

ARC WELD Studs

Pitch Diameter Mild Steel

		BODY DIAMETER & THREAD PITCH					
		1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
Length	5/8	PDC25-62	PDC31-62	PDC37-62			
	3/4	PDC25-75	PDC31-75	PDC37-75			
	7/8	PDC25-87	PDC31-87	PDC37-87			
	1	PDC25-1	PDC31-1	PDC37-1	PDC50-1		
	1 1/8	PDC25-112	PDC31-112	PDC37-112	PDC50-112		
	1 1/4	PDC25-125	PDC31-125	PDC37-125	PDC50-125		
	1 3/8	PDC25-137	PDC31-137	PDC37-137	PDC50-137		
	1 1/2	PDC25-150	PDC31-150	PDC37-150	PDC50-150		
	1 5/8	PDC25-162	PDC31-162	PDC37-162	PDC50-162	PDC62-162	PDC75-162
	1 3/4	PDC25-175	PDC31-175	PDC37-175	PDC50-175	PDC62-175	PDC75-175
	1 7/8	PDC25-187	PDC31-187	PDC37-187	PDC50-187	PDC62-187	PDC75-187
	2	PDC25-2	PDC31-2	PDC37-2	PDC50-2	PDC62-2	PDC75-2
	2 1/4	PDC25-225	PDC31-225	PDC37-225	PDC50-225	PDC62-225	PDC75-225
	2 1/2	PDC25-250	PDC31-250	PDC37-250	PDC50-250	PDC62-250	PDC75-250
	2 3/4	PDC25-275	PDC31-275	PDC37-275	PDC50-275	PDC62-275	PDC75-275
	3	PDC25-3	PDC31-3	PDC37-3	PDC50-3	PDC62-3	PDC75-3
	MIN L	5/8	5/8	5/8	1	1 5/8	1 5/8
	MAX L	Up to 3" is considered a stocking size. Beyond 3" is a custom order.					
Base Dim.	Diameter	.215"	.275"	.330"	.446"	.562"	.680"
	Length	.375" +.063 -.000	.375" +.063 -.000	.375" +.063 -.000	.500" +.063 -.000	.625" +.063 -.000	.790" +.063 -.000
Fillet	Height	.11 ± .02"	.13 ± .02"	.13 ± .02"	.17 ± .02"	.17 ± .02"	.25 ± .02"
	Diameter	.32 ± .02"	.39 ± .02"	.43 ± .02"	.58 ± .02"	.71 ± .02"	.84 ± .02"
After Weld Length Reduction (approx)		.12"	.12"	.12"	.12"	.19"	.19"

STANDARD ACCESSORIES						
Chuck	C25	C31	C37	C50	C62	C75
Grip	G25	G31	G37	G50	G62	G75
Foot	FTS20	FTS20	FTS20	FTS20	FTM20	FTM20
Ferrule	25P	31P	37P	50P	62P	75P

MECHANICAL PROPERTIES						
(see appendix tables for calculation details particularly when comparing different manufacturers)						
Min Working Tensile	1,074 lb	1,770 lb	2,615 lb	4,789 lb	7,628 lb	11,288 lb
Min Yield Shear	1,072 lb	1,731 lb	2,534 lb	4,589 lb	7,258 lb	10,634 lb
Min Working Torque	4.5 ft•lb	9.3 ft•lb	16.3 ft•lb	39.9 ft•lb	79.4 ft•lb	141.1 ft•lb
Min Yield Torque	5.4 ft•lb	11.1 ft•lb	19.6 ft•lb	47.9 ft•lb	95.3 ft•lb	169.3 ft•lb

Pitch Diameter and Full Thread Studs are the two most common types of Standard Drawn Arc Weld Studs. The primary advantage of a Pitch Diameter Stud versus a Full Thread Stud is in shear value. The Pitch Diameter Stud will have a higher shear value than the same size Full Thread Stud. This is due to the slightly larger base diameter of a Pitch Diameter Stud. However, since a Pitch Diameter Stud is not fully threaded it may not be appropriate for your specific application. A Pitch Diameter Stud is best suited when there is a mating part that covers the unthreaded portion of the weld stud.



IMAGE INDUSTRIES INC.

382 Balm Court • Wood Dale, IL 60191 USA

Tel: (630) 766-7373 • (800) 722-7883 • Fax: (630) 766-2402

Pitch Diameter Stainless Steel

DRAWN ARC WELD STUD

		BODY DIAMETER & THREAD PITCH					
		1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
Length	5/8	PDS25-62	PDS31-62	PDS37-62			
	3/4	PDS25-75	PDS31-75	PDS37-75			
	7/8	PDS25-87	PDS31-87	PDS37-87			
	1	PDS25-1	PDS31-1	PDS37-1	PDS50-1		
	1 1/8	PDS25-112	PDS31-112	PDS37-112	PDS50-112		
	1 1/4	PDS25-125	PDS31-125	PDS37-125	PDS50-125		
	1 3/8	PDS25-137	PDS31-137	PDS37-137	PDS50-137		
	1 1/2	PDS25-150	PDS31-150	PDS37-150	PDS50-150		
	1 5/8	PDS25-162	PDS31-162	PDS37-162	PDS50-162	PDS62-162	PDS75-162
	1 3/4	PDS25-175	PDS31-175	PDS37-175	PDS50-175	PDS62-175	PDS75-175
	1 7/8	PDS25-187	PDS31-187	PDS37-187	PDS50-187	PDS62-187	PDS75-187
	2	PDS25-2	PDS31-2	PDS37-2	PDS50-2	PDS62-2	PDS75-2
	2 1/4	PDS25-225	PDS31-225	PDS37-225	PDS50-225	PDS62-225	PDS75-225
	2 1/2	PDS25-250	PDS31-250	PDS37-250	PDS50-250	PDS62-250	PDS75-250
	2 3/4	PDS25-275	PDS31-275	PDS37-275	PDS50-275	PDS62-275	PDS75-275
	3	PDS25-3	PDS31-3	PDS37-3	PDS50-3	PDS62-3	PDS75-3
		MIN L	5/8	5/8	5/8	1	1 5/8
	MAX L	Up to 3" is considered a stocking size. Beyond 3" is a custom order.					
Base Dim.	Diameter	.215"	.275"	.330"	.446"	.562"	.680"
	Length	.375" +.063 -.000	.375" +.063 -.000	.375" +.063 -.000	.500" +.063 -.000	.625" +.063 -.000	.790" +.063 -.000
Fillet	Height	.11 ± .02"	.13 ± .02"	.13 ± .02"	.17 ± .02"	.17 ± .02"	.25 ± .02"
	Diameter	.32 ± .02"	.39 ± .02"	.43 ± .02"	.58 ± .02"	.71 ± .02"	.84 ± .02"
After Weld Length Reduction (approx)		.12"	.12"	.12"	.12"	.19"	.19"

STANDARD ACCESSORIES						
Chuck	C25	C31	C37	C50	C62	C75
Grip	G25	G31	G37	G50	G62	G75
Foot	FTS20	FTS20	FTS20	FTS20	FTM20	FTM20
Ferrule	25P	31P	37P	50P	62P	75P

MECHANICAL PROPERTIES						
(see appendix tables for calculation details particularly when comparing different manufacturers)						
Min Working Tensile	644 lb	1,062 lb	1,569 lb	2,873 lb	4,577 lb	6,773 lb
Min Yield Shear	643 lb	1,039 lb	1,520 lb	2,753 lb	4,355 lb	6,380 lb
Min Working Torque	2.7 ft•lb	5.5 ft•lb	9.8 ft•lb	23.9 ft•lb	47.7 ft•lb	84.7 ft•lb
Min Yield Torque	3.3 ft•lb	6.7 ft•lb	11.8 ft•lb	28.8 ft•lb	57.2 ft•lb	101.6 ft•lb

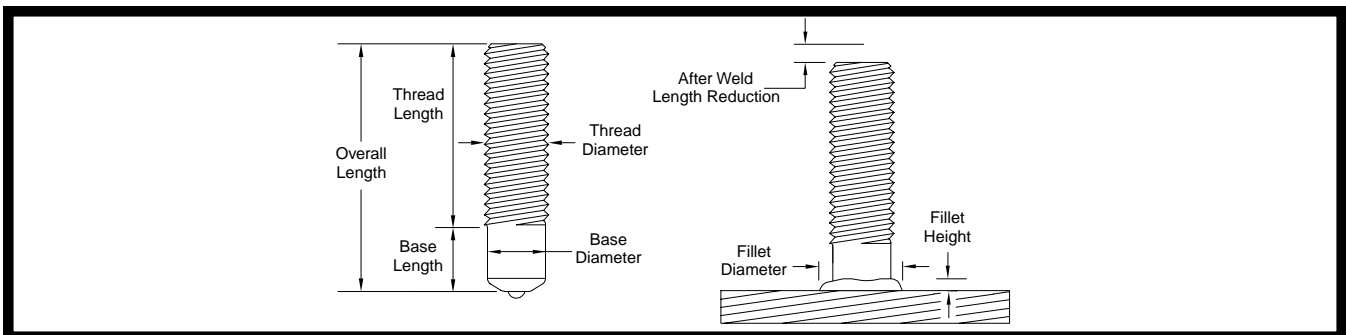


IMAGE INDUSTRIES INC.

382 Balm Court • Wood Dale, IL 60191 USA

Tel: (630) 766-7373 • (800) 722-7883 • Fax: (630) 766-2402