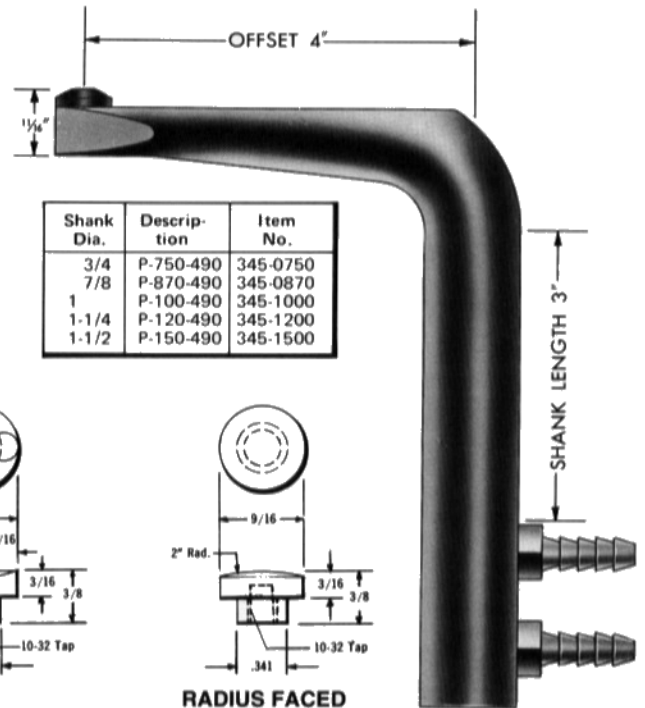


# Tuffaloy paddle-type holders

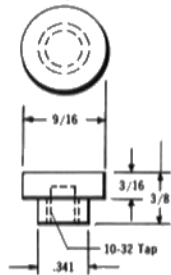
## TUFFALOY Paddle-Type Holders and Socket-Type Tips

This holder is for welding in very restricted areas. It provides a very low head height and a four-inch offset. It is made in shank diameters of 3/4, 7/8, 1, and 1-1/4 inches. An adapter bushing is used to add a 1-1/2-in. dia. model to the line. Each holder comes complete with a socket-type tip (SE-3101) and holding screw. The tip may be inserted in either side of the paddle. Holders are of Class 2 alloy. Tips are available in Class 1, Class 2, Class 3 alloy, or Z alloy.

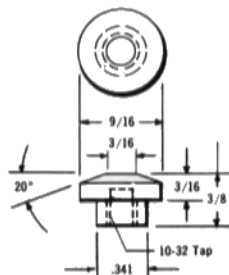
The four socket-type tips shown here can be used in special welding fixtures and dies as well as in the paddle-type holders.



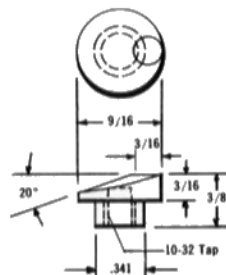
Shank Dia.	Description	Item No.
3/4	P-750-490	345-0750
7/8	P-870-490	345-0870
1	P-100-490	345-1000
1-1/4	P-120-490	345-1200
1-1/2	P-150-490	345-1500



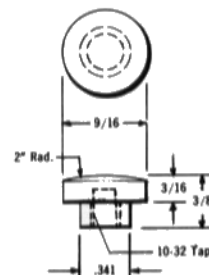
**FLAT FACED**  
**Class 1 SE-3099-1:**  
 Item No. 170-3099-1  
**Class 2 SE-3099:**  
 Item No. 170-3099  
**Class 3 SE-3111:**  
 Item No. 170-3111  
**ZIRC SE-3099-Z**  
 Item No. 170-3099-Z



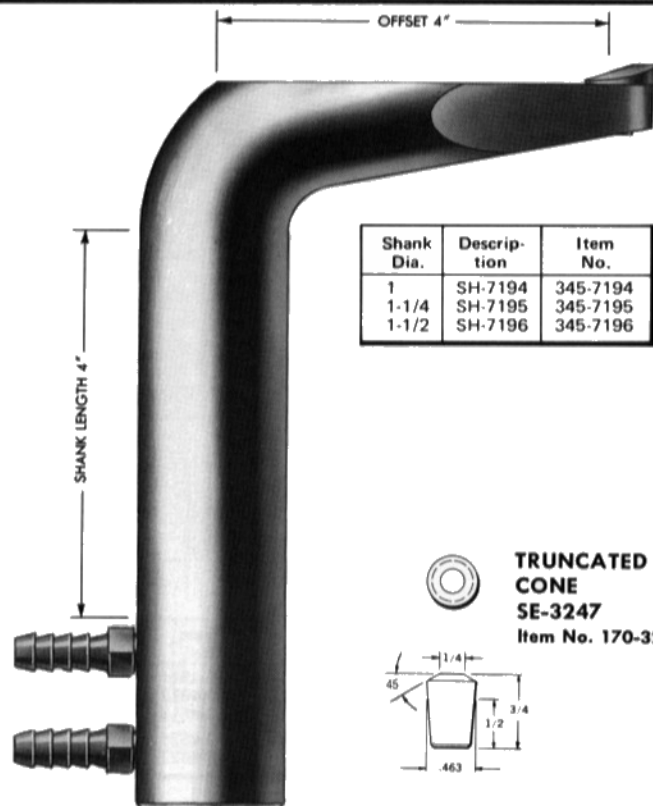
**TRUNCATED CONE**  
**Class 1 SE-3101-1:**  
 Item No. 170-3101-1  
**Class 2 SE-3101:**  
 Item No. 170-3101  
**Class 3 SE-3113:**  
 Item No. 170-3113  
**ZIRC SE-3101-Z**  
 Item No. 170-3101-Z



**OFFSET**  
**Class 1 SE-3102-1:**  
 Item No. 170-3102-1  
**Class 2 SE-3102:**  
 Item No. 170-3102  
**Class 3 SE-3123:**  
 Item No. 170-3123  
**ZIRC SE-3102-Z**  
 Item No. 170-3101-Z



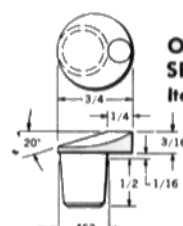
**RADIUS FACED**  
**Class 1 SE-3110-1:**  
 Item No. 170-3110-1  
**Class 2 SE-3110:**  
 Item No. 170-3110  
**Class 3 SE-3133:**  
 Item No. 170-3133  
**ZIRC SE-3110-Z**  
 Item No. 170-3110-Z



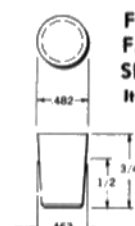
Shank Dia.	Description	Item No.
1	SH-7194	345-7194
1-1/4	SH-7195	345-7195
1-1/2	SH-7196	345-7196



**TRUNCATED CONE**  
**SE-3247**  
 Item No. 170-3247



**OFFSET**  
**SE-3248**  
 Item No. 170-3248



**FLAT FACED**  
**SE-3249**  
 Item No. 170-3249

## TUFFALOY HEAVY-DUTY Paddle-Type Holders and Tips

TUFFALOY heavy-duty paddle-type holders are made of the stronger Class 3 alloy, for greater rigidity and minimum deflection, even under loads of 1000 pounds and more. Class 3 alloy provides 154% more tensile strength (up to 100,000 psi). Head height is a low 1/4 -in. and the shank length is a usable 4 inches.

Three low-profile electrodes of Class 2 alloy are offered for use in this heavy-duty holder. If applications permit greater head height, any standard No. 4 RW tip may be used.