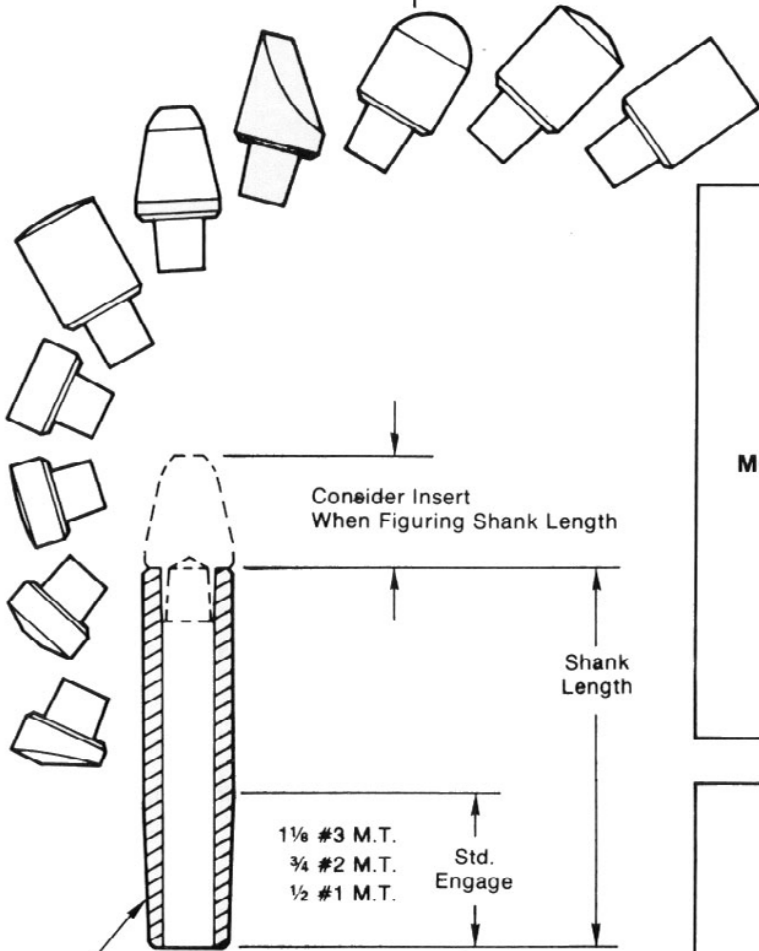


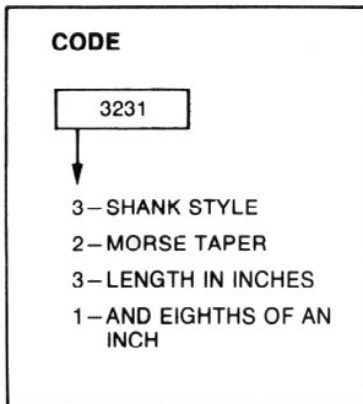
# PACIFIC

## STRAIGHT SHANKS



Standard Morse Tapers  
To R.W. Specifications

ALL SHANKS ARE MADE FROM  
R.W.M.A. CLASS II ALLOY



	PART No.	SHANK LENGTH
<b>No. 1 MORSE TAPER SHANKS</b>	3105	$\frac{5}{8}$
	3107	$\frac{7}{8}$
	3111	$1\frac{1}{8}$
	3113	$1\frac{3}{8}$
	3115	$1\frac{5}{8}$
	3117	$1\frac{7}{8}$
	3121	$2\frac{1}{8}$
	3123	$2\frac{3}{8}$
	3125	$2\frac{5}{8}$
	3127	$2\frac{7}{8}$
	3131	$3\frac{1}{8}$
	3133	$3\frac{3}{8}$
	3135	$3\frac{5}{8}$
	3137	$3\frac{7}{8}$
	3141	$4\frac{1}{8}$
3143	$4\frac{3}{8}$	

<b>No. 2 MORSE TAPER SHANKS</b>	3206	$\frac{3}{4}$
	3207	$\frac{7}{8}$
	3211	$1\frac{1}{8}$
	3213	$1\frac{3}{8}$
	3215	$\frac{5}{8}$
	3217	$1\frac{1}{8}$
	3221	$2\frac{1}{8}$
	3223	$2\frac{3}{8}$
	3225	$2\frac{5}{8}$
	3227	$2\frac{7}{8}$
	3231	$3\frac{1}{8}$
	3233	$3\frac{3}{8}$
	3235	$3\frac{5}{8}$
	3237	$3\frac{7}{8}$
	3241	$4\frac{1}{8}$
3243	$4\frac{3}{8}$	

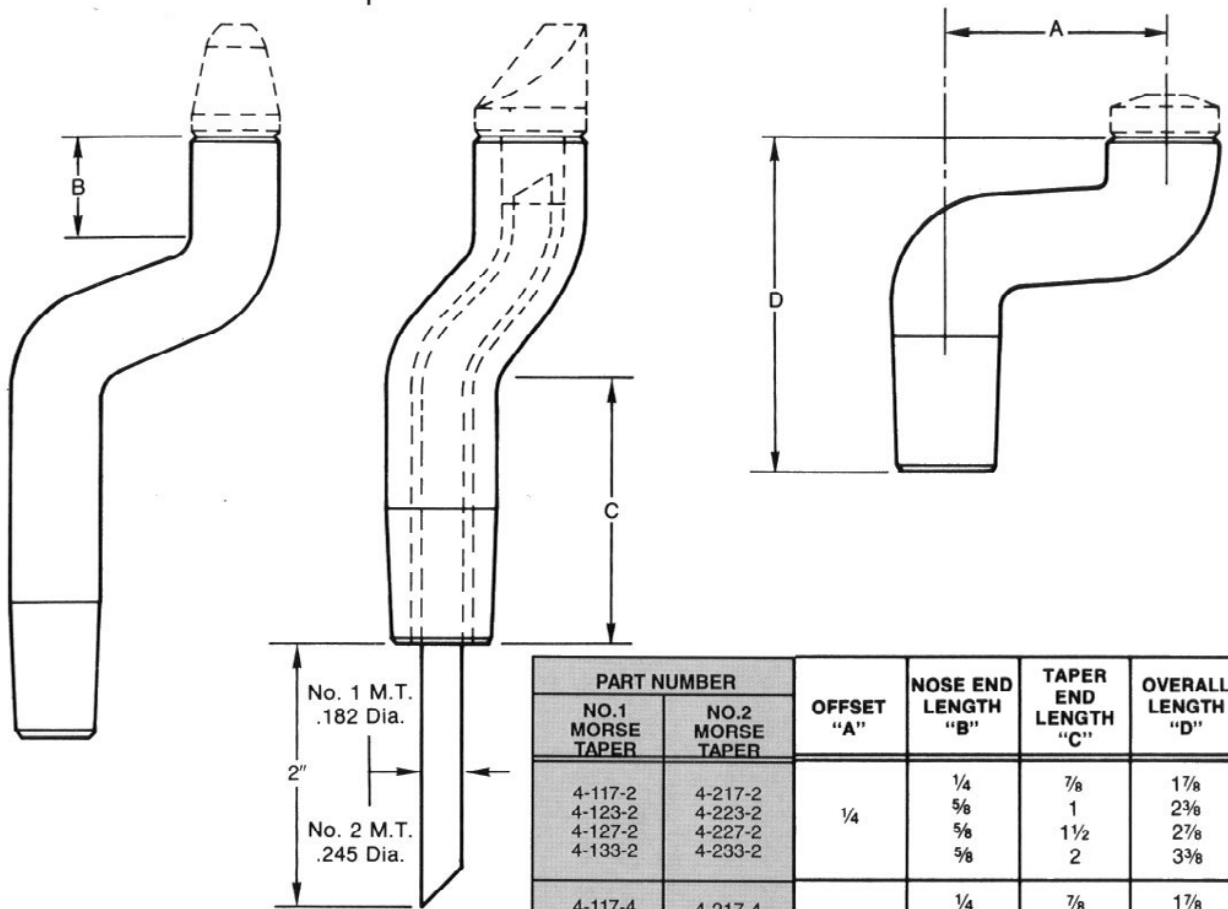
<b>No. 3 MORSE TAPER SHANKS</b>	3314	$1\frac{1}{2}$
	3320	2
	3324	$2\frac{1}{2}$
	3330	3
	3334	$3\frac{1}{2}$
	3340	4

# PACIFIC

## DOUBLE BEND SHANKS

No. 1 MORSE TAPER—USE SERIES "1" INSERTS—PAGE 12

No. 2 MORSE TAPER—USE SERIES "2" INSERTS—PAGE 13



PART NUMBER		OFFSET "A"	NOSE END LENGTH "B"	TAPER END LENGTH "C"	OVERALL LENGTH "D"		
NO.1 MORSE TAPER	NO.2 MORSE TAPER						
4-117-2 4-123-2 4-127-2 4-133-2	4-217-2 4-223-2 4-227-2 4-233-2	1/4	1/4 5/8 5/8 5/8	7/8 1 1 1/2 2	1 7/8 2 3/8 2 7/8 3 3/8		
4-117-4 4-123-4 4-127-4 4-133-4	4-217-4 4-223-4 4-227-4 4-233-4		1/2	1/4 5/8 5/8 5/8	7/8 1 1 1/2 2	1 7/8 2 3/8 2 7/8 3 3/8	
4-117-6 4-123-6 4-127-6 4-133-6	4-217-6 4-223-6 4-227-6 4-233-6			3/4	1/4 5/8 5/8 5/8	7/8 1 1 1/2 2	1 7/8 2 3/8 2 7/8 3 3/8
4-117-8 4-123-8 4-127-8 4-133-8	4-217-8 4-223-8 4-227-8 4-233-8				1	1/4 5/8 5/8 5/8	7/8 1 1 1/2 2
4-117-10 4-123-10 4-127-10 4-133-10	4-217-10 4-223-10 4-227-10 4-233-10	1 1/4				1/4 5/8 5/8 5/8	7/8 1 1 1/2 2
4-117-12 4-123-12 4-127-12 4-133-12	4-217-12 4-223-12 4-227-12 4-233-12		1 1/2			1/4 5/8 5/8 5/8	7/8 1 1 1/2 2
4-117-14 4-123-14 4-127-14 4-133-14	4-217-14 4-223-14 4-227-14 4-233-14			1 3/4		1/4 5/8 5/8 5/8	7/8 1 1 1/2 2

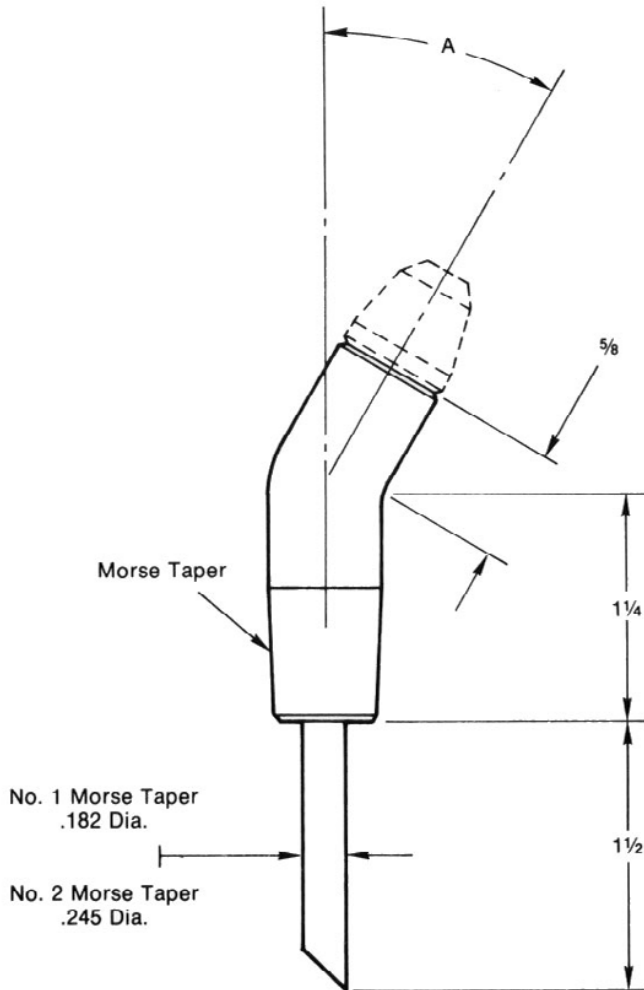
ALL SHANKS ARE FURNISHED  
WITH WATER TUBES

ALL SHANKS ARE COLD FORMED  
FROM R.W.M.A. CLASS II ALLOY

# PACIFIC

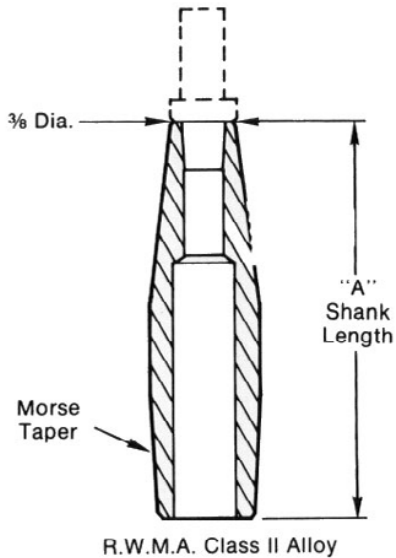
## SINGLE BEND SHANKS

COLD FORMED FROM R.W.M.A. CLASS II COPPER  
FOR USE WITH INSERTS SHOWN ON PAGES 12 AND 13



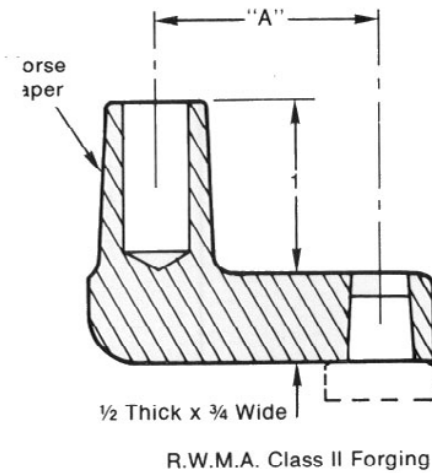
	A BEND	PART No.
<b>No. 1 MORSE TAPER</b>	15°	51-15
	30°	51-30
	45°	51-45
	60°	51-60
	75°	51-75
	90°	51-90
<b>No. 2 MORSE TAPER</b>	15°	52-15
	30°	52-30
	45°	52-45
	60°	52-60
	75°	52-75
	90°	52-90

# PACIFIC



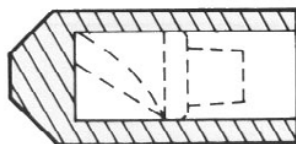
## TAPER NOSE SHANKS

PART NUMBER		"A" SHANK LENGTH	USE WITH INSERTS
No. 1 MORSE TAPER	No. 2 MORSE TAPER		
2114 2120 2124	2214 2220 2224	1½ 2 2½	Series "O" Page 11
2130 2134 2140	2230 2234 2240	3 3½ 4	



## OFFSET FORGED SHANKS

PART NUMBER		"A" OFFSET	USE WITH INSERTS
No. 1 MORSE TAPER	No. 2 MORSE TAPER		
OSF-10 OSF-11 OSF-12	OSF-20 OSF-21 OSF-22	1¼ 1¼ 1¼	Series "O" Page 11 Series "1" Page 12 Series "2" Page 13



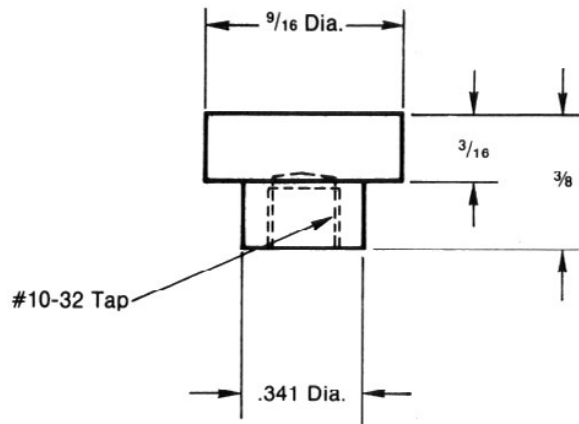
For Mating Offset Inserts Into Shanks  
Straight Without Damage To Taper

## INJECTOR PUNCH

PART NUMBER	USE WITH INSERTS
OP-1	Series "1" Page 12
OP-2	Series "2" Page 13

## SOCKET ELECTRODES SERIES "T" INSERTS

FOR USE WITH HOLDERS SHOWN ON PAGE 25



T-F-1	T-C-1	T-R-1	T-O-1	T-A-1
T-F-2	T-C-2	T-R-2	T-O-2	T-A-2

LAST DASH No. INDICATES CLASS OF ALLOY

# PACIFIC

## SERIES "O" INSERTS

**ECONOMICAL "O" SERIES INSERTS.  
OFFERED IN FOUR ALLOY CLASSES,  
DESIGNED FOR USE WITH THE  
FOLLOWING PACIFIC SHANKS.**

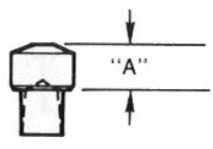
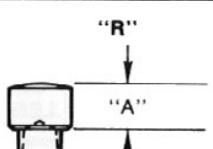
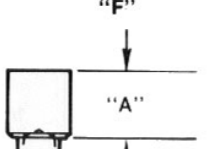
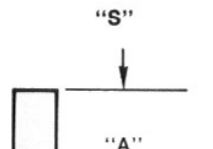
TAPER NOSE SHANKS (NO. 1 AND NO. 2 MORSE TAPER) PAGE 9  
OFFSET FORGED SHANKS (NO. 1 AND NO. 2 MORSE TAPER) PAGE 9

**CODE**

O-S5-2

↓

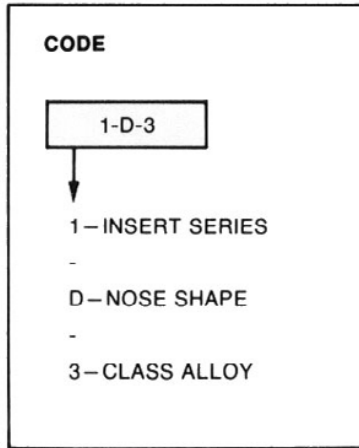
O – INSERT SERIES  
-  
S – NOSE SHAPE  
5 – "A" LENGTH IN EIGHTHS  
-  
2 – CLASS ALLOY

	PART NUMBER			"A" HEAD LENGTH	WELDING FACE DIA.	HEAD DIA.	SKIRT LENGTH
	CLASS I	CLASS II	CLASS III				
<p style="text-align: center;">"C"</p> 	O-C-1	O-C-2	O-C-3	1/4	5/32	3/8	1/4
<p style="text-align: center;">"R"</p> 	O-R-1	O-R-2	O-R-3	1/4	2" R	3/8	1/4
<p style="text-align: center;">"F"</p> 	O-F2-1 O-F3-1 O-F5-1	O-F2-2 O-F3-2 O-F5-2	O-F2-3 O-F3-3 O-F5-3	1/4 3/8 5/8	3/8	3/8	1/4
<p style="text-align: center;">"S"</p> 	O-S3-1 O-S4-1 O-S5-1 O-S7-1 O-S8-1	O-S3-2 O-S4-2 O-S5-2 O-S7-2 O-S8-2	O-S3-3 O-S4-3 O-S5-3 O-S7-3 O-S8-3	3/8 1/2 5/8 7/8 1"	1/4	3/8	1/4

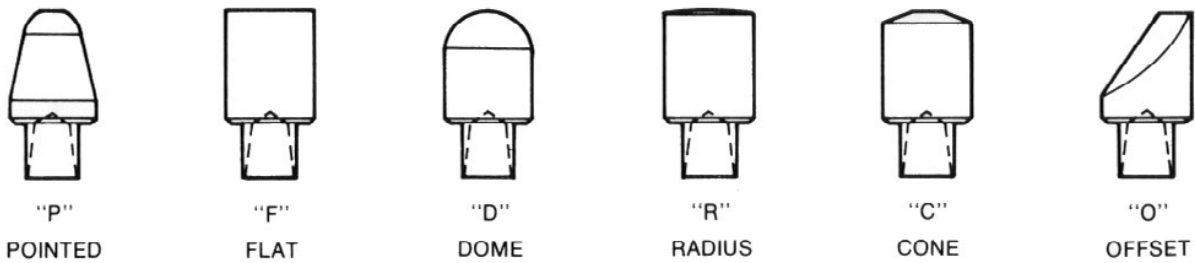
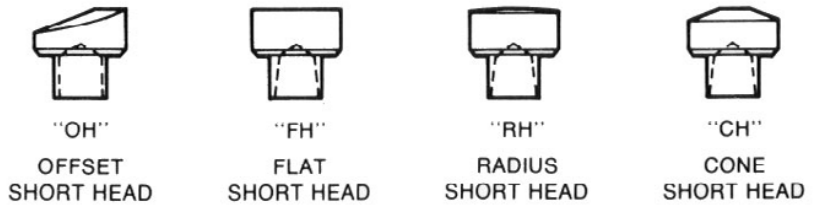
# PACIFIC

## SERIES "1" INSERTS

FOR USE WITH No. 1 MORSE TAPER PACIFIC SHANKS



STRAIGHT SHANKS PAGE 6  
DOUBLE BEND SHANKS PAGE 7  
SINGLE BEND SHANKS PAGE 8  
OFFSET FORGED SHANKS PAGE 9



		PART NUMBER			WELDING FACE DIA.	HEAD DIA.	HEAD LENGTH	SKIRT LENGTH
		CLASS I	CLASS II	CLASS III				
POINTED FLAT DOME	"P"	1-P-1	1-P-2	1-P-3	$\frac{3}{16}$ $\frac{1}{2}$ $\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{16}$
	"F"	1-F-1	1-F-2	1-F-3				
	"D"	1-D-1	1-D-2	1-D-3				
RADIUS CONE OFFSET	"R"	1-R-1	1-R-2	1-R-3	2" R $\frac{3}{16}$ $\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{16}$
	"C"	1-C-1	1-C-2	1-C-3				
	"O"	1-O-1	1-O-2	1-O-3				
SHORT HEAD	"OH"	1-OH-1 1-FH-1 1-RH-1 1-RH-1 1-CH-1	1-OH-2 1-FH-2 1-RH-2 1-RH-2 1-CH-2	1-OH-3 1-FH-3 1-RH-3 1-RH-3 1-CH-3	$\frac{3}{16}$ $\frac{1}{2}$ 2" R $\frac{3}{16}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
	"FH"							
	"RH"							
	"RH"							
	"CH"							

# PACIFIC

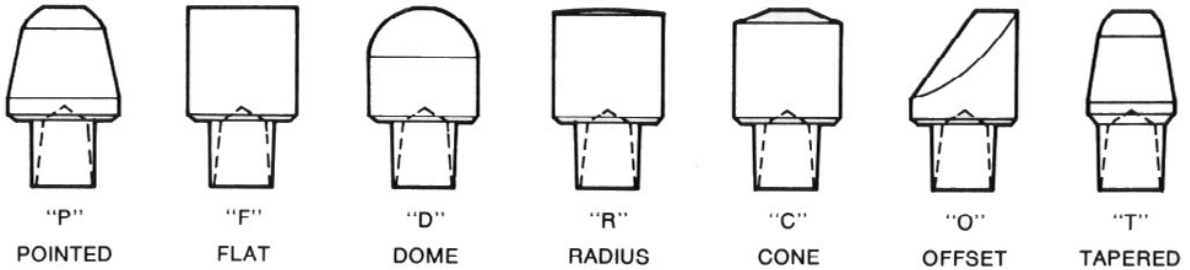
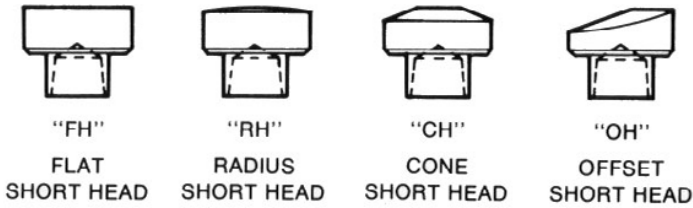
## SERIES "2" INSERTS

FOR USE WITH No. 2 MORSE TAPER PACIFIC SHANKS

STRAIGHT SHANKS PAGE 6  
 DOUBLE BEND SHANKS PAGE 7  
 SINGLE BEND SHANKS PAGE 8  
 OFFSET FORGED SHANKS PAGE 9

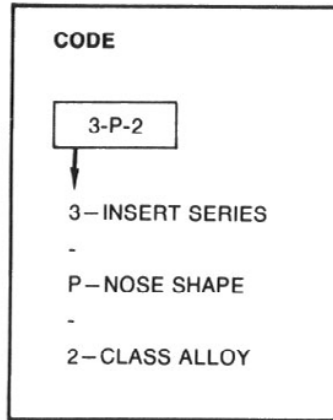
### CODE

2-P-2  
 ↓  
 2-INSERT SERIES  
 -  
 P-NOSE SHAPE  
 -  
 2-CLASS ALLOY



		PART NUMBER			WELDING FACE DIA.	HEAD DIA.	HEAD LENGTH	SKIRT LENGTH
		CLASS I	CLASS II	CLASS III				
POINTED FLAT DOME	"P"	2-P-1	2-P-2	2-P-3	1/4 5/8 1/8	5/8	5/8	3/8
	"F"	2-F-1	2-F-2	2-F-3				
	"D"	2-D-1	2-D-2	2-D-3				
RADIUS CONE OFFSET	"R"	2-R-1	2-R-2	2-R-3	2" R 1/4 1/4	5/8	5/8	3/8
	"C"	2-C-1	2-C-2	2-C-3				
	"O"	2-O-1	2-O-2	2-O-3				
TAPERED	"T"	2-T-1	2-T-2	2-T-3	1/4	1/2		
SHORT HEAD	"FH"	2-FH-1	2-FH-2	2-FH-3	5/8 2" R 1/4 1/4	5/8	1/4	1/4
	"RH"	2-RH-1	2-RH-2	2-RH-3				
	"CH"	2-CH-1	2-CH-2	2-CH-3				
	"OH"	2-OH-1	2-OH-2	2-OH-3				





FLAT  
SHORT HEAD  
"FH"



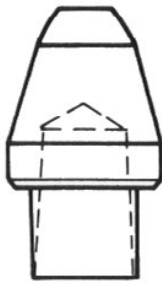
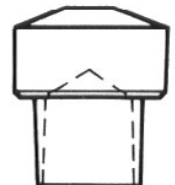
OFFSET  
SHORT HEAD  
"OH"



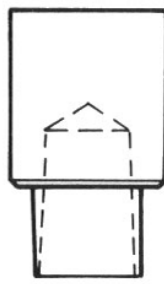
RADIUS  
SHORT HEAD  
"RH"



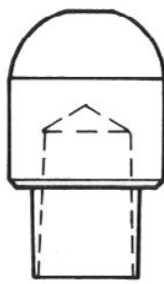
CONE  
SHORT HEAD  
"CH"



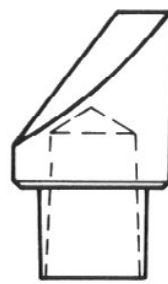
"P"  
POINTED



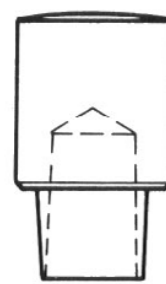
"F"  
FLAT



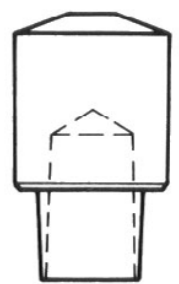
"D"  
DOME



"O"  
OFFSET



"R"  
RADIUS

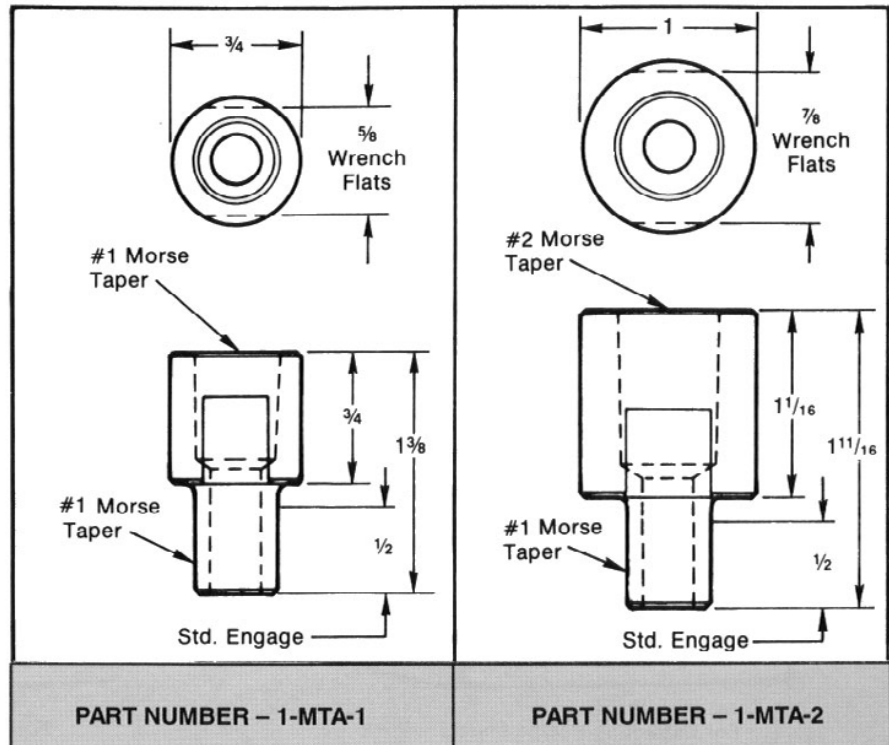


"C"  
CONE

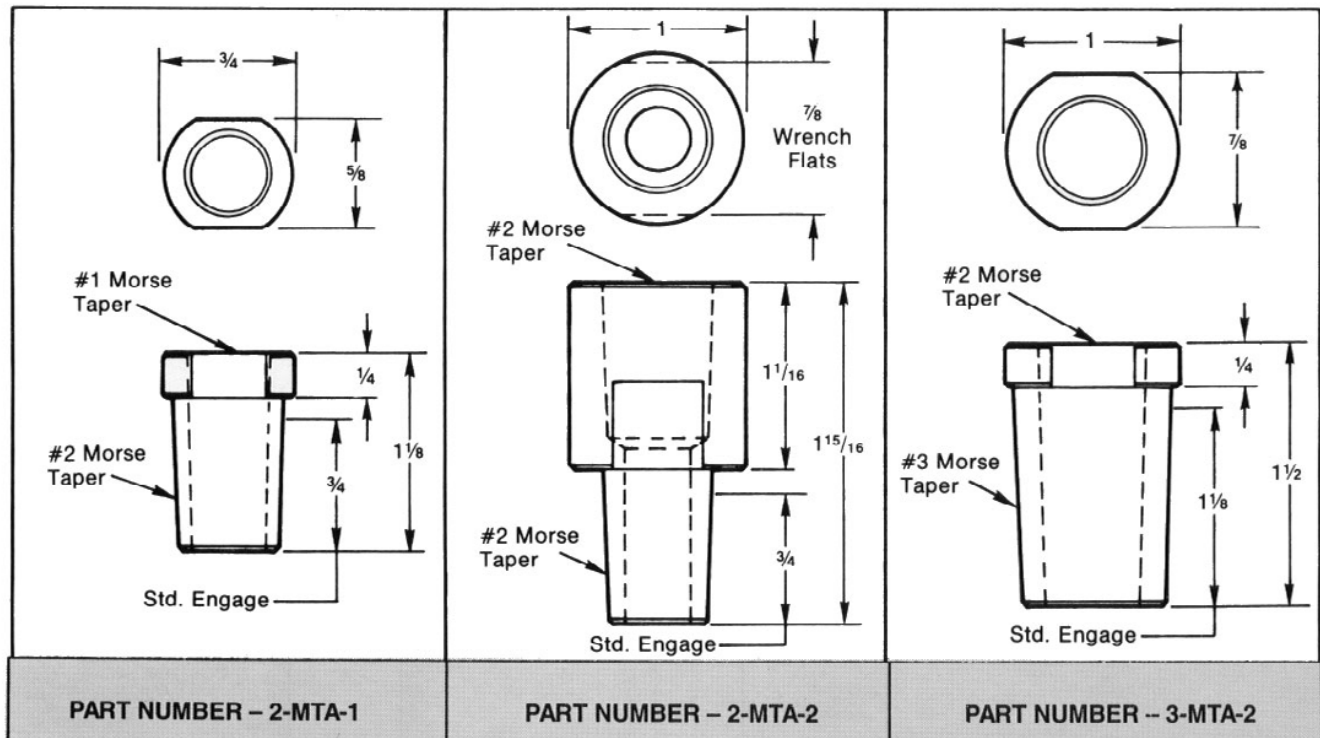
		PART NUMBER			WELDING FACE DIA.	HEAD DIA.	HEAD LENGTH	SKIRT LENGTH
		CLASS I	CLASS II	CLASS III				
POINTED FLAT DOME	"P"	3-P-1	3-P-2	3-P-3	5/16 7/8 1/4	7/8	1"	1/2
	"F"	3-F-1	3-F-2	3-F-3				
	"D"	3-D-1	3-D-2	3-D-3				
OFFSET RADIUS CONE	"O"	3-O-1	3-O-2	3-O-3	5/16 2" R. 5/16			
	"R"	3-R-1	3-R-2	3-R-3				
	"C"	3-C-1	3-C-2	3-C-3				
SHORT HEAD	"FH"	3-FH-1	3-FH-2	3-FH-3	7/8 5/16 2" R. 5/16	7/8	1/2	1/2
	"OH"	3-OH-1	3-OH-2	3-OH-3				
	"RH"	3-RH-1	3-RH-2	3-RH-3				
	"CH"	3-CH-1	3-CH-2	3-CH-3				

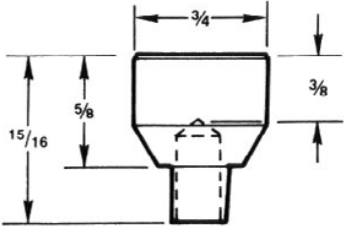
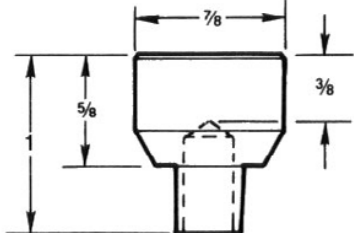
OTHER TAPER AND  
THREADED ADAPTERS  
ON REQUEST.

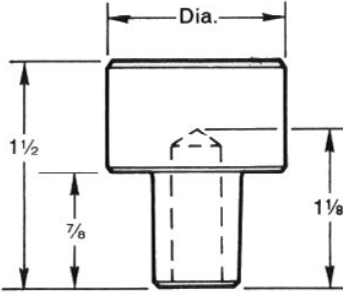
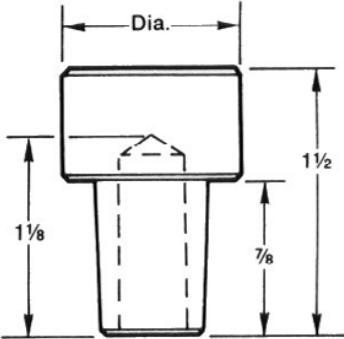
ELECTRODE ADAPTERS  
FOR PACIFIC UNIVERSAL  
AND THREADED HOLDERS  
SHOWN ON PAGE 27



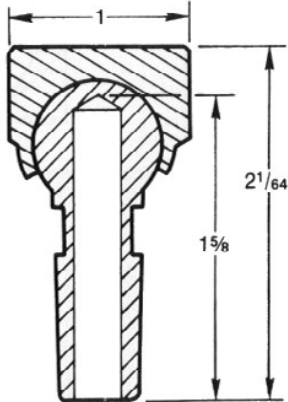
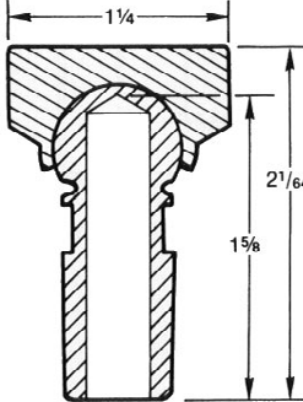
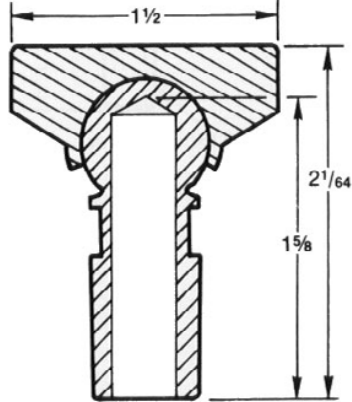
ALL ADAPTERS - R.W.M.A. CLASS II ALLOY

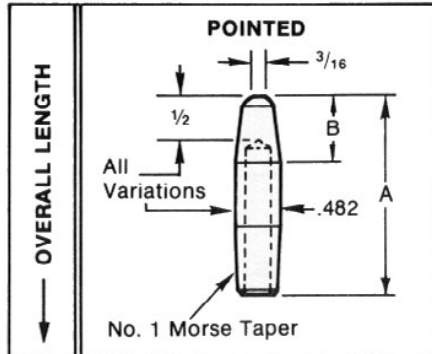


<p><b>BACK-UP INSERTS</b> R.W.M.A. CLASS II ALLOY</p> <p>FOR USE WITH NO. 1 AND NO. 2 MORSE TAPER PACIFIC SHANKS.</p> <p>REFER TO PAGE 6 FOR MATING SHANKS.</p>	 <p>SERIES "1" INSERT</p>	 <p>SERIES "2" INSERT</p>
	PART NUMBER - 1-B-2	PART NUMBER - 2-B-2

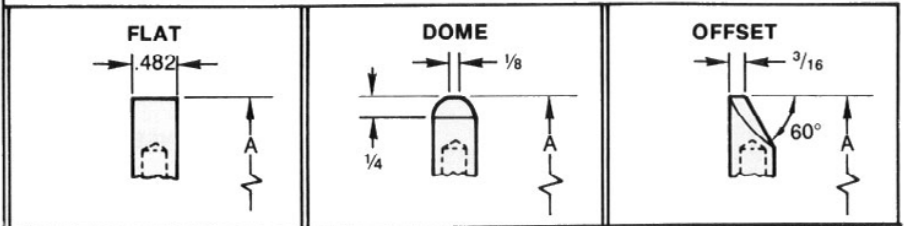
 <p>NO. 1 MORSE TAPER</p>	<p><b>BACK-UP ELECTRODES</b> R.W.M.A. CLASS II ALLOY</p>	 <p>NO. 2 MORSE TAPER</p>																	
	<table border="1"> <thead> <tr> <th colspan="3">PART NUMBER</th> </tr> <tr> <th>NO. 1 MORSE TAPER</th> <th>Dia.</th> <th>NO. 2 MORSE TAPER</th> </tr> </thead> <tbody> <tr> <td>1B-75-2</td> <td>3/4</td> <td>2B-75-2</td> </tr> <tr> <td>1B-87-2</td> <td>7/8</td> <td>2B-87-2</td> </tr> <tr> <td>1B-100-2</td> <td>1"</td> <td>2B-100-2</td> </tr> <tr> <td>1B-125-2</td> <td>1 1/4</td> <td>2B-125-2</td> </tr> </tbody> </table>		PART NUMBER			NO. 1 MORSE TAPER	Dia.	NO. 2 MORSE TAPER	1B-75-2	3/4	2B-75-2	1B-87-2	7/8	2B-87-2	1B-100-2	1"	2B-100-2	1B-125-2	1 1/4
PART NUMBER																			
NO. 1 MORSE TAPER	Dia.	NO. 2 MORSE TAPER																	
1B-75-2	3/4	2B-75-2																	
1B-87-2	7/8	2B-87-2																	
1B-100-2	1"	2B-100-2																	
1B-125-2	1 1/4	2B-125-2																	

### SWIVEL HEAD ELECTRODES

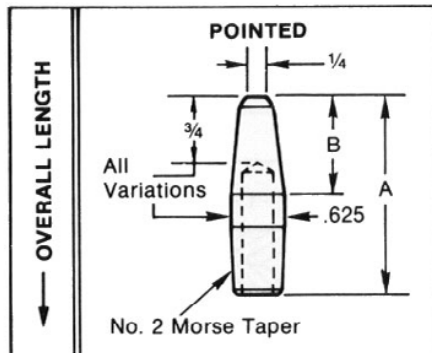
		
PART NUMBER	PART NUMBER	PART NUMBER
NO. 1 MORSE TAPER ± 1ST-100-1 NO. 2 MORSE TAPER ± 2ST-100-1	NO. 1 MORSE TAPER ± 1ST-125-1 NO. 2 MORSE TAPER ± 2ST-125-1	NO. 1 MORSE TAPER ± 1ST-150-1 NO. 2 MORSE TAPER ± 2ST-150-1



No. 1 MORSE TAPER

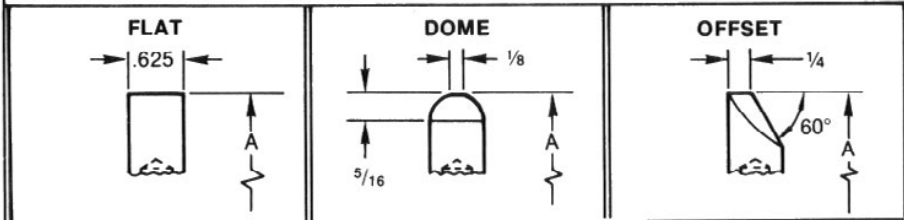


A	PART NUMBER		B	PART NUMBER		PART NUMBER		PART NUMBER	
	CLASS I	CLASS II		CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II
1/4	P-112-1	P-112-2	1/2	F-112-1	F-112-2	D-112-1	D-112-2	O-112-1	O-112-2
1/2	P-114-1	P-114-2	1/2	F-114-1	F-114-2	D-114-1	D-114-2	O-114-1	O-114-2
3/4	P-116-1	P-116-2	3/4	F-116-1	F-116-2	D-116-1	D-116-2	O-116-1	O-116-2
2	P-120-1	P-120-2	3/4	F-120-1	F-120-2	D-120-1	D-120-2	O-120-1	O-120-2
2 1/4	P-122-1	P-122-2		F-122-1	F-122-2	D-122-1	D-122-2	O-122-1	O-122-2
2 1/2	P-124-1	P-124-2		F-124-1	F-124-2	D-124-1	D-124-2	O-124-1	O-124-2
2 3/4	P-126-1	P-126-2	3/4	F-126-1	F-126-2	D-126-1	D-126-2	O-126-1	O-126-2
3	P-130-1	P-130-2		F-130-1	F-130-2	D-130-1	D-130-2	O-130-1	O-130-2
3 1/4	P-132-1	P-132-2		F-132-1	F-132-2	D-132-1	D-132-2	O-132-1	O-132-2



OTHER STANDARD NOSE SHAPES AVAILABLE  
(C) CONE  
(R) RADIUS

No. 2 MORSE TAPER

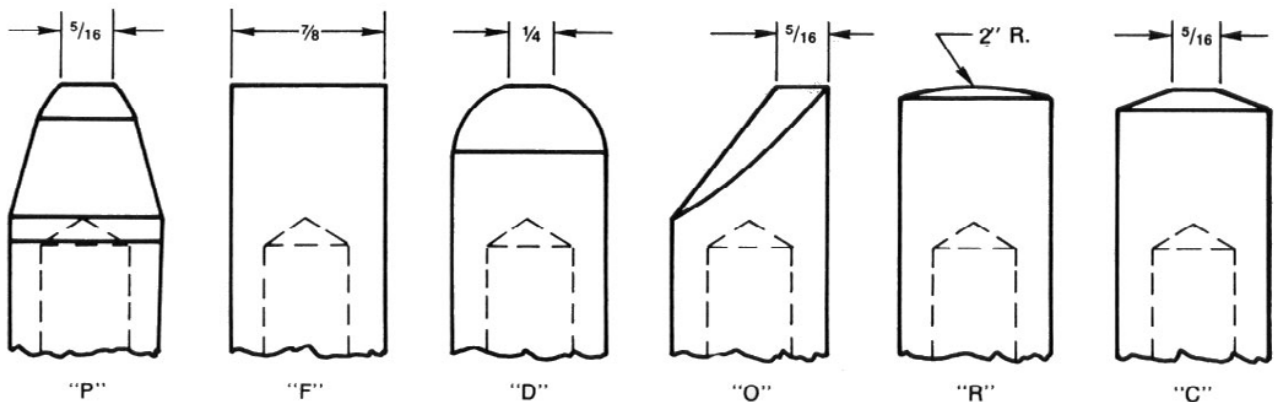
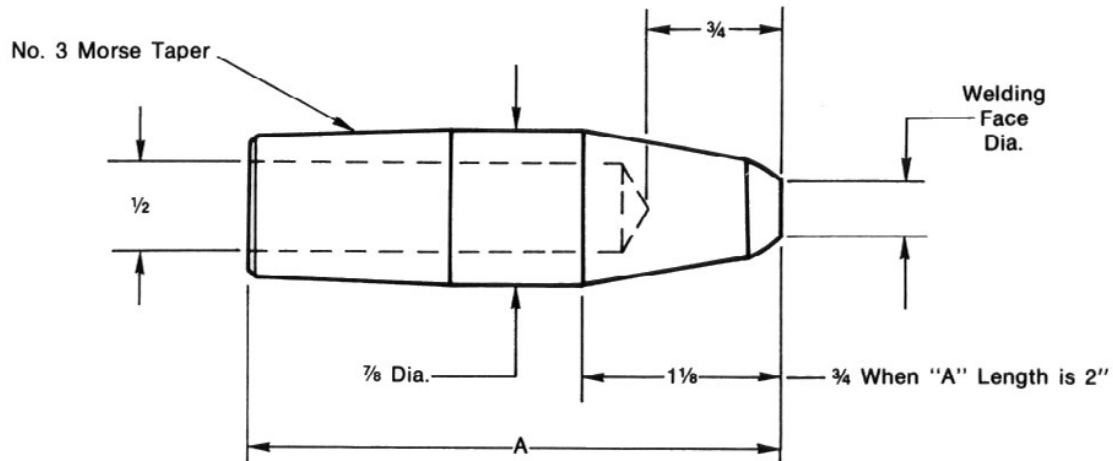


A	PART NUMBER		B	PART NUMBER		PART NUMBER		PART NUMBER	
	CLASS I	CLASS II		CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II
1/4	P-212-1	P-212-2	1/2	F-212-1	F-212-2	D-212-1	D-212-2	O-212-1	O-212-2
1/2	P-214-1	P-214-2	3/4	F-214-1	F-214-2	D-214-1	D-214-2	O-214-1	O-214-2
3/4	P-216-1	P-216-2	3/4	F-216-1	F-216-2	D-216-1	D-216-2	O-216-1	O-216-2
2	P-220-1	P-220-2	1 1/8	F-220-1	F-220-2	D-220-1	D-220-2	O-220-1	O-220-2
2 1/4	P-222-1	P-222-2		F-222-1	F-222-2	D-222-1	D-222-2	O-222-1	O-222-2
2 1/2	P-224-1	P-224-2		F-224-1	F-224-2	D-224-1	D-224-2	O-224-1	O-224-2
2 3/4	P-226-1	P-226-2	1 1/8	F-226-1	F-226-2	D-226-1	D-226-2	O-226-1	O-226-2
3	P-230-1	P-230-2		F-230-1	F-230-2	D-230-1	D-230-2	O-230-1	O-230-2
3 1/4	P-232-1	P-232-2		F-232-1	F-232-2	D-232-1	D-232-2	O-232-1	O-232-2

# PACIFIC

## ONE-PIECE STRAIGHT ELECTRODES

No. 3 MORSE TAPER



A OVERALL LENGTH	PART NUMBER						A OVERALL LENGTH
	R.W.M.A. CLASS I ALLOY COPPER						
	"P"	"F"	"D"	"O"	"R"	"C"	
2 2½ 3	P-320-1 P-324-1 P-330-1	F-320-1 F-324-1 F-330-1	D-320-1 D-324-1 D-330-1	O-320-1 O-324-1 O-330-1	R-320-1 R-324-1 R-330-1	C-320-1 C-324-1 C-330-1	2 2½ 3
	R.W.M.A. CLASS II ALLOY COPPER						
2 2½ 3	P-320-2 P-324-2 P-330-2	F-320-2 F-324-2 F-330-2	D-320-2 D-324-2 D-330-2	O-320-2 O-324-2 O-330-2	R-320-2 R-324-2 R-330-2	C-320-2 C-324-2 C-330-2	2 2½ 3

# PACIFIC

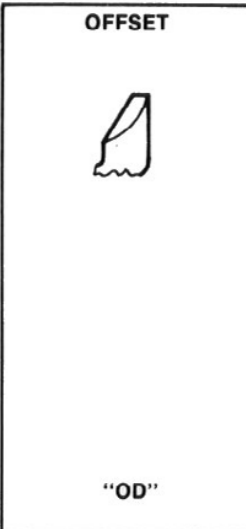
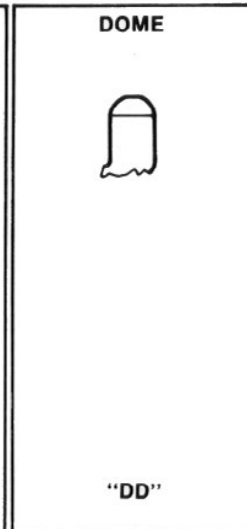
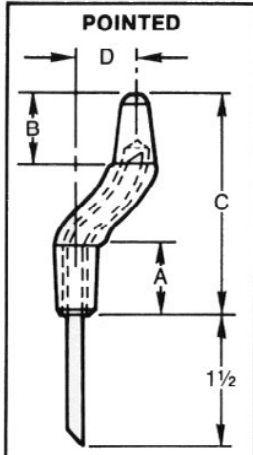
## ONE-PIECE DOUBLE BEND ELECTRODES

COLD FORMED FROM R.W.M.A. CLASS I AND II ALLOY

For Nose Dimensions  
Refer To Page 18

Other Nose Shapes  
Available—  
"CD"—Cone  
"RD"—2" Radius

Water Tube Size  
No. 1 Morse Taper .182 Dia.  
No. 2 Morse Taper .245 Dia.



### No. 1 MORSE TAPER

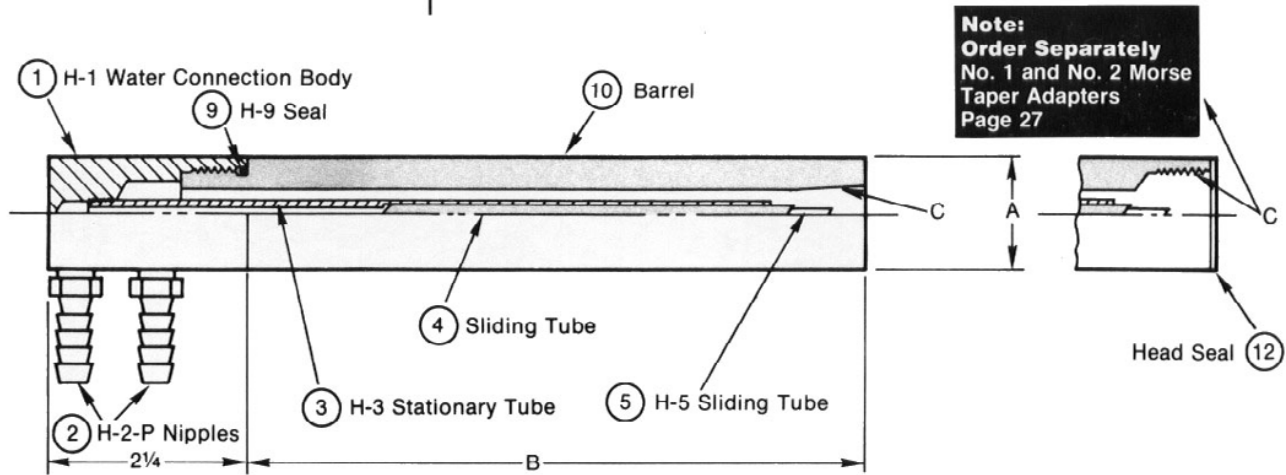
TAPER LENGTH "A"	NOSE LENGTH "B"	OVERALL LENGTH "C"	OFFSET "D"	PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
				CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II
3/4	3/4	2	1/2	PD-11-A4	PD-12-A4	FD-11-A4	FD-12-A4	DD-11-A4	DD-12-A4	OD-11-A4	OD-12-A4
1 3/4	3/4	3		PD-11-B4	PD-12-B4	FD-11-B4	FD-12-B4	DD-11-B4	DD-12-B4	OD-11-B4	OD-12-B4
3/4	1 3/4	3		PD-11-C4	PD-12-C4	FD-11-C4	FD-12-C4	DD-11-C4	DD-12-C4	OD-11-C4	OD-12-C4
3/4	3/4	2	3/4	PD-11-A6	PD-12-A6	FD-11-A6	FD-12-A6	DD-11-A6	DD-12-A6	OD-11-A6	OD-12-A6
1 3/4	3/4	3		PD-11-B6	PD-12-B6	FD-11-B6	FD-12-B6	DD-11-B6	DD-12-B6	OD-11-B6	OD-12-B6
3/4	1 3/4	3		PD-11-C6	PD-12-C6	FD-11-C6	FD-12-C6	DD-11-C6	DD-12-C6	OD-11-C6	OD-12-C6
3/4	3/4	2	1	PD-11-A8	PD-12-A8	FD-11-A8	FD-12-A8	DD-11-A8	DD-12-A8	OD-11-A8	OD-12-A8
1 3/4	3/4	3		PD-11-B8	PD-12-B8	FD-11-B8	FD-12-B8	DD-11-B8	DD-12-B8	OD-11-B8	OD-12-B8
3/4	1 3/4	3		PD-11-C8	PD-12-C8	FD-11-C8	FD-12-C8	DD-11-C8	DD-12-C8	OD-11-C8	OD-12-C8
3/4	3/4	2 1/8	1 1/4	PD-11-A10	PD-12-A10	FD-11-A10	FD-12-A10	DD-11-A10	DD-12-A10	OD-11-A10	OD-12-A10
1 3/4	3/4	3 3/8		PD-11-B10	PD-12-B10	FD-11-B10	FD-12-B10	DD-11-B10	DD-12-B10	OD-11-B10	OD-12-B10
3/4	1 3/4	3 1/2		PD-11-C10	PD-12-C10	FD-11-C10	FD-12-C10	DD-11-C10	DD-12-C10	OD-11-C10	OD-12-C10

### No. 2 MORSE TAPER

TAPER LENGTH "A"	NOSE LENGTH "B"	OVERALL LENGTH "C"	OFFSET "D"	PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
				CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II
1	1	2 1/2	1/2	PD-21-A4	PD-22-A4	FD-21-A4	FD-22-A4	DD-21-A4	DD-22-A4	OD-21-A4	OD-22-A4
1 3/4	1	3 1/4		PD-21-B4	PD-22-B4	FD-21-B4	FD-22-B4	DD-21-B4	DD-22-B4	OD-21-B4	OD-22-B4
1	1 3/4	3 1/4		PD-21-C4	PD-22-C4	FD-21-C4	FD-22-C4	DD-21-C4	DD-22-C4	OD-21-C4	OD-22-C4
1	1	2 5/8	3/4	PD-21-A6	PD-22-A6	FD-21-A6	FD-22-A6	DD-21-A6	DD-22-A6	OD-21-A6	OD-22-A6
1 3/4	1	3 3/8		PD-21-B6	PD-22-B6	FD-21-B6	FD-22-B6	DD-21-B6	DD-22-B6	OD-21-B6	OD-22-B6
1	1 3/4	3 3/8		PD-21-C6	PD-22-C6	FD-21-C6	FD-22-C6	DD-21-C6	DD-22-C6	OD-21-C6	OD-22-C6
1	1	2 5/8	1	PD-21-A8	PD-22-A8	FD-21-A8	FD-22-A8	DD-21-A8	DD-22-A8	OD-21-A8	OD-22-A8
1 3/4	1	3 3/8		PD-21-B8	PD-22-B8	FD-21-B8	FD-22-B8	DD-21-B8	DD-22-B8	OD-21-B8	OD-22-B8
1	1 3/4	3 3/8		PD-21-C8	PD-22-C8	FD-21-C8	FD-22-C8	DD-21-C8	DD-22-C8	OD-21-C8	OD-22-C8
1	1	2 3/4	1 1/4	PD-21-A10	PD-22-A10	FD-21-A10	FD-22-A10	DD-21-A10	DD-22-A10	OD-21-A10	OD-22-A10
1 3/4	1	3 1/2		PD-21-B10	PD-22-B10	FD-21-B10	FD-22-B10	DD-21-B10	DD-22-B10	OD-21-B10	OD-22-B10
1	1 3/4	3 1/2		PD-21-C10	PD-22-C10	FD-21-C10	FD-22-C10	DD-21-C10	DD-22-C10	OD-21-C10	OD-22-C10

## H SERIES HOLDERS

WATER COOLED NON-EJECTOR TYPE

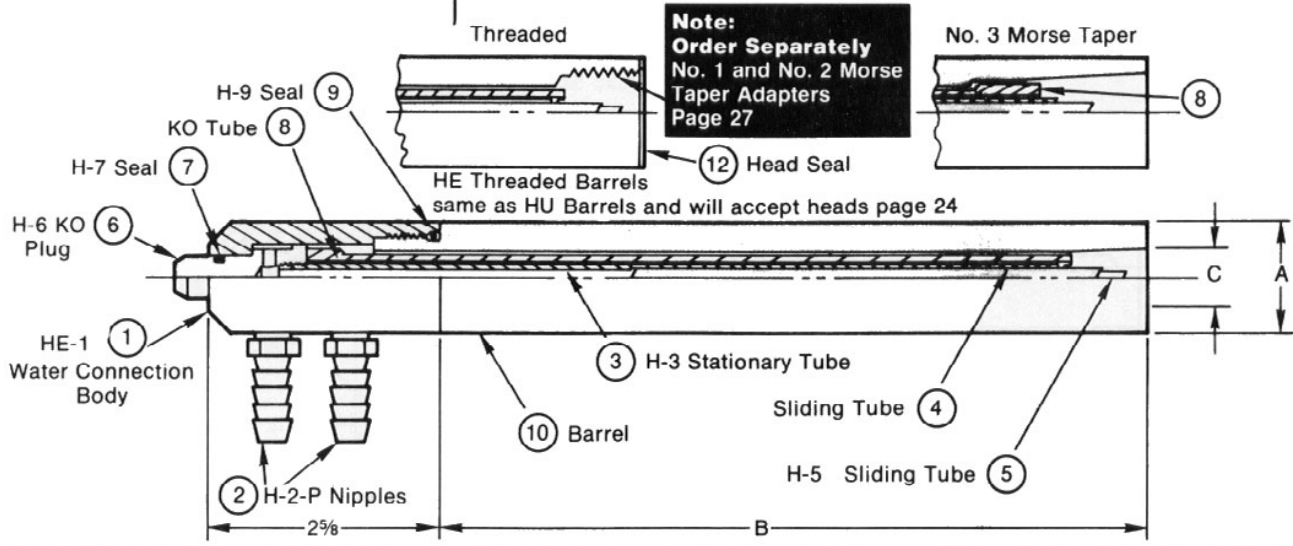


A DIA.	B LENGTH	C TAPER OR THREAD	HOLDER ASSY. No.	WATER CONNECTION ASSY. No. INCLUDES PARTS ① ② ③ ④	SLIDING TUBE ④	SLIDING TUBE ⑤	HEAD SEAL ⑫	BARREL WITH SEALS ⑨ ⑩ ⑫	
1	8	1	H-408-1	WC-8	H-4-8	H-5		H1-408	
		2	H-408-2			H2-408			
		7/8-14	H-408-T			H-5		H-12-4	HT-408
	12	1	H-412-1	WC-12	H-4-12	H-5		H1-412	
		2	H-412-2			H2-412			
		7/8-14	H-412-T			H-5		H-12-4	HT-412
1 1/4	8	1	H-508-1	WC-8	H-4-8	H-5		H1-508	
		2	H-508-2			H2-508			
		3	H-508-3			H3-508			
		1-14	H-508-T			H-5		H-12-5	HT-508
	12	1	H-512-1	WC-12	H-4-12	H-5		H1-512	
		2	H-512-2			H2-512			
		3	H-512-3			H3-512			
		1-14	H-512-T			H-5		H-12-5	HT-512
1 1/2	8	2	H-608-2	WC-8	H-4-8			H2-608	
		3	H-608-3					H3-608	
		1-14	H-608-T					H-5	H-12-5
	12	2	H-612-2	WC-12	H-4-12				H2-612
		3	H-612-3						H3-612
		1-14	H-612-T						H-5

# PACIFIC

## HE SERIES HOLDERS

### WATER COOLED EJECTOR TYPE

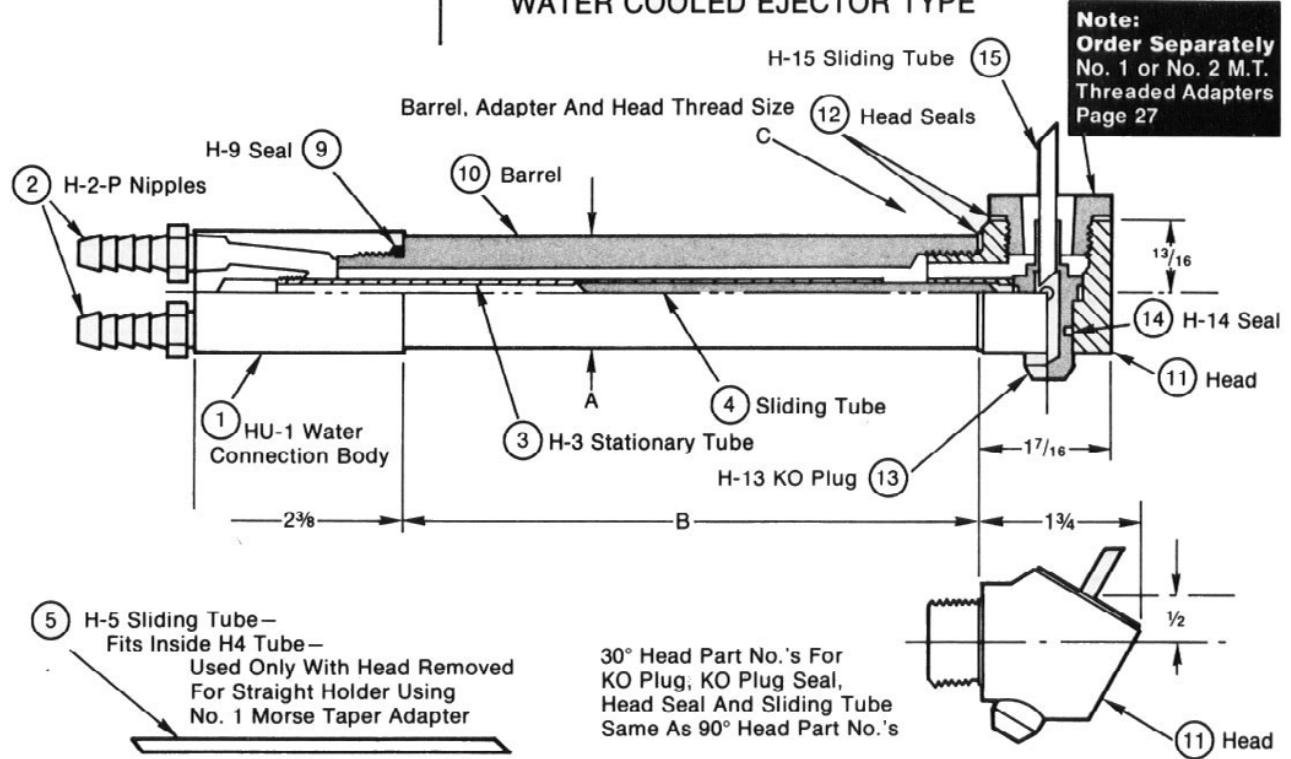


A DIA.	B LENGTH	C TAPER OR THREAD	HOLDER ASSY. No.	WATER CONNec- TION ASSY. No.	SLIDING TUBE	SLIDING TUBE	KO TUBE	HEAD SEAL	BARREL WITH SEALS
				INCLUDES PARTS ① ② ③ ④ ⑥ ⑦					
1	8	1	HE-408-1	WC-E8	H-4-8	H-5	H8-8-1		H1-408
		2	HE-408-2			H8-8-2	H2-408		
		7/8 - 14	HE-408-T			H-5	H8-8-T		H-12-4
	12	1	HE-412-1	WC-E12	H-4-12	H-5	H8-12-1		H1-412
		2	HE-412-2			H8-12-2	H2-412		
		7/8 - 14	HE-412-T			H-5	H8-12-T		H-12-4
1 1/4	8	1	HE-508-1	WC-E8	H-4-8	H-5	H8-8-1		H1-508
		2	HE-508-2			H8-8-2	H2-508		
		3	HE-508-3			H8-8-3	H3-508		
		1-14	HE-508-T			H-5	H8-8-T		H-12-5
	12	1	HE-512-1	WC-E12	H-4-12	H-5	H8-12-1		H1-512
		2	HE-512-2			H8-12-2	H2-512		
		3	HE-512-3			H8-12-3	H3-512		
		1-14	HE-512-T			H-5	H8-12-T		H-12-5
1 1/2	8	1	HE-608-1	WC-E8	H-4-8	H-5	H8-8-1		H1-608
		2	HE-608-2			H8-8-2	H2-608		
		3	HE-608-3			H8-8-3	H3-608		
		1-14	HE-608-T			H-5	H8-8-T		H-12-5
	12	1	HE-612-1	WC-E12	H-4-12	H-5	H8-12-1		H1-612
		2	HE-612-2			H8-12-2	H2-612		
		3	HE-612-3			H8-12-3	H3-612		
		1-14	HE-612-T			H-5	H8-12-T		H-12-5



# PACIFIC

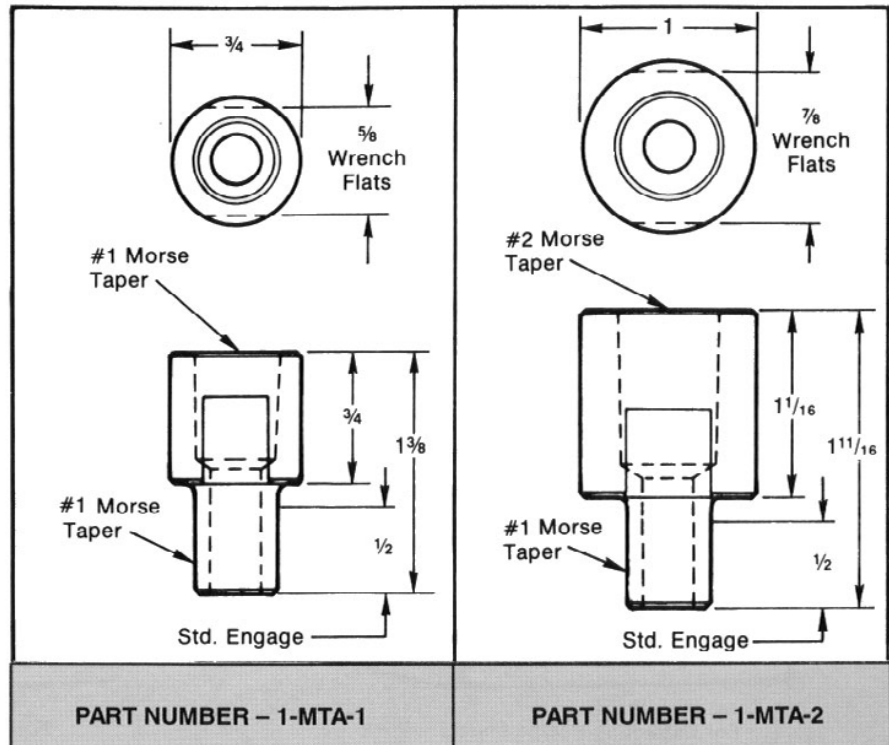
## HU SERIES HOLDERS WATER COOLED EJECTOR TYPE



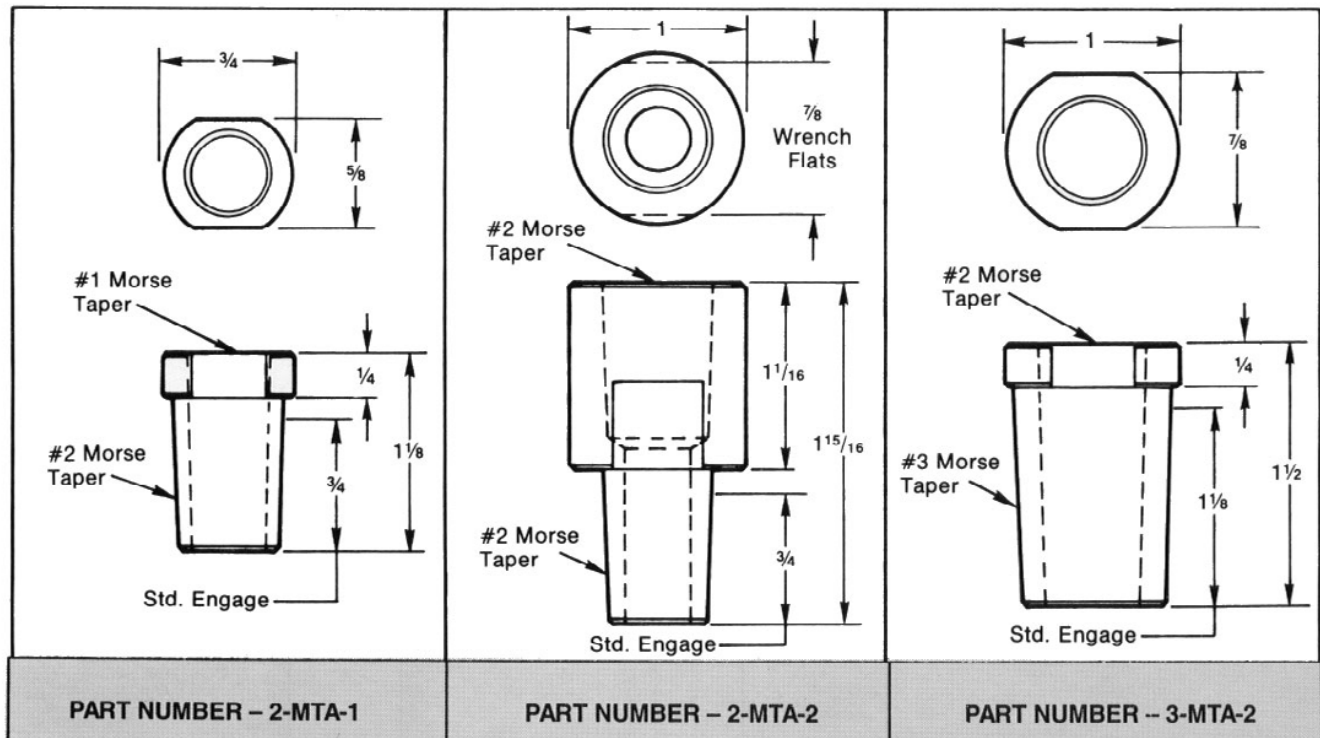
A DIA.	B LENGTH	C THREAD	HOLDER ASSY. NUMBER -90 IS 90 HEAD -30 IS 30 HEAD	HEAD ASSY. NUMBER INCLUDES PARTS ⑪ ⑫ ⑬ ⑭ ⑮	HEAD ⑪	WATER CONNec- TION ASSY. No. INCLUDES PARTS ① ② ③ ④	SLIDING TUBE ④	HEAD SEALS ⑫	BARREL WITH SEALS ⑨ ⑩ ⑫
1	8	7/8-14	HU-408-30	HU-430	H-11-430	WC-U8	H-4-8	H-12-4	HT-408
			HU-408-90	HU-490	H-11-490				
	12	7/8-14	HU-412-30	HU-430	H-11-430	WC-U12	H-4-12		HT-412
			HU-412-90	HU-490	H-11-490				
1 1/4	8	1-14	HU-508-30	HU-530	H-11-530	WC-U8	H-4-8	H-12-5	HT-508
			HU-508-90	HU-590	H-11-590				
	12	1-14	HU-512-30	HU-530	H-11-530	WC-U12	H-4-12		HT-512
			HU-512-90	HU-590	H-11-590				
1 1/2	8	1-14	HU-608-30	HU-530	H-11-530	WC-U8	H-4-8	H-12-5	HT-608
			HU-608-90	HU-590	H-11-590				
	12	1-14	HU-612-30	HU-530	H-11-530	WC-U12	H-4-12		HT-612
			HU-612-90	HU-590	H-11-590				

OTHER TAPER AND  
THREADED ADAPTERS  
ON REQUEST.

ELECTRODE ADAPTERS  
FOR PACIFIC UNIVERSAL  
AND THREADED HOLDERS  
SHOWN ON PAGE 27

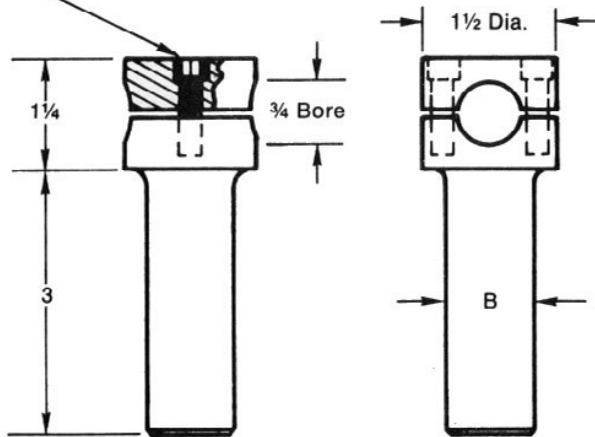


ALL ADAPTERS – R.W.M.A. CLASS II ALLOY



### LIGHT DUTY

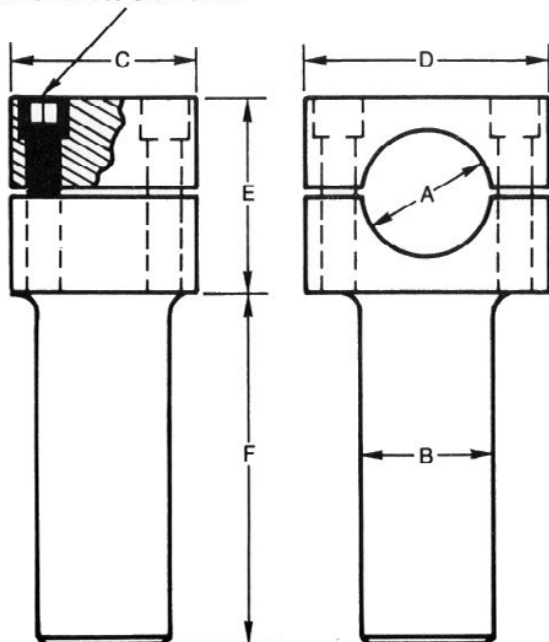
Two Stainless Steel Bolts



PART No.	B DIA.
T-33	3/4
T-34	1
T-35	1 1/4

### REGULAR AND HEAVY DUTY

Four Stainless Steel Bolts



PART No.	A HOLE DIA.	B SHANK DIA.	C	D	E	F
T-44	1	1	1 3/4	2 1/2	1 3/4	3 1/4
T-45	1	1 1/4				
T-46	1	1 1/2				
T-54	1 1/4	1				
T-55	1 1/4	1 1/4				
T-56	1 1/4	1 1/2				
T-65	1 1/2	1 1/4				
T-66	1 1/2	1 1/2				

<p>CLASS II COPPER</p>	<b>A</b>	<b>B</b>	<b>PART No.</b>
	No. 1 M.T.	$\frac{3}{16}$	1-A-1
	No. 2 M.T.	$\frac{5}{16}$	1-A-2

<p>CLASS II COPPER</p>	<b>A</b>	<b>B</b>	<b>PART No.</b>
	No. 1 M.T.	$\frac{3}{16}$	2-A-1
	No. 2 M.T.	$\frac{9}{16}$	2-A-2

### SLEEVE ADAPTERS

<p>CLASS II COPPER</p>	<b>A</b>	<b>B</b>	<b>PART No.</b>
	$\frac{3}{4}$	1	3-S-4
		$\frac{1}{4}$	3-S-5
		$\frac{1}{2}$	3-S-6
	1	$\frac{1}{4}$	4-S-5
		$\frac{1}{2}$	4-S-6
$\frac{1}{4}$	$\frac{1}{2}$	5-S-6	