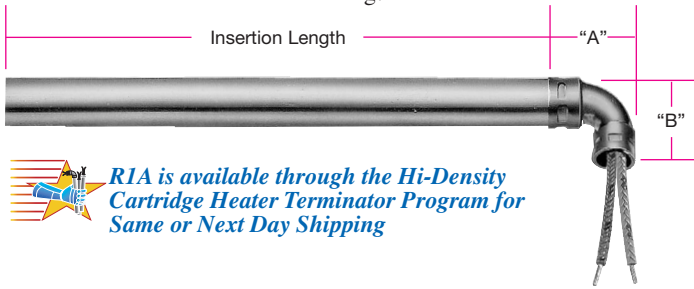


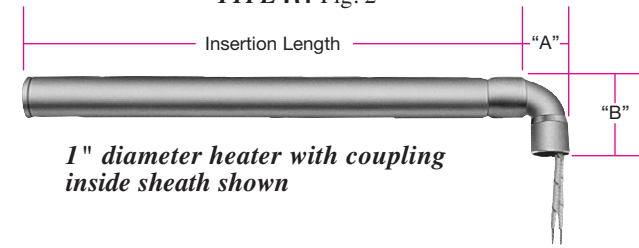
## Right-Angle Terminations

### Cartridge Heater — Plain Leads Right-Angle Terminations

TYPE R1 Fig. 1



TYPE R1 Fig. 2



Dimensions for Type R1

	Diameter		Fig.	"A" Dim.		"B" Dim.	
	in	mm		in	mm	in	mm
Hi-Density Cartridge Heater	1/4	6.35	1	3/4	19.05	3/4	19.05
	5/16	7.94	1	15/16	23.81	15/16	23.81
	3/8	9.53	1	15/16	23.81	15/16	23.81
	1/2	12.70	1	1-1/4	31.75	1-1/4	31.75
	5/8	15.88	1	1-1/4	31.75	1-1/4	31.75
	3/4	19.05	1	1-3/4	44.45	1-1/4	31.75
	1	25.40	2	1-1/8	28.58	1-3/8	34.93

#### Type R1 □ Right-Angle Leads with Copper Elbow

Available on HDC, HDM, and LDC cartridge heaters

This termination is used when space is limited. The copper elbow is mechanically fastened or silver brazed.

**R1A** Mechanically fastened

**R1B** Silver brazed

- Minimum 3/8" up to 1" unheated section at the lead end is required.
- Standard fiberglass lead wire temperature rating  
HDC and HDM: 842°F (450°C), LDC: 482°F (250°C)
- **Standard 10" (254 mm) leads. Specify longer leads.**

Dimensions for Type R1

	Diameter		Fig.	"A" Dim.		"B" Dim.	
	in	mm		in	mm	in	mm
Low Density Cartridge Heater	3/16	4.76	—	—	—	—	—
	1/4	6.35	1	3/4	19.05	3/4	19.05
	3/8	9.53	1	15/16	23.81	15/16	23.81
	1/2	12.70	1	1-1/4	31.75	1-1/4	31.75
	5/8	15.88	2	11/16	17.46	1-1/4	31.75
	3/4	19.05	2	3/4	19.05	1-1/4	31.75
	7/8	22.23	2	3/4	19.05	1-3/8	34.93
	15/16	23.81	2	1-1/8	28.58	1-3/8	34.93
	1	25.40	2	1-1/8	28.58	1-3/8	34.93
	1-1/4	31.75	2	1-1/8	28.58	1-3/8	34.93

#### Type R2 □ Right-Angle Leads

Available on HDC, HDM, and LDC cartridge heaters

This termination is used when space is limited. Not suitable for abrasive environments. The plain leads are internally connected and offer flexibility. Various lead end finishes are available as listed below:

**R2A** Cement potting, no lead end disc

- Cement potting temperature rating: 1000°F (538°C)
- Standard fiberglass lead wire temperature rating: 482°F (250°C)

**R2B** Cement potting, welded lead end disc

- Cement potting temperature rating: 1000°F (538°C)
- Standard fiberglass lead wire temperature rating: 482°F (250°C)

**R2C** Silicone rubber potting, welded lead end disc

- Silicone Rubber potting temperature rating: 392°F (200°C)
- Standard silicone rubber lead wire temperature rating: 392°F (200°C)

**R2D** High temperature epoxy potting, welded lead end disc

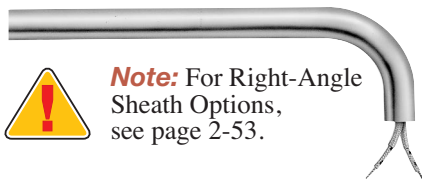
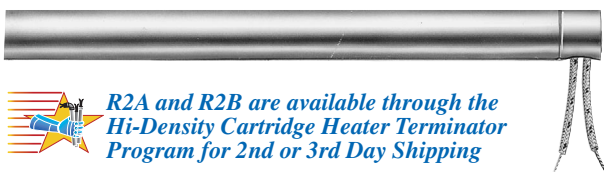
- High Temperature epoxy potting temperature rating: 450°F (232°C)
- Standard Teflon® lead wire temperature rating: 392°F (200°C)

**R2E** Low temperature epoxy potting, welded lead end disc

- Low Temperature epoxy potting temperature rating: 266°F (130°C)
- Standard Teflon® lead wire temperature rating: 392°F (200°C)

➤ Minimum 3/8" up to 1" unheated section at the lead end is required.

➤ **Standard 10" (254 mm) leads. Specify other lead lengths.**



**Note:** For Right-Angle Sheath Options, see page 2-53.

**CONTINUED**