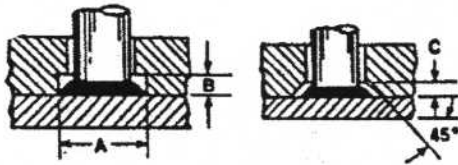


ARC STUD WELD FILLET ACCOMMODATION

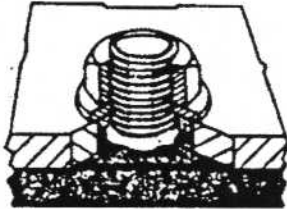


COUNTER BORE OR
COUNTER SINK METHODS

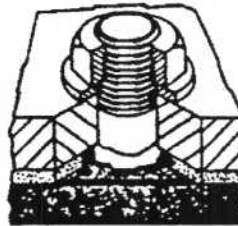
When an arc stud is welded, a fillet forms around its base with the fillet dimensions being closely controlled by the design of the ferrule used. Since the diameter of the fillet is generally larger than the diameter of the stud, some consideration is required in the design of mating parts. MIDWEST FASTENERS recommends a counter bore and counter sink method for this application. Dimensions will vary with studs and ferrules. Additional methods of accommodating fillet include oversized clearance holes, use of a gasket material around the fillet or use of a dog type construction.

STUD SIZE (in.)	COUNTERBORE (in.)		90° COUNTERSINK (in.)
	A	B	C
1/4	0.437	0.125	0.125
5/16	0.500	0.125	0.125
3/8	0.593	0.125	0.125
7/16	0.656	0.187	0.125
1/2	0.750	0.187	0.187
5/8	0.875	0.218	0.187
3/4	1.125	0.312	0.187

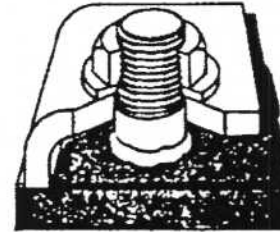
SEVERAL OPTIONAL METHODS OF FILLET ACCOMMODATION:



(A) OVERSIZE
CLEARANCE HOLE



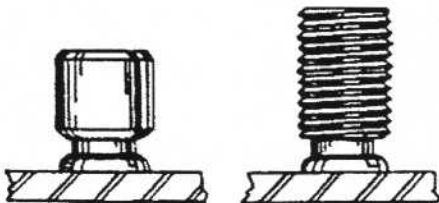
(B) GASKET
MATERIAL



(C) DOG CLAMP

IF AN OVERSIZE FILLET DOES NOT
MEET THE APPLICATION:

A MIDWEST FASTENERS weld stud designed with a reduced weld base is available so that the weld fillet does not exceed the maximum diameter of fastener. This design is not recommended if full fastener strength is important.



All information contained herein subject to change without notice.

NEW-AGE
FASTENING SYSTEMS, INC.

Studwelding Equipment, Fasteners & Supplies
Boiler Outage Specialists
Jobsite Studwelding Division
P.O. Box 5658, Deptford, NJ 08096
Phone: (856) 218-8301
Fax: (856) 218-8305
Toll Free: (888) 889-3833
steve@newagestudwelding.com