

# ARC WELDING ORDERING CRITERIA & INFORMATION

## HOW TO ORDER STRAIGHT ARC STUDS

To Quote We Need To Know:

- 1) TYPE OF METAL, STYLE OF STUD & PLATING IF REQUIRED.
- 2) {D} DIAMETER & THREAD PITCH, IF THREADED
- 3) {L} \* OVERALL (AFTER WELD) LENGTH OF STUD, ALLOW FOR WELD REDUCTION;  
 1/8" FOR STUD DIAMETERS UP TO 1/2"  
 3/16" FOR STUD DIAMETERS 5/8" & LARGER

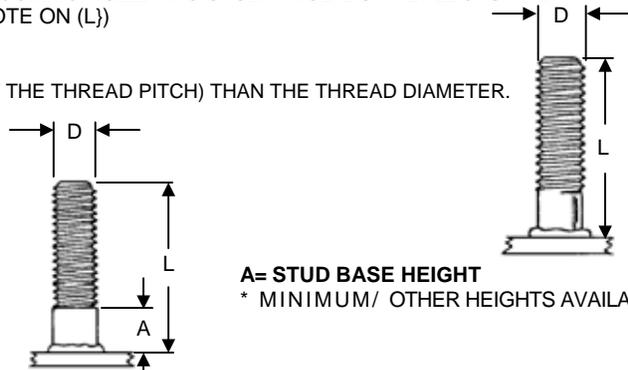


\* THE {L} LENGTH OF COLLAR STUDS ARE MEASURED FROM THE WELDING END OF THE STUD TO THE TOP OF THE COLLAR. THE LENGTH OF THE THREADED EXTENSION IS SPECIFIED SEPARATELY. THE MOST COMMON THREAD EXTENSION LENGTH IS 5/8".

- 4) {A} WELD BASE HEIGHT. THE CHART BELOW SHOWS THE FIXED HEIGHT FOR DIFFERENT SIZES OF PITCH BASE & FULL THREAD STUDS. FULL DIAMETER & REDUCED DIAMETER BASE STUDS HAVE A VARIETY OF BASE HEIGHTS, FOR THESE CHART (A) LISTS THE MINIMUM HEIGHT. THE COMMON SIZE ARC STUD PRICE LIST REFLECTS THE MINIMUM BASE HEIGHT. (N/A FOR COLLAR STUDS SEE NOTE ON (L))

### PITCH DIAMETER BASE (PB)

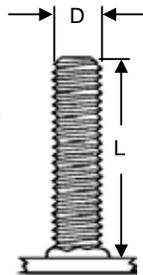
THE STUD BASE DIAMETER IS SMALLER (BY THE THICKNESS OF THE THREAD PITCH) THAN THE THREAD DIAMETER.



A= STUD BASE HEIGHT  
 \* MINIMUM/ OTHER HEIGHTS AVAILABLE

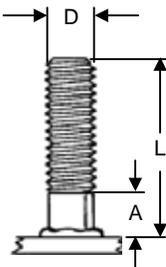
### FULL DIAMETER BASE (FDB)

THE STUD BASE AND THREAD DIAMETER ARE THE SAME



### FULL THREAD (FT)

THE STUD LENGTH, AFTER WELDING, IS FULLY THREADED.

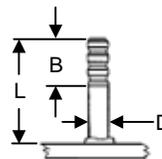


### REDUCED DIAMETER BASE (RDB)

THE STUD BASE DIAMETER IS REDUCED SO THAT THE DIAMETER OF THE FINAL WELD FILLET WILL NOT EXTEND BEYOND THE DIAMETER OF THE THREADS. BE SURE THAT THE SMALLER BASE ALLOWS ENOUGH STRENGTH.

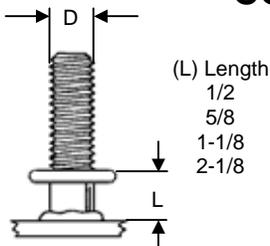
STUD DIA.	PB	*FDB	FT	*RDB
8			1/8	
10		3/8	1/8	
1/4	3/8	3/8	1/8	3/8
5/16	3/8	3/8	1/8	3/8
3/8	25/64	1/2	1/8	3/8
7/16	7/16	1/2	1/8	3/8
1/2	1/2	1/2	1/4	7/16
5/8	5/8	1/2	1/4	29/64
3/4	51/64	5/8	1/4	37/64
7/8	55/64	3/4	1/4	5/8
1	59/64	1	1/4	15/16

### NAVY ANNULAR RING INSULATION STUDS



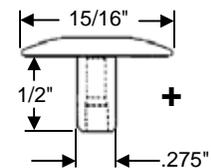
DIAMETER	MINIMUM* (AW) LENGTH	MINIMUM THREAD LENGTH
D	L	B
.125	5/8	.312
.187	5/8	.312

### COLLAR STUDS (CS)



(L) Length  
 1/2  
 5/8  
 1-1/8  
 2-1/8

COMMON SIZES – CARBON STEEL  
 (D) 3/8-16 X 5/8" THREADED EXTENSION  
 PROVIDED IN PACKS OF 100 & 1000  
 CALL FOR PART NO. & PRICE INFORMATION



ALUMINUM MUSHROOM CAP



DOUBLE POINTED PIN

+ CALL FOR QUOTE