5/8	PDBMS62X262
1/4-20 X 3-3/8	PDBMS25X338	3/8-16 X 6	PDBMS38X600	5/8-11 X 2-3/4	PDBMS62X275
5/16-18 X 7/8	PDBMS312X087	1/2-13 X 1	PDBMS50X100	5/8-11 X 3	PDBMS62X300
5/16-18 X 1	PDBMS312X100	1/2-13 X 1-1/8	PDBMS50X112	5/8-11 X 3-1/8	PDBMS62X312
5/16-18 X 1-1/8	PDBMS312X112	1/2-13 X 1-1/2	PDBMS50X150	5/8-11 X 3-1/2	PDBMS62X350
5/16-18 X 1-1/4	PDBMS312X125	1/2-13 X 1-5/8	PDBMS50X162	5/8-11 X 4	PDBMS62X400
5/16-18 X 1-3/8	PDBMS312X138	1/2-13 X 1-3/4	PDBMS50X175	5/8-11 X 5	PDBMS62X500
5/16-18 X 1-1/2	PDBMS312X150	1/2-13 X 1-7/8	PDBMS50X187	5/8-11 X 6	PDBMS62X600
5/16-18 X 1-5/8	PDBMS312X162	1/2-13 X 2	PDBMS50X200		
5/16-18 X 1-3/4	PDBMS312X175	1/2-13 X 2-1/8	PDBMS50X212		
5/16-18 X 2	PDBMS312X200	1/2-13 X 2-1/4	PDBMS50X225	3/4-10 X 1-1/2	PDBMS75X150
5/16-18 X 3	PDBMS312X300	1/2-13 X 2-1/2	PDBMS50X238	3/4-10 X 1-3/4	PDBMS75X175
5/16-18 X 4	PDBMS312X400	1/2-13 X 2-3/8	PDBMS50X250	3/4-10 X 2	PDBMS75X200
3/8-16 X 7/8	PDBMS38X087	1/2-13 X 2-1/2	PDBMS50X262	3/4-10 X 2-1/8	PDBMS75X212
3/8-16 X 1	PDBMS38X100	1/2-13 X 2-5/8	PDBMS50X275	3/4-10 X 2-1/4	PDBMS75X225
3/8-16 X 1-1/8	PDBMS38X112	1/2-13 X 2-3/4	PDBMS50X287	3/4-10 X 2-1/2	PDBMS75X250
3/8-16 X 1-3/8	PDBMS38X138	1/2-13 X 2-7/8	PDBMS50X290	3/4-10 X 2-3/4	PDBMS75X275
3/8-16 X 1-1/2	PDBMS38X150	1/2-13 X 3	PDBMS50X300	3/4-10 X 3	PDBMS75X300
3/8-16 X 1-5/8	PDBMS38X162	1/2-13 X 3-1/8	PDBMS50X312	3/4-10 X 3-1/2	PDBMS75X350
3/8-16 X 1-3/4	PDBMS38X175	1/2-13 X 3-1/4	PDBMS50X325	3/4-10 X 4	PDBMS75X400
3/8-16 X 2	PDBMS38X200	1/2-13 X 3-1/2	PDBMS50X350	3/4-10 X 4-1/2	PDBMS75X450
3/8-16 X 2-1/8	PDBMS38X212	1/2-13 X 3-3/4	PDBMS50X375	3/4-10 X 5	PDBMS75X500
3/8-16 X 2-1/4	PDBMS38X225	1/2-13 X 4	PDBMS50X400	3/4-10 X 6	PDBMS75X600
		1/2-13 X 4-1/2	PDBMS50X450		
		1/2-13 X 5	PDBMS50X500		
		1/2-13 X 6	PDBMS50X600		

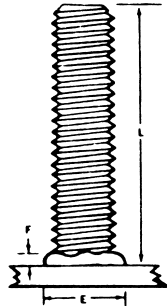
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FULL THREAD MILD STEEL STUDS

Before Weld (BW)



MILD STEEL
Full Thread

DESCRIPTION	PART #
10-24 X 3/4	PDMS1024X075
10-24 X 7/8	PDMS1024X087
10-24 X 1	PDMS1024X100
10-32 X 3/4	PDMS1032X075
10-32 X 1	PDMS1032X100
1/4-20 X 5/8	PDMS25X062
1/4-20 X 3/4	PDMS25X075
1/4-20 X 7/8	PDMS25X087
1/4-20 X 1	PDMS25X100
1/4-20 X 1-1/8	PDMS25X112
1/4-20 X 1-1/4	PDMS25X125
1/4-20 X 1-3/8	PDMS25X138
1/4-20 X 1-1/2	PDMS25X150
1/4-20 X 1-5/8	PDMS25X162
1/4-20 X 2	PDMS25X200
5/16-18 X 5/8	PDMS312X062
5/16-18 X 3/4	PDMS312X075
5/16-18 X 7/8	PDMS312X087
5/16-18 X 1	PDMS312X100
5/16-18 X 1-1/8	PDMS312X112
5/16-18 X 1-1/4	PDMS312X125
5/16-18 X 1-3/8	PDMS312X138
5/16-18 X 1-1/2	PDMS312X150
3/8-16 X 3/4	PDMS38X075
3/8-16 X 7/8	PDMS38X087
3/8-16 X 1	PDMS38X100
3/8-16 X 1-1/8	PDMS38X112
3/8-16 X 1-1/4	PDMS38X125
3/8-16 X 1-3/8	PDMS38X138
3/8-16 X 1-1/2	PDMS38X150
3/8-16 X 1-3/4	PDMS38X175
1/2-13 X 7/8	PDMS50X087
1/2-13 X 1	PDMS50X100
1/2-13 X 1-1/8	PDMS50X112
1/2-13 X 1-1/4	PDMS50X125
1/2-13 X 1-3/8	PDMS50X138
1/2-13 X 1-1/2	PDMS50X150
1/2-13 X 1-5/8	PDMS50X162

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