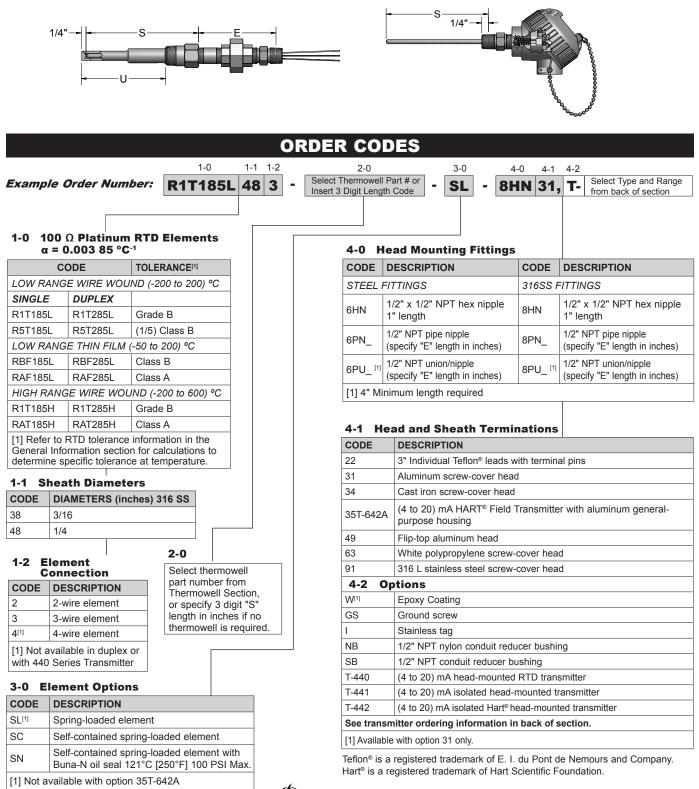
Sensors with Connection Heads

Configuration Code GP03 Spring-Loaded RTD/Thermowell Assemblies with General-Purpose Connection Heads

Spring-Loaded RTD/Thermowell Assemblies with General-Purpose Connection Heads are designed for use with various thermowell types. Complete assemblies can be ordered by selecting the RTD assembly below, the thermowell from the thermowell section of this catalog, and a temperature transmitter from the back of this section. Assemblies without a thermowell can be ordered by selecting the sensor assembly from this page and inserting the "S" length in table 2-0. These sensors are supplied with a 316 stainless steel sheath and are available in various tolerances and temperature ranges as noted in the tables below. **Note:** The "S" dimension will measure 1/4" longer than specified when the spring is in the relaxed position. The "S" dimension is calculated when the sensor is compressed or in the installed position. This design allows 1/4" spring compression to ensure positive contact with the bottom of the thermowell.



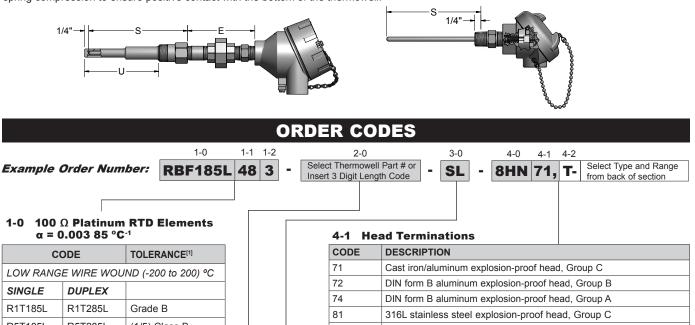
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Sensors with Connection Heads

Configuration Code GP03 Spring-Loaded RTD/Thermowell Assemblies with Explosion-Proof Connection Heads

Spring-Loaded RTD/Thermowell Assemblies with Explosion-Proof Connection Heads are designed for use with various thermowell types. Complete assemblies can be ordered by selecting the RTD assembly below, the thermowell from the thermowell section of this catalog, and a temperature transmitter from the back of this section. Assemblies without a thermowell can be ordered by selecting the sensor assembly from this page and inserting the "S" length in table 2-0. These sensors are supplied with a 316 stainless steel sheath and are available in various tolerances and temperature ranges as noted in the tables below. **Note:** The "S" dimension will measure 1/4" longer than specified when the spring is in the relaxed position. The "S" dimension is calculated when the sensor is compressed or in the installed position. This design allows 1/4" spring compression to ensure positive contact with the bottom of the thermowell.



	DDE	TOLERANCE
LOW RANGE WIRE WOUND (-200 to 200)		ND (-200 to 200) °C
SINGLE	DUPLEX	
R1T185L	R1T285L	Grade B
R5T185L	R5T285L	(1/5) Class B
LOW RANGE THIN FILM (-50 to 200) °C		
RBF185L	RBF285L	Class B
RAF185L	RAF285L	Class A
HIGH RANGE WIRE WOUND (-200 to 600) °C		
R1T185H	R1T285H	Grade B
RAT185H	RAT285H	Class A

[1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

1-1 Sheath Diameters

CODE	DIAMETERS (inches) 316 SS
38	3/16
48	1/4

1-2 Element Connection

CODE	DESCRIPTION
2	2-wire element
3	3-wire element
4 ^[1]	4-wire element
[1] Not available in duplex or with 440 Series Transmitter	

2-0

Select thermowell part number from Thermowell Section, or specify 3 digit "S" length in inches if no thermowell is required.

4-1 Hea	ad Terminations	
CODE	DESCRIPTION	
71	Cast iron/aluminum explosion-proof head	l, Group C
72	DIN form B aluminum explosion-proof he	ad, Group B
74	DIN form B aluminum explosion-proof he	ad, Group A
81	316L stainless steel explosion-proof her	ad, Group C
82	DIN form B 316 stainless steel explosion	-proof head, Group B
4-2 Options		
SB	1/2" NPT conduit reducer bushing	
	Stainless tag	
T-440 ^[1]	(4 to 20) mA head-mounted RTD transm	itter
T-441 ^[2]	(4 to 20) mA isolated head-mounted tran	smitter
T-442 ^[2]	(4 to 20) mA isolated Hart® head-mounted	transmitter
See transmitter ordering information in back of section.		
[1] Available with option 71, 81 only. [2] Available with option 72 74 82 only.		

[2] Available with option 72,74,82 only

4-0 Head Mounting Fittings

CODE	DESCRIPTION	CODE	DESCRIPTION
STEEL	FITTINGS	316SS F	ITTINGS
6HN	1/2" x 1/2" NPT hex nipple 1" length	8HN	1/2" x 1/2" NPT hex nipple 1" length
6PN_	1/2" NPT pipe nipple (specify "E" length in inches)	8PN_	1/2" NPT pipe nipple (specify "E" length in inches)
6XU_ ^[1]	1/2" NPT union/nipple (specify "E" length in inches)	8XU_ ^[1]	1/2" NPT union/nipple (specify "E" length in inches)
[1] 3 1/2	" Minimum length required		

3-0 Element Options

CODE	DESCRIPTION
SL	Spring-loaded element
SC	Self-contained spring-loaded element
SN	Self-contained spring-loaded element with Buna-N oil seal 121°C [250°F] 100 PSI Max.

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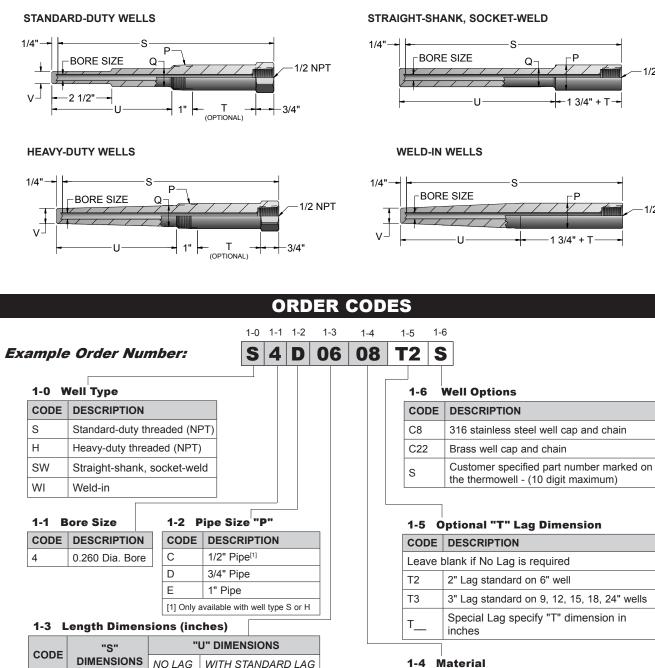
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Thermowells

1/2 NPT

1/2 NPT

The drilled thermowells listed below are those most commonly found in process applications. Other types and styles are listed later in this section. The thermowells listed below are available as separate component wells and can be ordered by the code numbers listed below. They can also be ordered as a part of a complete sensor assembly. Consult factory for wells with different mounting threads, lengths, and materials.



1-4 Material

CODE	DESCRIPTION	
8	316 stainless steel	
9	304 stainless steel	

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04

06

09

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15

18

24

2(1/2)

4(1/2)

7(1/2)

10(1/2)

13(1/2)

16(1/2)

22(1/2)

N/A

2(1/2)

4(1/2)

7(1/2)

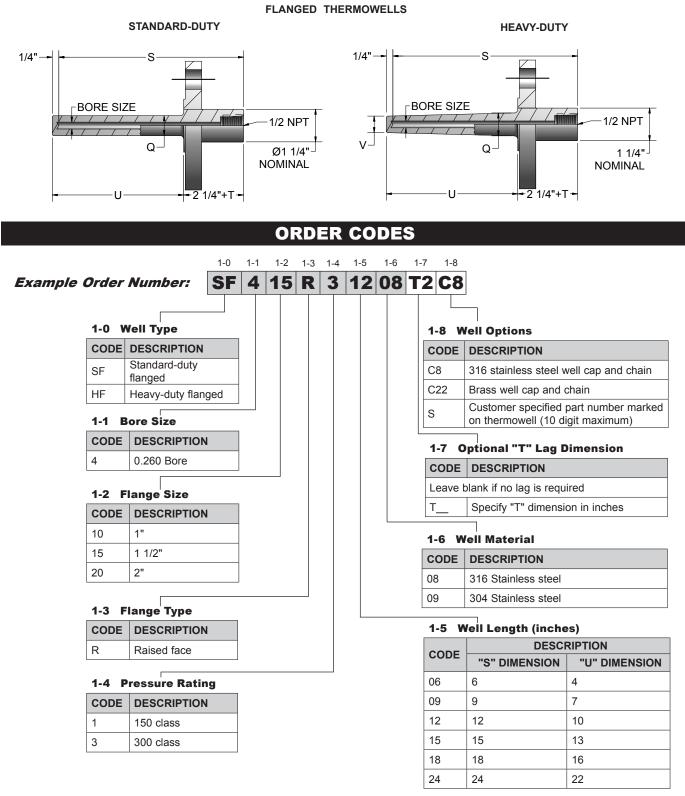
10(1/2)

13(1/2)

19(1/2)

THERMOWELLS

The flanged thermowells described on this page are those commonly found in most process applications. These wells are supplied as standard- or heavy-duty with raised-faced flanges. Other types and styles are listed later in this section. Consult factory for wells with different flange sides, lengths, and materials.



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