

PACIFIC

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FEATURES

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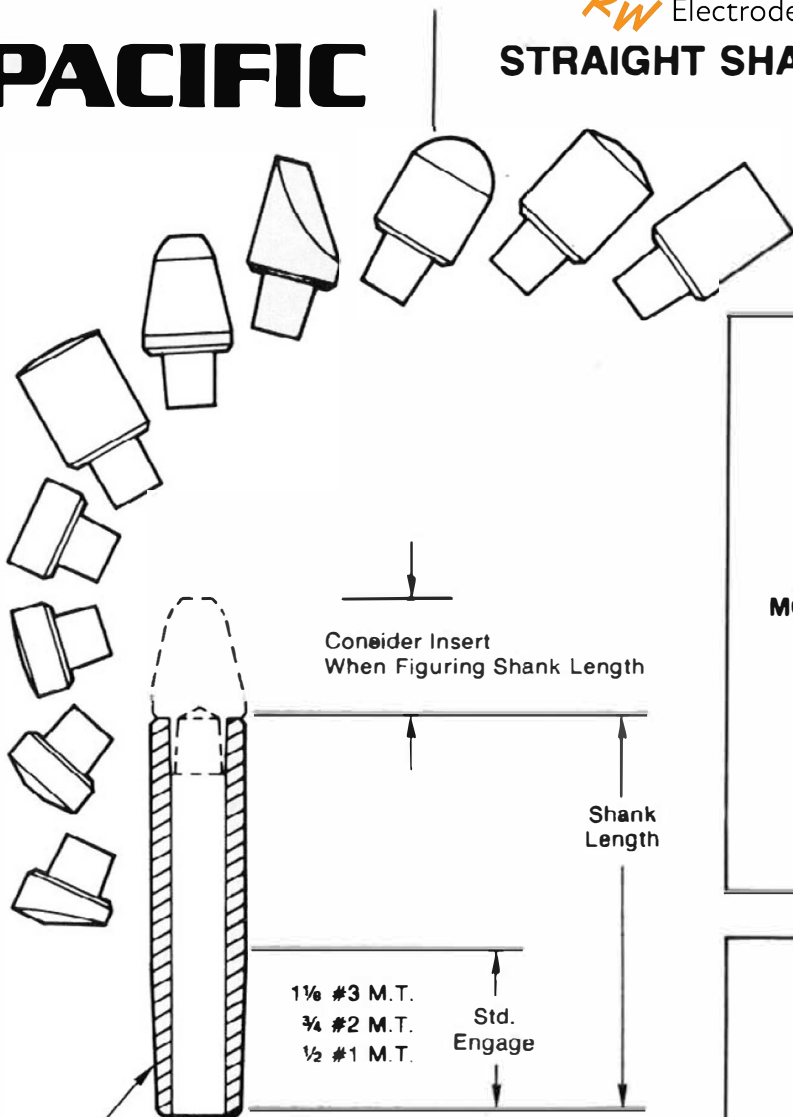


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PACIFIC

STRAIGHT SHANKS



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

CODE
3231
↓
3 - SHANK STYLE
2 - MORSE TAPER
3 - LENGTH IN INCHES
1 - AND EIGHTHS OF AN INCH

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

No. 2 MORSE TAPER SHANKS	3206	3/4
	3207	7/8
	3211	1 1/8
	3213	1 3/8
	3215	5/8
	3217	1 1/8
	3221	2 1/8
	3223	2 3/8
	3225	2 5/8
	3227	2 7/8
	3231	3 1/8
	3233	3 3/8
3235	3 5/8	
3237	3 7/8	
3241	4 1/8	
3243	4 3/8	

No. 3 MORSE TAPER SHANKS	3314	1 1/2
	3320	2
	3324	2 1/2
	3330	3
	3334	3 1/2
	3340	4

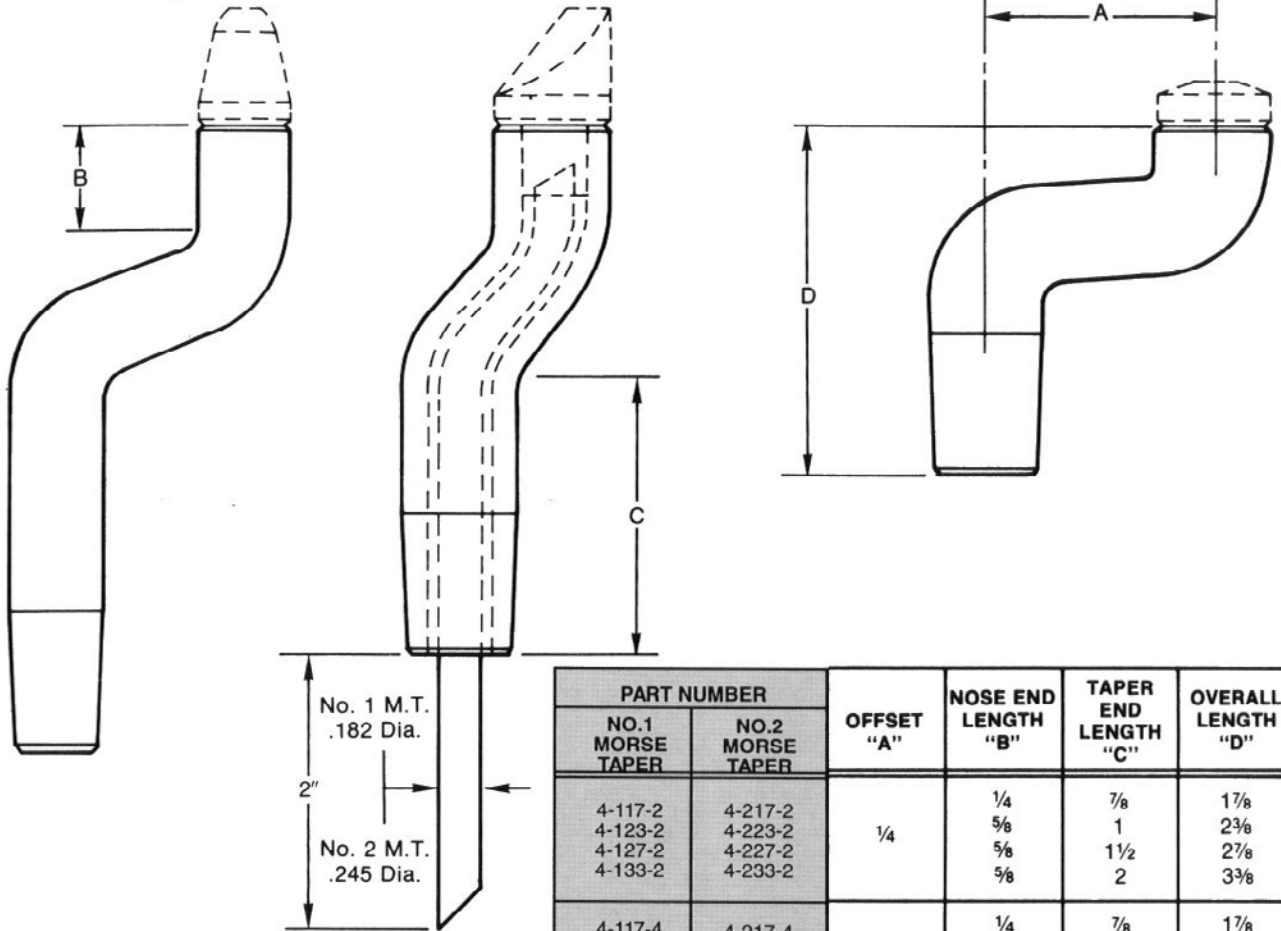
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DOUBLE BEND SHANKS

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**

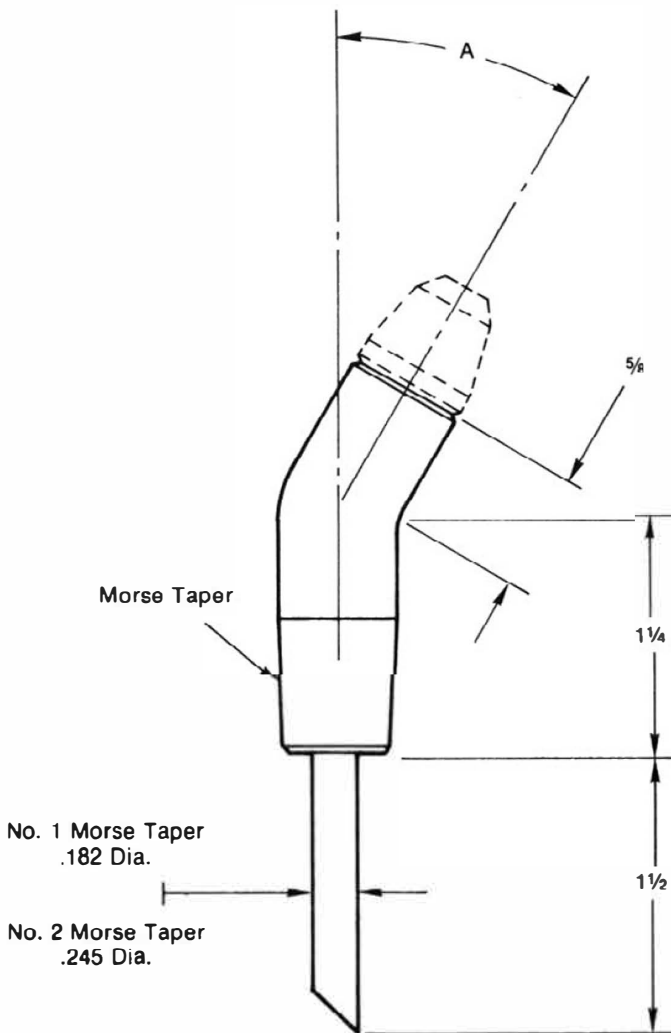
**ALL SHANKS ARE COLD FORMED
 FROM R.W.M.A. CLASS II ALLOY**

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SINGLE BEND SHANKS

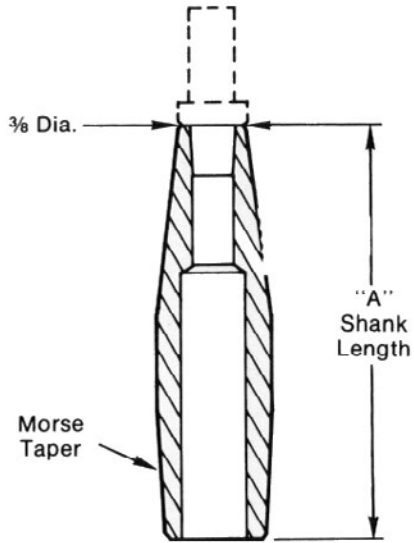
COLD FORMED FROM R.W.M.A. CLASS II COPPER
 FOR USE WITH INSERTS SHOWN ON PAGES 12 AND 13



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

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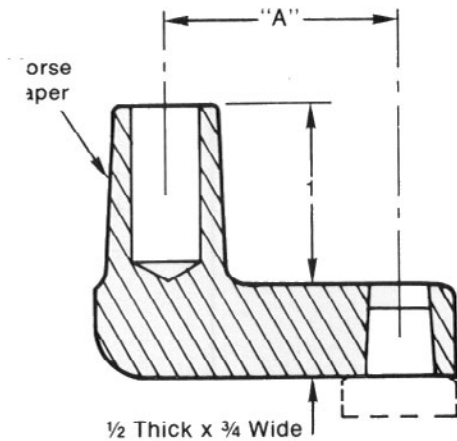
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R.W.M.A. Class II Alloy

TAPER NOSE SHANKS

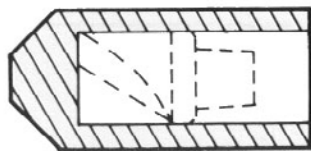
PART NUMBER		"A" SHANK LENGTH	USE WITH INSERTS
No. 1 MORSE TAPER	No. 2 MORSE TAPER		
2114 2120 2124	2214 2220 2224	1½ 2 2½	Series "O" Page 11
2130 2134 2140	2230 2234 2240	3 3½ 4	



R.W.M.A. Class II Forging

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

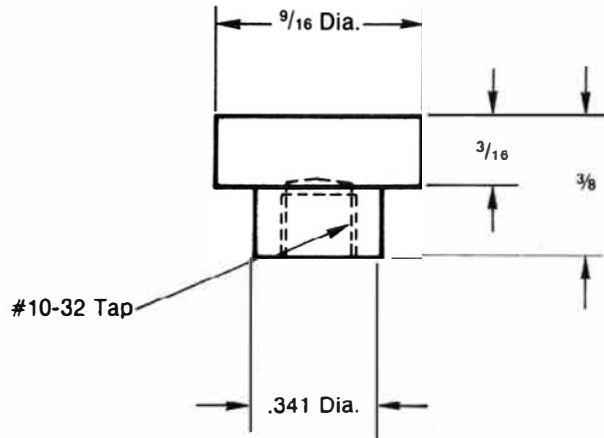
PART NUMBER	USE WITH INSERTS
OP-1	Series "1" Page 12
OP-2	Series "2" Page 13

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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.**

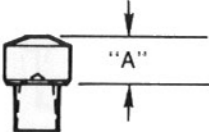
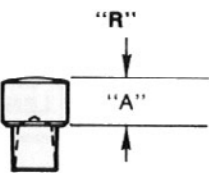
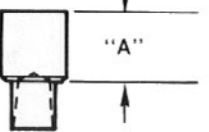
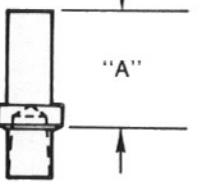
TAPER NOSE SHANKS (NO. 1 AND NO. 2 MORSE TAPER) PAGE 9
 OFFSET FORGED SHANKS (NO. 1 AND NO. 2 MORSE TAPER) PAGE 9

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>"C"</p> 	O-C-1	O-C-2	O-C-3	1/4	5/32	3/8	1/4
<p>"R"</p> 	O-R-1	O-R-2	O-R-3	1/4	2" R	3/8	1/4
<p>"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>"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

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PACIFIC

SERIES "1" INSERTS

FOR USE WITH No. 1 MORSE TAPER PACIFIC SHANKS

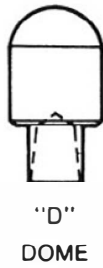
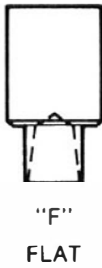
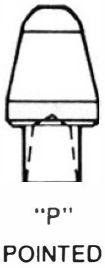
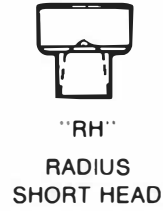
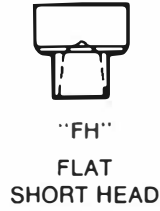
CODE

1-D-3

↓

1 - INSERT SERIES
-
D - NOSE SHAPE
-
3 - CLASS ALLOY

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	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{16}$
	"F"	1-F-1	1-F-2	1-F-3	$\frac{1}{2}$			
	"D"	1-D-1	1-D-2	1-D-3	$\frac{1}{8}$			
RADIUS CONE OFFSET	"R"	1-R-1	1-R-2	1-R-3	2" R	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$
	"C"	1-C-1	1-C-2	1-C-3	$\frac{3}{16}$			
	"O"	1-O-1	1-O-2	1-O-3	$\frac{3}{16}$			
SHORT HEAD	"OH"	1-OH-1	1-OH-2	1-OH-3	$\frac{3}{16}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
	"FH"	1-FH-1	1-FH-2	1-FH-3	$\frac{1}{2}$			
	"RH"	1-RH-1	1-RH-2	1-RH-3	2" R			
	"CH"	1-CH-1	1-CH-2	1-CH-3	$\frac{3}{16}$			

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SERIES "2" INSERTS

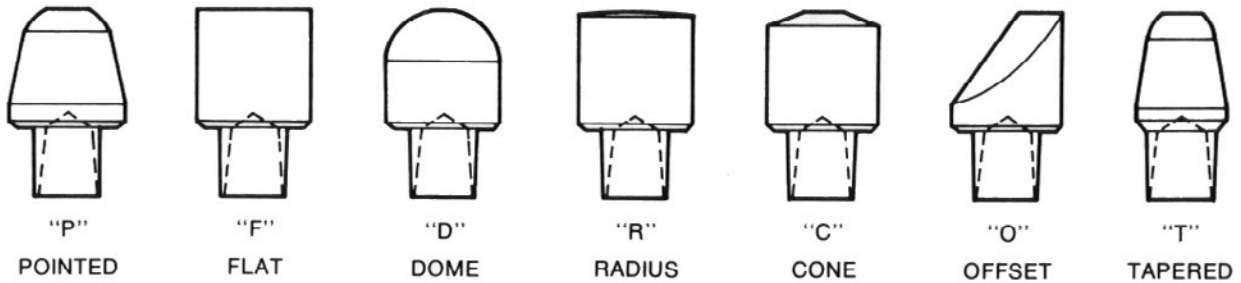
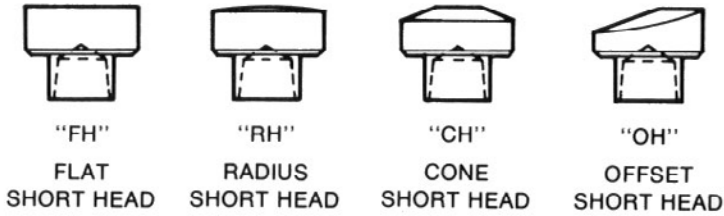
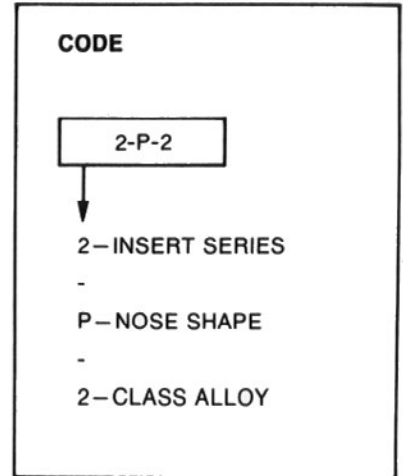
FOR USE WITH No. 2 MORSE TAPER PACIFIC SHANKS

STRAIGHT SHANKS PAGE 6

DOUBLE BEND SHANKS PAGE 7

SINGLE BEND SHANKS PAGE 8

OFFSET FORGED SHANKS PAGE 9



		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			
	"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				

CODE

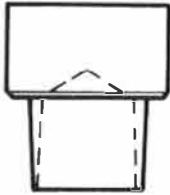
3-P-2

3 - INSERT SERIES

P - NOSE SHAPE

2 - CLASS ALLOY

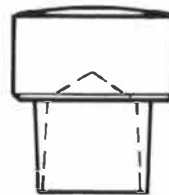
FLAT
SHORT HEAD
"FH"



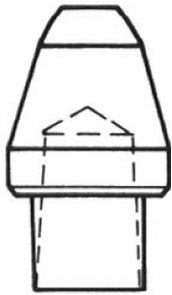
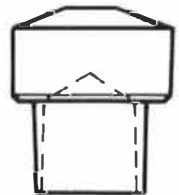
OFFSET
SHORT HEAD
"OH"



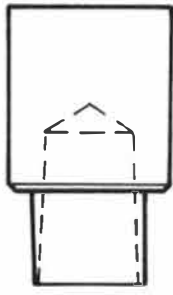
RADIUS
SHORT HEAD
"RH"



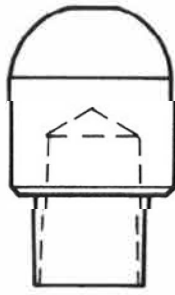
CONE
SHORT HEAD
"CH"



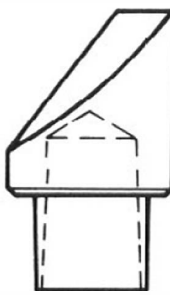
"P"
POINTED



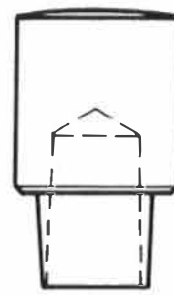
"F"
FLAT



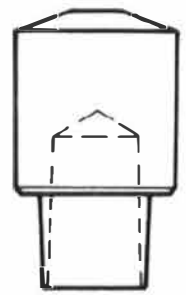
"D"
DOME



"O"
OFFSET



"R"
RADIUS



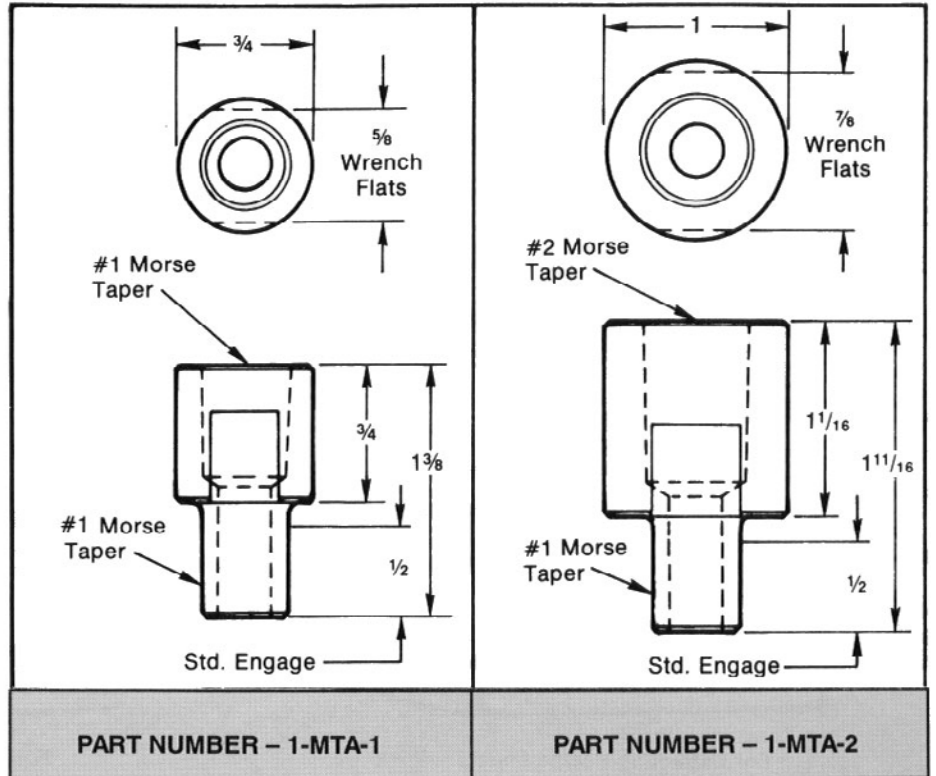
"C"
CONE

		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				

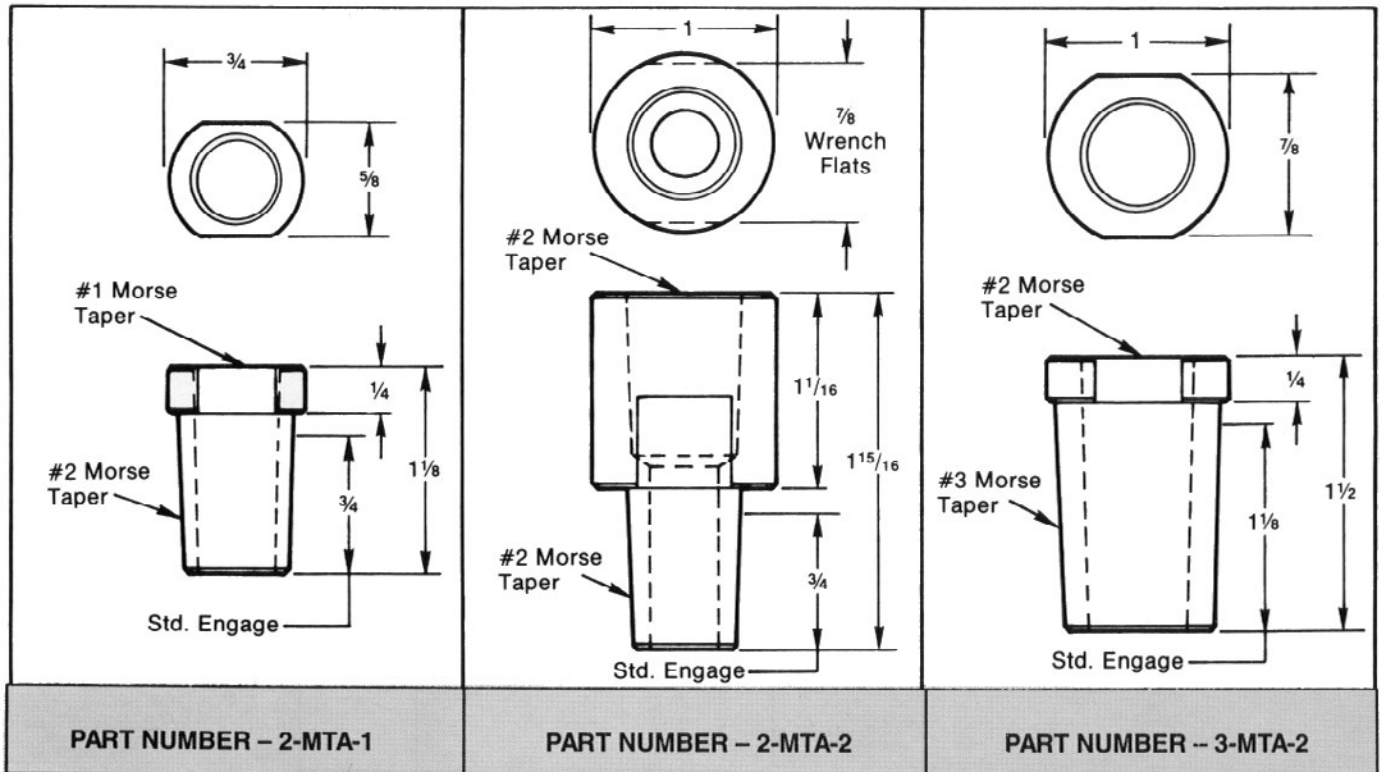
MORSE TAPER ADAPTERS

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



PACIFIC

ONE-PIECE STRAIGHT ELECTRODES

OVERALL LENGTH ↓	POINTED		B	PART NUMBER CLASS I CLASS II	
	No. 1 Morse Taper				
1/2	P-112-1	P-112-2	1/2	F-112-1	F-112-2
1 1/2	P-114-1	P-114-2	1/2	F-114-1	F-114-2
1 3/4	P-116-1	P-116-2	3/4	F-116-1	F-116-2
2	P-120-1	P-120-2	3/4	F-120-1	F-120-2
2 1/4	P-122-1	P-122-2		F-122-1	F-122-2
2 1/2	P-124-1	P-124-2		F-124-1	F-124-2
2 3/4	P-126-1	P-126-2	3/4	F-126-1	F-126-2
3	P-130-1	P-130-2		F-130-1	F-130-2
3 1/4	P-132-1	P-132-2		F-132-1	F-132-2

No. 1 MORSE TAPER

FLAT		DOME		OFFSET	
PART NUMBER CLASS I CLASS II		PART NUMBER CLASS I CLASS II		PART NUMBER CLASS I CLASS II	
D-112-1 D-112-2		D-114-1 D-114-2		O-112-1 O-112-2	
D-114-1 D-114-2		D-116-1 D-116-2		O-114-1 O-114-2	
D-116-1 D-116-2		D-120-1 D-120-2		O-116-1 O-116-2	
D-120-1 D-120-2		D-122-1 D-122-2		O-120-1 O-120-2	
D-122-1 D-122-2		D-124-1 D-124-2		O-122-1 O-122-2	
D-124-1 D-124-2		D-126-1 D-126-2		O-124-1 O-124-2	
D-126-1 D-126-2		D-130-1 D-130-2		O-126-1 O-126-2	
D-130-1 D-130-2		D-132-1 D-132-2		O-130-1 O-130-2	
D-132-1 D-132-2		O-132-1 O-132-2		O-132-1 O-132-2	

OVERALL LENGTH ↓	POINTED		B	PART NUMBER CLASS I CLASS II	
	No. 2 Morse Taper				
1/2	P-212-1	P-212-2	1/2	F-212-1	F-212-2
1 1/2	P-214-1	P-214-2	3/4	F-214-1	F-214-2
1 3/4	P-216-1	P-216-2	3/4	F-216-1	F-216-2
2	P-220-1	P-220-2	1 1/8	F-220-1	F-220-2
2 1/4	P-222-1	P-222-2		F-222-1	F-222-2
2 1/2	P-224-1	P-224-2		F-224-1	F-224-2
2 3/4	P-226-1	P-226-2	1 1/8	F-226-1	F-226-2
3	P-230-1	P-230-2		F-230-1	F-230-2
3 1/4	P-232-1	P-232-2		F-232-1	F-232-2

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

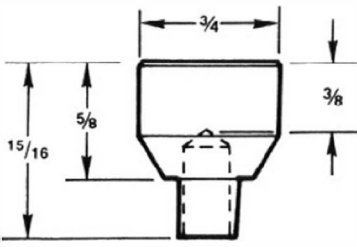
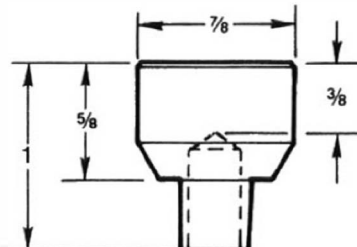
No. 2 MORSE TAPER

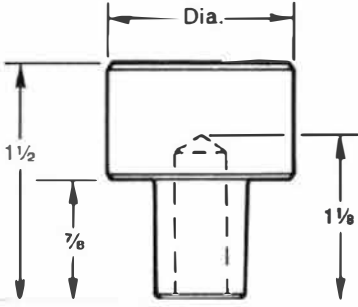
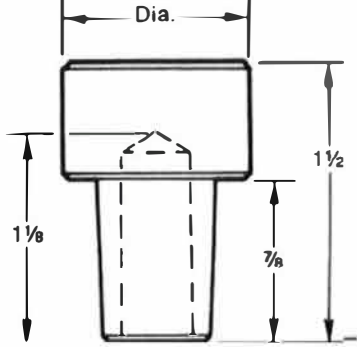
FLAT		DOME		OFFSET	
PART NUMBER CLASS I CLASS II		PART NUMBER CLASS I CLASS II		PART NUMBER CLASS I CLASS II	
D-212-1 D-212-2		D-214-1 D-214-2		O-212-1 O-212-2	
D-214-1 D-214-2		D-216-1 D-216-2		O-214-1 O-214-2	
D-216-1 D-216-2		D-220-1 D-220-2		O-216-1 O-216-2	
D-220-1 D-220-2		D-222-1 D-222-2		O-220-1 O-220-2	
D-222-1 D-222-2		D-224-1 D-224-2		O-222-1 O-222-2	
D-224-1 D-224-2		D-226-1 D-226-2		O-224-1 O-224-2	
D-226-1 D-226-2		D-230-1 D-230-2		O-226-1 O-226-2	
D-230-1 D-230-2		D-232-1 D-232-2		O-230-1 O-230-2	
D-232-1 D-232-2		O-232-1 O-232-2		O-232-1 O-232-2	

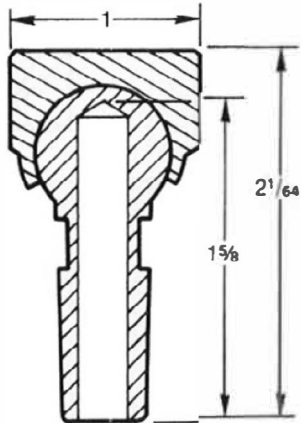
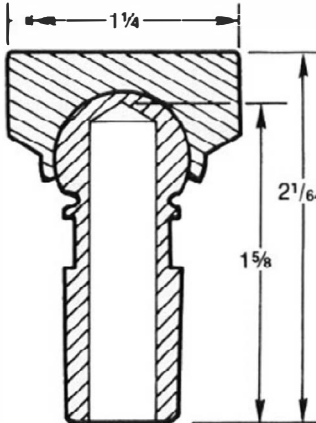
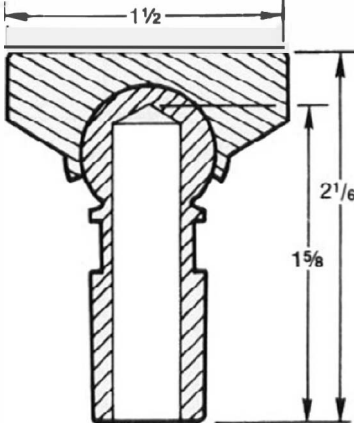
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PACIFIC

BACK-UP INSERTS AND ELECTRODES

<p>BACK-UP INSERTS 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>PART NUMBER - 1-B-2</p>	 <p>SERIES "2" INSERT</p> <p>PART NUMBER - 2-B-2</p>
--	--	--

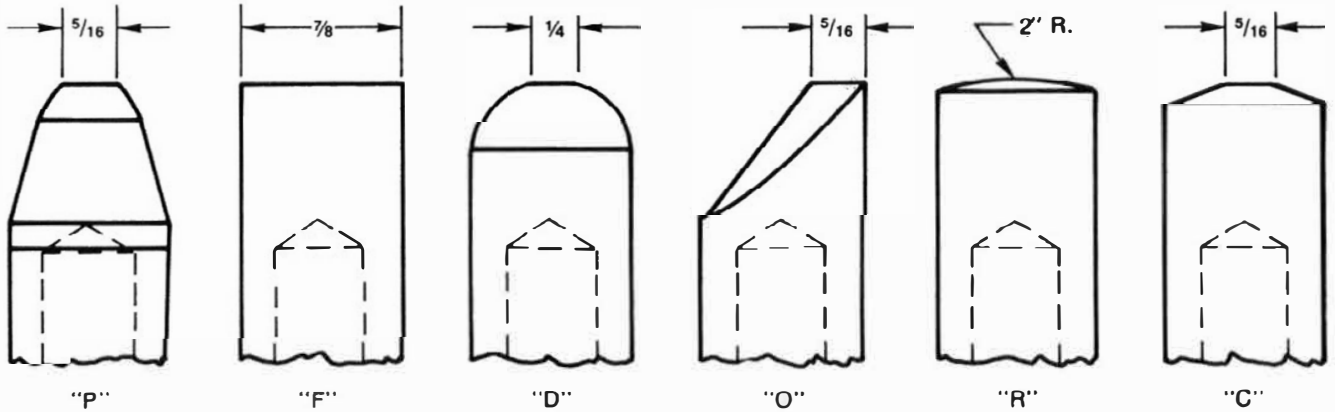
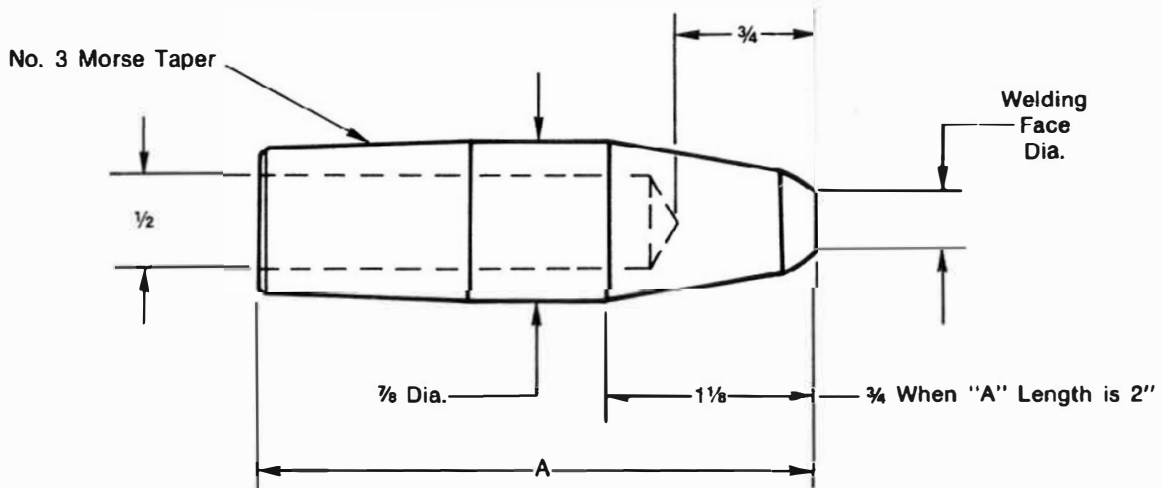
 <p>NO. 1 MORSE TAPER</p>	<p>BACK-UP ELECTRODES R.W.M.A. CLASS II ALLOY</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">PART NUMBER</th> </tr> <tr> <th>NO. 1 MORSE TAPER</th> <th>Dia.</th> <th>NO. 2 MORSE TAPER</th> </tr> </thead> <tbody> <tr> <td>1B-75-2</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	2B-125-2	 <p>NO. 2 MORSE TAPER</p>
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

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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

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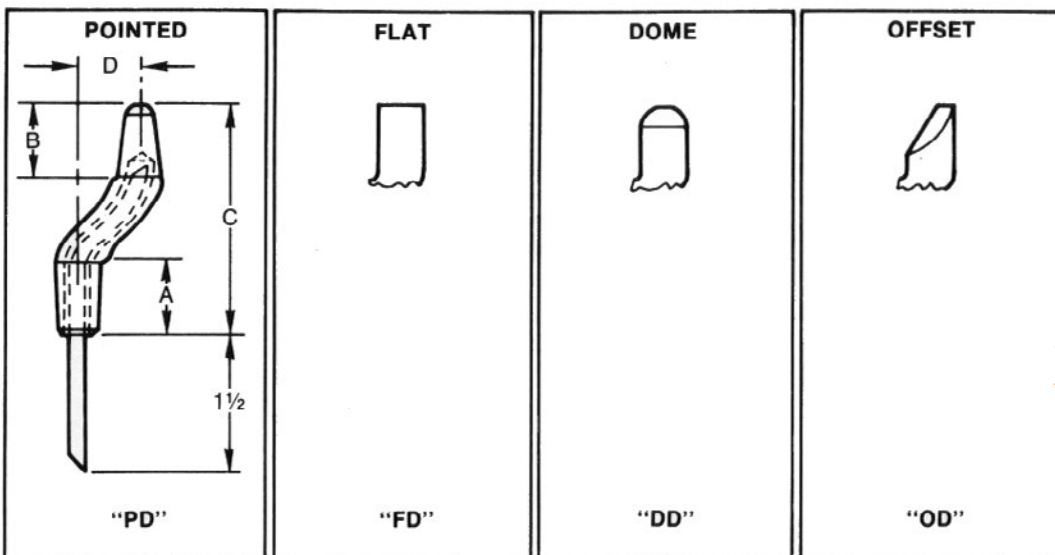
ONE-PIECE DOUBLE BEND ELECTRODES

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

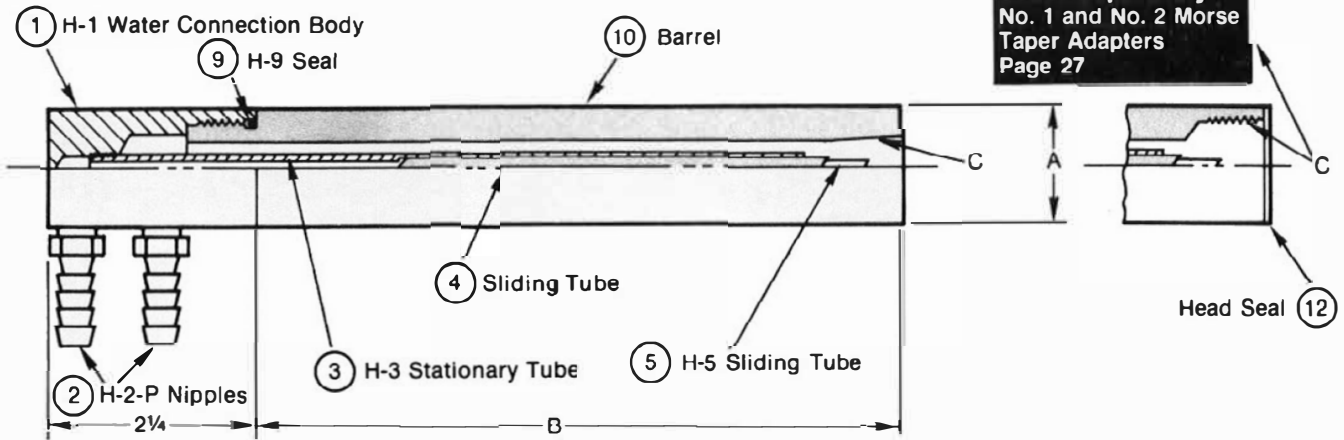
TAPER LENGTH "A"	NOSE LENGTH "B"	OVERALL LENGTH "C"	OFFSET "D"	PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
				CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II
3/4	3/4	2	1/2	PD-11-A4	PD-12-A4	FD-11-A4	FD-12-A4	DD-11-A4	DD-12-A4	OD-11-A4	OD-12-A4
1 3/4	3/4	3		PD-11-B4	PD-12-B4	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 1/8		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 1/8		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



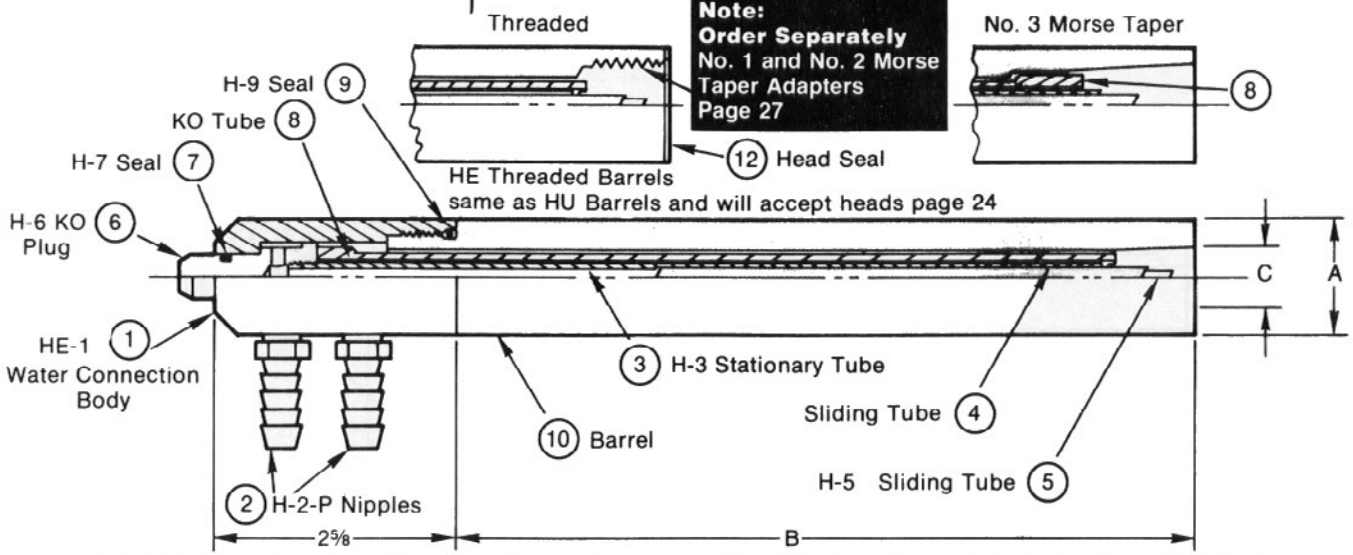
Note:
 Order Separately
 No. 1 and No. 2 Morse
 Taper Adapters
 Page 27

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

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HE SERIES HOLDERS WATER COOLED EJECTOR TYPE

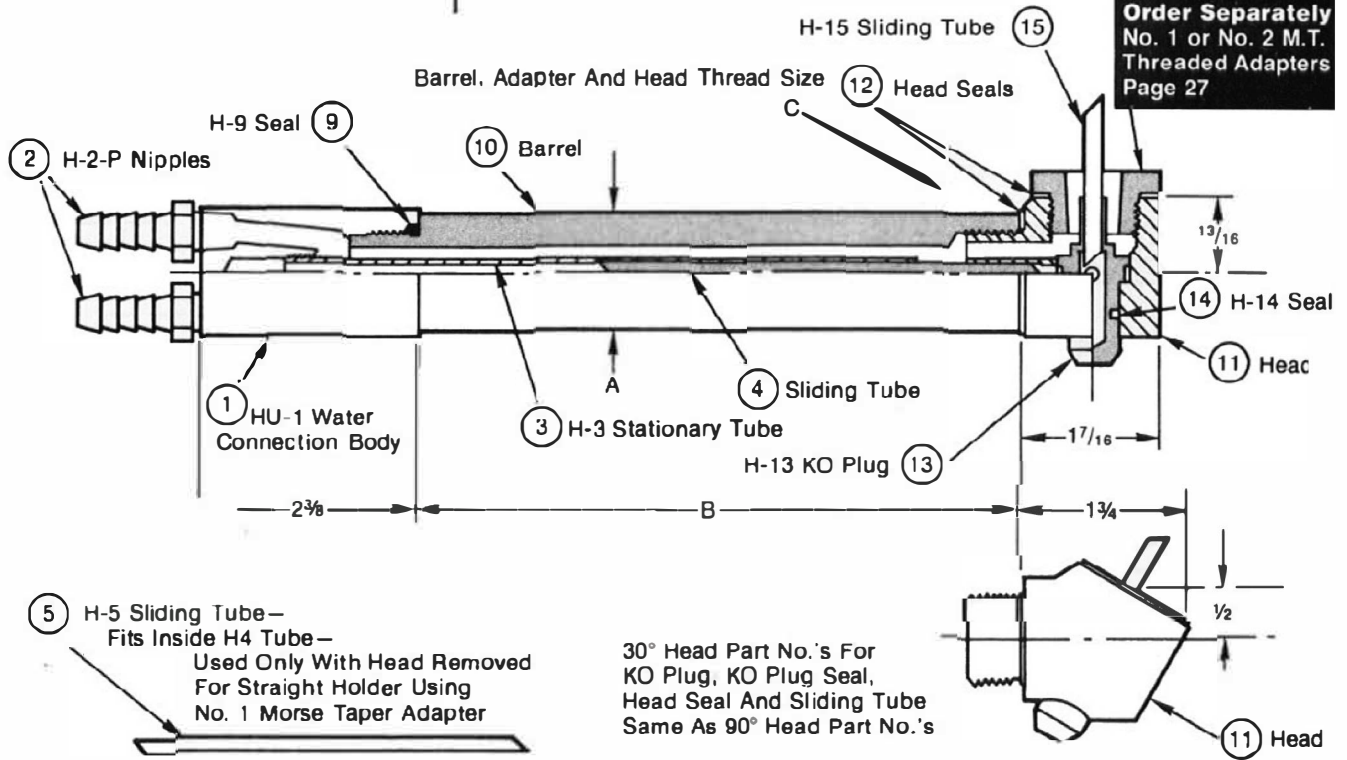


A DIA.	B LENGTH	C TAPER OR THREAD	HOLDER ASSY. No.	WATER CONNEC-TION ASSY. No.	SLIDING TUBE	SLIDING TUBE	KO TUBE	HEAD SEAL	BARREL WITH SEALS
				INCLUDES PARTS ① ② ③ ④ ⑥ ⑦	④	⑤	⑧	⑫	⑨ ⑩ ⑫
1	8	1	HE-408-1	WC-E8	H-4-8	H-5	H8-8-1		H1-408
		2	HE-408-2			H8-8-2	H2-408		
		7/8 - 14	HE-408-T			H-5	H8-8-T		H-12-4
	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

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HU SERIES HOLDERS

WATER COOLED EJECTOR TYPE



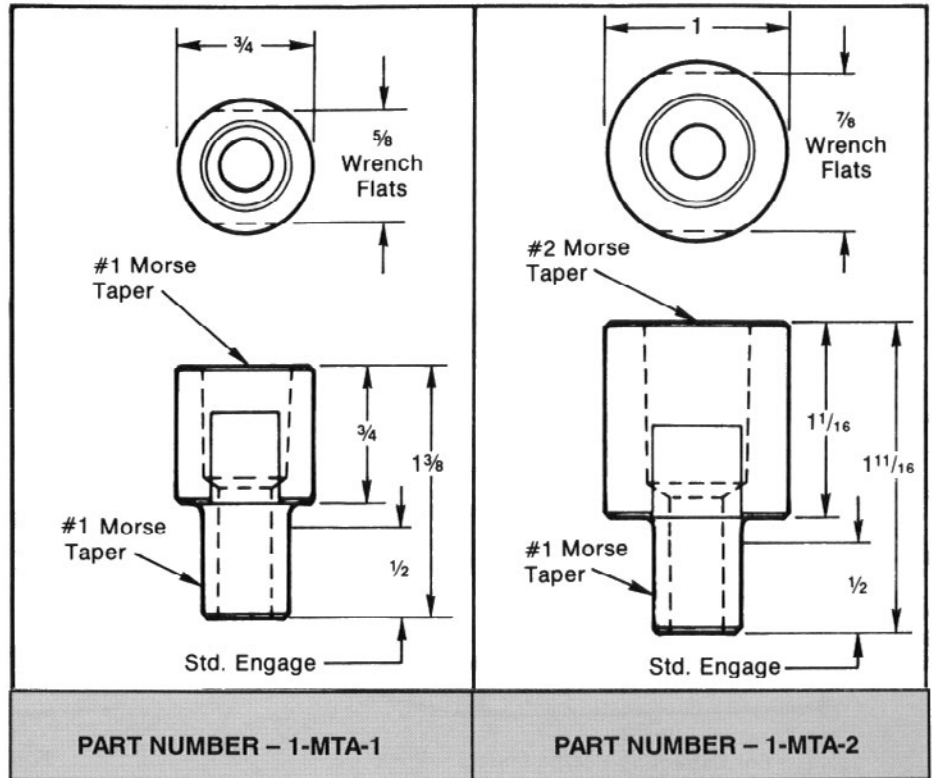
A DIA.	B LENGTH	C THREAD	HOLDER ASSY. NUMBER -90 IS 90 HEAD -30 IS 30 HEAD	HEAD ASSY. NUMBER INCLUDES PARTS (11) (12) (13) (14) (15)	HEAD (11)	WATER CONNEC- TION ASSY. No. INCLUDES PARTS (1) (2) (3) (4)	SLIDING TUBE (4)	HEAD SEALS (12)	BARREL WITH SEALS (9) (10) (12)
1	8	7/8-14	HU-408-30	HU-430	H-11-430	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				

PACIFIC

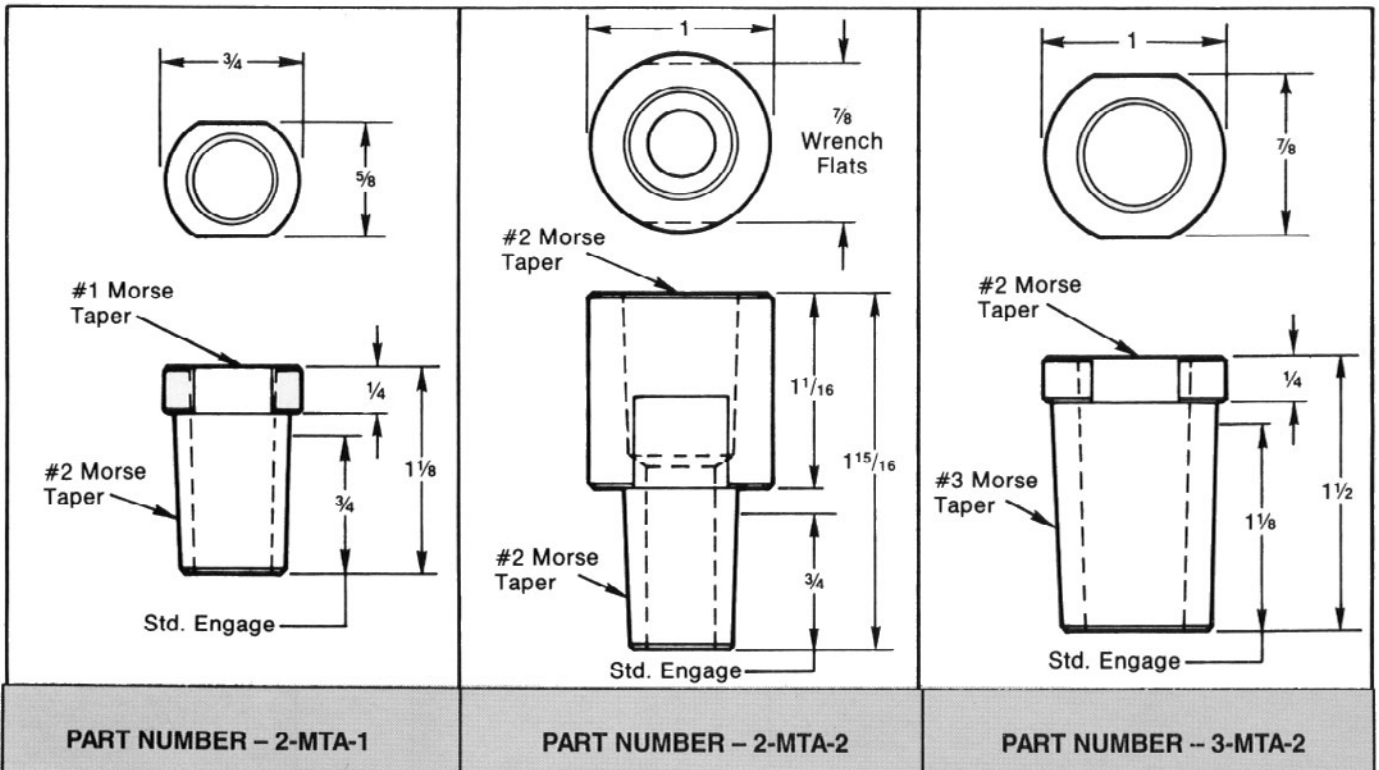
MORSE TAPER ADAPTERS

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



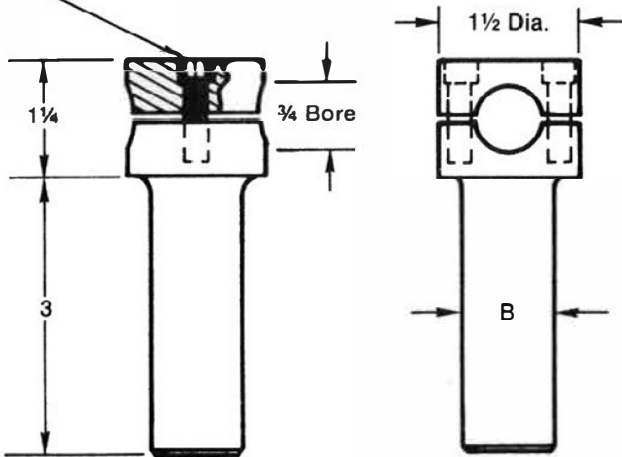
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TEE CONNECTIONS

R.W.M.A. CLASS II COPPER

LIGHT DUTY

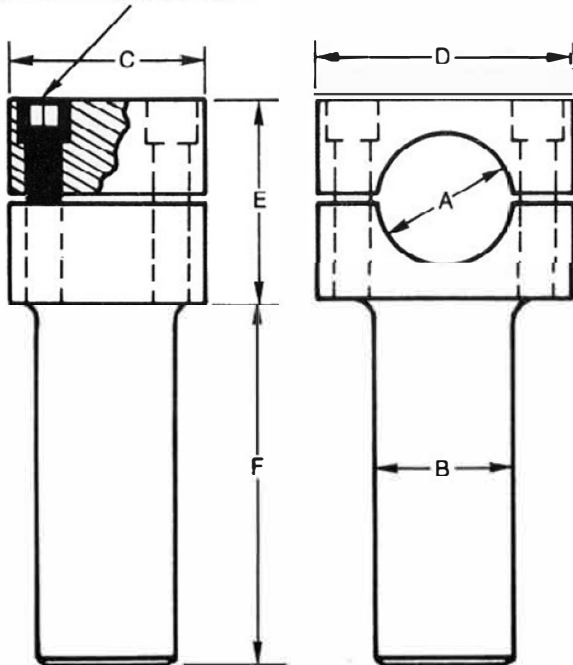
Two Stainless Steel Bolts



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 3/4
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				

THREADED MORSE TAPER ADAPTERS FOR ALL THREADED HOLDERS AND HEADS

A	B	PART No.
No. 1 M.T.	3/16	1-A-1
No. 2 M.T.	5/16	1-A-2

A	B	PART No.
No. 1 M.T.	3/16	2-A-1
No. 2 M.T.	5/16	2-A-2

SLEEVE ADAPTERS

A	B	PART No.
3/4	1	3-S-4
	1 1/4	3-S-5
	1 1/2	3-S-6
1	1 1/4	4-S-5
	1 1/2	4-S-6
1 1/4	1 1/2	5-S-6