**NUMBERING SYSTEM**

- **NPT - 1/16 - 27 - CCV 90 - * - ***
  - **STD PLATING:** FUSED ELECTRO TIN (NO LETTER REQUIRED)
  - **SPECIAL MODIFICATIONS**
  - **ELECTRODE DIAMETER (THOUSANDTHS)**
  - **ELECTRODE TERMINATIONS**
  - **THREAD SIZE**
  - **NATIONAL PIPE THREAD**
  - **MATERIAL:** NO LETTER - C.R.S.
    - SS - STNL'S ST'L
    - X - INCONEL
    - M - MONEL
    - OR AS SPECIFIED

**ALL TERMINALS ARE COMPLETELY DESIGNED. MOST OF THE STANDARD TERMINALS ARE TOOLED. PLEASE CONSULT FACTORY FOR FURTHER DETAILS.**

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**NATIONAL PIPE THREAD TERMINALS**

**COMPRESSION SEAL**

This line of National Pipe Thread terminals are used extensively for gasket-less sealing of extremely high pressure or under water applications. These terminals can be designed to withstand pressures exceeding 40,000 P.S.I. and its applications are unlimited.

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**GENERAL SPECIFICATIONS**

- **SEAL (HERMETICITY)**
  - LEAKAGE RATE LESS THAN
  - $1 \times 10^{-8}$ cc/sec AT 15 P.S.I.

- **THERMAL SHOCK**
  - NO EVIDENCE OF DAMAGE DETRIMENTAL TO THE OPERATION OF TERMINAL AT
  - $-65^\circ C (-85^\circ F)$ TO $+125^\circ C (+257^\circ F)$

- **INSULATION RESISTANCE**
  - GREATER THAN 10,000 MEGOHMS
  - AT 500 VDC PER MIL-STD-202 METHOD 302

- **CORROSION**
MIL-H-28719 THREADED SERIES (NATIONAL PIPE THREAD) SECTION TS-1

NPT 1/16 - 27 - CCV90
VOLTAGE R.M.S. 2000

NPT 1/16 - 27 - PP93
VOLTAGE R.M.S. 2000

NPT 1/8 - 27 - CCV90
VOLTAGE R.M.S. 2500

NPT 1/8 - 27 - PP93
VOLTAGE R.M.S. 2500

NPT 1/4 - 18 - CCV90
VOLTAGE R.M.S. 2500

NPT 1/4 - 18 - PP93
VOLTAGE R.M.S. 2500
NUMBERING SYSTEM

STD PLATING: FUSED ELECTROTIN (NO LETTER REQUIRED)
SPECIAL MODIFICATIONS
ELECTRODE DIAMETER (THOUSANDTHS)
ELECTRODE TERMINATIONS
BODY
MATERIAL: NO LETTER - C.R.S.
SS - STNL’S ST’L
X - INCONEL
M - MONEL
OR AS SPECIFIED

ALL TERMINALS ARE COMPLETELY DESIGNED. MOST OF THE STANDARD TERMINALS ARE TOOLED. PLEASE CONSULT FACTORY FOR FURTHER DETAILS.

THREADING BUSHING TERMINALS — COMPRESSION SEAL

When extreme vibration is a problem, the 1203, 150010 and 150007 Series are the answer. Offering both a mechanical threaded seal plus a soft solder seal, these terminals will overcome most vibration problems. A variation of sizes and contact configurations make these seals a popular choice.

GENERAL SPECIFICATIONS

SEAL (HERMETICITY)
LEAKAGE RATE LESS THAN
\[1 \times 10^{-8} \text{ cc/sec AT 15 P.S.I.}\]

THERMAL SHOCK
EVIDENCE OF DAMAGE DETRIMENTAL TO THE OPERATION OF TERMINAL AT
\[-65^\circ \text{C} (-85^\circ \text{F}) \text{ TO } +125^\circ \text{C} (+257^\circ \text{F})\]

INSULATION RESISTANCE
GREATER THAN 10,000 MEGOHMS
AT 500 VDC PER MIL-STD-202
METHOD 302

CORROSION
NUMBERING SYSTEM

STD. PLATING: FUSED ELECTROTIN (NO LETTER REQUIRED)
SPECIAL MODIFICATIONS — ELECTRODE
ELECTRODE DIAMETER (THOUSANDTHS)
ELECTRODE TERMINATIONS
SPECIAL MODIFICATIONS — BODY
SIZE
THREADS IN $\frac{1}{16}$
SERIES No.
MATERIAL: NO LETTER - C.R.S.
SS - STNL'S ST'L
X - INCONEL
M - MONEL
OR AS SPECIFIED

ALL TERMINALS ARE COMPLETELY DESIGNED.
MOST OF THE STANDARD TERMINALS ARE TOOLLED.
PLEASE CONSULT FACTORY FOR FURTHER DETAILS.

THREADSED END SEALS — COMPRESSION SEAL

Compression type seal plus a bonding of oxides between glass and metal components forms a tenacious seal capable of withstanding extreme thermal and mechanical shock. Threaded for ease of installation plus the availability of tube lugs makes the 160000 series popular in both commercial and aerospace applications.

GENERAL SPECIFICATIONS

SEAL (HERMETICITY)
LEAKAGE RATE LESS THAN
$1 \times 10^{-8}$ cc/sec AT 15 P.S.I.

THERMAL SHOCK
NO EVIDENCE OF DAMAGE DETRIMENTAL
TO THE OPERATION OF TERMINAL AT
$-65^\circ\text{C} (-85^\circ\text{F})$ TO $+125^\circ\text{C} (+257^\circ\text{F})$

INSULATION RESISTANCE
GREATER THAN 10,000 MEGOHMS
AT 500 VDC PER MIL-STD-202
METHOD 302

CORROSION
TERMINALS WILL MEET SALT SPRAY
MIL-H-28719 THREADED SERIES (THREADED END SEALS) SECTION TS-6

ALL PARTS ARE ALSO AVAILABLE WITHOUT MILLED FLATS ON THREAD

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TL90

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ALSO AVAILABLE WITH 90°, 45°, OR 16° LUGS

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HERMETIC SEAL CORPORATION
4232 TEMPLE CITY BOULEVARD, ROSEMEAD, CA 91770-1592
TEL: (626) 443-8931 / (626) 443-6610 / www.hccindustries.com

TOLERANCE EXCEPT AS SPECIFIED
DECIMALS ±.005 FRACTIONS ± 1/32
MIL-H-28719 THREADED SERIES (THREADED STUD) SECTION TS-7

NUMBERING SYSTEM

*1166* - RPI - *-*

STD PLATING: FUSED ELECTROTIN (NO LETTER REQUIRED)
SPECIAL MODIFICATIONS — ELECTRODE
ELECTRODE TYPE
SPECIAL MODIFICATIONS — BODY
BODY
MATERIAL: NO LETTER - C.R.S.
SS - STNL'S ST'L
X - INCONEL
M - MONEL
OR AS SPECIFIED

ALL TERMINALS ARE COMPLETELY DESIGNED.
MOST OF THE STANDARD TERMINALS ARE TOOLED.
PLEASE CONSULT FACTORY FOR FURTHER DETAILS.

THREADING STUD TERMINAL — COMPRESSION SEAL

The threaded stud terminal line offers either a quick disconnect termination and/or a mechanical plus solder joint for high reliability under extreme vibration conditions. Numerous body and contact sizes enhance the flexibility of this line for numerous applications.

GENERAL SPECIFICATIONS

SEAL (HERMETICITY)
LEAKAGE RATE LESS THAN
1x10^-8 cc/sec AT 15 P.S.I.

THERMAL SHOCK
NO EVIDENCE OF DAMAGE DETERIMENTAL
TO THE OPERATION OF TERMINAL AT
-65°C (-85°F) TO +125°C (+257°F)

INSULATION RESISTANCE
GREATER THAN 10,000 MEGOHMS
AT 500 VDC PER MIL-STD-202
METHOD 302

CORROSION
TERMINALS WILL MEET SALT SPRAY