1. DESCRIPTION / FUNCTION

The release solenoid is used for the electrical actuation of a type QRV quick release valve. The solenoid is only suitable for usage inside buildings. By applying voltage to the solenoid, 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 can also be fitted to the release solenoid as an additional means of release (sold separately). Only one extinguishing agent cylinder valve can be opened electrically by the application of the release device’s nominal voltage. The release solenoid 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 (Oxeo PR CF)
- FM Approved: Oxeo PR CF

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)
- 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

<table>
<thead>
<tr>
<th>Designation</th>
<th>Part no.</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release solenoid</td>
<td>914027D</td>
<td>2.40 lbs (1.09 kg)</td>
</tr>
<tr>
<td>Reset Tool</td>
<td>934652</td>
<td>0.77 lbs (0.35 kg)</td>
</tr>
</tbody>
</table>

**WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
Marking (see Figure 1)
Manufacturer date: YYYY/MM
Nominal voltage/nominal current: 24 VDC / 0.5 A
Torque: 25 Nm ± 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
The technical data described herein is for components of the Viking Oxeo PR Fire Extinguishing Systems. Visit the Viking website for the latest edition of the technical data and system manuals.

Figure 1: Dimension Drawing
Inches (mm)

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>4.49</td>
<td>(114)</td>
</tr>
<tr>
<td>6.42</td>
<td>(163)</td>
</tr>
</tbody>
</table>

Plastic cap

Clamp 1: + pole
Clamp 2: - pole

Marking area

SW50

Section A-A

M20x1.5

0.35 (9) +0.05 (+1.3) / -0.06 (-1.6)

Holding force F > 150 N