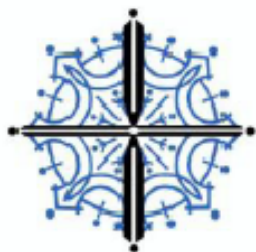
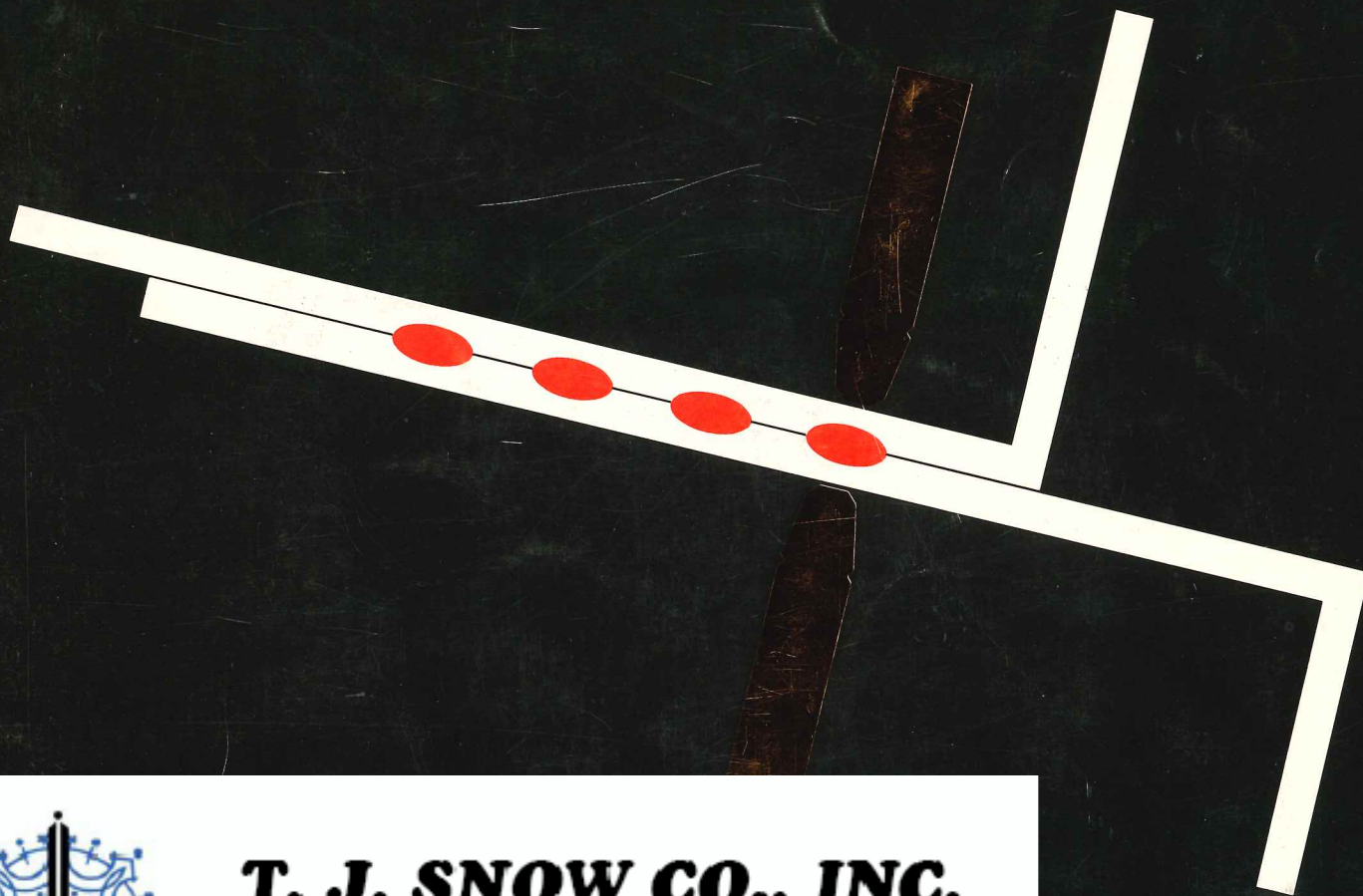


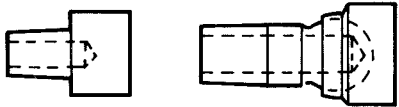
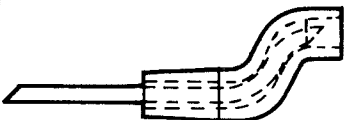
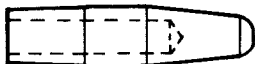
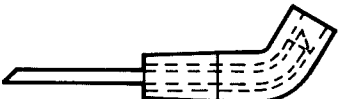
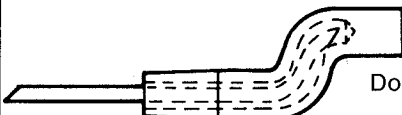
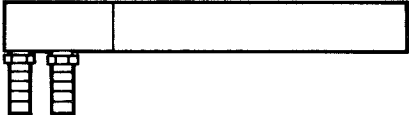
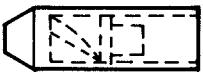
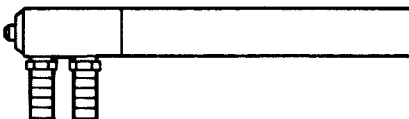
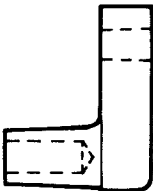
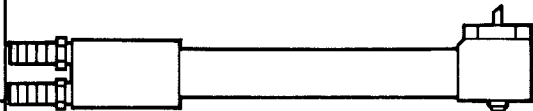
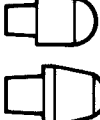
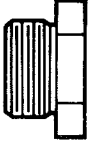
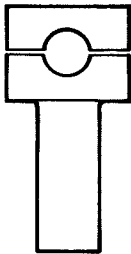
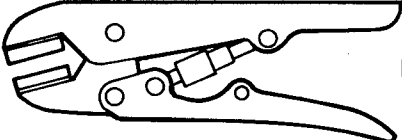
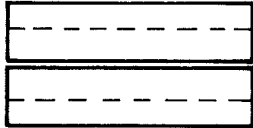
PACIFIC

SPOT WELD
INSERTS,
ELECTRODES
AND
ACCESSORIES



T. J. SNOW CO., INC.

Resistance Welding Machinery & Supplies
Service • Sales • Consulting • Seminars

	Straight Shanks6		Backup Electrodes ...17
	Double Bend Shanks.....7		Straight Electrodes.....18 & 19
	Single Bend Shanks.....8		Double Bend Electrodes.....20
	Tapered Nose Shanks.....9		Non Ejector Holders..22
	Injector Punch for Offset Inserts.....9		Ejector Holders23
	Offset Shanks.....9		Universal Holders24
INSERT ELECTRODES  "T" Series Inserts.....10  "O" Series Inserts11  "I" Series Inserts.....12  "2" Series Inserts13  "3" Series Inserts.....14			Light Duty Holder.....25
 Threaded Morse Taper Adapters.....27			Tee Connections26
			Insert Extractor Pliers15
 Sleeve Adapters27			Drills and Reamers15
 Morse Taper Adapters.....16		 T. J. SNOW CO., INC. 1-800-NOW-SNOW http://www.tjsnow.com	

TYPICAL PHYSICAL AND MECHANICAL PROPERTIES OF PACIFIC ALLOYS

ALLOY	R.W.M.A. GROUP A	AVERAGE PROPERTIES ON	HARDNESS ROCKWELL	ELECTRICAL CONDUCTIVITY % I.A.C.S.	ULTIMATE STRENGTH PSI	ELONGATION % IN 2"	ANNEALING TEMP. °F.
RWMA CLASS 1 A high conductivity alloy recommended for spot welding aluminum, aluminum alloys, magnesium alloys, brass, bronze and coated materials such as tin plate, terne plate and cadmium plate.	CLASS 1	COLD DRAWN BARS UP TO 1" DIA.	65 B — 75 B	85	65,000	20	660
RWMA CLASS 2—CHROMIUM COPPER High conductivity, high strength alloy recommended for spot welding clean mild steel, low alloy steels, stainless steels, nickel, silver, nickel alloys, low conductivity brasses and bronzes.	CLASS 2	H.T. AND COLD DRAWN BARS UP TO 1" DIA.	75 B — 85 B	84	75,000	15	930
RWMA CLASS 3 Used for spot welding metals of high electrical resistance such as stainless steel, nichrome, monel, etc.	CLASS 3	H.T. AND COLD DRAWN BARS UP TO 1" DIA.	90 B — 110 B	50	110,000	10	1,020

RECOMMENDED ELECTRODE MATERIALS FOR SPOT WELDING

WELDABILITY INDICATED APPLICABLE WHEN CONVENTIONAL SPOT WELDING METHODS ARE USED TO JOIN SIMILAR THICKNESS OR MATERIAL.

	TUNGSTEN MOLYBDENUM	MAGNESIUM ALLOYS	NICKEL	NICKEL ALLOYS	STAINLESS STEEL	CHROME PLATE	CADMIUM PLATE	GALV. IRON ZINC PLATE	TERNE PLATE	TIN PLATE	H.R. STEEL-SCALY	C.R. STEEL H.R. STEEL	PHOSPHOR BRONZE	SILICON BRONZE	NICKEL-SILVER	CUPRO-NICKEL	YELLOW BRASS	RED BRASS	ALUMINUM AND DURALUMIN
ALUMINUM AND DURALUMIN		A 1 C 2 C 2 C 1 C 2 C 1 C 2 C 1 B 1 B 1 B 1										C 2 B 2 B 2					B 2 C 2 A 1		
RED BRASS		C 1 B 2 B 2 C 2 C 2 C 1 C 1 C 1 C 1 C 1 C 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
YELLOW BRASS		C 1 B 2 B 2 C 2 C 2 C 1 C 1 C 1 C 1 C 1 C 1										C 2 A 2 A 2 A 2 A 2 A 2 A 2							
CUPRO-NICKEL		B 1 B 4 B 2 C 2 C 2 C 1 C 1 C 1 C 1 C 1 C 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
NICKEL-SILVER		B 1 B 4 B 2 C 2 C 2 C 1 C 1 C 1 C 1 C 1 C 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
SILICON BRONZE		B 1 B 4 B 2 C 2 C 2 C 1 C 1 C 1 C 1 C 1 C 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
PHOSPHOR BRONZE		B 1 B 4 B 2 C 2 C 2 C 1 C 1 C 1 C 1 C 1 C 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
C.R. STEEL	B 2		B 2 B 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
H.R. STEEL-CLEAN	2 5		2 5 2 5 3									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
H.R. STEEL-SCALY	C 2				B 2 C 2 B 2 B 1 B 1 C 1 C 1							C 2 B 2 B 2 B 2 B 2 B 2 B 2							
TIN PLATE	C 2	C 1 B 2 B 1 B 2 B 2 B 1 B 1 B 1 B 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
TERNE PLATE	C 2	C 1 B 2 B 1 B 2 B 2 B 1 B 1 B 1 B 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
GALV. STEEL	C 2	C 1 B 2 B 2 B 2 B 2 B 2 B 2 B 2 B 2										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
ZINC PLATE	1	1 2	1 5 1									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
CADMIUM PLATE	C 2	C 1 B 2 B 1 B 2 B 2 B 1 B 1 B 1 B 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
CHROME PLATE	B 2		B 2 B 2 A 3 A 2									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
STAINLESS STEEL	1 1s		2 1 2 3 2 3 2 3 2 3									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
NICKEL ALLOYS	B 2		A 2 A 2									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
NICKEL	B 2		A 2									C 2 B 2 B 2 B 2 B 2 B 2 B 2							
MAGNESIUM ALLOYS		B 1										C 2 B 2 B 2 B 2 B 2 B 2 B 2							
TUNGSTEN	B 2											C 2 B 2 B 2 B 2 B 2 B 2 B 2							
MOLYBDENUM	2 1s											C 2 B 2 B 2 B 2 B 2 B 2 B 2							

SPECIAL INFORMATION

- 1 — ACCURATE WELDING CONTROL IMPORTANT
- 2 — KEEP ELECTRODES CLEAN
- 3 — USE OF ONE FLAT TIP RECOMMENDED
- 4 — CLEAN METAL BEFORE WELDING
- 5 — WELD STRENGTH QUESTIONABLE
- 6 — SATISFACTORY WELD MAY REQUIRE SPECIAL CONDITIONS

ELECTRODES

- 1 — CLASS 1
- 2 — CLASS 2
- 3 — CLASS 3
- 4 — CLASS 11
- 5 — CLASS 14

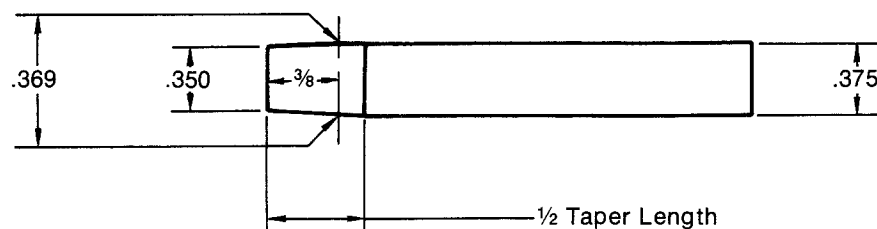
CIRCLED ELECTRODE MATERIALS ARE SECOND CHOICE

WELDABILITY

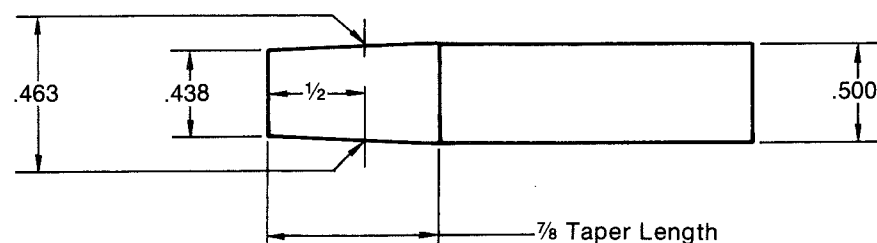
- A — GOOD
B — FAIR
C — POOR

BLOCK INTREPRETATION

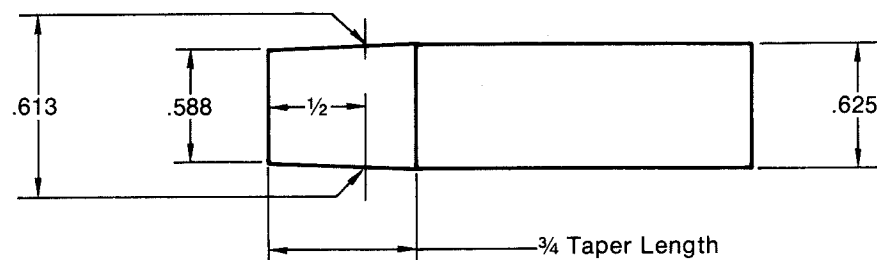
WELDABILITY	ELECTRODE AGAINST
ELECTRODE AGAINST	SPECIAL INFORMATION



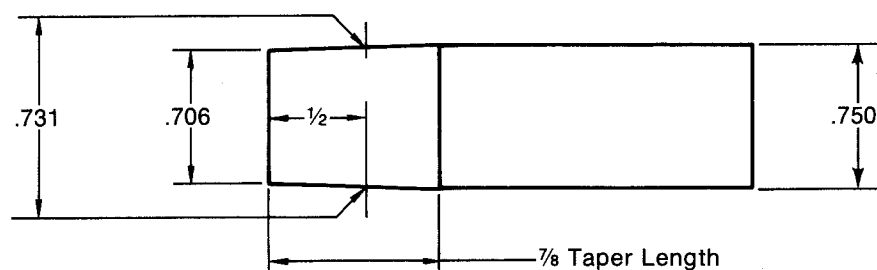
No. 0 Morse Taper
Or
No. 3 RW Taper



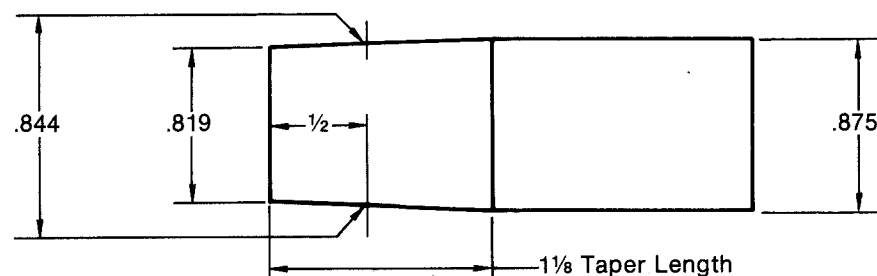
No. 1 Morse Taper
Or
No. 4 RW Taper



No. 2 Morse Taper
Or
No. 5 RW Taper

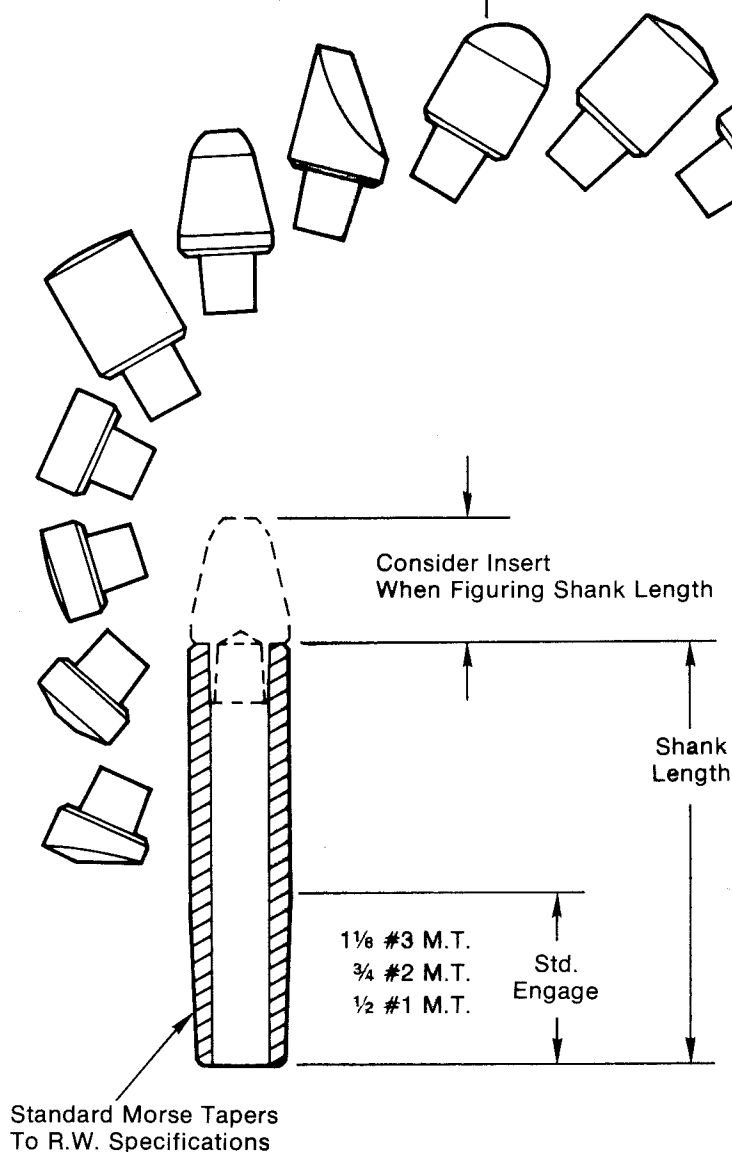


No. 6 RW Taper



No. 3 Morse Taper
Or
No. 7 RW Taper

1. Your machine should have sufficient electrical and mechanical capacity for the job you intend to do.
2. Consider the advantages of using "Pacific" shanks and inserts instead of a solid electrode. When the face is worn beyond use only the insert is discarded, resulting in considerable savings.
3. Choose the proper insert alloy for the job. Refer to your RWMA Manual and the recommendations on page 3 of this catalog.
4. Choose inserts with the recommended diameter and face for the thickness of the stock being welded. Refer to your RWMA Manual.
5. Always use standard shanks and inserts when possible to avoid excessive costs.
6. For proper cooling you will need at least 30 pounds of line pressure supplying cool water at a minimum flow of 1½ gallons per minute.
7. Connect hoses properly so that water flows through the center tube first.
8. Avoid and prevent leaky and clogged water connections.
9. The internal water cooling tube should be adjusted to within ¼ inch of the bottom of the electrode hole.
10. Keep adjustable water tubes free of deposits by applying a few drops of oil.
11. Keep mating surfaces of holder, shank and insert smooth and free of deposits.
12. To insure conductivity, periodically clean all bores and shafts that are clamped and are to have current flow through them.
13. A thin coating of graphite grease on the shank taper and insert skirt will make removal and replacement easier.
14. Use a suitable hammer that will not damage the holder, shank or insert when aligning or assembling.
15. Use "Pacific" toggle pliers for quick removal of inserts with minimum damage to 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

No. 1 MORSE TAPER SHANKS

PART No.	SHANK LENGTH
3105	5/8
3107	7/8
3111	1 1/8
3113	1 3/8
3115	1 5/8
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 5/8
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	1 5/8
3217	1 7/8
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

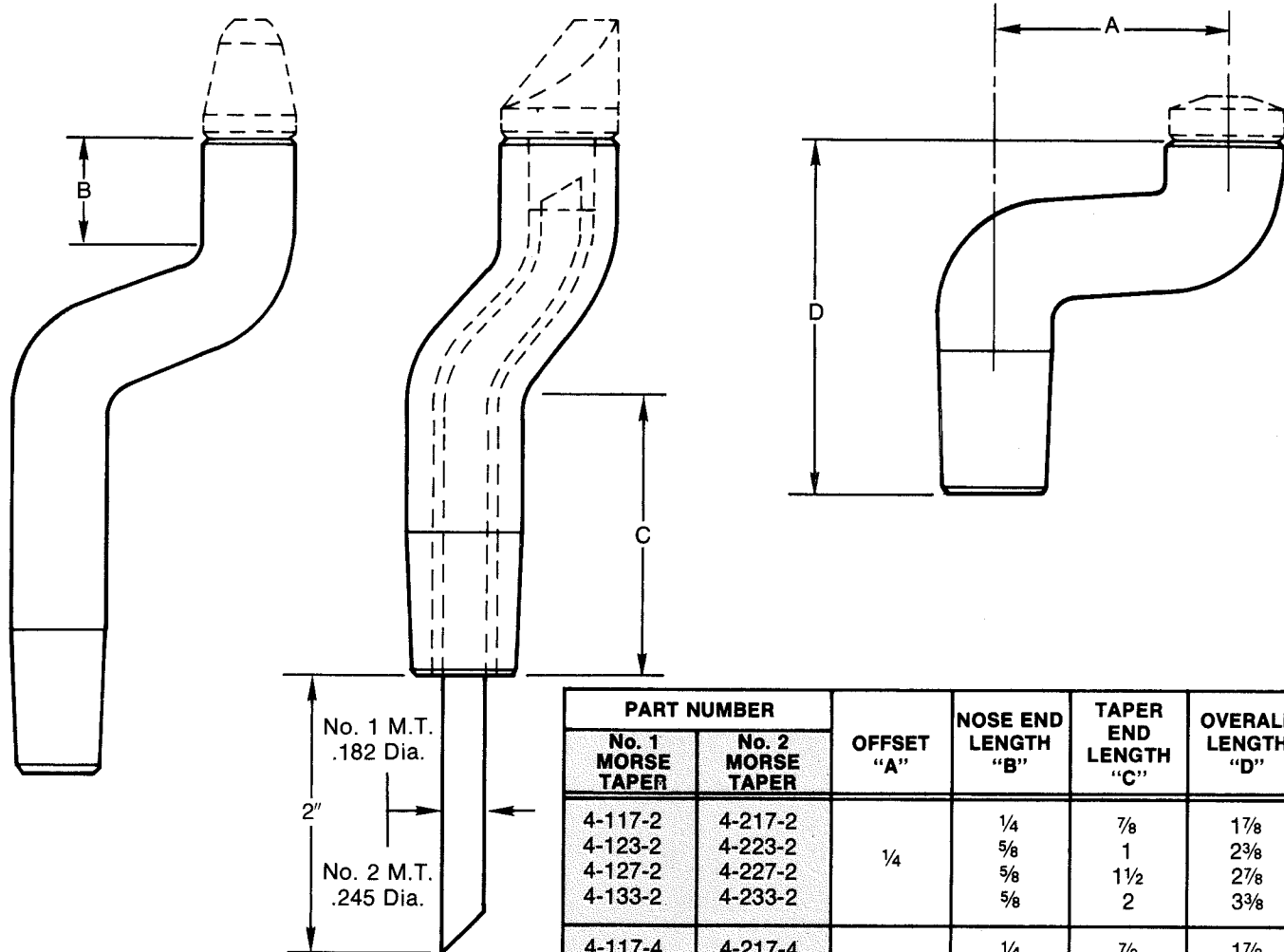
No. 3 MORSE TAPER SHANKS

3314	1 1/2
3320	2
3324	2 1/2
3330	3
3334	3 1/2
3340	4

DOUBLE BEND SHANKS

No. 1 MORSE TAPER—USE SERIES “1” INSERTS—PAGE 12

No. 2 MORSE TAPER—USE SERIES “2” INSERTS—PAGE 13



**ALL SHANKS ARE FURNISHED
WITH WATER TUBES**

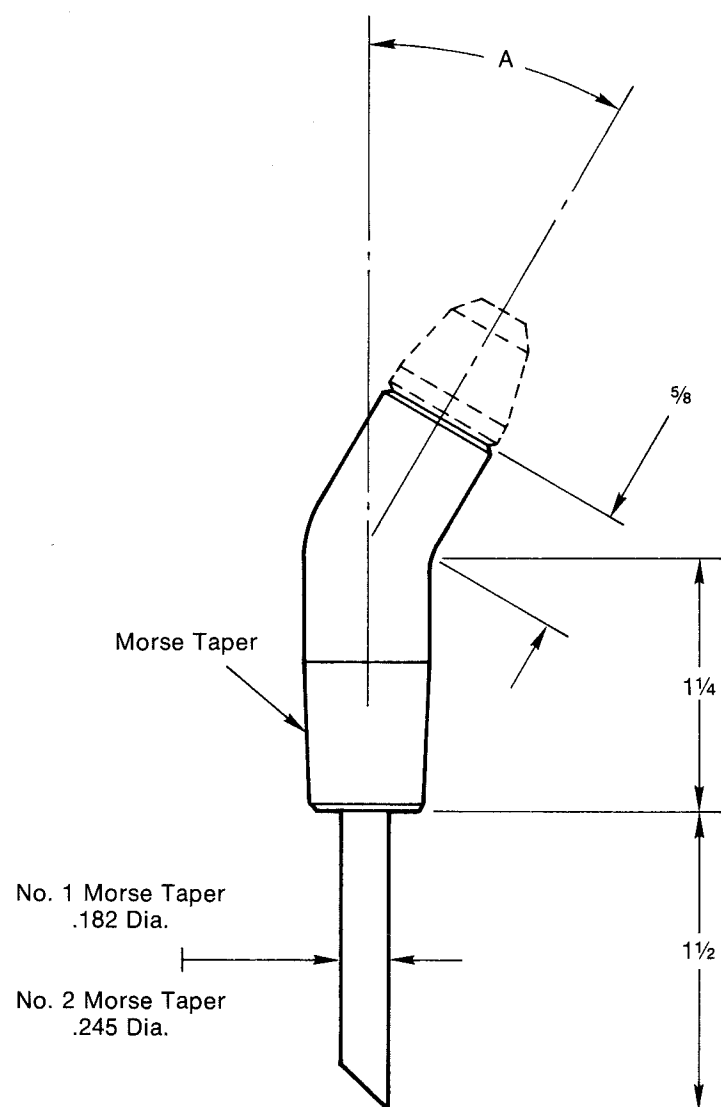
**ALL SHANKS ARE COLD FORMED
FROM R.W.M.A. CLASS II ALLOY**

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	4-217-2	1/4	1/4	7/8	1 7/8
4-123-2	4-223-2		5/8	1	2 3/8
4-127-2	4-227-2		5/8	1 1/2	2 7/8
4-133-2	4-233-2		5/8	2	3 3/8
4-117-4	4-217-4	1/2	1/4	7/8	1 7/8
4-123-4	4-223-4		5/8	1	2 3/8
4-127-4	4-227-4		5/8	1 1/2	2 7/8
4-133-4	4-233-4		5/8	2	3 3/8
4-117-6	4-217-6	3/4	1/4	7/8	1 7/8
4-123-6	4-223-6		5/8	1	2 3/8
4-127-6	4-227-6		5/8	1 1/2	2 7/8
4-133-6	4-233-6		5/8	2	3 3/8
4-117-8	4-217-8	1	1/4	7/8	1 7/8
4-123-8	4-223-8		5/8	1	2 3/8
4-127-8	4-227-8		5/8	1 1/2	2 7/8
4-133-8	4-233-8		5/8	2	3 3/8
4-117-10	4-217-10	1 1/4	1/4	7/8	1 7/8
4-123-10	4-223-10		5/8	1	2 3/8
4-127-10	4-227-10		5/8	1 1/2	2 7/8
4-133-10	4-233-10		5/8	2	3 3/8
4-117-12	4-217-12	1 1/2	1/4	7/8	1 7/8
4-123-12	4-223-12		5/8	1	2 3/8
4-127-12	4-227-12		5/8	1 1/2	2 7/8
4-133-12	4-233-12		5/8	2	3 3/8
4-117-14	4-217-14	1 3/4	1/4	7/8	1 7/8
4-123-14	4-223-14		5/8	1	2 3/8
4-127-14	4-227-14		5/8	1 1/2	2 7/8
4-133-14	4-233-14		5/8	2	3 3/8

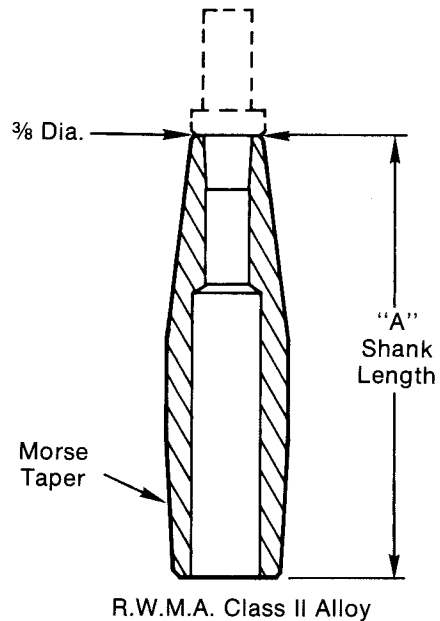
PACIFIC

SINGLE BEND SHANKS

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

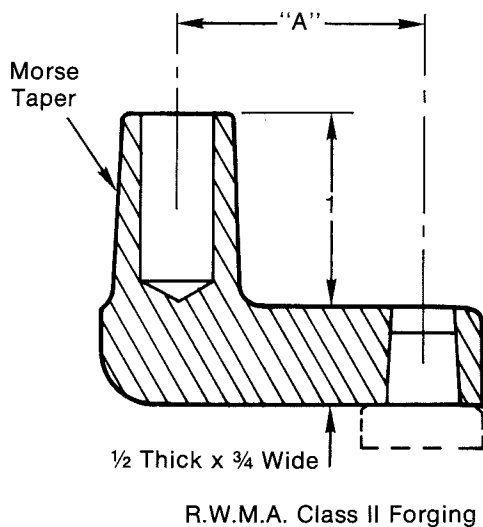


	A BEND	PART No.
No. 1 MORSE TAPER	15°	51-15
	30°	51-30
	45°	51-45
	60°	51-60
	75°	51-75
	90°	51-90
No. 2 MORSE TAPER	15°	52-15
	30°	52-30
	45°	52-45
	60°	52-60
	75°	52-75
	90°	52-90



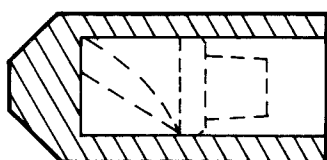
TAPER NOSE SHANKS

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 "I" Page 12 Series "2" Page 13



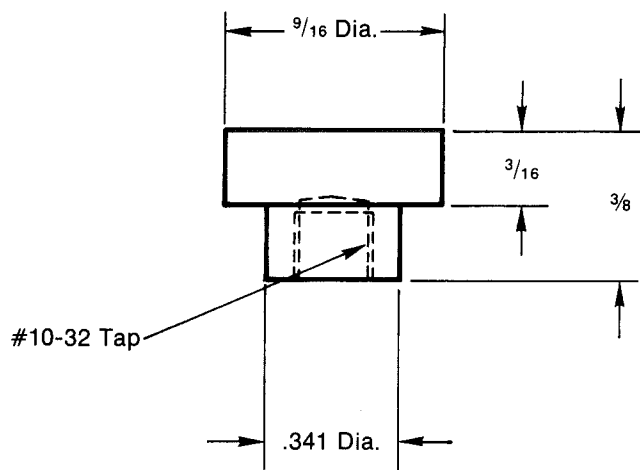
For Mating Offset Inserts Into Shanks
Straight Without Damage To Taper

INJECTOR PUNCH

PART NUMBER	USE WITH INSERTS
OP-1	Series "I" 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

**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

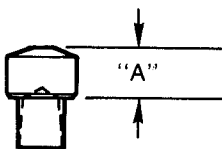
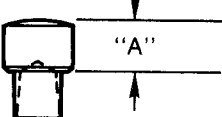
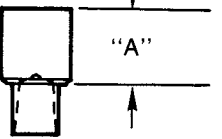
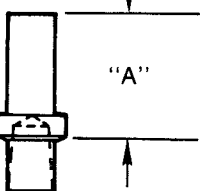
O-S5-2

↓
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				
"C" 	O-C-1	O-C-2	O-C-3	1/4	5/32	3/8	1/4
"R" 	O-R-1	O-R-2	O-R-3	1/4	2" R	3/8	1/4
"F" 	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
"S" 	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

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



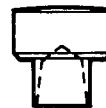
"OH"

OFFSET
SHORT HEAD



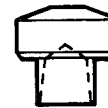
"FH"

FLAT
SHORT HEAD



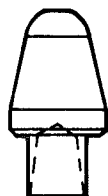
"RH"

RADIUS
SHORT HEAD



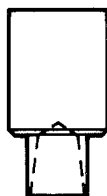
"CH"

CONE
SHORT HEAD



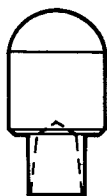
"P"

POINTED



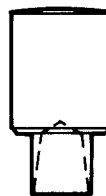
"F"

FLAT



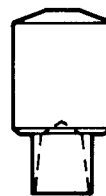
"D"

DOMED



"R"

RADIUS



"C"

CONE



"O"

OFFSET

		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 $\frac{3}{16}$ $\frac{3}{16}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
	"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-OH-2	1-OH-3	$\frac{3}{16}$ $\frac{1}{2}$ 2" R $\frac{3}{16}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
	"FH"	1-FH-1	1-FH-2	1-FH-3				
	"RH"	1-RH-1	1-RH-2	1-RH-3				
	"CH"	1-CH-1	1-CH-2	1-CH-3				

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



"FH"

FLAT
SHORT HEAD



"RH"

RADIUS
SHORT HEAD



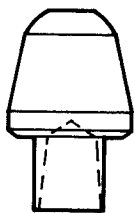
"CH"

CONE
SHORT HEAD



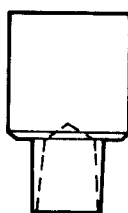
"OH"

OFFSET
SHORT HEAD



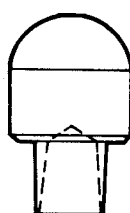
"P"

POINTED



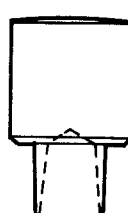
"F"

FLAT



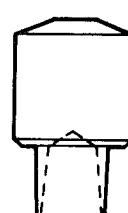
"D"

DOMED



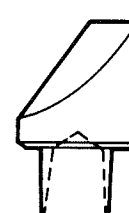
"R"

RADIUS



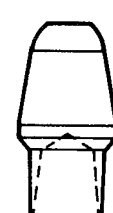
"C"

CONE



"O"

OFFSET



"T"

TAPERED

		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	$\frac{1}{4}$ $\frac{5}{8}$ $\frac{1}{8}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{8}$
	"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 $\frac{1}{4}$ $\frac{1}{4}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{3}{8}$
	"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	$\frac{1}{4}$	$\frac{1}{2}$		
SHORT HEAD	"FH"	2-FH-1	2-FH-2	2-FH-3	$\frac{5}{8}$ 2" R $\frac{1}{4}$ $\frac{1}{4}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
	"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

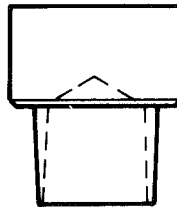
3-P-2

3—INSERT SERIES

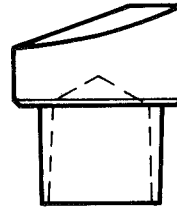
P—NOSE SHAPE

2—CLASS ALLOY

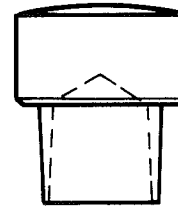
FLAT
SHORT HEAD
"FH"



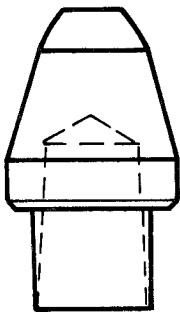
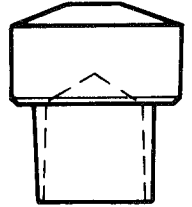
OFFSET
SHORT HEAD
"OH"



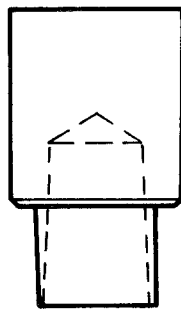
RADIUS
SHORT HEAD
"RH"



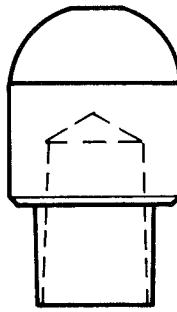
CONE
SHORT HEAD
"CH"



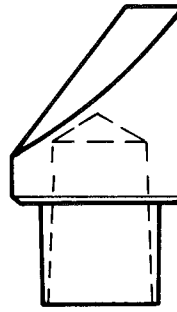
"P"
POINTED



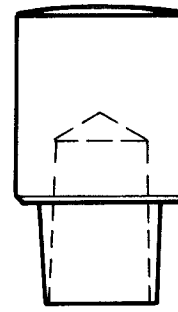
"F"
FLAT



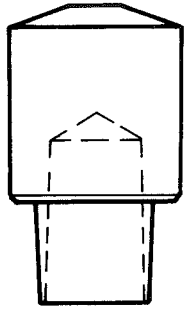
"D"
DOME



"O"
OFFSET



"R"
RADIUS

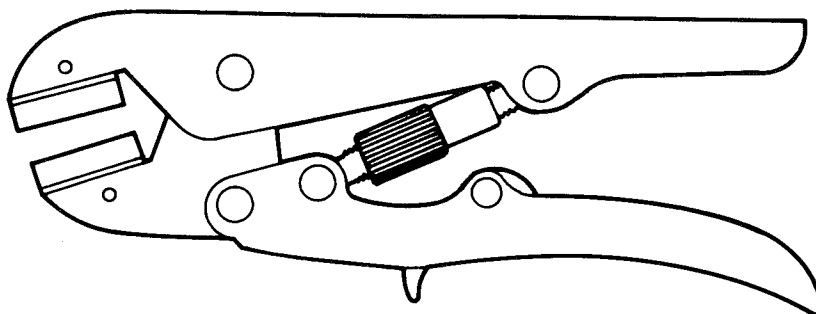


"C"
CONE

		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	$\frac{5}{16}$ $\frac{7}{8}$ $\frac{1}{4}$	$\frac{7}{8}$	1"	$\frac{1}{2}$
	"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	$\frac{5}{16}$ 2" R. $\frac{5}{16}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
	"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	$\frac{7}{8}$ $\frac{5}{16}$ 2" R. $\frac{5}{16}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
	"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				

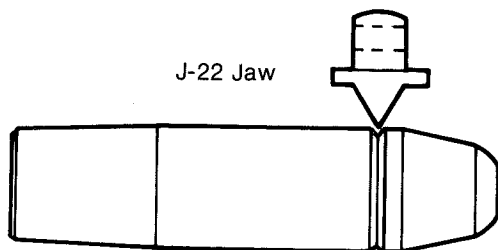
INSERT EXTRACTOR PLIERS

Jaws May Be
Ordered Separately



P-22 PLIERS

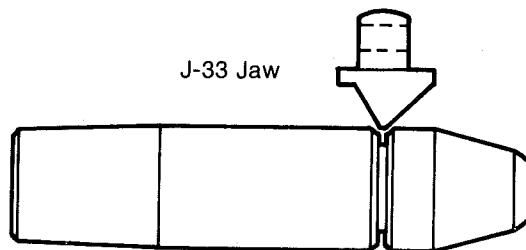
J-22 Jaw



For Extracting Pacific Inserts

P-33 PLIERS

J-33 Jaw



For Extracting Automotive Style

DRILLS AND REAMERS



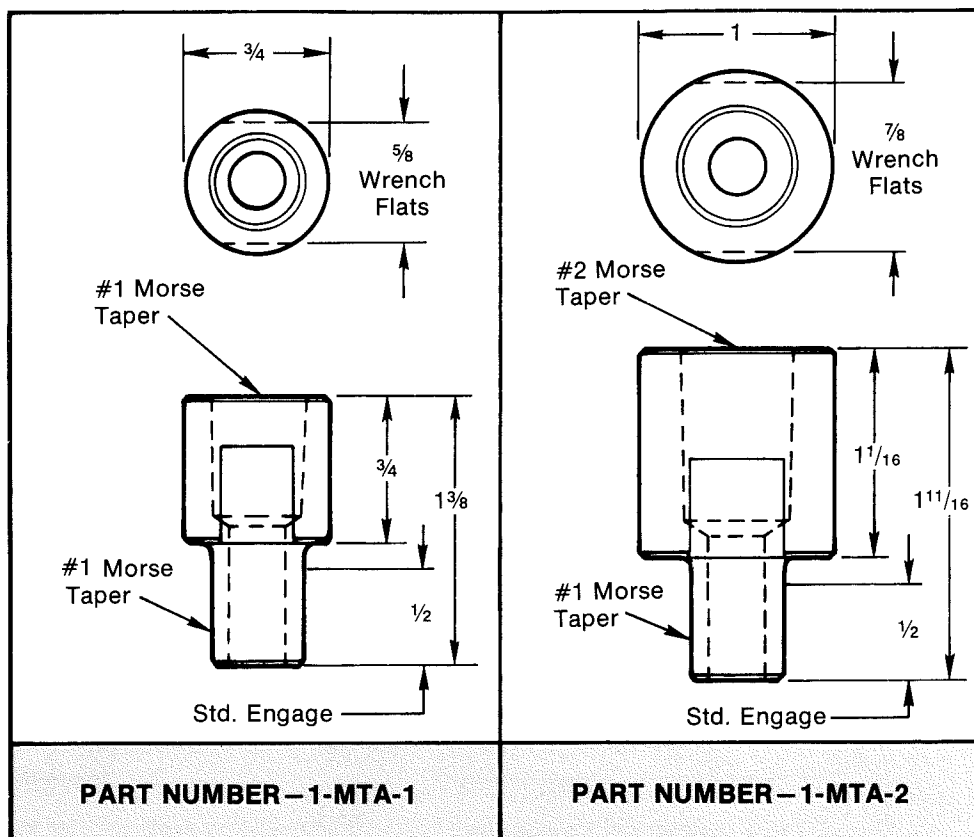
← Hollow End

Hollow End To Clear Water Tube in
Double And Single Bend Shanks, Etc.

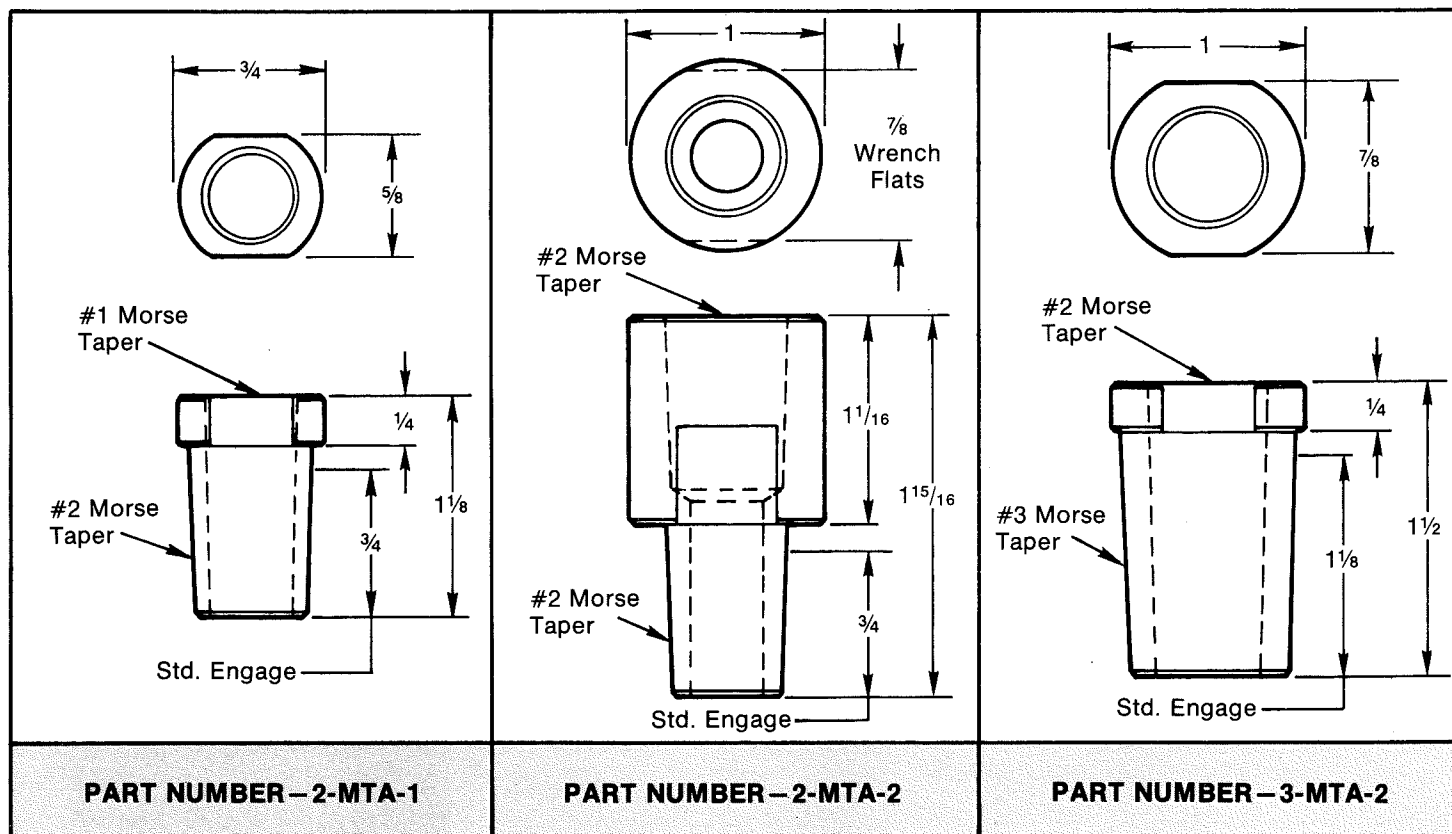
USE	INSERT SERIES	PART NUMBER
DRILLS AND HOLLOW REAMERS FOR REWORKING WORN INSERT SOCKETS IN PACIFIC SHANKS AND MAKING INSERT SOCKETS IN PROJECTION DIES ETC.	"0"	D-0 DRILL R-0 REAMER
	"1"	D-1 DRILL R-1 REAMER
	"2"	D-2 DRILL R-2 REAMER
	"3"	D-3 DRILL R-3 REAMER
	"4"	D-4 DRILL R-4 REAMER

OTHER TAPER AND
THREADED ADAPTERS
ON REQUEST.

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



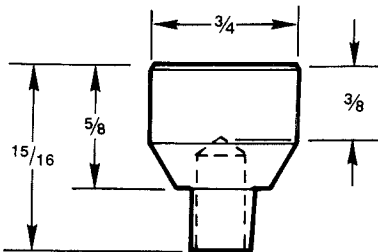
ALL ADAPTERS - R.W.M.A. CLASS II ALLOY



BACK-UP INSERTS R.W.M.A. CLASS II ALLOY

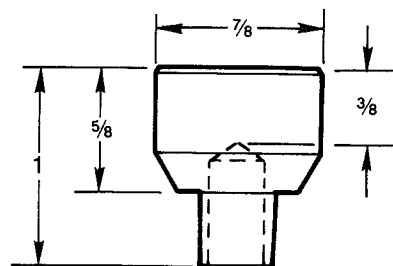
FOR USE WITH NO. 1 AND NO. 2
MORSE TAPER PACIFIC SHANKS.

REFER TO PAGE 6 FOR MATING SHANKS.



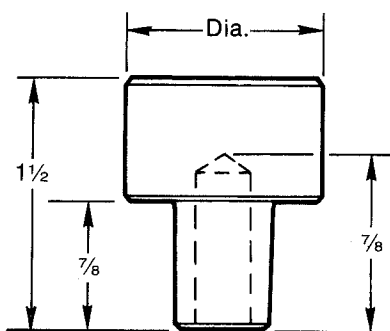
SERIES "1" INSERT

PART NUMBER - 1-B-2



SERIES "2" INSERT

PART NUMBER - 2-B-2

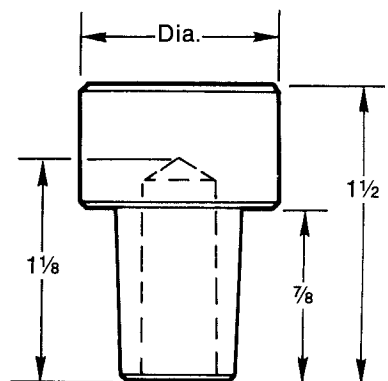


NO. 1 MORSE TAPER

BACK-UP ELECTRODES R.W.M.A. CLASS II ALLOY

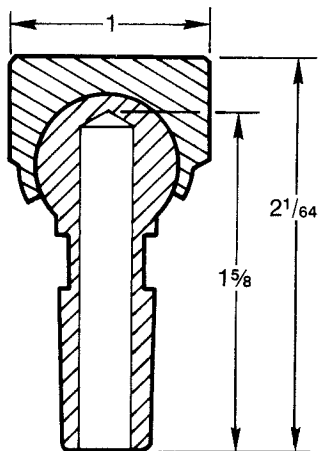
PART NUMBER

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



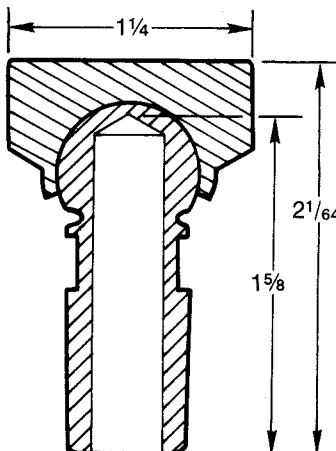
NO. 2 MORSE TAPER

SWIVEL HEAD ELECTRODES



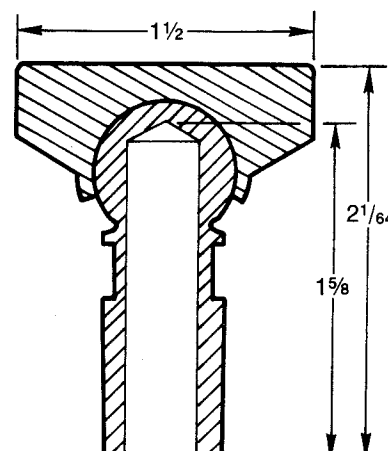
PART NUMBER

NO. 1 MORSE TAPER - 1ST-100-1
NO. 2 MORSE TAPER - 2ST-100-1



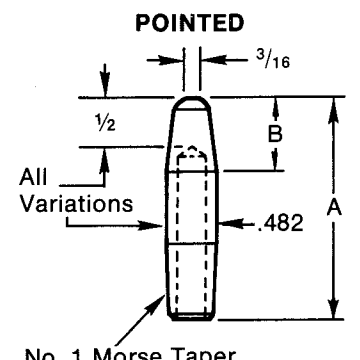
PART NUMBER

NO. 1 MORSE TAPER - 1ST-125-1
NO. 2 MORSE TAPER - 2ST-125-1

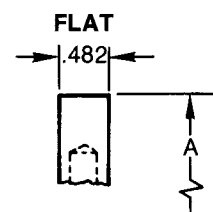
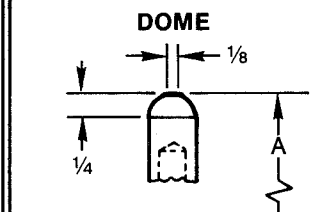
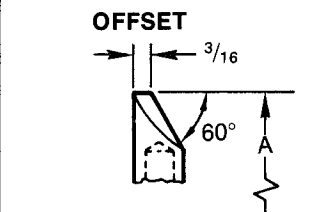


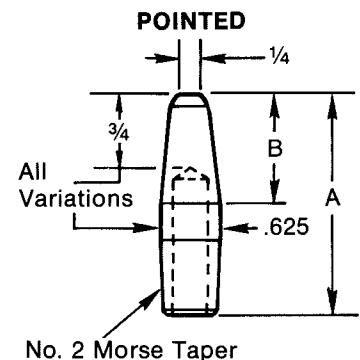
PART NUMBER

NO. 1 MORSE TAPER - 1ST-150-1
NO. 2 MORSE TAPER - 2ST-150-1

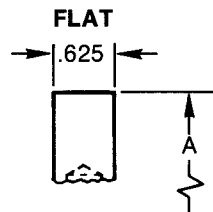
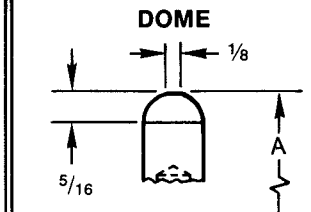
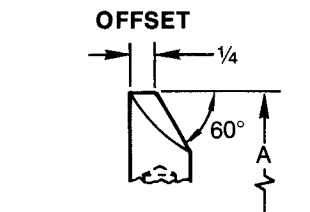
OVERALL LENGTH ↓	POINTED		
	 No. 1 Morse Taper		
A	PART NUMBER CLASS I	CLASS II	B
1 1/4	P-112-1	P-112-2	1/2
1 1/2	P-114-1	P-114-2	1/2
1 3/4	P-116-1	P-116-2	3/4
2	P-120-1	P-120-2	3/4
2 1/4	P-122-1	P-122-2	3/4
2 1/2	P-124-1	P-124-2	3/4
2 3/4	P-126-1	P-126-2	3/4
3	P-130-1	P-130-2	3/4
3 1/4	P-132-1	P-132-2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

No. 1 MORSE TAPER

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

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

No. 2 MORSE TAPER

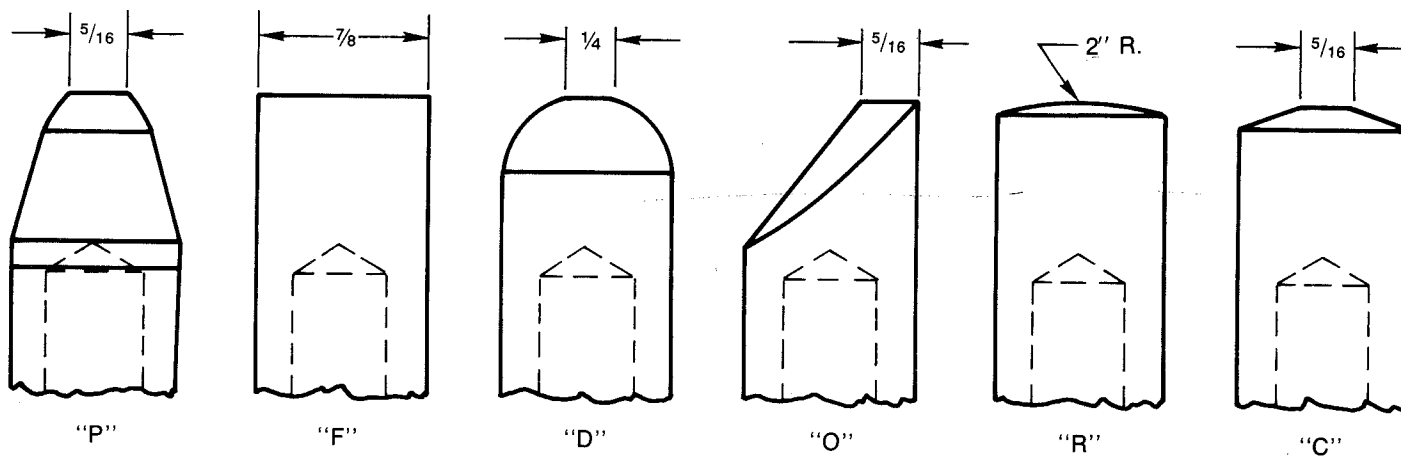
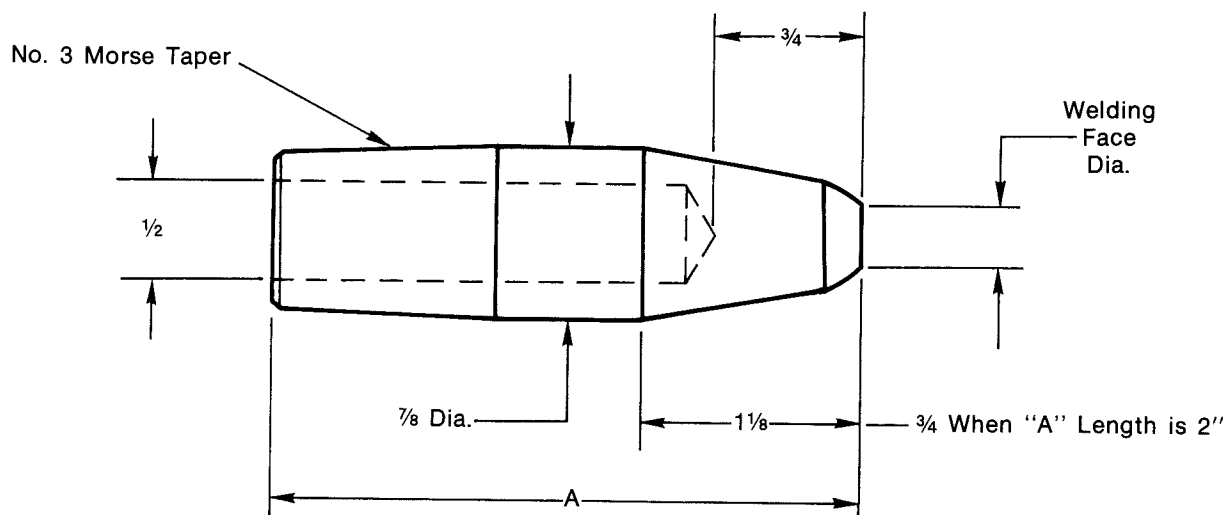
FLAT		DOME		OFFSET	
					
PART NUMBER		PART NUMBER		PART NUMBER	
CLASS I	CLASS II	CLASS I	CLASS II	CLASS I	CLASS II
F-212-1	F-212-2	D-212-1	D-212-2	O-212-1	O-212-2
F-214-1	F-214-2	D-214-1	D-214-2	O-214-1	O-214-2
F-216-1	F-216-2	D-216-1	D-216-2	O-216-1	O-216-2
F-220-1	F-220-2	D-220-1	D-220-2	O-220-1	O-220-2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

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

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
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	

PACIFIC

ONE-PIECE DOUBLE BEND ELECTRODES

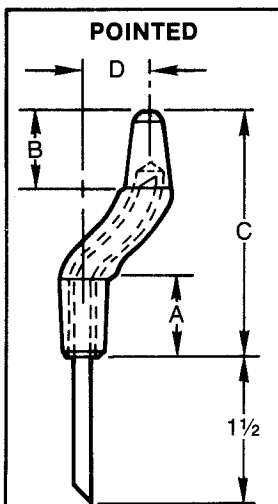
COLD FORMED FROM R.W.M.A. CLASS I AND II ALLOY

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.



"PD"

FLAT



"FD"

DOME



"DD"

OFFSET



"OD"

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		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	1/2	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		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	3/4	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		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	1	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		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	1 1/4	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

POINTED

FLAT

DOME

OFFSET

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		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	1/2	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		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	3/4	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		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	1	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		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	1 1/4	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 – NON EJECTOR TYPE HOLDERS

HE SERIES – EJECTOR TYPE HOLDERS

HU SERIES – UNIVERSAL EJECTOR TYPE HOLDERS

HL SERIES – LIGHT DUTY HOLDERS

On the following pages you will find the "Pacific" line of holders consisting of NON-EJECTOR, EJECTOR, UNIVERSAL and LIGHT-DUTY types.

"Pacific" holders are strong, dependable units with all barrels, adapters, heads, and tee connections made from RWMA Class II copper. Components are made of hard alloy stainless steel. The simple construction and durability of "Pacific" holders will give long service with minimum repair and down time.

Another desirable feature of these units is their versatility.

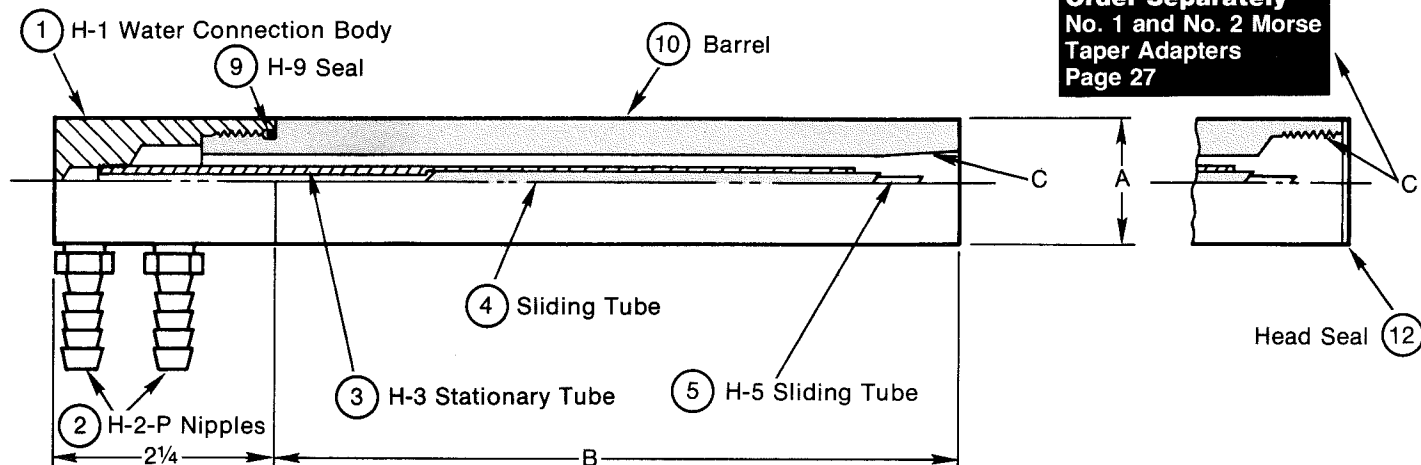
All 1" diameter barrels which are threaded on both

ends are interchangeable and can be used with any threaded Morse taper adapter or offset head having a 7/8-14 thread.

All 1¼" and 1½" diameter barrels which are threaded on both ends are interchangeable and can be used with any threaded Morse taper adapter or offset head having a 1-14 thread.

All water connections will fit all barrels.

Tee connections (Page 26) and threaded Morse taper adapters (Page 27) are to be ordered separately to meet your requirements.

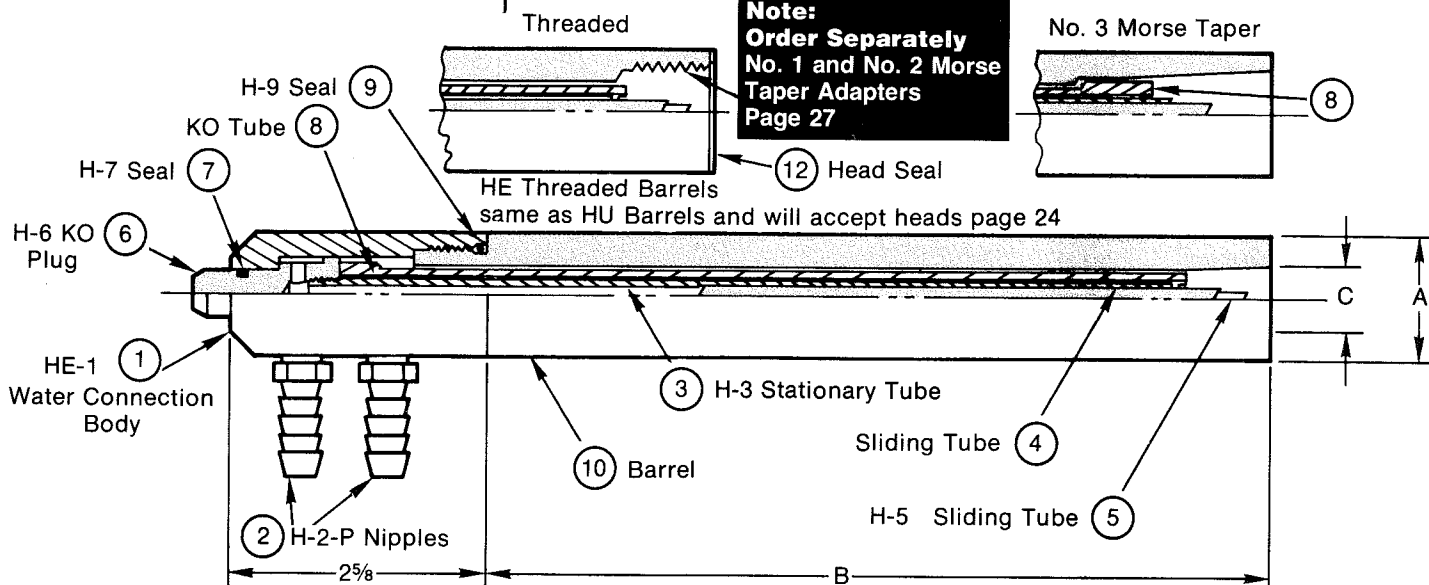


A DIA.	B LENGTH	C TAPER OR THREAD	HOLDER ASSY. No.	WATER CONNEC- TION ASSY. No. INCLUDES PARTS ① ② ③ ④	SLIDING TUBE ④	SLIDING TUBE ⑤	HEAD SEAL ⑫	BARREL WITH SEALS ⑨ ⑩ ⑫
1	8	1	H-408-1	WC-8	H-4-8	H-5		H1-408
		2	H-408-2					H2-408
		7/8-14	H-408-T			H-5	H-12-4	HT-408
	12	1	H-412-1	WC-12	H-4-12	H-5		H1-412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

HE SERIES HOLDERS

WATER COOLED EJECTOR TYPE

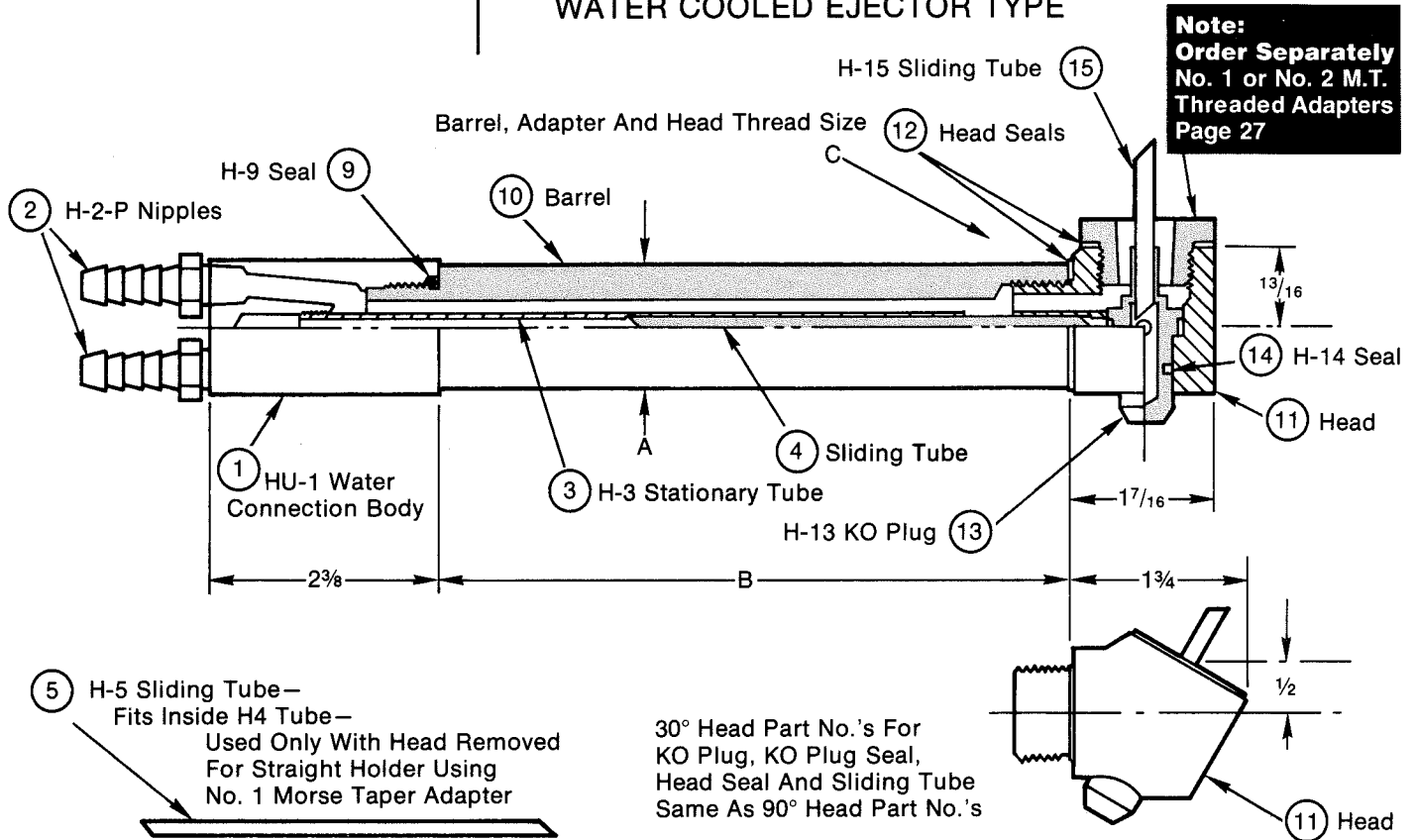
Note:
Order Separately
No. 1 and No. 2 Morse
Taper Adapters
Page 27



A DIA.	B LENGTH	C TAPER OR THREAD	HOLDER ASSY. No.	WATER CONNEC- TION ASSY. No. INCLUDES PARTS ① ② ③ ④ ⑥ ⑦	SLIDING TUBE ④	SLIDING TUBE ⑤	KO TUBE ⑧	HEAD SEAL ⑫	BARREL WITH SEALS ⑨ ⑩ ⑫
1	8	1	HE-408-1	WC-E8	H-4-8	H-5	H8-8-1	H-12-4	H1-408
		2	HE-408-2				H8-8-2		H2-408
		7/8 — 14	HE-408-T			H-5	H8-8-T		HT-408
	12	1	HE-412-1	WC-E12	H-4-12	H-5	H8-12-1	H-12-4	H1-412
		2	HE-412-2				H8-12-2		H2-412
		7/8 — 14	HE-412-T			H-5	H8-12-T		HT-412
1 1/4	8	1	HE-508-1	WC-E8	H-4-8	H-5	H8-8-1	H-12-5	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		HT-508
	12	1	HE-512-1	WC-E12	H-4-12	H-5	H8-12-1	H-12-5	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		HT-512
1 1/2	8	1	HE-608-1	WC-E8	H-4-8	H-5	H8-8-1	H-12-5	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		HT-608
	12	1	HE-612-1	WC-E12	H-4-12	H-5	H8-12-1	H-12-5	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		HT-612

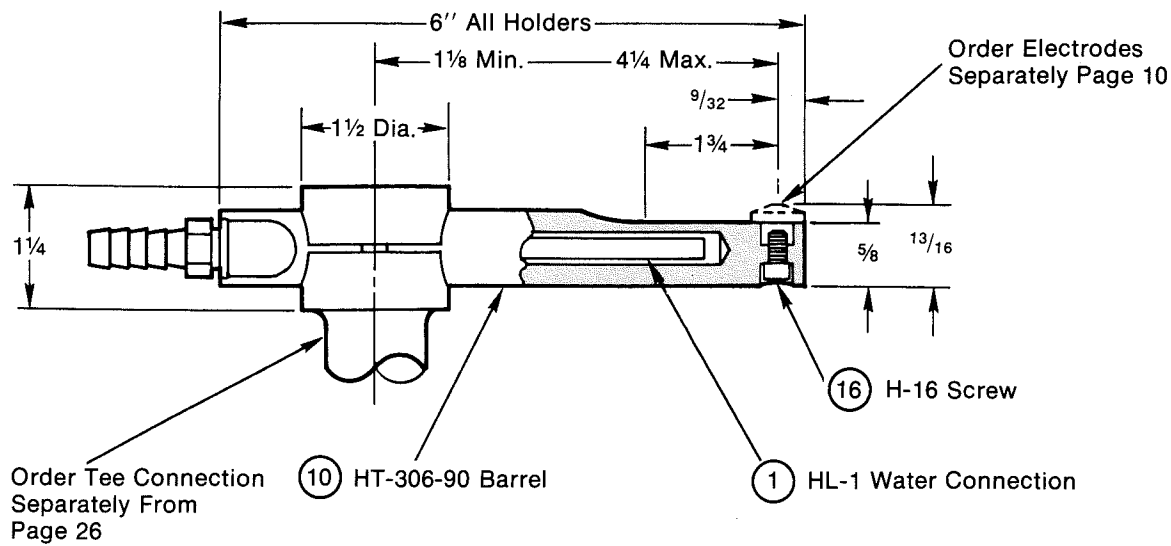
HU SERIES HOLDERS

WATER COOLED EJECTOR TYPE



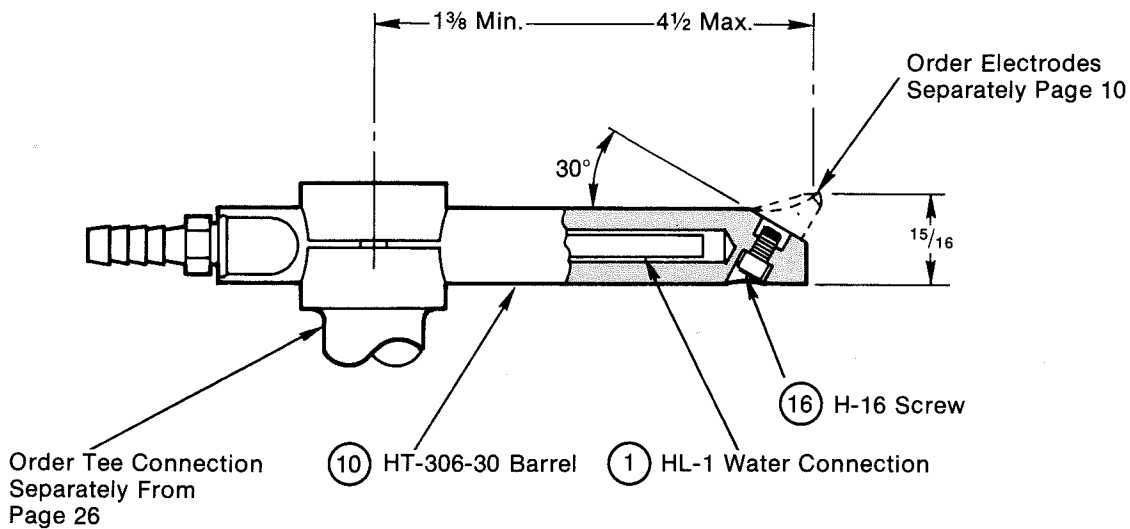
A DIA.	B LENGTH	C THREAD	HOLDER ASSY. NUMBER —90 IS 90° HEAD —30 IS 30° HEAD	HEAD ASSY. NUMBER INCLUDES PARTS ⑪ ⑫ ⑬ ⑭ ⑮	HEAD ⑪	WATER CONNEC- TION ASSY. No. INCLUDES PARTS ① ② ③ ④	SLIDING TUBE ④	HEAD SEALS ⑫	BARREL WITH SEALS ⑨ ⑩ ⑫
1	8	7/8—14	HU-408-30	HU-430	H-11-430	WC-U8	H-4-8	H-12-4	HT-408
			HU-408-90	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				
1¼	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				
1½	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				

ALL BARRELS $\frac{3}{4}$ DIA. CLASS II COPPER



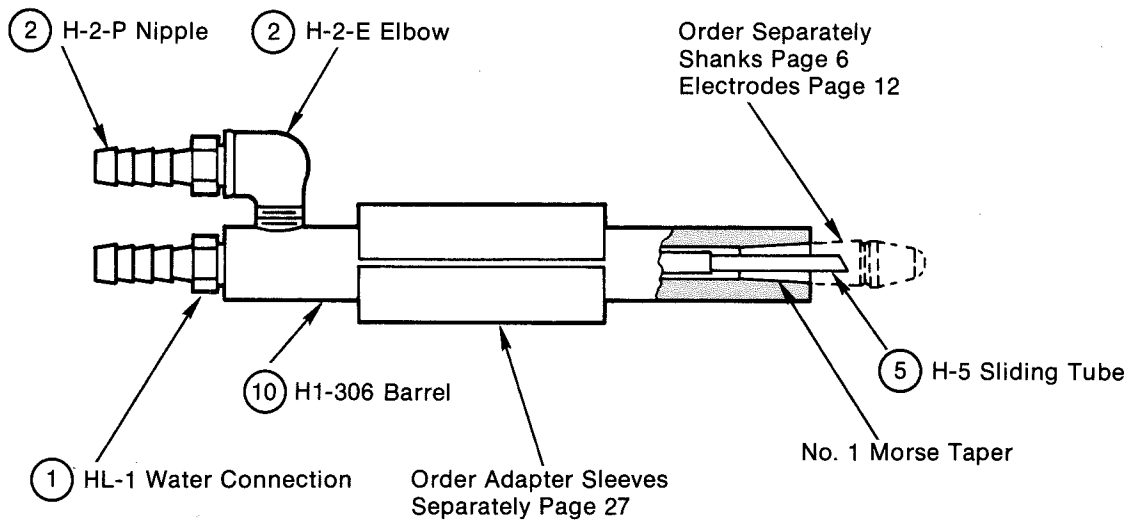
**HOLDER
ASSY. No.**

HL-306-90



**HOLDER
ASSY. No.**

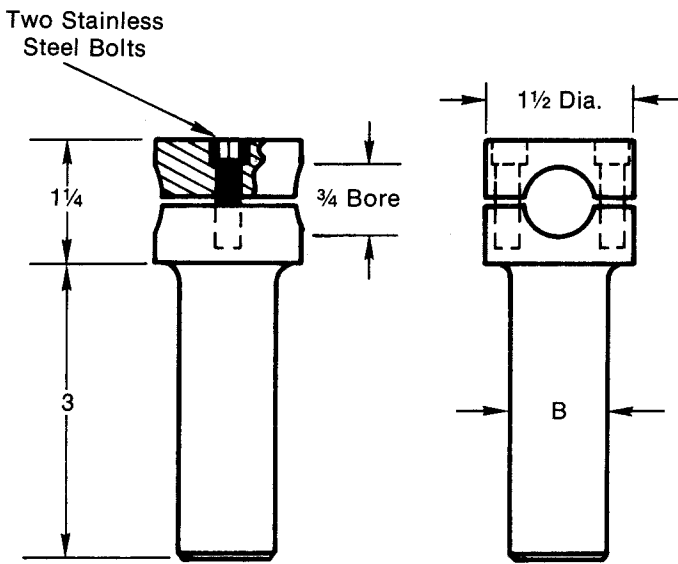
HL-306-30



**HOLDER
ASSY. No.**

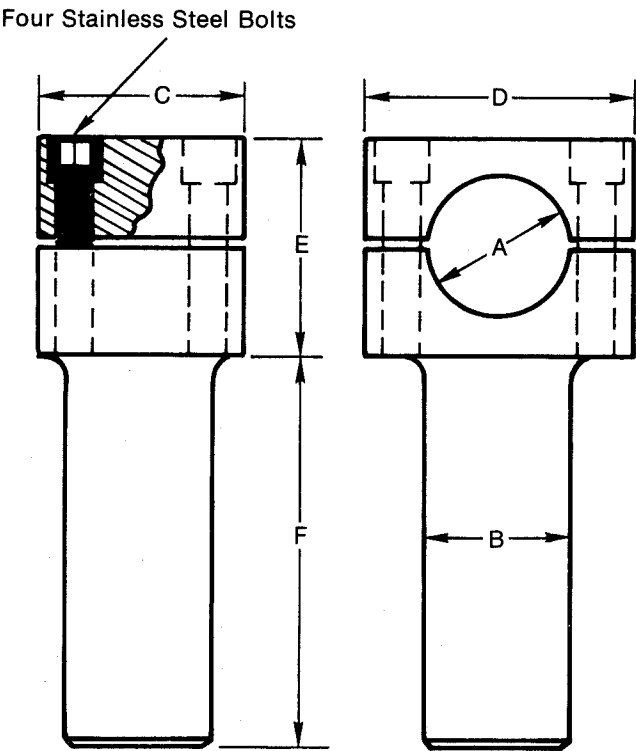
HL-306

LIGHT DUTY



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

REGULAR AND HEAVY DUTY



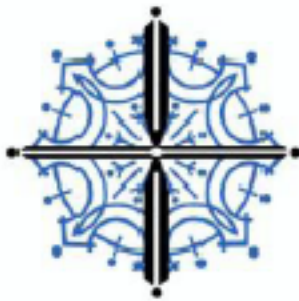
PART No.	A HOLE DIA.	B SHANK DIA.	C	D	E	F
T-44	1	1				
T-45	1	1 1/4	1 7/8	2 1/2	1 5/8	3 1/4
T-46	1	1 1/2				
T-54	1 1/4	1				
T-55	1 1/4	1 1/4				
T-56	1 1/4	1 1/2	2	2 3/4	2	4
T-65	1 1/2	1 1/4				
T-66	1 1/2	1 1/2				

Head Seal Furnished With Holders—Order Separately From Holder Page A B 7/8-14 Thd. 1" CLASS II COPPER	A	B	PART No.
	No. 1 M.T.	3/16	1-A-1
	No. 2 M.T.	5/16	1-A-2

Head Seal Furnished With Holders—Order Separately From Holder Page A B 1-14 Thd. 1 1/4" CLASS II COPPER	A	B	PART No.
	No. 1 M.T.	3/16	2-A-1
	No. 2 M.T.	5/16	2-A-2

SLEEVE ADAPTERS

2 1/2 A B CLASS II COPPER	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



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