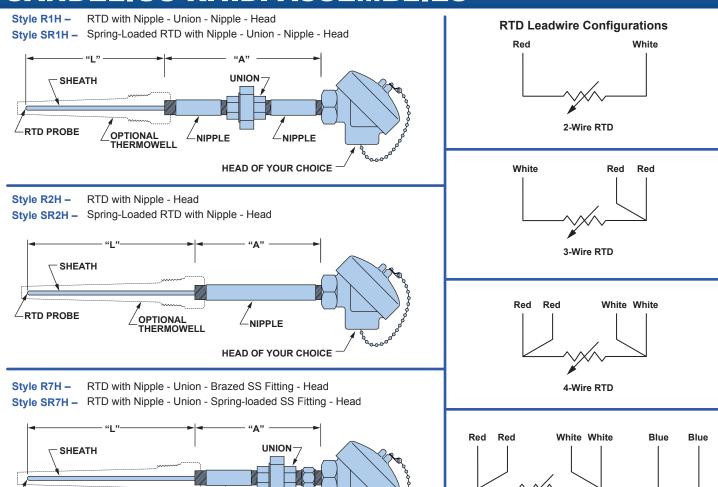
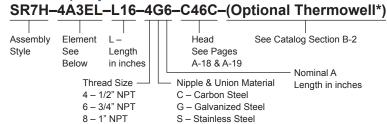
SANDELIUS R.T.D. ASSEMBLIES



To Order specify:

RTD PROBE



-NIPPLE

HEAD OF YOUR CHOICE

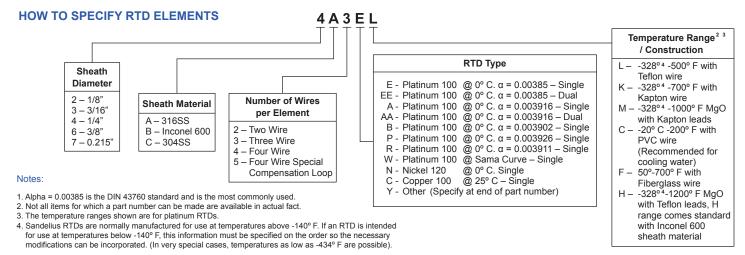
SS HEX

OPTIONAL

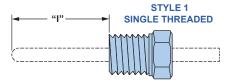
THERMOWELL

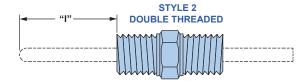
*To order an assembly complete with a thermowell simply insert the part number of the thermowell from Sandelius catalog Section B. When ordering an assembly complete with a thermowell, the "L" length may be shown as "00" as we will size the element to fit the thermowell.

Special 4-Wire with Compensation Loop



FIXED FITTINGS - ARE BRAZED OR WELDED TO THE SHEATH

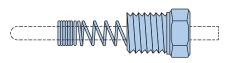




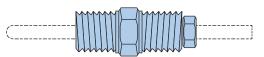
ORDER SYMBOL		TUDEAD SIZE MATER	MATERIAL	AVAILABLE TO FIT THESE SHEATH O.D. SIZES
STYLE 1	STYLE 2	THREAD SIZE	WAIERIAL	AVAILABLE TO FIT THESE SHEATH O.D. SIZES
F11	F21	1/8" NPT	304SS	0.063, 0.125, 0.188 & 0.250
F12	F22	1/4" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313 & 0.375
F14	F24	1/2" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313, 0.375 & 0.500
F16	F26	3/4" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313, 0.375 & 0.500
F18	F28	1" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313, 0.375 & 0.500

SPRING-LOADED FITTINGS

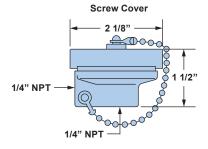
STYLE 1 - SINGLE THREADED

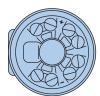


STYLE 2 – DOUBLE THREADED



ORDER SYMBOL		THREAD	MATERIAL	ODDING TVDE	AVAILABLE QUEATU QIZEQ
STYLE 1	STYLE 2	NPT SIZE	MATERIAL	SPRING TYPE	AVAILABLE SHEATH SIZES
SF14	SF24	1/2" NPT	304SS	Adjustable	0.125, 0.188, 0.250, 0.312 & 0.375
SB14	-	1/2" NPT	BRASS	Adjustable	0.125, 0.188, 0.250, 0.312 & 0.375
SPF14	SPF24	1/2" NPT	304SS	Adjustable with Liquid-tight O-Ring	0.125, 0.188 & 0.250

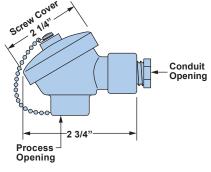




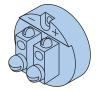
Miniature Weatherproof Thermoset Plastic Head

1/4" NPT x 1/4" NPT with 4 Integral Terminals

Part Number	Ambient Temperature Rating
N22	350° F
W22	800° F





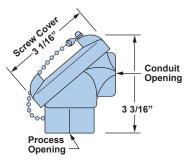




Ceramic Terminal Blocks Fit Miniature Head Type: M

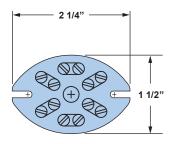
Part Number	Description
CP122	2 - Terminals
CP124	4 - Terminals

TERMINAL HEADS & CONNECTOR BLOCKS



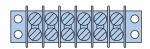
Standard Weatherproof Heads (Use "115F Series" Ceramic Terminal Blocks) Max. number of terminals: 6+Ground.

Part Number ¹	Type	Description
P46*	Р	Polypropylene
PW46*	PW	White Polypropylene ² (FDA Compliant)
Q46*	Q	Aluminum
R46*	R	Cast Iron
T46*	Т	Cast Iron/Aluminum⁵ Explosion Proof⁴



115 Series Ceramic Terminal Blocks

Part Number ¹	Description	
CP115F	2 Terminals	



CP129 & CP130 Terminal Strips

CP129 (3/8" spacing) is standard in E & F type heads.

CP130 (7/16" spacing) available with compensated terminals is commonly used in junction boxes.

To Order Specify

CP130-12-K Type of Optional Compensated Terminals (Available on CP130 only) Number of Terminals (20 max.) Part Number



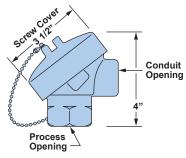
CP140 Tubular Clamp Type Terminal Strip

Commonly used in junction boxes. May be specified as an option for E & F type heads.

To Order Specify

CP140-10

Number of Terminals - Part Number



Large Weatherproof Heads (Use "100 Series" Ceramic Terminal Blocks) Max. number of terminals: 6+Ground.

Part Number ¹	Туре	Description
A46*	Α	Aluminum
C46*	С	Cast Iron

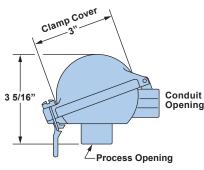




100 Series Ceramic Terminal Blocks

Fit Head Types: A, B, C, D

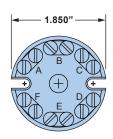
Part Number ¹	Description
CP102	2 Terminals
CP104	4 Terminals
CP106	6 Terminals



Weatherproof Aluminum Head

(Use "117 Series" Terminal Blocks) Max No. of Terminals: 6 + Ground

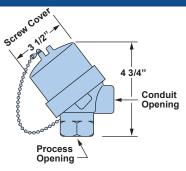
Part Number ¹	Туре	Description
H44*	Н	1/2" x 1/2" NPT
H46*	Н	1/2" x 3/4" NPT



117 Series Ceramic Terminal Blocks

Fit Head Type: H44

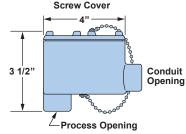
Part Number	Description
CP117	6 Terminals



Large Dome Cover Weatherproof Heads

(Use "100 Series" Ceramic Terminal Blocks) Max. number of terminals: 6+Ground.

Part Number ¹	Type	Description
B46*	В	Aluminum
D46*	D	Cast Iron



Large Explosion Proof³Heads

(Standard Terminal Block is CP129) Max No. of Terminals: 6 + Ground

Part Number ¹	Type	Description
E46*	Е	Aluminum
F46*	F	Cast Iron/Aluminum⁵

To Order Any Head On This Page

C 4 6 B

Connector block if required.

B-2 Terminals C-3 Terminals D - 4 Terminals F - 6 Terminals

Conduit Opening (See table A below)

Process Opening (See table A below)

Head Type

If a tapped internal ground screw is required insert a "G" in front of the part number.

Table A -Connection Sizes7 (All heads on this page)

NPT	ORDER CODES	Available on Head Types	
SIZE		PROCESS	CONDUIT
1/2	4	All	All
3/4	6	All except H+P	All
1	8	ABCDEF&R	E&F

- To order heads complete with terminal block add suffix to specify the number of terminals required B=2 terminals C=3 terminals, etc.
- 1. Unless otherwise noted, all head part numbers shown are for heads with 0.5" NPT process openings and 0.75" NPT conduit openings. See Table A for other available sizes.
- 2. PW series heads may be specially ordered with molded-in terminals. To order insert an "M" before the number of terminals required. Example: PW46MF would have 6 molded-in terminals.
- 3. Type E & F explosion proof heads are approved for Class 1, Groups B, C, & D; Class 2, Groups E, F & G; Class 3, All Groups.
- Type T explosion proof heads are approved for Class 1, Groups C & D; Class 2, Groups E, F & G; Class 3, All Groups. 5. Type F & T explosion proof heads have cast iron bodies with
- 6. Aluminum & Cast Iron heads are available with epoxy coating
- add an "X" after the type designation. Example: QX46D. 7. Some NPT sizes are achieved through the use of reducing bushings

TERMINAL HEADS & CONNECTOR BLOCKS

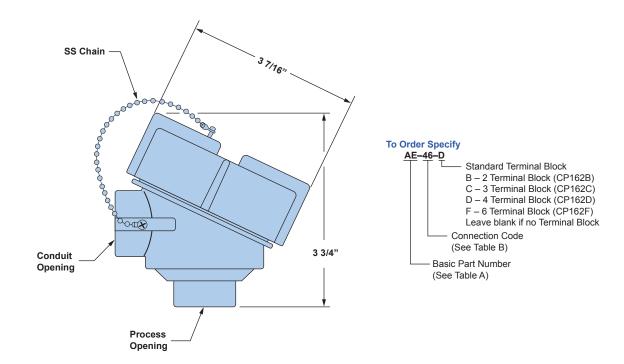


TABLE A - Basic Part Numbers				
Part Number	Material			
AE	Aluminum, Explosion Proof			
AEX	Epoxy Coated Aluminum, Explosion Proof			
SE	316SS, Explosion Proof			

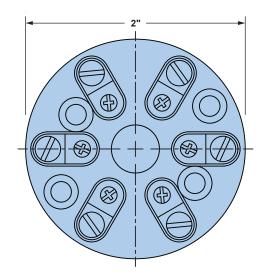
Table B – Connection Code				
Code	Process Opening	Conduit Opening		
44	1/2" NPT	1/2" NPT		
45	1/2" NPT	M20 x 1.5		
46	1/2" NPT	3/4" NPT		
66	3/4" NPT	3/4" NPT		

FM/CSA APPROVALS: CLASS 1, DIV. 1, GROUPS B, C & D and Dust Ignitionproof for Class II, Div. 1, Group E, F and G, Class III Type 4X and IP68



Ex II 2 G Ex d IIC Gb Ta, IP68

IECEx Approvals: Ex d IIC Gb Ex tb IIIC Db



Part Number	Number of Terminals	
CP162B	2	
CP162C	3	
CP162D	4	
CP162E	5	
CP162F	6	

A-19