

TECHNICAL DATA SHEET / EN

M-1F

Quick-install rigid grooved coupling

M-1F is a rigid grooved coupling designed for quick assembly of compatible pipe ends. Its installation sequence is model-specific; the quick-install designation does not mean that preparation and verification can be omitted.

Split housings, bolts, hexagonal nuts and a dedicated EPDM gasket form the joint. The anti-rotation construction restrains the connection while the gasket provides the seal.



01 Technical parameters

Parameter	Value / condition
Working pressure	300 psi / 20.7 bar
Connection	Grooved
Gasket material range	EPDM E: -34°C / +110°C
Temperature	For the gasket material only; complete assembly and medium limits also apply.

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-1F

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

03 Sizes and connections

DN	OD [mm]
32	42.2
40	48.3
50	60.3
65	76.1
80	88.9
100	114.3
125	139.7
150	168.3
200	219.1

04 Main component materials

Component	Material / construction
Housing/body	Ductile iron ASTM A536 Grade 65-45-12
Gasket	EPDM, model-specific profile
Fasteners	Carbon steel to the controlled model bill of materials

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

A competent installer must check pipe preparation and clean sealing surfaces. Use the specified joining components and follow the instructions for the exact model; do not borrow a tightening method from another product.

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

This rigid joint is not intended to absorb pipe movement. The lowest-rated assembly component governs pressure. Gasket temperature limits apply only to the specified material and compatible medium; prevent freezing of water.

08 Ordering information

Specify the model, exact connection sizes and required execution when ordering. Agree the catalogue number with Mercatura for this configuration.