

TECHNICAL DATA SHEET / EN

M-3L

U-bolt mechanical sprinkler tee

M-3L creates a small threaded sprinkler branch from a prepared opening in the main pipe. Its U-bolt fastening distinguishes it from a two-housing mechanical tee and from a mechanical cross.

A U-bolt holds the outlet housing against the pipe, with a dedicated gasket sealing around the opening. The threaded outlet receives a compatible connection selected for the sprinkler branch arrangement.



01 Technical parameters

Parameter	Value / condition
Working pressure	200 psi / 13.8 bar
Connection	Mechanical
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-3L

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

03 Dimensions and geometry

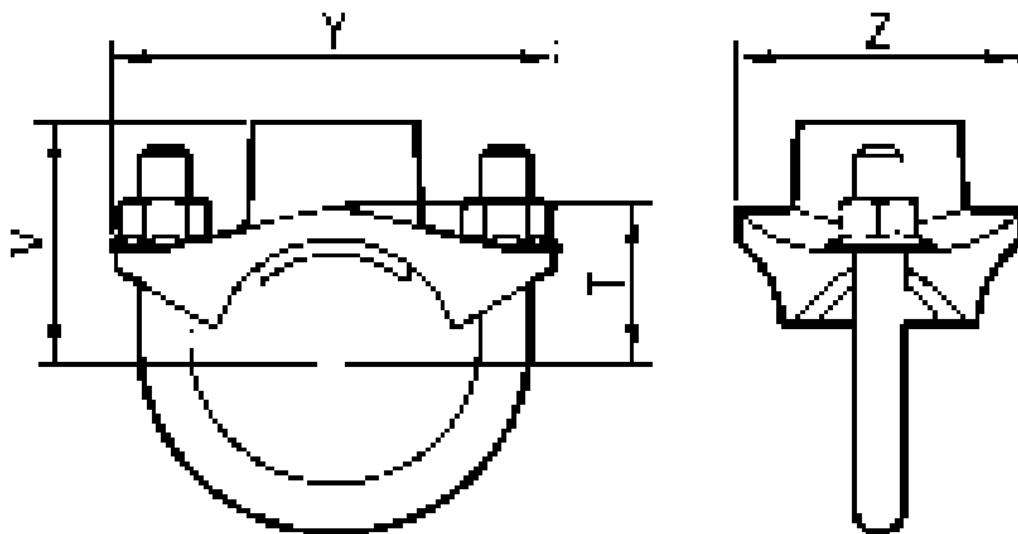


Fig. 1. Dimension symbols used in the table below.

DN	OD [mm]	Hole Ø [mm]	Y [mm]	Z [mm]	V [mm]	T [mm]	Mass [kg]
DN40 x DN15	48.3	30.5	88	57	45	31	0.32
DN40 x DN20	48.3	30.5	88	57	48	33	0.34
DN40 x DN25	48.3	30.5	88	57	55	37	0.4
DN50 x DN15	60.3	30.5	94	57	51	37	0.33
DN50 x DN20	60.3	30.5	94	57	54	39	0.35
DN50 x DN25	60.3	30.5	94	57	61	43	0.41

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

The dimension table covers only variants with available geometry. Dimensions for other sizes require separate confirmation.

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
U-bolt	Carbon steel

05 Selection and compatibility

Specify actual main-pipe outside diameter, wall, hole requirements and the exact outlet size and thread standard. Confirm the listed size combination and mating threaded part; nominal inch size is not a measured thread diameter.

06 Installation and checks

Fit only on isolated, depressurized and drained pipe; this is not a hot-tapping device. Prepare and deburr the specified hole, remove cuttings and position the correct gasket and housing according to the model instructions.

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 lowest-rated component limits the complete assembly. A gasket material temperature range is not automatically the operating range of the whole joint. Protect water-filled pipework against freezing. This sheet covers DN32 / OD42.2 mm, DN40 / OD48.3 mm and DN50 / OD60.3 mm, each with a ½", ¾" or 1" outlet. OD42.4 mm and DN65 are not interchangeable with this scope without separate confirmation.

08 Ordering information

Variant	Painted (P)	Galvanized (G)
DN40 × DN15	M-3L-048021P	M-3L-048021G
DN40 × DN20	M-3L-048027P	M-3L-048027G
DN40 × DN25	M-3L-048034P	M-3L-048034G
DN50 × DN15	M-3L-060021P	M-3L-060021G
DN50 × DN20	M-3L-060027P	M-3L-060027G
DN50 × DN25	M-3L-060034P	M-3L-060034G

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