



Raychem RDSS Duct Sealing System

KEY FEATURES

- Easier and quicker installation
- Provides watertight duct seal
- Helps prevent floodings
- Installs with water flowing
- Improves service and reduces maintenance cost



Installed RDSS

The RDSS duct seal is an inflatable duct sealing system that wraps around cables in the ducts of manholes or exchange vaults. The product effectively seals power cable ducts, stopping or preventing water from leaking into the manhole or vault.

The RDSS duct seal is suitable for use with unjacketed, concentric neutral cables, polyethylene or lead sheath cables in the plastic, concrete, or steel ducts of wall feed-through systems. TE Connectivity's duct sealing system permits cable movement and thermal expansion while retaining its sealing properties. RDSS has been tested in severe environmental conditions and is water and airtight up to 50 kPa (equivalent to 16.7 ft water head). Request test report EDR-5253.

RDSS-IT-16 (Figure A)

The inflation tool uses CO₂ gas cylinders. One CO₂ cylinder will inflate 3 pieces of RDSS 100 duct seals in vacant ducts.

RDSS-IGG-SR-AS (Figure B)

The inflation gun connects to a pressurized air bottle, pump or compressor, with an outlet pressure of 60 to 150 psi (4 to 10 bar) to feed the inflation gun.

Figure A

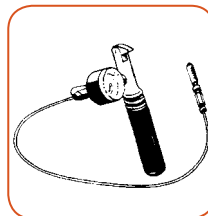


Figure B



Raychem
from TE Connectivity

Product Specifications: Inches in Diameter (mm)						
Duct Inner Diameter	Number of Cables in Duct / Maximum Cable Bundle Diameter					
	0, 1 or 2 cables	3 or 4 cables		5, 6 or 7 cables		
1.25 (32)	RDSS-45	0.5 (13)	RDSS-45, 1 RDSS-CLIP-45	0.3 (8)	RDSS-45, 2 RDSS-CLIP-45	0.1 (3)
1.50 (38)	RDSS-45	1.0 (25)	RDSS-45, 1 RDSS-CLIP-45	0.8 (20)	RDSS-45, 2 RDSS-CLIP-45	0.6 (15)
1.75 (45)	RDSS-45	1.3 (32)	RDSS-45, 1 RDSS-CLIP-45	1.05 (27)	RDSS-45, 2 RDSS-CLIP-45	0.9 (22)
2.00 (50)	RDSS-60	1.2 (30)	RDSS-60, 1 RDSS-CLIP-75	1.0 (25)	RDSS-60, 2 RDSS-CLIP-75	0.8 (20)
2.25 (57)	RDSS-60	1.6 (41)	RDSS-75, 1 RDSS-CLIP-75	1.4 (36)	RDSS-75, 2 RDSS-CLIP-75	1.2 (31)
2.50 (64)	RDSS-75	1.5 (38)	RDSS-75, 1 RDSS-CLIP-75	1.3 (33)	RDSS-75, 2 RDSS-CLIP-75	1.1 (28)
2.75 (70)	RDSS-75	1.8 (46)	RDSS-75, 1 RDSS-CLIP-75	1.6 (41)	RDSS-75, 2 RDSS-CLIP-75	1.4 (36)
3.00 (75)	RDSS-75	2.2 (56)	RDSS-75, 1 RDSS-CLIP-75	2.0 (50)	RDSS-75, 2 RDSS-CLIP-75	1.8 (46)
3.25 (83)	RDSS-100	2.2 (56)	RDSS-100, 1 RDSS-CLIP-100	2.0 (50)	RDSS-100, 2 RDSS-CLIP-100	1.8 (46)
3.50 (89)	RDSS-100	2.6 (66)	RDSS-100, 1 RDSS-CLIP-100	2.4 (61)	RDSS-100, 2 RDSS-CLIP-100	2.2 (56)
3.75 (95)	RDSS-100	2.9 (74)	RDSS-100, 1 RDSS-CLIP-100	2.7 (69)	RDSS-100, 2 RDSS-CLIP-100	2.5 (64)
4.00 (100)	RDSS-100	3.2 (80)	RDSS-100, 1 RDSS-CLIP-100	3.0 (75)	RDSS-100, 2 RDSS-CLIP-100	2.8 (70)
4.25 (108)	RDSS-100	3.5 (89)	RDSS-100, 1 RDSS-CLIP-100	3.3 (85)	RDSS-100, 2 RDSS-CLIP-100	3.1 (79)
4.50 (114)	RDSS-100	3.5 (89)	RDSS-100, 1 RDSS-CLIP-100	3.3 (85)	RDSS-100, 2 RDSS-CLIP-100	3.1 (79)
4.75 (121)	RDSS-125	3.8 (97)	RDSS-125, 1 RDSS-CLIP-125	3.6 (92)	RDSS-125, 2 RDSS-CLIP-125	3.4 (87)
5.00 (125)	RDSS-125	4.1 (104)	RDSS-125, 1 RDSS-CLIP-125	3.9 (98)	RDSS-125, 2 RDSS-CLIP-125	3.7 (93)
5.25 (133)	RDSS-150†	4.3 (109)	RDSS-150†, 1 RDSS-CLIP-150	4.1 (104)	RDSS-150†, 2 RDSS-CLIP-150	3.9 (98)
5.50 (140)	RDSS-150†	4.7 (120)	RDSS-150†, 1 RDSS-CLIP-150	4.5 (114)	RDSS-150†, 2 RDSS-CLIP-150	4.3 (109)
5.75 (146)	RDSS-150†	4.9 (124)	RDSS-150†, 1 RDSS-CLIP-150	4.7 (119)	RDSS-150†, 2 RDSS-CLIP-150	4.5 (114)
6.00 (150)	RDSS-150†	5.1 (129)	RDSS-150†, 1 RDSS-CLIP-150	4.9 (124)	RDSS-150†, 2 RDSS-CLIP-150	4.7 (120)
6.25 (159)	RDSS-150†	5.4 (138)	RDSS-150†, 1 RDSS-CLIP-150	5.2 (133)	RDSS-150†, 2 RDSS-CLIP-150	5.0 (125)
6.50 - 8.00 (165 - 210) Ducts in this range require the use of RDSS-AD-210 adapter. Contact TE Connectivity for application information						

For ducts containing three or more cables, one RDSS duct seal clip for every two cables is required.

† See Ordering information to the right.

* Maximum cable range is the sum of the diameters of all cables in the duct plus 0.2" for each RDSS duct seal clip

**Sealing RDSS 150 in a duct that is empty or contains a cable less than 2.4" (60 mm) in outside diameter requires a RDSS-AT/AP-150 device. This device and instructions for its installation are available in a separate kit.

Test Report: EDR-5253

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RDSS-AD-210 Selection Table				
Duct Inner Diameter	1 x RDSS-AD-210 + RDSS-125 Cable Diameter	2 x RDSS-AD-210 + RDSS-125 Cable Diameter	1 x RDSS-AD-210 + RDSS-150 Cable Diameter	2 x RDSS-AD-210 + RDSS-150 Cable Diameter
5.25 (135)	0*			
5.5 (140)	0 - 1.6 (0 - 40)			
5.75 (145)	0 - 2.0 (0 - 50)			
6 (150)	0 - 2.6 (0 - 65)			
6.25 (160)	0 - 3.6 (0 - 91)			
6.5 (165)	0 - 4.1 (0 - 103)			
6.75 (170)	2.8 - 4.3 (70 - 110) ‡	0*	2.4 - 4.2 (60 - 107) ‡	
7 (180)	3.1 - 4.7 (80 - 120) ‡	0 - 2.0 (0 - 50)	2.4 - 4.6 (60 - 118) ‡	
7.25 (185)	3.5 - 5.1 (90 - 130) ‡	0 - 2.6 (0 - 65)	2.4 - 5.1 (60 - 129) ‡	
7.5 (190)		0 - 3.3 (0 - 83)	2.4 - 5.3 (60 - 135) ‡	
7.75 (195)		0 - 3.7 (0 - 95)	2.4 - 5.5 (60 - 139) ‡	
8 (205)		3.0 - 4.5 (75 - 115) ‡	4.5 - 6.1 (115 - 155) ‡	2.4 - 4.4 (60 - 112) ‡
8.25 (210)		3.1 - 4.7 (80 - 120) ‡	4.7 - 6.3 (120 - 160) ‡	2.4 - 4.6 (60 - 118) ‡

*Empty ducts only | Suitable for empty ducts | ‡ With Cables only
 Duct Seals: Do not inflate the duct seal outside the duct.



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