



TECHNICAL DATA

ELECTRICAL RELEASE DEVICE QRV

The Viking Corporation | 210 N Industrial Park Drive | Hastings MI 49058

Viking Special Hazards | Technical Services: 877-384-5464 | Email: techsvcs@vikingcorp.com | www.vikinggroupinc.com

The technical data described herein is for components of the Viking Oxexo PR Fire Extinguishing Systems.

Visit the Viking website for the latest edition of the technical data and system manuals.

1. DESCRIPTION / FUNCTION

The electrical release device QRV is used for the electrical actuation of a type QRV quick release valve. The release device is only suitable for usage inside buildings. By applying voltage to the release device, the force stored in a spring assembly is suddenly released. In this case, a plunger activates the pilot valve integrated into the quick release valve and vents the upper pressure chamber. This drop in pressure causes the extinguishing agent pressure to push the closing piston into an open position. This in turn causes the quick release valve to open.

The manual release device QRV can also be fitted to the electrical release device QRV as an additional means of release (sold separately). Only one extinguishing agent cylinder valve each can be opened electrically by the application of the release device's nominal voltage. The electrical actuator device is resettable using the reset tool (tool sold separately).



NOTE: The electrical actuation signal must be present for at least 5 seconds.

2. LISTINGS AND APPROVALS



cULus Listed - EX5248 (Oxexo PR LCP, IG-01, IG-100)



VdS - In conjunction with quick release valve QRV



CE - In conjunction with quick release valve QRV



FM Approved: Oxexo PR LCP; IG-01, IG-100

Designation	Part no.	Weight
Electrical Release Device QRV	914027D	2.40 lbs (1.09 kg)
Manual Release Device QRV	914028	0.24 lbs (0.11 kg)
Reset Tool	934652	0.77 lbs (0.35 kg)



WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov

3. TECHNICAL DATA

Specifications

Operating voltage: 19 - 28 V DC

Nominal voltage: 24 V DC

Nominal current: 0.5 A maximum

Duty cycle: 100% duty ratio

Diagnostic current: 20 mA

Tightening torque (valve): 18.44 ± 2.95 ft-lb (25 Nm ± 4)

Temperature range:

- per VdS and CE: -4 °F to 122 °F (-20 °C to 50 °C)
- for transport and storage: -4 °F to 149 °F (-20 °C to 65 °C)

Mounting thread: M20 x 1.5

Electrical connection

Connector plug: electrical connector 3 pole + ground (type GDME 3013) according to DIN EN 175301-803 Form A

Maximum cable cross section: 0.023 in² (1.5 mm²) maximum

Electrical connection: PG13.5 with converter to 1/2" NPT

Insulation material class as per FDE: Class F

Protection class according to DIN 40050: IP65

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Marking (see Figure 1)

Manufacturer date: YYYY/MM

Nominal voltage/nominal current: 24 VDC / 0.5 A

Torque: 25 Nm \pm 2

Part number: See table on previous page

Material Standards

Enclosure: Brass / nickel-plated steel

Seals: NBR (Acrylonitrile butadiene rubber)

Permanent magnet: Nd-Fe-B (neodymium iron boron)

Additional parts: steel, stainless steel, brass, copper, plastic

Terminal Assignment

- Terminal 1: Positive
- Terminal 2: Negative



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Figure 1: Dimension Drawing
Inches (mm)

