



TECHNICAL DATA

OXEO MANIFOLDS

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

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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

The Oxexo manifolds may only be used in accordance with system approval in stationary argon and nitrogen fire extinguishing systems. The manifolds have a maximum 5294 psi (365 bar) working pressure. Manifolds are mounted directly on the cylinder rack to connect every extinguishing agent cylinder with the pipework.

The manifolds are manufactured with two and three inlets. A maximum of 18 inlets can be assembled in one row (see racking instruction in the Oxexo manuals for details). Each inlet is equipped with a check valve which releases the extinguishing agent in flow direction and prevents the flow in the opposite direction.

The assembly includes a blind pressure cap (part no. 886402D) to provide a closed seal on the check valves in the manifold (e.g. for a system pressure test).

The check valve KRV-2 releases the extinguishing agent in the flow direction and prevents the flow in the opposite direction.



2. LISTINGS AND APPROVALS



cULus Listed - EX5248 (Oxexo PR LCP)



FM Approved: Oxexo PR LCP

NOTE: Only the check valve carries UL and FM approvals, the manifolds are considered standard pipe and therefore do not need lab approval.

3. TECHNICAL DATA

Specifications:

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

Nominal diameter:

Pipe: 2"

Check valve: 3/4"

Working pressure: 5294 psi

Test pressure: 7948 psi

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

Screw coupling: gas tight

Finish:

Pipe: Steel, E-coated black

Check valve: Steel, chemically nickel-plated

NOTE: All technical data for the manifold assembly is as specified in NFPA 2001.

Specifications for check valve KRV-2:

Nominal diameter: DN12

Free cross-sectional area: 0.14 square inch (92 mm²)

Working pressure: 5294 psi (365 bar)

Test pressure: 7948 psi (548 bar)

Pressure to open 1.45 psi (less than 0.1 bar)

Leak rate at 290 psi (20 bar): less than 20 bubbles per minute

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

Check valve: complies with EN 12094-13

Material standards:

Housing: steel, chemically nickel-plated

Ball: stainless steel

Sealing: thermoplastic

Designation	Part no.
Oxexo manifolds	Refer to table



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



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3.1 - Specifications				
Designation		Part no.	Inlets	Weight
Manifold 300 bar - M300	2 out	25528	2	16 lb
	3 out	25054	3	25 lb

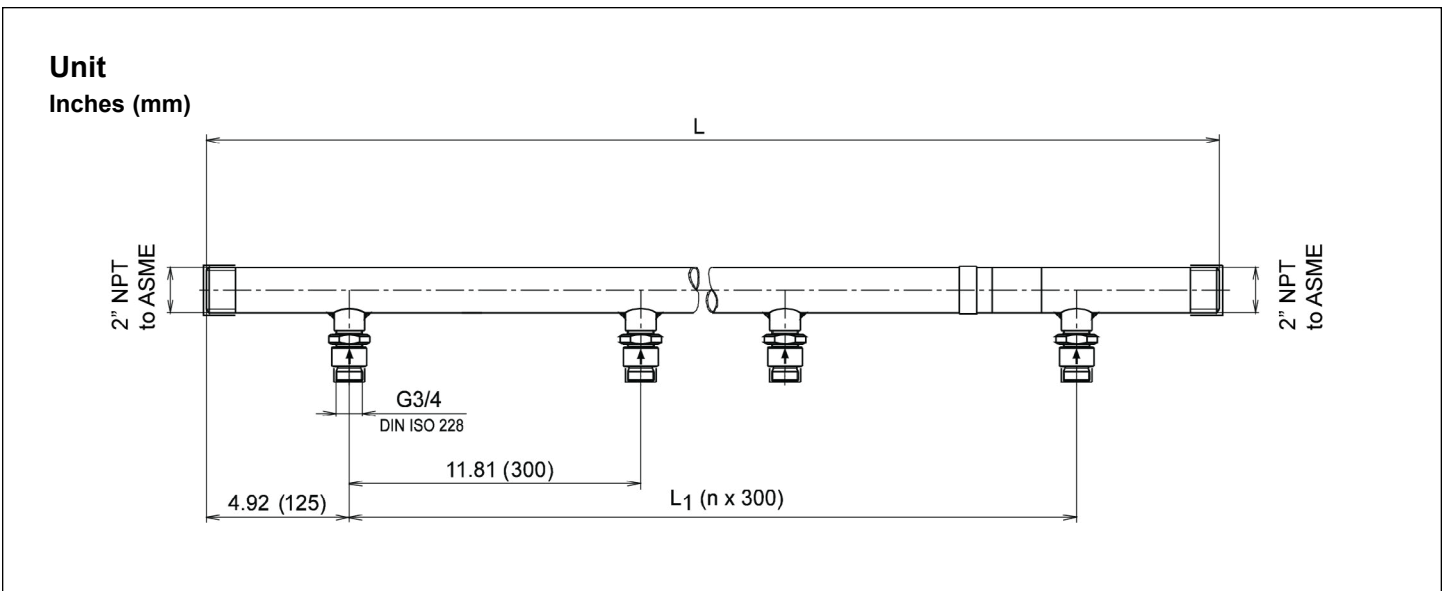


Figure 1: Dimensions

Dimensions			
Features	L	Number of distances n	L ₁ (n x 300)
DN50 - 2	21.65 (550)	1	11.81 (300)
DN50 - 3	33.46 (850)	2	23.62 (600)