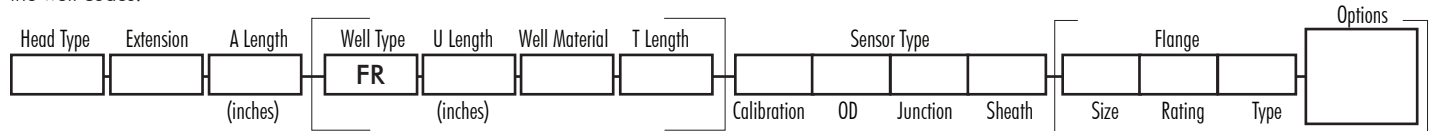


# Step Down Flanged Well Assemblies

**To order:** To specify a complete assembly, indicate the code letter or value for each requirement. To order a well only, fill in only the boxes in brackets. Add a nipple or nipple-union-nipple to a well by including the extension code and "A" length in addition to the well codes.



## HEAD TYPE

|                            |                                     |
|----------------------------|-------------------------------------|
| 0 No Head                  | FTP Flip Top Poly (white)           |
| CA Cast Aluminum           | EPA Explosion Proof Aluminum        |
| CI Cast Iron               | EPAA Explosion Proof Aluminum Atex  |
| CSS Cast Stainless Steel   | EPS Explosion Proof Stainless Steel |
| PPS Polypropylene Sanitary | EHA Explosion Proof Aluminum        |
| FTA Flip Top Aluminum      | EHI Explosion Proof Iron            |

## EXTENSION

|  |
|--|
| N Nipple Galvanized                          |
| NUN Nipple/Union/Nipple Galvanized           |
| NS Nipple Stainless Steel                    |
| NUNS Nipple/Union/Nipple Stainless Steel     |
| HUNS Hex Nipple/Union/Nipple Stainless Steel |
| PNUN Pressure Seal in Union Galvanized       |
| PNUNS Pressure Seal in Union Stainless Steel |

See page A-7 for additional information.

## THERMOWELL - TYPE FR

Well Materials – For other materials, see page B-6.

|                     |                |
|---------------------|----------------|
| A Alloy 600         | M Monel® 400   |
| AA Alloy 20         | N Nickel       |
| B Hastelloy® B      | P 304SS        |
| C Hastelloy® C      | Q 310SS        |
| D 321SS             | R 316SS        |
| F 347SS             | S Carbon Steel |
| H 446SS             | T Teflon®      |
| I Alloy 800         | V Alloy 825    |
| LP Low Carbon 304SS | W Alloy 601    |
| LR Low Carbon 316SS | Y Brass        |

| Flange Size | Flange Rating | Flange Type         |
|-------------|---------------|---------------------|
| 1"          | 150           | RF Raised Face      |
| 1 1/2"      | 200           | FF Flat Face        |
| 2"          | 300           | RTJ Ring Type Joint |
| 3"          | 400           |                     |
| 4"          | 600           |                     |
|             | 900           |                     |
|             | 1500          |                     |

## SENSOR TYPE

### Sensor Calibration

|                             |
|-----------------------------|
| J Iron Constantan®          |
| K Chromel® Alumel®          |
| T Copper Constantan®        |
| E Chromel® Constantan®      |
| N Nicosil® Nisil®           |
| PO Low Temp RTD to 500° F   |
| PH High Temp RTD to 900° F  |
| PM Heavy Duty RTD to 900° F |

*Standard RTD is a three-wire 100 ohm Platinum / .00385 Alpha. For higher temperature ranges - consult factory. For special limits on thermocouples, repeat calibration code, i.e. JJ.*

### Sensor OD

|           |
|-----------|
| 18 1/8"   |
| 316 3/16" |
| 14 1/4"   |
| 516 5/16" |
| 38 3/8"   |

### Sensor Junction

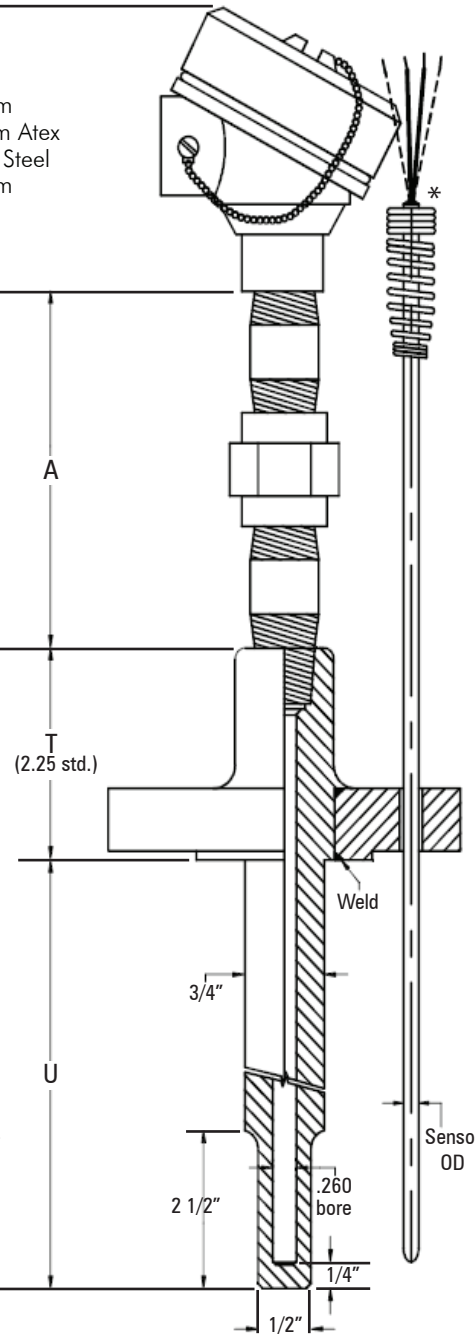
|                    |
|--------------------|
| G Grounded         |
| U Ungrounded       |
| E Exposed          |
| DG Dual Grounded   |
| DU Dual Ungrounded |
| DE Dual Exposed    |
| S Single RTD       |
| D Dual RTD         |

### Sensor Sheath Materials

|             |
|-------------|
| P 304SS     |
| R 316SS     |
| Q 310SS     |
| A Alloy 600 |

*Standard Sheath Material is 316SS.*

\* Epoxy Seal - Max. Temp. 300°F



## OPTIONS

### Sensor Options

|  |
|--|
| GA Class A                                   |
| FW Four Wire RTD                             |
| HV High Vibration RTD (PM only)              |
| CR Cryogenic RTD (PM only)                   |
| CT Compensated Terminals (EHA/EHI head only) |

### Thermowell Options

|  |
|--|
| FP Full Penetration Weld               |
| HTE Hydrostatic Pressure Test External |
| HTI Hydrostatic Pressure Test Internal |
| NC NACE Certification for Well         |
| OC Oxygen Cleaned                      |
| ST Stellite® Coating                   |
| TF Teflon® Coating                     |

|                          |
|--------------------------|
| TC Tungsten Carbide      |
| VC Velocity Calculations |
| RB .130 Bore             |
| WB .385 Bore             |
| BC Brass Plug and Chain  |
| SC SS Plug and Chain     |

*If other than .385 Bore is required, specify bore size.*

### Transmitter/Indicator Options

|                            |
|----------------------------|
| LCP Programmable, RTD, FM  |
| PT Programmable FM         |
| HC Hart® Compatible        |
| Provide Range and Temp F/C |

*See pages A-33 – A-34 for additional transmitter information.*

|  |
|--|
| LPI Loop Temperature Indicator                           |
| See pages A-33 – A-34 for transmitter and other options. |
| BPI Battery Powered Indicator                            |