



## TECHNICAL DATA

## OXEO PRESSURE REDUCERS

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 Oxeo PR Fire Extinguishing Systems.

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

### 1. DESCRIPTION

The pressure reducer reduces the high pressure of the extinguishing agent in the upstream pipework via an orifice. The diameter of the orifice depends on the flow rate of the extinguishing agent and the pipework. The calculation of the diameter is carried out via the Viking calculation program. See the Viking website for more information.

The pressure reducer may only be used in accordance with system approval in stationary argon and nitrogen fire extinguishing systems. The pressure reducer has maximum working pressure of 235 bar. It is installed between the upstream pipework and the downstream pipework.

The pressure reducer is available in two different variants:

- Pressure reducer with orifice for hole diameter of 3 mm (0.118 in.) to 46 mm (1.811 in.)
- Pressure reducer with orifice and protective screen for hole diameters of 1 mm (0.039 in.) to 2.9 mm (0.114 in.)

The protective screen prevents any debris or scaling from blocking the smaller orifice diameters.

### 2. LISTINGS AND APPROVALS



cULus Listed - EX5248 (OxEO PR LCP)



FM Approved: OxEO PR LCP

### 3. TECHNICAL DATA

#### Specifications:

Operating medium: Argon (IG-01), Nitrogen (IG-100)

Working pressure: 5294 psi (365 bar)

Temperature range: -4 °F to 122 °F (-20 °C to +50 °C)

Thread Rc: in accordance with ANSI/ASME B1.20.1 - NPT

#### Material standards:

Material: Steel

Finish: Galvanized, EN 12329 - FE//Zn12

Test certificate: EN 10204 - 3.1 (material)



Designation	Part no.
OxEO pressure reducers	See table 1



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



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**4. ORDERING PROCEDURE**

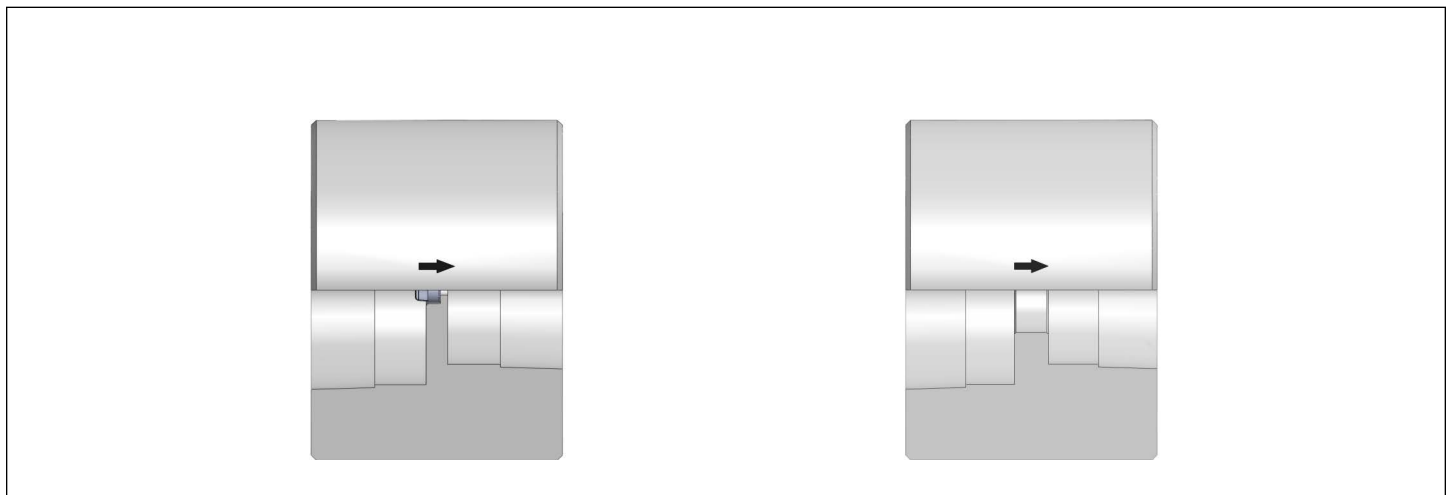
1. Select a base part number with the required inlet / outlet size and pressure rating.
2. Add the suffix for the desired orifice size

NOTE: Orifice sizes range from 1.0 mm to 35.0 mm. To select the suffix for the correct orifice size, convert the metric diameter to inches and round to three decimal places. This four digit number will be the suffix for the given orifice size.

EXAMPLE: 25013-0118 = Pressure reducer 2" NPT / 2" NPT with protective screen with an orifice of 0.118" (3.0 mm).

Table 1: Ordering table			
Designation	Maximum pressure	Base part number	Orifice diameter range
3/4" BSPT / 3/4" NPT with protective screen*	2901 psi (200 bar)	25011	0.039" (1.0 mm) to 0.114" (2.9 mm)
2" NPT / 2" NPT with protective screen		25013	
2" NPT / 2-1/2" NPT with protective screen		25015	
2" NPT / 3" NPT with protective screen		25017	
3/4" BSPT / 3/4" NPT*	4351 psi (300 bar)	25012	0.118" (3.0 mm) to 1.379" (35.0 mm)
2" NPT / 2" NPT		25014	
2" NPT / 2-1/2" NPT		25016	
2" NPT / 3" NPT		25018	

\*Configurations available in single tank systems only.



**Figure 1: Pressure reducer with and without protective screen**