

TECHNICAL DATA SHEET / EN

M-300

Grooved end cap

M-300 closes the end of a grooved pipeline. It provides a permanent or service-removable termination within the designed system, but it is not a valve and cannot isolate flow while being removed.

The solid cap forms the pressure boundary at the pipe end. A separate compatible grooved coupling retains the cap and its gasket seals the connection.



01 Technical parameters

Parameter	Value / condition
Working pressure	300 psi / 20.7 bar
Connection	Grooved

For aboveground steel pipework in fixed water-based fire-protection systems. The component forms part of a designed pipe assembly; it does not detect or extinguish a fire by itself.

02 Certification and scope

Document	Number	Scope
FM Approvals	PR475688	Model M-300

Approval scope depends on model, exact size, execution, pipe, gasket and pressure. Approval is not transferable between variants.

03 Dimensions and geometry

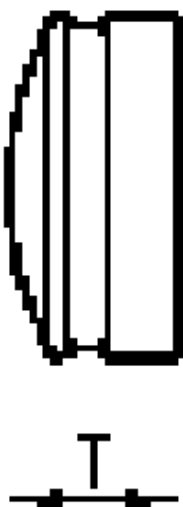


Fig. 1. Dimension symbols used in the table below.

DN	OD [mm]	T [mm]	Mass [kg]
DN25	33.4	28	0.1
DN32	42.4	28	0.13
DN40	48.3	28	0.15
DN50	60.3	37	0.22
DN65	76.1	37	0.32
DN80	88.9	41	0.41
DN100	114.3	51	0.71
DN125	139.7	51	1.11
DN150	168.3	55	1.51
DN200	219.1	68	3.13
DN250	273	75	5.52
DN300	323.9	81	8.44

Dimensions in mm. Symbols apply only to Fig. 1 and the specified variant. Do not scale the drawing.

04 Main component materials

Component	Material / construction
Housing/body	Ductile iron ASTM A536 Grade 65-45-12

05 Selection and compatibility

Specify the model, actual pipe outside diameter, pipe wall and groove preparation, surface finish and pressure requirement. DN alone does not identify every compatible execution.

06 Installation and checks

Isolate, depressurize and drain the pipe before fitting or removing a cap. Verify the coupling engagement and supporting arrangement; trapped pressure can remain behind a closed termination.

07 Operation and maintenance

During scheduled inspections, check for leakage, corrosion and mechanical damage. Depressurize and drain the affected section before dismantling; use compatible replacement parts.

Application limitations

The bare fitting does not establish the rating of its couplings, seals or adjoining equipment. Use the lowest pressure limit of the complete assembly; verify media and temperature compatibility of all sealing components.

08 Ordering information

Variant	Painted (P)	Galvanized (G)
DN25	M-300-033P	M-300-033G
DN32	M-300-042P	M-300-042G
DN40	M-300-048P	M-300-048G
DN50	M-300-060P	M-300-060G
DN65	M-300-076P	M-300-076G
DN80	M-300-089P	M-300-089G
DN100	M-300-114P	M-300-114G
DN125	M-300-139P	M-300-139G
DN150	M-300-168P	M-300-168G
DN200	M-300-219P	M-300-219G
DN250	M-300-273P	M-300-273G
DN300	M-300-324P	M-300-324G

P — painted; G — galvanized. A code suffix identifies the finish, not approval coverage. Confirm the required approval for the ordered execution.