

RAYCHEM INSTALITE MOLDED BOOTS

ADVANCED MATERIALS SCIENCE DRIVES 30% WEIGHT SAVINGS . . . REDUCES INSTALLATION TIME WITH HIGH-PERFORMANCE HEAT-SHRINK SHAPE MEMORY BOOTS



INSTALITE MOLDED BOOTS

High-Performance Heat-Shrink Boots



Product Performance

PHYSICAL CHARACTERISTICS

• Tensile strength: 10 MPa (1450 psi) min.

• Ultimate elongation: 400% min.

• Specific gravity: 1 (±0.05)

WEIGHT SAVINGS

20% to 30% lighter than standard
-25 parts

TIME SAVINGS

- Optimized interior geometry speeds installation time
- Faster recovery

RUGGED

- -75°C to 150°C temperature range
- Resists most common military fuels, oils, and greases
- Abrasion resistant

COMPATIBLE

- Part of System 25 harnessing components
- Lighter weight drop-in replacement for standard -25 boots
- Meets the requirements of VG 95343 Parts 6 and 18

APPLICATIONS

- Military ground systems
- Aerospace
- Marine

THERMAL CHARACTERISTICS

• Heat aging (168 hr @ 160°C): 400% min. ultimate elongation

INSTALITE boots are a lighter weight alternative of our -25 heat-shrink boots. Utilizing our expertise in fluid-resistant, modified elastomers, we've created semi-rigid, abrasion-resistant boots that are up to 30% lighter than our standard -25 boots. INSTALITE boots offer the same balance of high-temperature fluid resistance and long-term heat resistance.

- Heat shock (4 hr @ 215°C): 400% min. ultimate elongation
- Low-temperature flexing (4 hr @ -75°C): No cracking
- Flammability burn time: 120 seconds max

ELECTRICAL

• Electrical strength: 15 MV/m (4.6 MV/ft)

FLUID RESISTANCE

(Aviation Fuel, Hydraulic Fluids, Lubricating Oil, Cleaning Fluids, Deicers)

• After 24-hr immersion: 8 MPa (1160 psi) min. tensile strength 300% min. ultimate elongation

DOCUMENTS

- RW-3040: Product specification
- ELE-3COP-555: Installation of 90° boot
- ELE-3COP-554: Installation of straight boot

TOOLING

• Heat gun: CV 1981

INSTALLATION TIME

(Timings are representative across the range based on our codes of practice)

- System 25 boot: 2 minutes 24 seconds
- System 25L boot: 1 minute 41 seconds

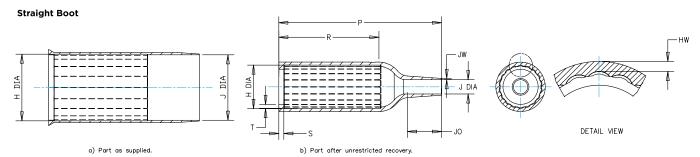
Visit www.te.com/INSTALITE to view our installation video.

TE Components...TE Technology...TE Know-how...

AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Raychem | Rochester | DEUTSCH

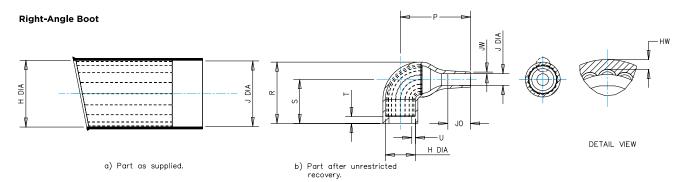
Get your product to market faster with a smarter, better solution.

Instalite Molded Boots



Part No.	Н		J		Р	R	HW	JM	Avg
	Min. a	Max. b	Min. a	Max. b	±10% b	±10% b	±20% b	Min. b	Weight Savings
202K121-25L-0	24 [0.95]	10.4 [0.41]	24 [0.95]	5.6 [0.22]	38 [1.50]	21 [0.83]	1.6 [0.06]	0.9 [0.04]	20%
202K132-25L-0	30 [1.18]	14.2 [0.56]	30 [1.18]	5.9 [0.23]	55 [2.17]	32 [1.26]	1.8 [0.07]	1.0 [0.04]	20%
202K142-25L-0	31 [1.22]	18 [0.71]	31 [1.22]	7.1 [0.28]	67 [2.64]	35 [1.38]	1.8 [0.07]	1.0 [0.04]	20%
202K152-25L-0	36 [1.42]	22.4 [0.88]	36 [1.42]	8.4 [0.33]	80 [3.15]	42 [1.65]	2.0 [0.08]	1.0 [0.04]	23%
202K163-25L-0	43 [1.69]	28.2 [1.11]	43 [1.69]	9.9 [0.39]	9.9 [3.90]	61 [2.40]	2.2 [0.08]	1.2 [0.05]	28%
202K174-25L-0	60 [2.36]	35.1 [1.38]	60 [2.36]	15.7 [0.62]	130 [5.12]	72 [2.83]	3.3 [0.13]	1.5 [0.06]	22%
202K185-25L-0	66 [2.60]	44.5 [1.75]	66 [2.60]	16.8 [0.66]	170 [6.69]	90 [3.54]	3.8 [0.15]	2.0 [0.08]	21%

See the latest Specification Control Document for full dimensions



Part No.		Н		J		R	S	HW	ΛM	Avg
	Min. a	Max. b	Min. a	Max. b	±10% b	±10% b	±10% b	±20% b	Min. b	Weight Savings
222K121-25L-0	24 [0.95]	10.4 [0.41]	24 [0.95]	5.6 [0.22]	25 [0.98]	25 [0.98]	19 [0.75]	1.3 [0.05]	0.5 [0.02]	30%
222K132-25L-0	30 [1.18]	14.2 [0.56]	30 [1.18]	5.9 [0.23]	32 [1.26]	27 [1.06]	20 [0.79]	1.5 [0.05]	0.8 [0.03]	26%
222K142-25L-0	31 [1.22]	18 [0.71]	31 [1.22]	7.1 [0.28]	39 [1.54]	31 [1.22]	21 [0.83]	1.2 [0.04]	1.0 [0.04]	21%
222K152-25L-0	36 [1.42]	22.4 [0.88]	36 [1.42]	8.4 [0.33]	46 [1.81]	38 [1.50]	26 [1.02]	1.5 [0.06]	1.0 [0.04]	26%
222K163-25L-0	43 [1.69]	28.2 [1.11]	43 [1.69]	9.9 [0.39]	55 [2.17]	45 [1.77]	30 [1.18]	2.0 [0.08]	1.0 [0.04]	21%
222K174-25L-0	60 [2.36]	35.1 [1.38]	60 [2.36]	15.7 [0.62]	80 [3.15]	54 [2.13]	35 [1.38]	2.3 [0.09]	1.5 [0.06]	23%
222K185-25L-0	66 [2.60]	44.5 [1.75]	66 [2.60]	16.8 [0.66]	108 [4.25]	68 [2.68]	42 [1.65]	1.8 [0.07]	2.0 [0.08]	25%

See the latest Specification Control Document for full dimensions

For More Information

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Consult TE for the latest dimensions and design specifications.

