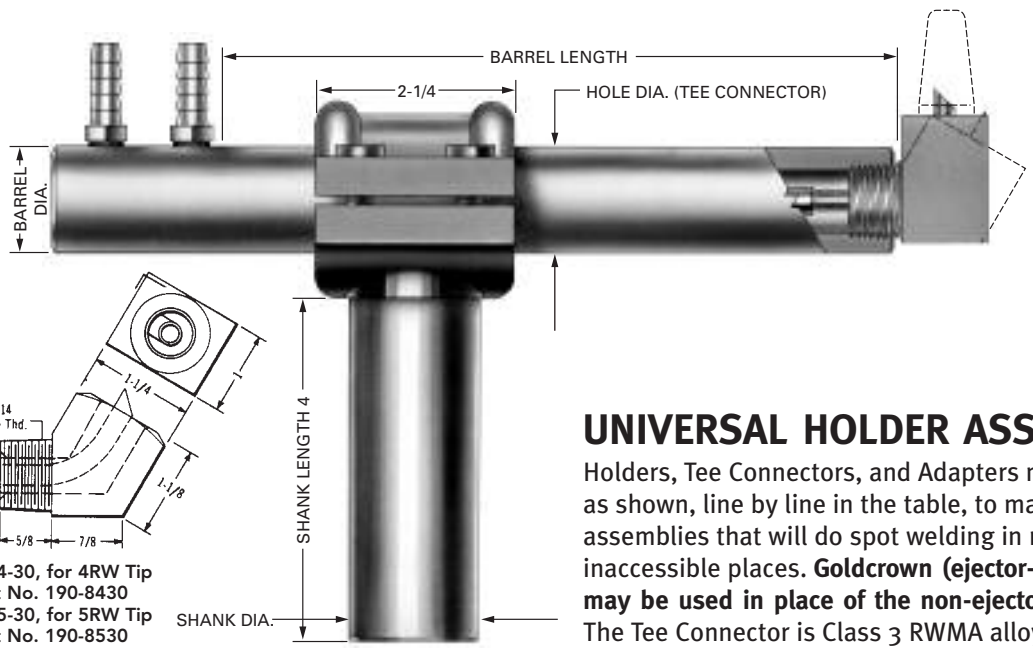
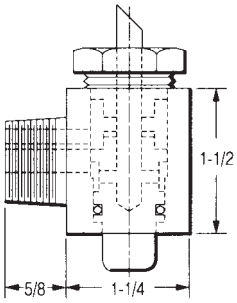


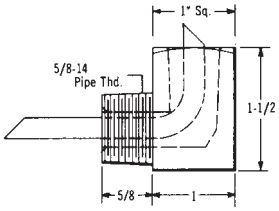


AD-584-90E, for 4RW Tip
Part No. 190-9490
AD-585-90E, for 5RW Tip
Part No. 190-9590

AD-584-30, for 4RW Tip
Part No. 190-8430
AD-585-30, for 5RW Tip
Part No. 190-8530

UNIVERSAL HOLDER ASSEMBLIES

Holders, Tee Connectors, and Adapters may be assembled as shown, line by line in the table, to make up holder assemblies that will do spot welding in many otherwise inaccessible places. **Goldcrown (ejector-type) holders may be used in place of the non-ejector holders listed.** The Tee Connector is Class 3 RWMA alloy.



AD-584-90, for 4RW Tip
Part No. 190-8490
AD-585-90, for 5RW Tip
Part No. 190-8590

HOLDERS				TEE CONNECTORS			
Barrel Dia.	Barrel Length	Description.	Part No.	Hole Dia.	Shank Dia.	Description	Part No.
1	8	N-08085-A	325-0235	1	1	T-1-1	192-1100
1-1/4	8	N-10085-A	325-0295	1-1/4	1	T-1	192-1000
1-1/4	8	N-10085-A	325-0295	1-1/4	1	T-1	192-1000
1-1/4	8	N-10085-A	325-0295	1-1/4	1-1/4	T-125	192-1250
1-1/4	8	N-10085-A	325-0295	1-1/4	1-1/4	T-125	192-1250
1-1/4	8	N-10085-A	325-0295	1-1/4	1-1/4	T-125	192-1250
1-1/2	8	N-12085-A	325-0375	1-1/2	1-1/2	T-15	192-1500
1-1/2	8	N-12085-A	325-0375	1-1/2	1-1/2	T-15	192-1500
1-1/2	8	N-12085-A	325-0375	1-1/2	1-1/2	T-15	192-1500

ADAPTERS TO CHOOSE FROM			
Tip Socket	Angle Degrees	Description	Part No.
4RW	90	AD-584-90	190-8490
4RW	30	AD-584-30	190-8430
5RW	90	AD-585-90	190-8590
5RW	30	AD-585-30	190-8530
6RW	90	AD-586-90	190-8690

WELDER ARMS TUFFALOY

Class 2 spot welding machine arms made by Tuffaloy reduce set up time and give longer life.

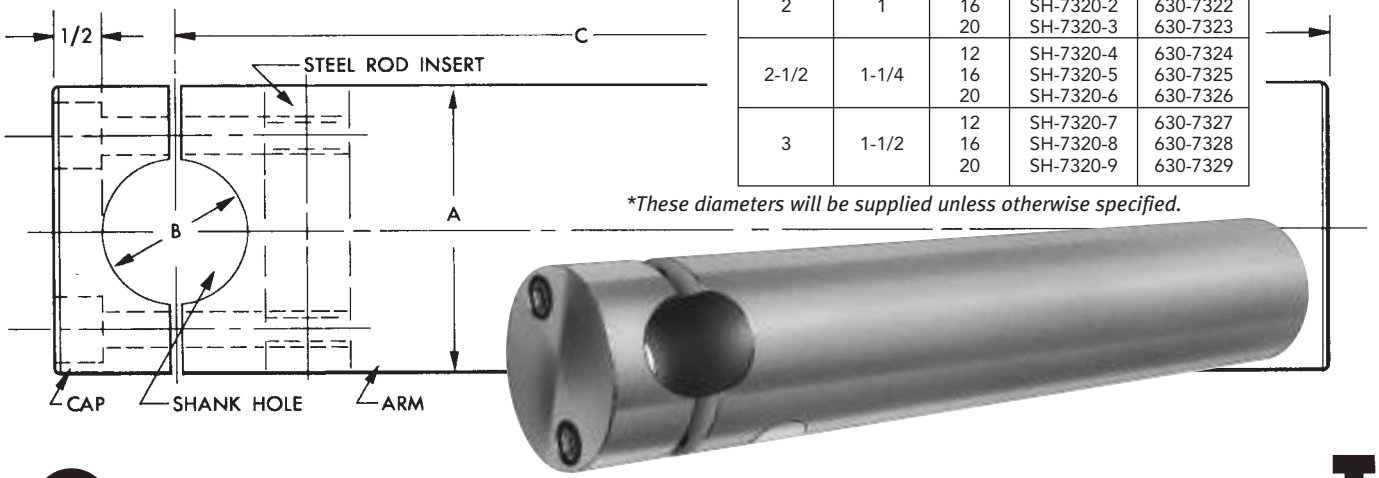
Electrode holder shanks can be attached to these arms from the front, by bolting the cap over them. This means no extra clearance is required between the arms to allow running a shank up (or down) into a hole in the arm. It makes the insertion of Tuffaloy multiple-welding holders much easier.

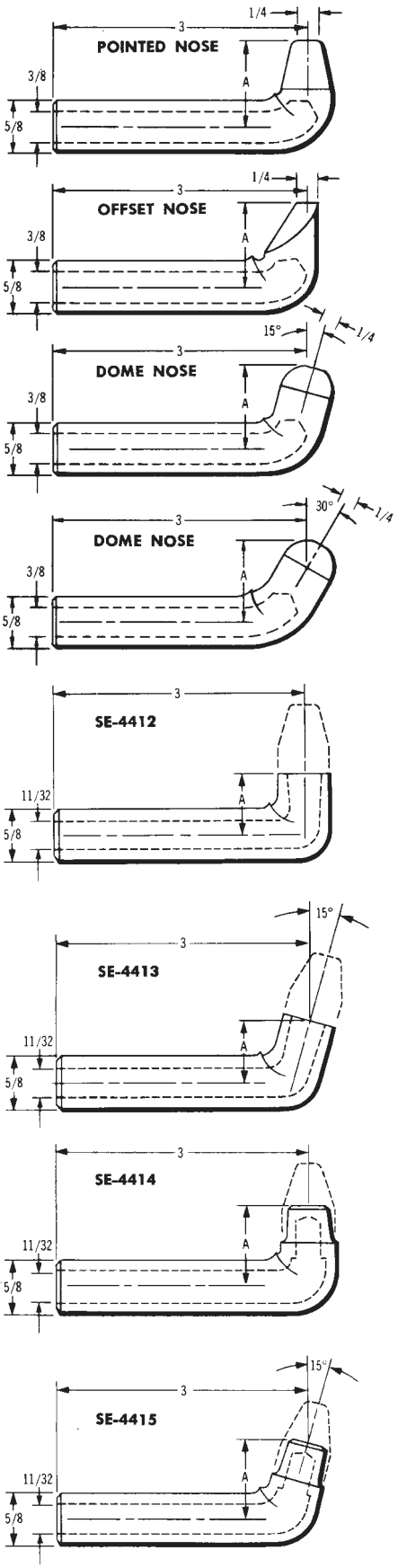
One of the most common failures of welder arms is the destruction of the bolt hole threads, due to the relatively soft copper involved. Tuffaloy arms have a transverse steel bar insert in which the bolt hole threads are cut. This provides greatly increased thread life.

Standard arm configurations are shown in the table. Special arms are also available.

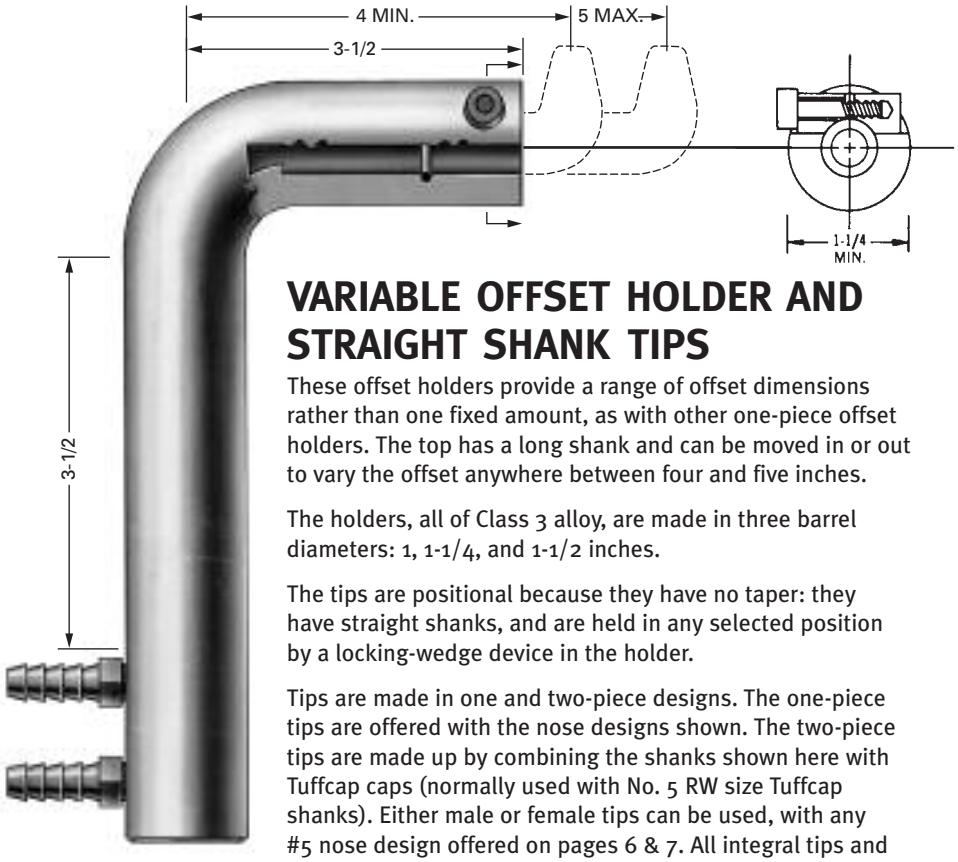
A Arm Diameter	B Hole Diameter*	C Arm Length	Description	Part No.
2	1	12	SH-7320-1	630-7321
		16	SH-7320-2	630-7322
		20	SH-7320-3	630-7323
2-1/2	1-1/4	12	SH-7320-4	630-7324
		16	SH-7320-5	630-7325
		20	SH-7320-6	630-7326
3	1-1/2	12	SH-7320-7	630-7327
		16	SH-7320-8	630-7328
		20	SH-7320-9	630-7329

**These diameters will be supplied unless otherwise specified.*





VARIABLE-OFFSET HOLDERS		
Shank Dia.	Description	Part No.
1	SH-7223	345-7223
1-1/4	SH-7224	345-7224
1-1/2	SH-7225	345-7225



VARIABLE OFFSET HOLDER AND STRAIGHT SHANK TIPS

These offset holders provide a range of offset dimensions rather than one fixed amount, as with other one-piece offset holders. The top has a long shank and can be moved in or out to vary the offset anywhere between four and five inches.

The holders, all of Class 3 alloy, are made in three barrel diameters: 1, 1-1/4, and 1-1/2 inches.

The tips are positional because they have no taper: they have straight shanks, and are held in any selected position by a locking-wedge device in the holder.

Tips are made in one and two-piece designs. The one-piece tips are offered with the nose designs shown. The two-piece tips are made up by combining the shanks shown here with Tuffcap caps (normally used with No. 5 RW size Tuffcap shanks). Either male or female tips can be used, with any #5 nose design offered on pages 6 & 7. All integral tips and shanks shown here are of Class 2 alloy.

STRAIGHT-SHANK TIPS			
Type of Tip	Nose Length 'A'	Description	Part No.
Pointed	1"	SE-4408-1	170-4408
Offset	1"	SE-4409-1	170-4409
15° Dome	1"	SE-4410-1	170-4410
30° Dome	1"	SE-4411-1	170-4411
Pointed	2"	SE-4408-2	170-4418
Offset	2"	SE-4409-2	170-4419
15° Dome	2"	SE-4410-2	170-4420
30° Dome	2"	SE-4411-2	170-4421

STRAIGHT-SHANK TUFFCAP SHANKS				
Tuffcap Cap Type	Nose Length 'A'	Angle	Description	Part No.
Male	3/4"	90°	SE-4412	170-4422
Male	3/4"	15°	SE-4413	170-4423
Female	1"	90°	SE-4414	170-4424
Female	1"	15°	SE-4415	170-4425