



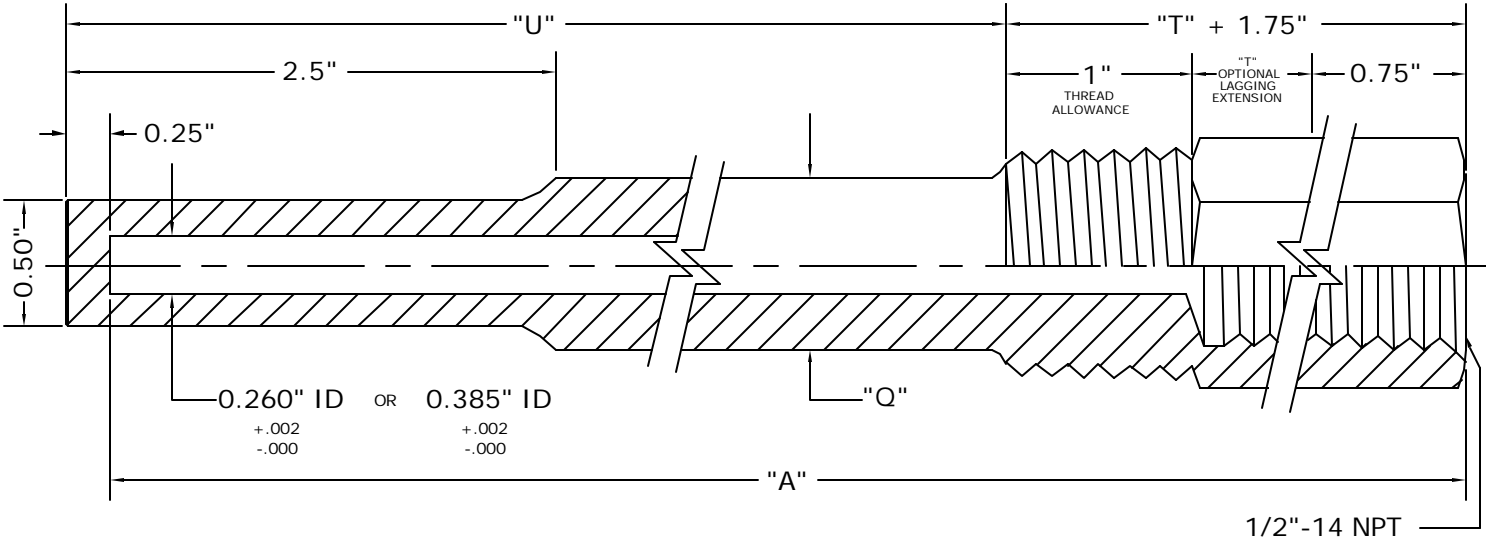
Thermal Manufacturing Solutions

Section F

Thermowells

| | |
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THREADED STEPPED THERMOWELLS



THREADED STEPPED THERMOWELLS

1 2 - 3 - 4 - 5 - 6

1. BORE SIZE

| CODE | BORE SIZE |
|------|-----------|
| 260 | 0.260" ID |
| 385 | 0.385" ID |

2. THERMOWELL STYLES

| CODE | THERMOWELL STYLE |
|------|------------------|
| S | STEPPED |

3. PROCESS THREAD

| CODE | DESCRIPTION | "P" SIZE |
|------|-----------------------------|----------|
| 50 | 1/2" NPT (0.260" BORE ONLY) | 0.625" |
| 75 | 3/4" NPT | 0.750" |
| 100 | 1" NPT | 0.875" |

4. LAGGING EXTENSION

| CODE | DESCRIPTION |
|------|-------------------|
| O | NONE |
| L | LAGGING EXTENSION |

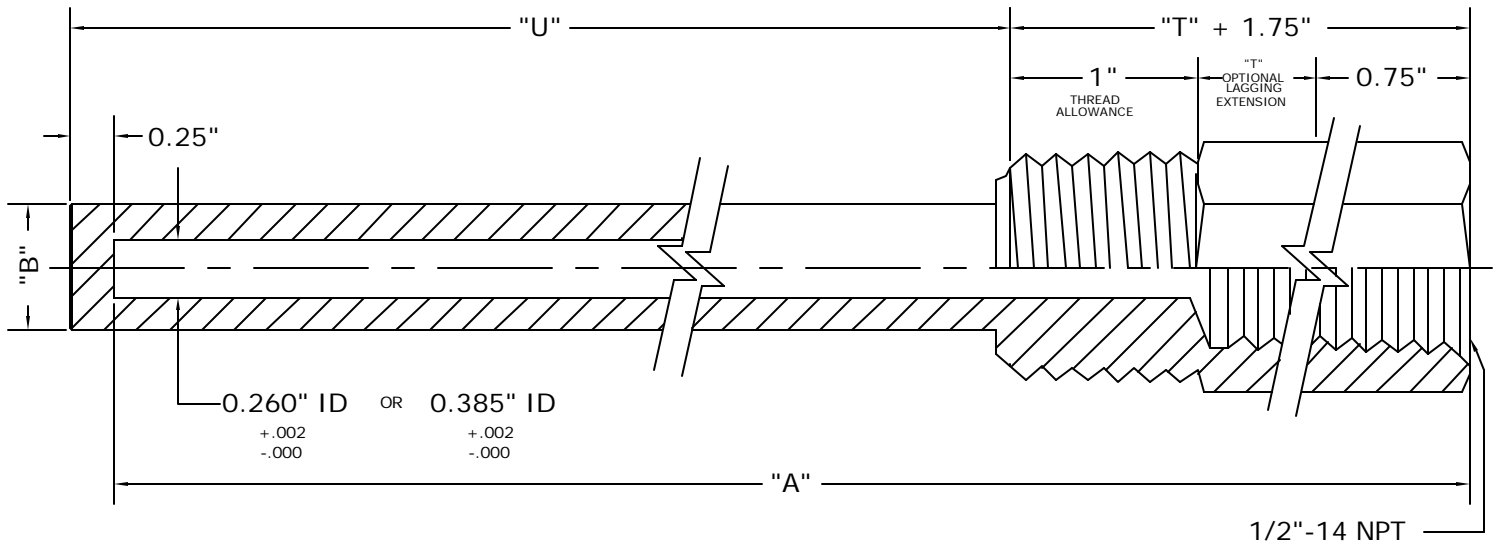
5. LENGTH

| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
|------|-------------------------------|---------------|---------------|
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

6. STEM MATERIAL

| CODE | MATERIAL |
|------|-----------------------|
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

THREADED STRAIGHT THERMOWELLS



THREADED STRAIGHT THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|------------------|
| CODE | THERMOWELL STYLE |
| ST | STRAIGHT |

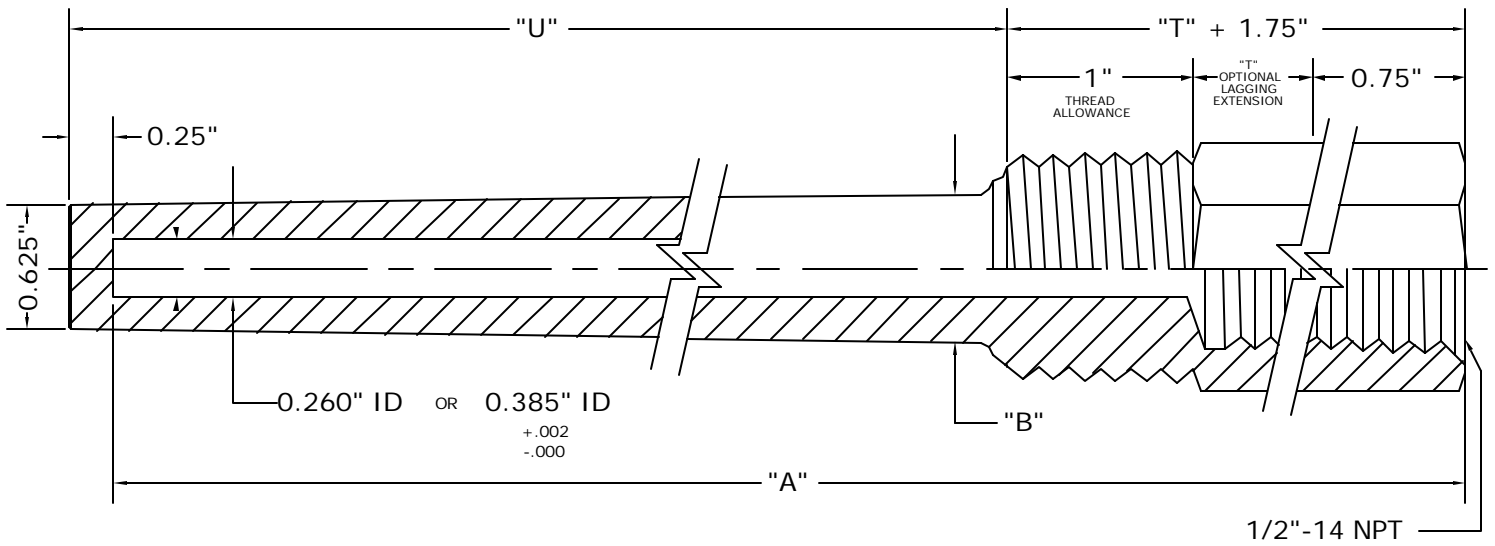
| 3. PROCESS THREAD | | |
|-------------------|-----------------------------|---------|
| CODE | DESCRIPTION | "B" DIA |
| 50 | 1/2" NPT (0.260" BORE ONLY) | 0.625" |
| 75 | 3/4" NPT | 0.750" |
| 100 | 1" NPT | 0.750" |

| 4. LAGGING EXTENSION | |
|----------------------|-------------------|
| CODE | DESCRIPTION |
| O | NONE |
| L | LAGGING EXTENSION |

| 5. LENGTH | | | |
|-----------|-------------------------------|---------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

THREADED TAPERED THERMOWELLS



THREADED TAPERED THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|------------------|
| CODE | THERMOWELL STYLE |
| T | TAPARED |

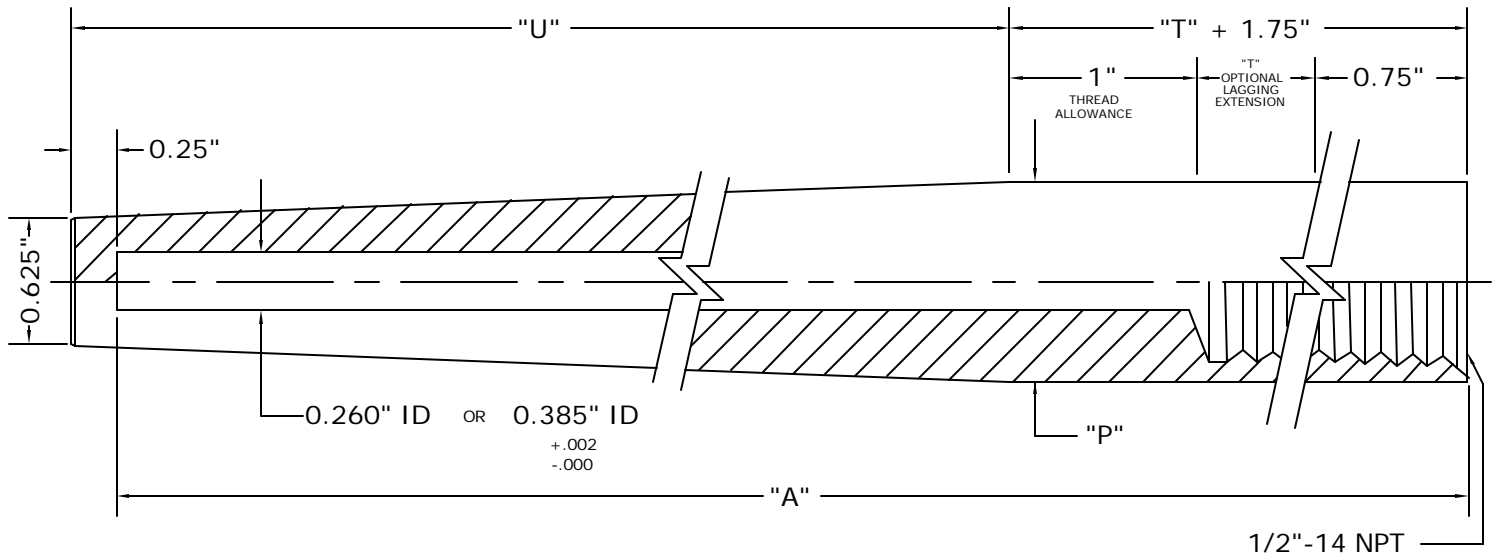
| 3. PROCESS THREAD | | |
|-------------------|-----------------------------|---------|
| CODE | DESCRIPTION | "B" DIA |
| 50 | 1/2" NPT (0.260" BORE ONLY) | 0.625" |
| 75 | 3/4" NPT | 0.875" |
| 100 | 1" NPT | 1.0625" |

| 4. LAGGING EXTENSION | |
|----------------------|-------------------|
| CODE | DESCRIPTION |
| O | NONE |
| L | LAGGING EXTENSION |

| 5. LENGTH | | | |
|-----------|-------------------------------|---------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

WELD-IN THERMOWELLS



WELD-IN THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|------------------|
| CODE | THERMOWELL STYLE |
| W | WELD-IN |

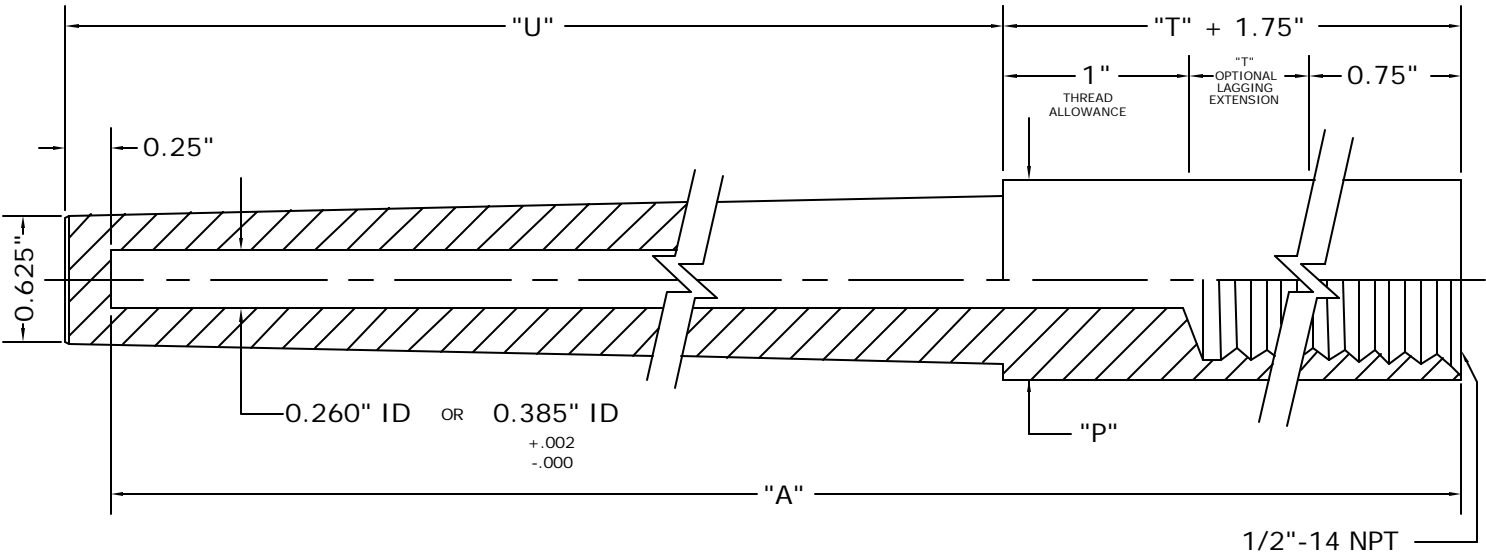
| 3. PROCESS THREAD | |
|-------------------|---------------|
| CODE | "P" DIMENSION |
| 125 | 1.250" |
| 150 | 1.500" |
| 175 | 1.750" |

| 4. LAGGING EXTENSION | |
|----------------------|-------------------|
| CODE | DESCRIPTION |
| O | NONE |
| L | LAGGING EXTENSION |

| 5. LENGTH | | | |
|-----------|-------------------------------|---------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

TAPERED SOCKET WELD THERMOWELLS



TAPERED SOCKET WELD THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|----------------------|
| CODE | THERMOWELL STYLE |
| SWT | SOCKET WELD, TAPERED |

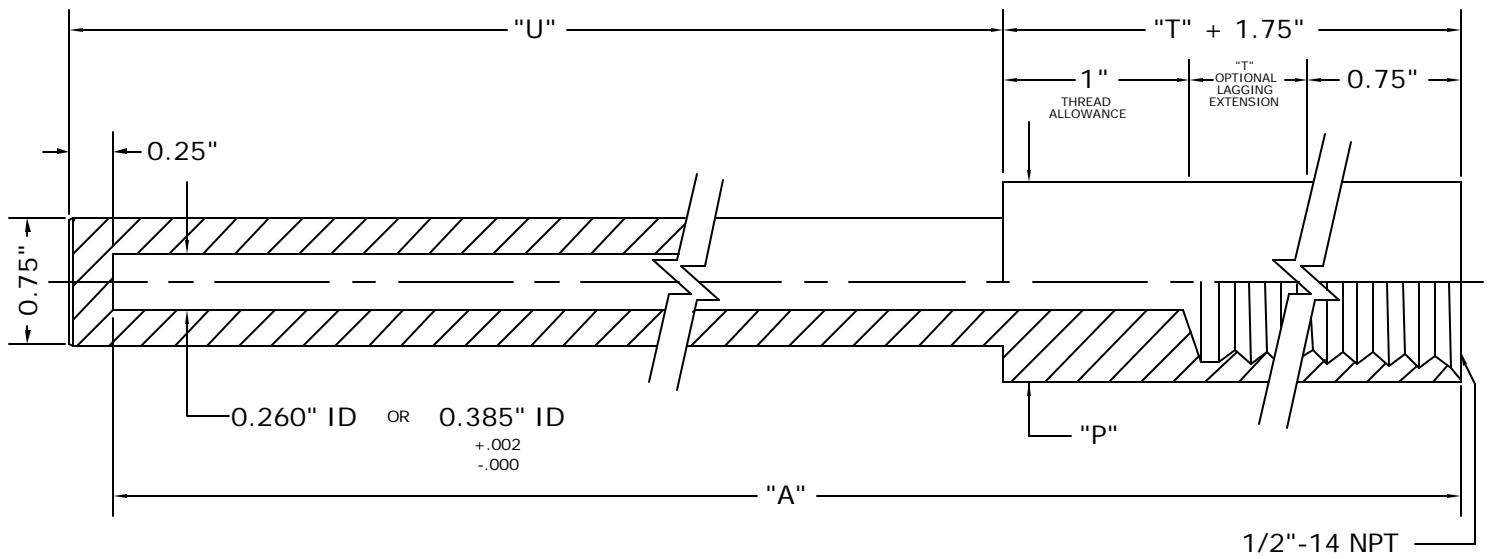
| 3. PROCESS THREAD | |
|-------------------|---------------|
| CODE | "P" DIMENSION |
| 75 | 0.750" |
| 100 | 1.0" |

| 4. LAGGING EXTENSION | |
|----------------------|-------------------|
| CODE | DESCRIPTION |
| O | NONE |
| L | LAGGING EXTENSION |

| 5. LENGTH | | | |
|-----------|-------------------------------|---------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

STRAIGHT SOCKET WELD THERMOWELLS



STRAIGHT SOCKET WELD THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|-----------------------|
| CODE | THERMOWELL STYLE |
| SWST | SOCKET WELD, STRAIGHT |

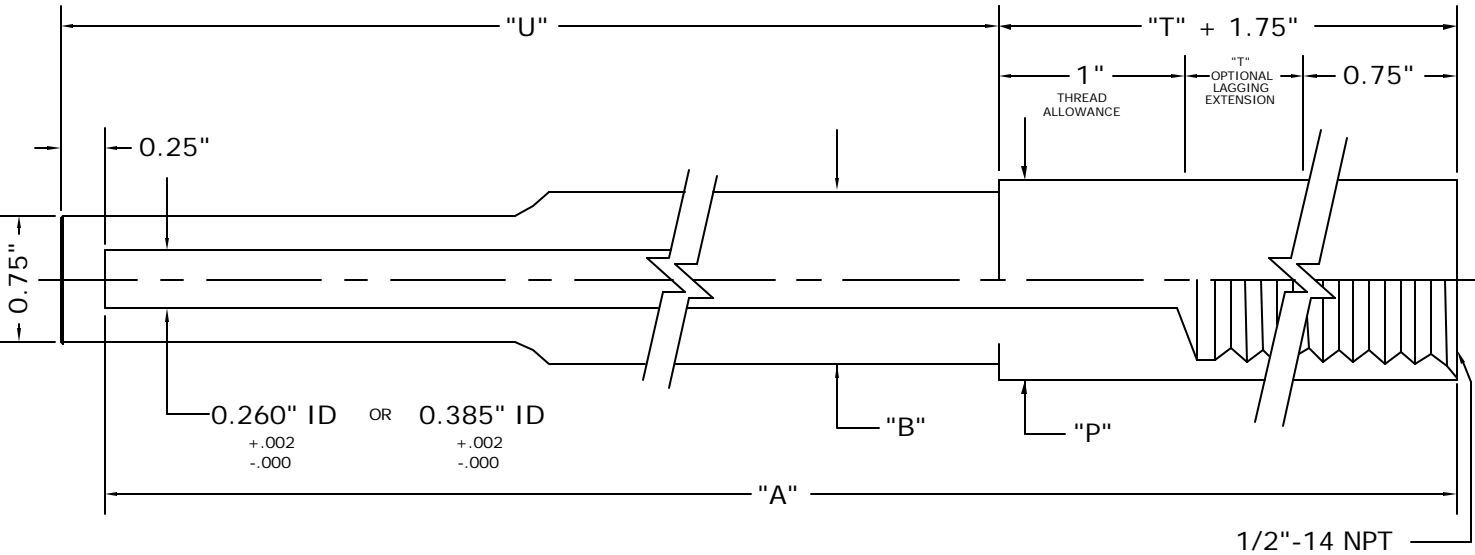
| 3. PROCESS THREAD | |
|-------------------|---------------|
| CODE | "P" DIMENSION |
| 75 | 0.750" |
| 100 | 1.0" |

| 4. LAGGING EXTENSION | |
|----------------------|-------------------|
| CODE | DESCRIPTION |
| O | NONE |
| L | LAGGING EXTENSION |

| 5. LENGTH | | | |
|-----------|-------------------------------|---------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

STEPPED SOCKET WELD THERMOWELLS



STEPPED SOCKET WELD THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|-----------------------|
| CODE | THERMOWELL STYLE |
| SWST | SOCKET WELD, STRAIGHT |

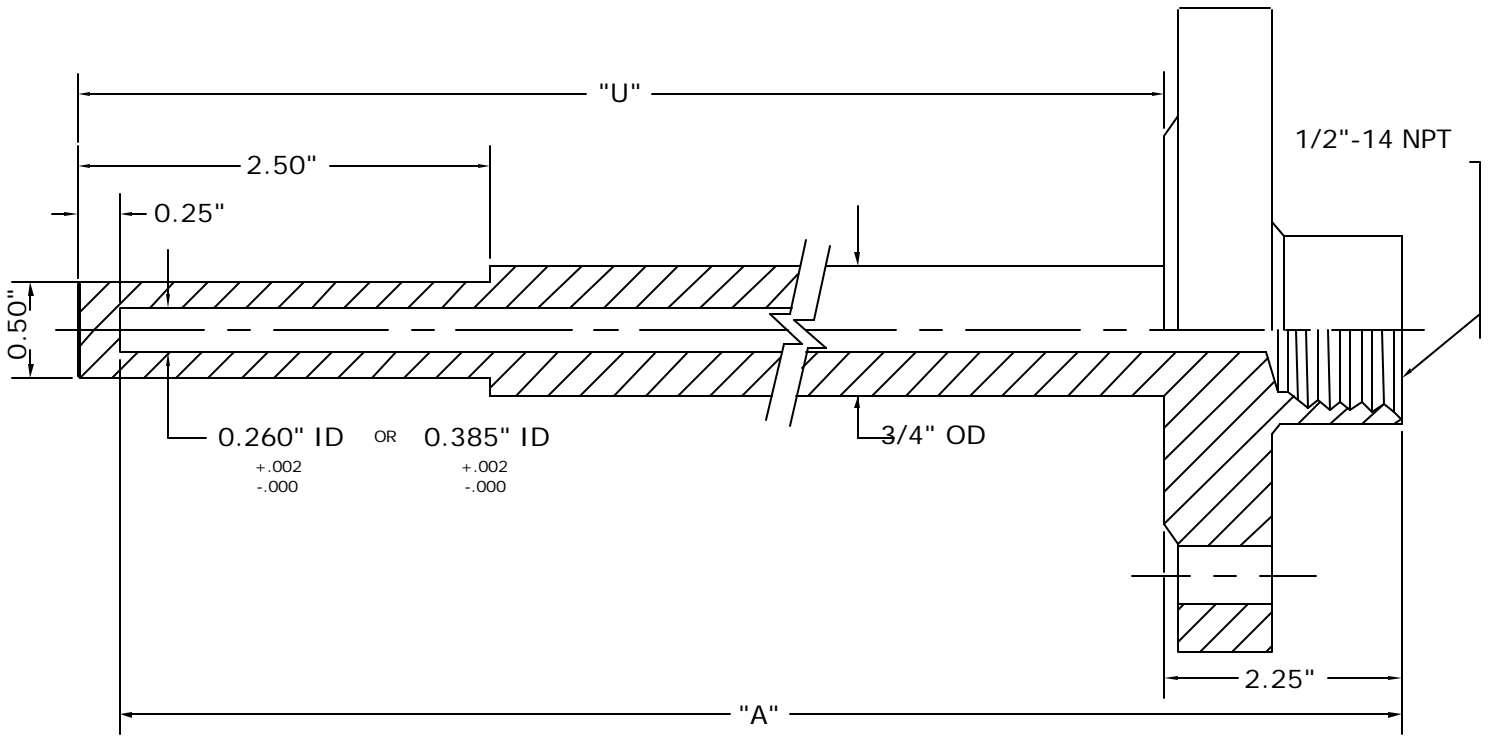
| 3. PROCESS THREAD | | |
|-------------------|---------------|---------------|
| CODE | "P" DIMENSION | "B" DIMENSION |
| 75 | 0.750" | 0.750" |
| 100 | 1.0" | 0.875" |

| 4. LAGGING EXTENSION | |
|----------------------|-------------------|
| CODE | DESCRIPTION |
| O | NONE |
| L | LAGGING EXTENSION |

| 5. LENGTH | | | |
|-----------|-------------------------------|---------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION | "T" DIMENSION |
| 04 | 4 | 2.5" | 0 |
| 06 | 6 | 4.5" | 0 |
| | 6 | 2.5" | 2 |
| 09 | 9 | 7.5" | 0 |
| | 9 | 4.5" | 3 |
| 12 | 12 | 10.5" | 0 |
| | 12 | 7.5" | 3 |
| 15 | 15 | 13.5" | 0 |
| | 15 | 10.5" | 3 |
| 18 | 18 | 16.5" | 0 |
| | 18 | 13.5" | 3 |
| 24 | 24 | 22.5" | 0 |
| | 24 | 19.5" | 3 |
| XX | SPECIFY SPECIAL "U" DIMENSION | | |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

FLANGED STEPPED THERMOWELLS



FLANGED STEPPED THERMOWELLS

1 2 - 3 - 4 - 5 - 6 - 7

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|------------------|
| CODE | THERMOWELL STYLE |
| FS | FLANGED, STEPPED |

| 3. FLANGE SIZE | |
|----------------|-------------|
| CODE | DESCRIPTION |
| 100 | 1.0" |
| 150 | 1.50" |
| 200 | 2.0" |

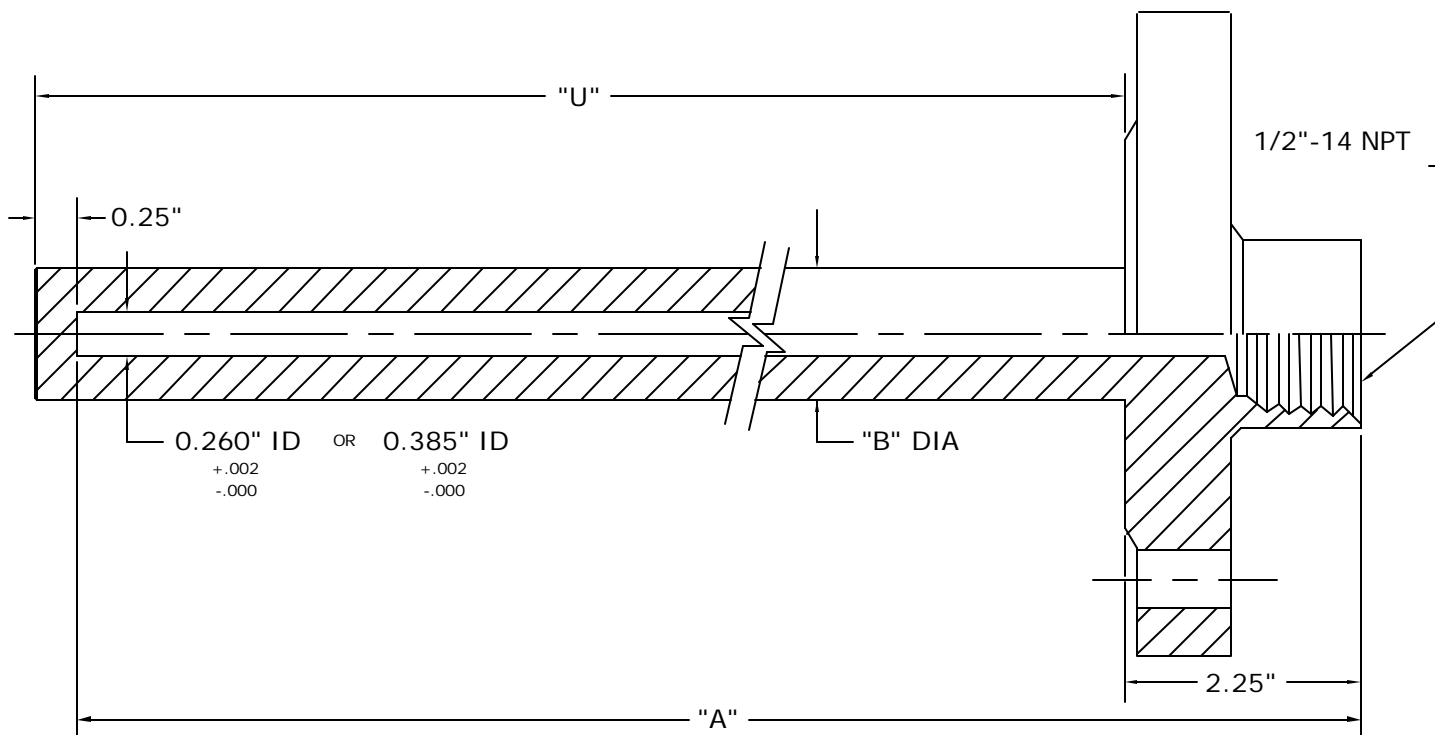
| 4. FLANGE RATING | |
|------------------|-------------|
| CODE | DESCRIPTION |
| 1 | 150 lbs |
| 2 | 300 lbs |
| 3 | 600 lbs |

| 5. LENGTH | | |
|-----------|-------------------------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION |
| 06 | 6 | 4.0" |
| 09 | 9 | 7.0" |
| 12 | 12 | 10.0" |
| 15 | 15 | 13.0" |
| 18 | 18 | 16.0" |
| 24 | 24 | 22.0" |
| XX | SPECIFY SPECIAL "U" DIMENSION | |

| 7. FLANGE MATERIAL | |
|--------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

FLANGED STRAIGHT THERMOWELLS



FLANGED STRAIGHT THERMOWELLS



| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|-------------------|
| CODE | THERMOWELL STYLE |
| FST | FLANGED, STRAIGHT |

| 3. FLANGE SIZE | |
|----------------|-------------|
| CODE | DESCRIPTION |
| 100 | 1.0" |
| 150 | 1.50" |
| 200 | 2.0" |

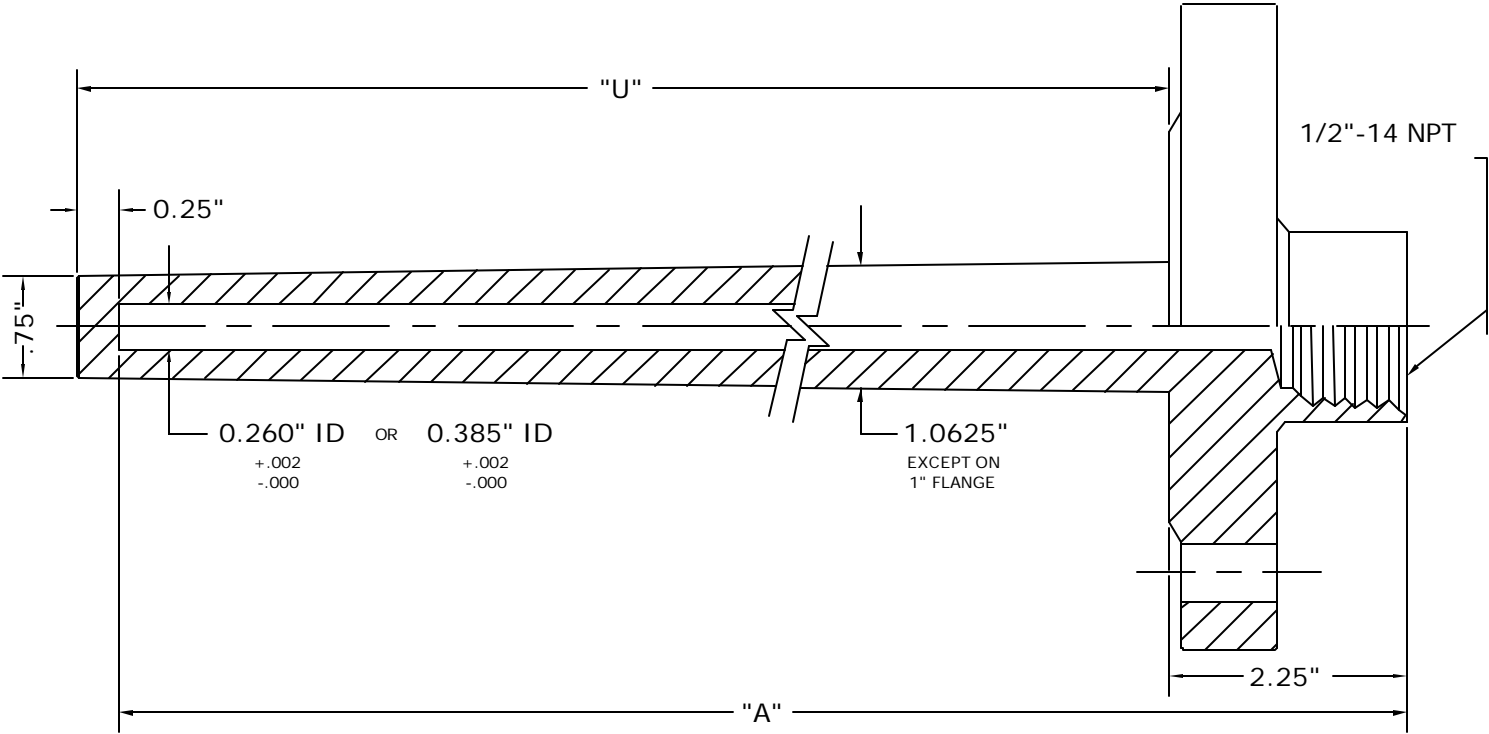
| 4. FLANGE RATING | |
|------------------|-------------|
| CODE | DESCRIPTION |
| 1 | 150 lbs |
| 2 | 300 lbs |
| 3 | 600 lbs |

| 5. LENGTH | | |
|-----------|-------------------------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION |
| 06 | 6 | 4.0" |
| 09 | 9 | 7.0" |
| 12 | 12 | 10.0" |
| 15 | 15 | 13.0" |
| 18 | 18 | 16.0" |
| 24 | 24 | 22.0" |
| XX | SPECIFY SPECIAL "U" DIMENSION | |

| 7. FLANGE MATERIAL | |
|--------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

FLANGED TAPERED THERMOWELLS



FLANGED TAPERED THERMOWELLS



| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|------------------|
| CODE | THERMOWELL STYLE |
| FT | FLANGED, TAPERED |

| 3. FLANGE SIZE | |
|----------------|-------------|
| CODE | DESCRIPTION |
| 100 | 1.0" |
| 150 | 1.50" |
| 200 | 2.0" |

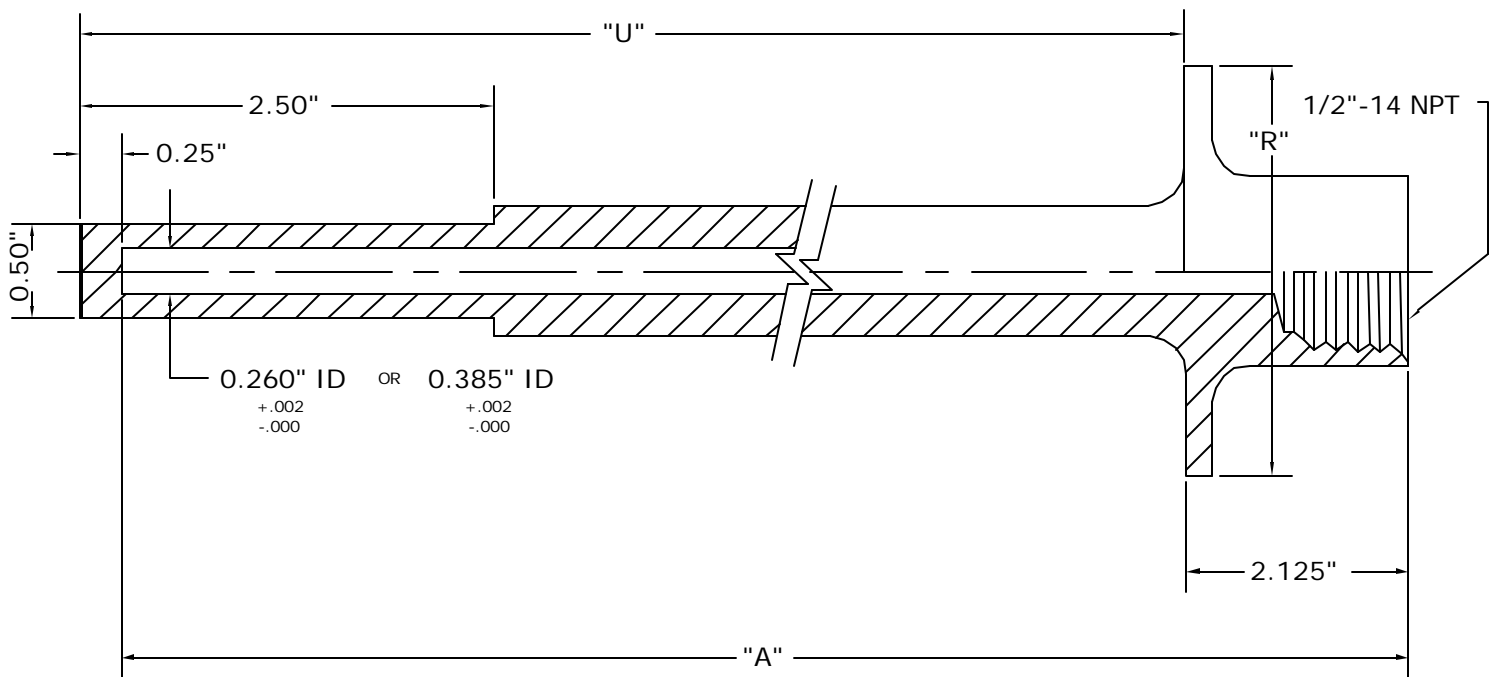
| 4. FLANGE RATING | |
|------------------|-------------|
| CODE | DESCRIPTION |
| 1 | 150 lbs |
| 2 | 300 lbs |
| 3 | 600 lbs |

| 5. LENGTH | | |
|-----------|-------------------------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION |
| 06 | 6 | 4.0" |
| 09 | 9 | 7.0" |
| 12 | 12 | 10.0" |
| 15 | 15 | 13.0" |
| 18 | 18 | 16.0" |
| 24 | 24 | 22.0" |
| XX | SPECIFY SPECIAL "U" DIMENSION | |

| 7. FLANGE MATERIAL | |
|--------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

| 6. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

VANSTONE STEPPED THERMOWELLS



VANSTONE STEPPED THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|-------------------|
| CODE | THERMOWELL STYLE |
| VS | VANSTONE, STEPPED |

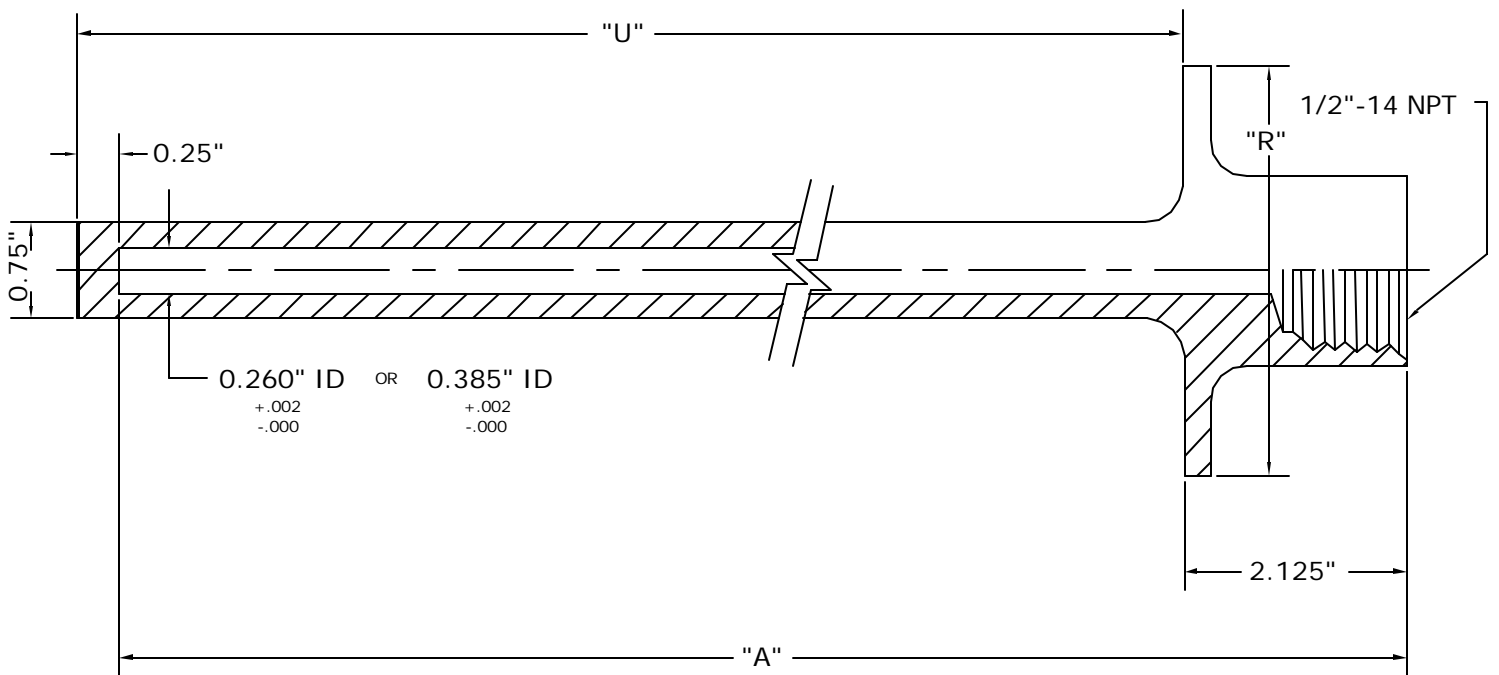
| 3. FLANGE SIZE | | |
|----------------|--------------|---------|
| CODE | DESCRIPTION | "R" DIA |
| 100 | 1" 100 lbs | 2.0" |
| 150 | 1.5" 150 lbs | 2.875" |

| 4. LENGTH | | |
|-----------|-------------------------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION |
| 06 | 6 | 4.0" |
| 09 | 9 | 7.0" |
| 12 | 12 | 10.0" |
| 15 | 15 | 13.0" |
| 18 | 18 | 16.0" |
| 24 | 24 | 22.0" |
| XX | SPECIFY SPECIAL "U" DIMENSION | |

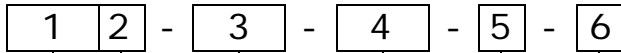
| 6. FLANGE MATERIAL | |
|--------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

| 5. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

VANSTONE STRAIGHT THERMOWELLS



VANSTONE STRAIGHT THERMOWELLS



1. BORE SIZE

| CODE | BORE SIZE |
|------|-----------|
| 260 | 0.260" ID |
| 385 | 0.385" ID |

2. THERMOWELL STYLES

| CODE | THERMOWELL STYLE |
|------|--------------------|
| VST | VANSTONE, STRAIGHT |

3. FLANGE SIZE

| CODE | DESCRIPTION | "R" DIA |
|------|--------------|---------|
| 100 | 1" 100 lbs | 2.0" |
| 150 | 1.5" 150 lbs | 2.875" |

4. LENGTH

| CODE | "A" DIMENSION | "U" DIMENSION |
|------|-------------------------------|---------------|
| 06 | 6 | 4.0" |
| 09 | 9 | 7.0" |
| 12 | 12 | 10.0" |
| 15 | 15 | 13.0" |
| 18 | 18 | 16.0" |
| 24 | 24 | 22.0" |
| XX | SPECIFY SPECIAL "U" DIMENSION | |

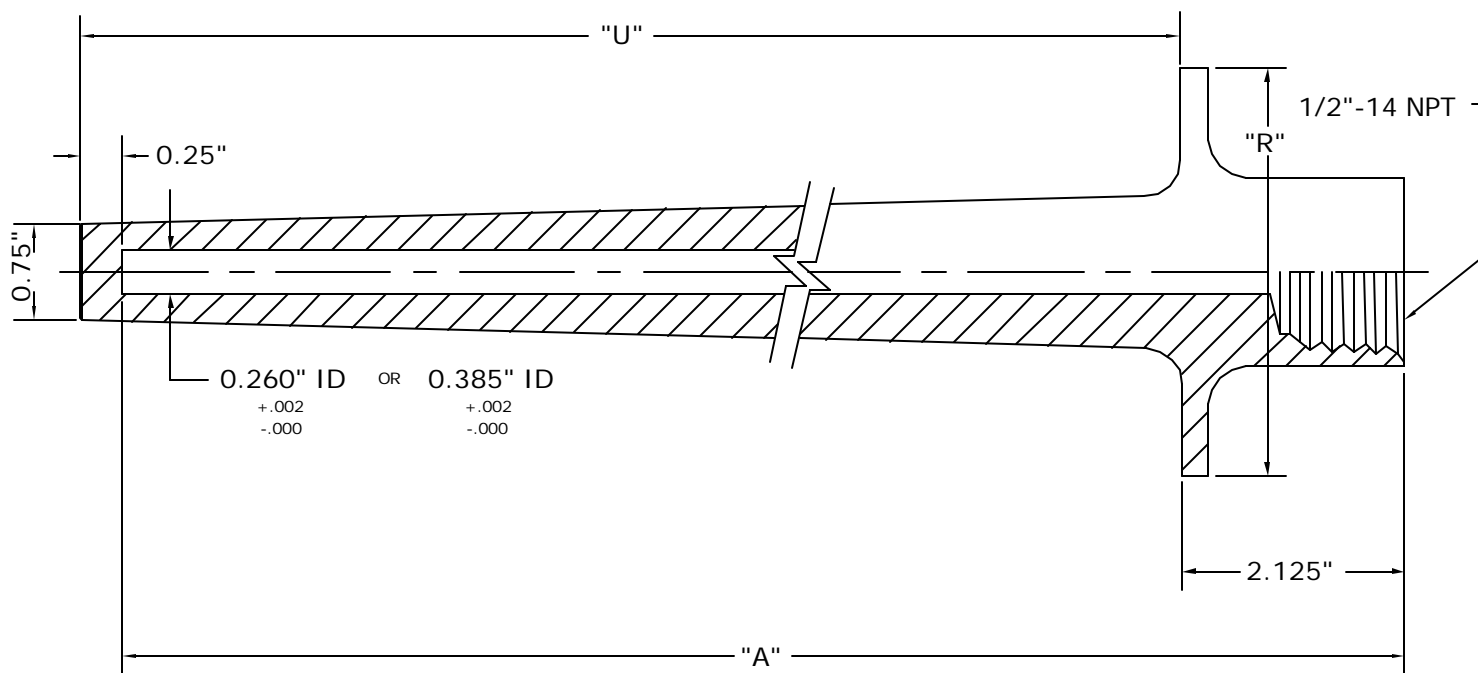
6. FLANGE MATERIAL

| CODE | MATERIAL |
|------|-----------------------|
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

5. STEM MATERIAL

| CODE | MATERIAL |
|------|-----------------------|
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

VANSTONE TAPERED THERMOWELLS



VANSTONE TAPERED THERMOWELLS

1 2 - 3 - 4 - 5 - 6

| 1. BORE SIZE | |
|--------------|-----------|
| CODE | BORE SIZE |
| 260 | 0.260" ID |
| 385 | 0.385" ID |

| 2. THERMOWELL STYLES | |
|----------------------|-------------------|
| CODE | THERMOWELL STYLE |
| VT | VANSTONE, TAPERED |

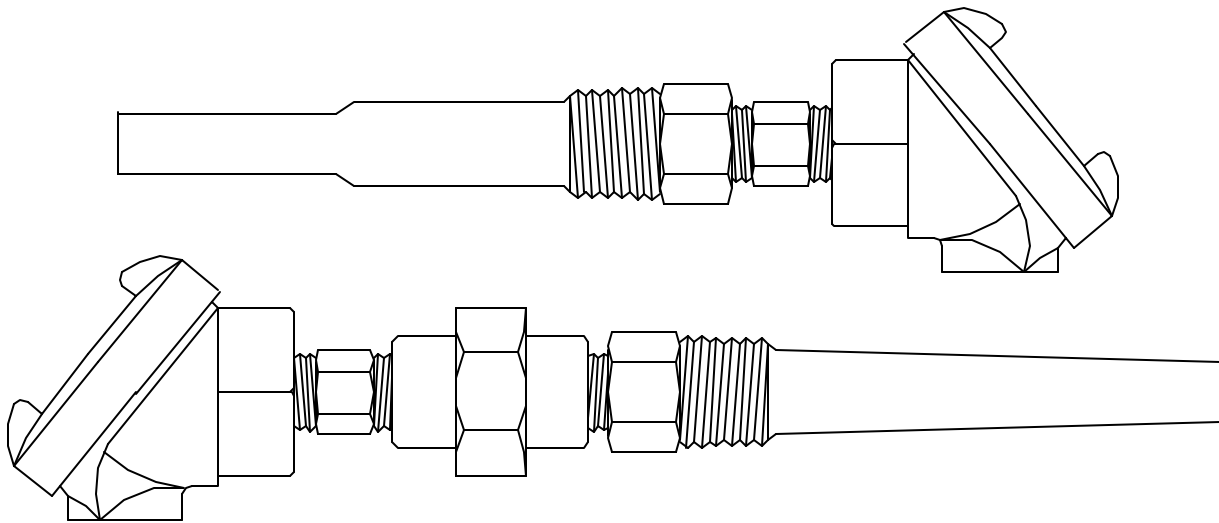
| 3. FLANGE SIZE | | |
|----------------|--------------|---------|
| CODE | DESCRIPTION | "R" DIA |
| 100 | 1" 100 lbs | 2.0" |
| 150 | 1.5" 150 lbs | 2.875" |

| 4. LENGTH | | |
|-----------|-------------------------------|---------------|
| CODE | "A" DIMENSION | "U" DIMENSION |
| 06 | 6 | 4.0" |
| 09 | 9 | 7.0" |
| 12 | 12 | 10.0" |
| 15 | 15 | 13.0" |
| 18 | 18 | 16.0" |
| 24 | 24 | 22.0" |
| XX | SPECIFY SPECIAL "U" DIMENSION | |

| 6. FLANGE MATERIAL | |
|--------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

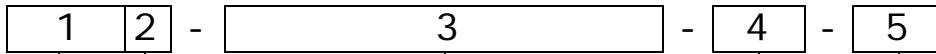
| 5. STEM MATERIAL | |
|------------------|-----------------------|
| CODE | MATERIAL |
| 1 | BRASS (ASTM B-16) |
| 2 | CARBON STEEL (C-1018) |
| 3 | 304 SS |
| 4 | 316 SS |
| 5 | MONEL |
| 6 | OTHER (SPECIFY) |

THERMOCOUPLE ASSEMBLIES WITH PRESSURE TIGHT WELLS



Thermocouples with thermowell's are designed for applications where the thermocouple itself is not able to stand up to the media being measured. They are also designed to be used in applications where the media being measured is under a lot of pressure or where the application does not permit the removal of the thermocouple without draining the contents of such things as tanks or vessels.

THERMOCOUPLE ASSEMBLIES WITH PRESSURE TIGHT WELLS



| 1A. CALIBRATION, DIAMETER, MATERIAL | |
|-------------------------------------|----------------------|
| CODE | DESCRIPTION |
| J48 | TYPE J, 1/4" OD |
| K48 | TYPE K, 1/4" OD |
| T48 | TYPE T, 1/4" OD |
| JJ48 | DUAL TYPE J, 1/4" OD |
| KK48 | DUAL TYPE K, 1/4" OD |
| TT48 | DUAL TYPE T, 1/4" OD |
| J68 | TYPE J, 3/8" OD |
| K68 | TYPE K, 3/8" OD |
| T68 | TYPE T, 3/8" OD |
| JJ68 | DUAL TYPE J, 3/8" OD |
| KK68 | DUAL TYPE K, 3/8" OD |
| TT68 | DUAL TYPE T, 3/8" OD |

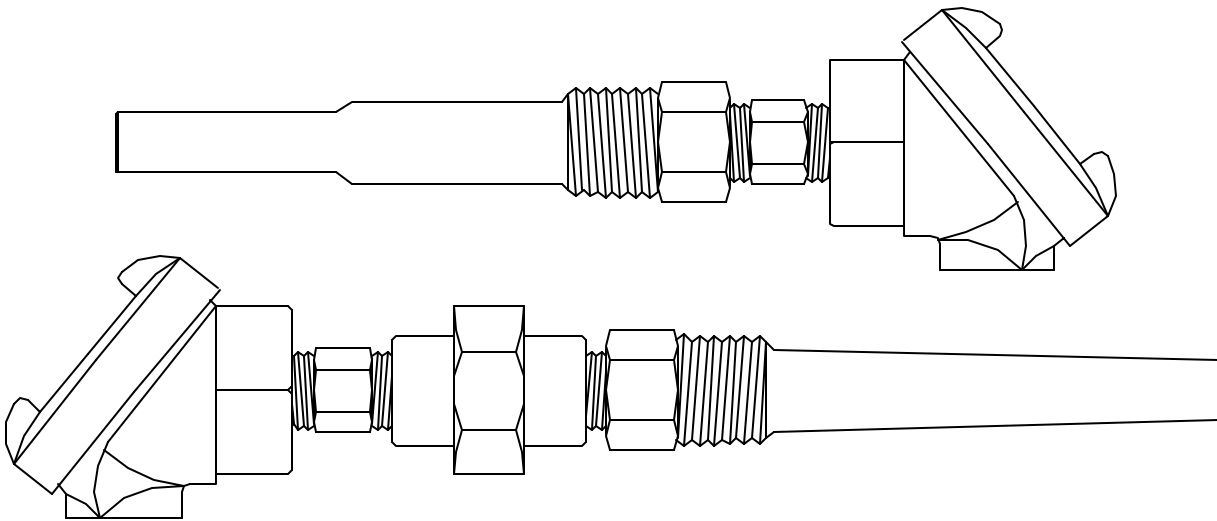
| 2. THERMOCOUPLE JUNCTION |
|--------------------------|
| G - GROUNDED |
| U - UNGROUNDED |

| 3. PROTECTION THERMOWELL NUMBER |
|--|
| SELECT PART NUMBER FROM PAGES F1 - F13 |

| 5. OPTIONS |
|---------------------------------------|
| CAST IRON HEAD STANDARD |
| B - INTERNAL GROUND SCREW |
| BC - BRASS CAP AND CHAIN |
| D - GREY DELRIN SCREW COVER HEAD |
| HS - 316L SS SCREW COVER HEAD |
| K - CAST ALUMINUM SCREW COVER HEAD |
| P - STEEL UNION AND NIPPLES |
| PP - WHITE POLYPROPYLENE HEAD |
| R - SPRING LOADED T/C OR RTD |
| SC - SS CAP AND CHAIN |
| SS - SS NIPPLE |
| TR - HEAD MOUNTED TRANSMITTER |
| V - SS UNION AND NIPPLES |
| W - WHITE EPOXY COATING ON HEAD |
| X - CSA APPROVED EXPLOSION PROOF HEAD |

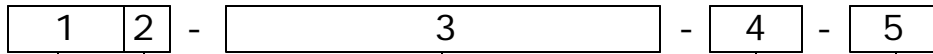
| 4. "E" EXTENSION LENGTH |
|--|
| 1" STANDARD, 4" MINIMUM WITH UNION AND NIPPLES |
| 01 - 1" |
| 04 - 4" |
| 06 - 6" |
| 08 - 8" |
| 10 - 10" |
| XX - SPECIFY OTHER LENGTH IN INCHES |

RTD ASSEMBLIES WITH PRESSURE TIGHT WELLS



RTD's with thermowell's are designed for applications where the thermocouple itself is not able to stand up to the media being measured. They are also designed to be used in applications where the media being measured is under a lot of pressure or where the application does not permit the removal of the rtd without draining the contents of such things as tanks or vessels.

RTD ASSEMBLIES WITH PRESSURE TIGHT WELLS



| 1A. CALIBRATION, DIAMETER, MATERIAL | |
|-------------------------------------|----------------------|
| CODE | DESCRIPTION |
| RTD48 | TYPE J, 1/4" OD |
| RTD/RTD48 | TYPE K, 1/4" OD |
| RTD68 | TYPE T, 1/4" OD |
| RTD/RTD68 | DUAL TYPE J, 1/4" OD |

| 2. THERMOCOUPLE JUNCTION |
|--------------------------|
| G - GROUNDED |
| U - UNGROUNDED |

| 3. PROTECTION THERMOWELL NUMBER |
|--|
| SELECT PART NUMBER FROM PAGES F1 - F13 |

| 5. OPTIONS |
|---------------------------------------|
| CAST IRON HEAD STANDARD |
| B - INTERNAL GROUND SCREW |
| BC - BRASS CAP AND CHAIN |
| D - GREY DELRIN SCREW COVER HEAD |
| HS - 316L SS SCREW COVER HEAD |
| K - CAST ALUMINUM SCREW COVER HEAD |
| P - STEEL UNION AND NIPPLES |
| PP - WHITE POLYPROPYLENE HEAD |
| R - SPRING LOADED T/C OR RTD |
| SC - SS CAP AND CHAIN |
| SS - SS NIPPLE |
| TR - HEAD MOUNTED TRANSMITTER |
| V - SS UNION AND NIPPLES |
| W - WHITE EPOXY COATING ON HEAD |
| X - CSA APPROVED EXPLOSION PROOF HEAD |

| 4. "E" EXTENSION LENGTH |
|--|
| 1" STANDARD, 4" MINIMUM WITH UNION AND NIPPLES |
| 01 - 1" |
| 04 - 4" |
| 06 - 6 " |
| 08 - 8" |
| 10 - 10" |
| XX - SPECIFY OTHER LENGTH IN INCHES |