



## Viton/Viton-HW/ Viton-E/Viton-TW

*Heat-shrinkable, chemical-resistant,  
high-temperature tubing*



### Applications

Raychem Viton premium heat-shrinkable tubing is fabricated from a crosslinked fluoroelastomer material designed for a wide range of applications. It is available in three configurations. Viton-E is the thickest wall version, Viton-HW has a thinner wall and Viton-TW has the thinnest wall for lighter weight applications. Offering fluid resistance, Viton tubing can be used in applications up to 200°C.

### Operating temperature range

Viton, Viton-HW, and Viton-TW: -40°C\* to 200°C  
Viton-E: -55°C to 200°C

### Features and benefits

- High resistance to impact and abrasion.
- Resistance to a wide variety of fuels, lubricants, acids, and solvents at elevated temperatures
- Flexibility at low temperatures without cracking.

### Installation

Minimum shrink temperature: 100°C  
Minimum full recovery temperature: 175°C

Available in:	Americas	Europe	Asia Pacific
	■	■	■

Specifications/approvals		
Series	Military	Raychem
Viton,	AMS-DTL 23053/13**	RT-1146
Viton-TW		RK-6014/2
Viton-E	Def. Stan. 59-97 Issue 3 Type 4A VG 95343 Part 5 Type E VDE 0341/Pt9005 BS 4G-198 Part 3 12A	RK-6014
Viton-HW	MIL-PRF-46846 Type III, Class I	RT-1145

\*Viton-TW is rated for -5°C when tested in accordance with RK-6014/2.

\*\*Formerly MIL-I-23053/13 and MIL-DTL-23053/13.

<b>Fax-on-demand</b>	<b>Fax ID</b>	<b>Description</b>
US only (800) 260-9099	2230, 2420	Data sheet
Outside US (650) 257-2301	223 1, 242 1	RT-1146, RT-1145

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### Product dimensions (mm/in)

Size	Inside diameter		Recovered wall thickness***		
	Minimum expanded as supplied	Maximum recovered after heating	After heating (nominal)		
			Viton-E	Viton-HW	Viton/Viton-TW
3.2 (1/8)	3.2 (0.125)	1.6 (0.062)	0.76 (0.030)	N/A	0.76 (0.030)
4.8 (3/16)	4.8 (0.188)	2.4 (0.093)	0.84 (0.033)	N/A	0.89 (0.035)
6.4 (1/4)	6.4 (0.250)	3.2 (0.125)	0.89 (0.035)	0.76 (0.030)	0.89 (0.035)
9.5 (3/8)	9.5 (0.375)	4.8 (0.187)	1.02 (0.040)	0.89 (0.035)	0.89 (0.035)
12.7 (1/2)	12.7 (0.500)	6.4 (0.250)	1.22 (0.048)	1.09 (0.043)	0.89 (0.035)
15.9 (5/8)	15.9 (0.625)	7.9 (0.312)	N/A	1.19 (0.047)	1.07 (0.042)
19 (3/4)	19.1 (0.750)	9.5 (0.375)	1.45 (0.057)	1.32 (0.057)	1.07 (0.042)
22 (7/8)	22.2 (0.875)	11.1 (0.437)	N/A	1.53 (0.060)	1.25 (0.049)
25.4 (1)	25.4 (1.000)	12.7 (0.500)	1.78 (0.070)	1.65 (0.065)	1.25 (0.049)
31.8 (1 1/4)	31.8 (1.250)	15.9 (0.625)	N/A	1.78 (0.070)	1.40 (0.055)
38 (1 1/2)	38.1 (1.500)	19.1 (0.750)	2.41 (0.095)	1.91 (0.075)	1.40 (0.055)
51 (2)	50.8 (2.000)	25.4 (1.000)	2.79 (0.110)	2.79 (0.110)	1.65 (0.065)

\*\*\*Wall thickness will be less if tubing recovery is restricted during shrinkage.

### Ordering information

Color	Standard	Black (-0)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.	
Standard packaging	On spools.	
Ordering description****	Specify product name, size and color (for example, Viton 1/4-0).	

\*\*\*\*Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.