

TECHNICAL DATA SHEET / EN

M-3J

Mechanical tee with threaded outlet

M-3J forms a threaded branch from a prepared opening in a steel main pipe. It differs from M-3G by its threaded outlet; the nominal outlet size does not establish the thread standard.

Two housing sections clamp around the main pipe and position the outlet over the opening. A dedicated gasket seals the saddle, and a compatible threaded component completes the branch connection.



01 Technical parameters

Parameter	Value / condition
Working pressure	300 psi / 20.7 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-3J

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

03 Dimensions and geometry

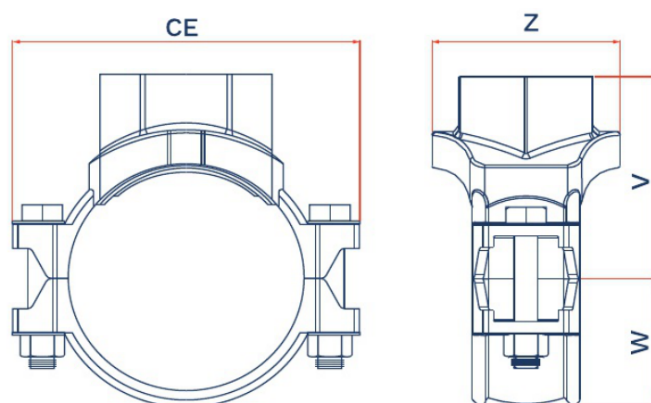


Fig. 1. Dimension symbols used in the table below.

DN	OD [mm]	Hole Ø [mm]	W [mm]	Y [mm]	Z [mm]	V [mm]	T [mm]	Mass [kg]
DN50 x DN25	60.3	38	37	134	70	62	46	0.81
DN50 x DN32	60.3	44.5	37	134	77	65	46	0.92
DN50 x DN40	60.3	44.5	37	134	77	65	46	0.98
DN65 x DN25	76.1	38	45	151	68	66	47	1.17
DN65 x DN32	76.1	44.5	45	151	76	68	47	1.27
DN65 x DN40	76.1	51	45	151	83	69	47	1.33
DN80 x DN25	88.9	38	52	161	68	72	54	1.25
DN80 x DN32	88.9	44.5	52	161	75	74	54	1.36
DN80 x DN40	88.9	51	52	161	82	75	54	1.43
DN80 x DN50	88.9	64	52	161	95	79	54	1.56
DN100 x DN25	114.3	38	65	188	69	87	68	1.45
DN100 x DN32	114.3	44.5	65	188	75	89	68	1.58
DN100 x DN40	114.3	51	65	188	83	89	68	1.67
DN100 x DN50	114.3	64	65	188	95	93	68	1.86
DN100 x DN65	114.3	70	65	188	101	97	68	2.05
DN100 x DN80	114.3	89	65	188	122	100	68	2.31
DN125 x DN25	139.7	38	78	232	68	100	82	2.08
DN125 x DN32	139.7	44.5	78	232	75	103	82	2.23
DN125 x DN40	139.7	51	78	232	81	103	82	2.31
DN125 x DN50	139.7	64	78	232	95	107	82	2.53

DN	OD [mm]	Hole Ø [mm]	W [mm]	Y [mm]	Z [mm]	V [mm]	T [mm]	Mass [kg]
DN125 x DN65	139.7	70	78	232	103	110	82	2.86
DN125 x DN80	139.7	89	78	232	120	114	82	3.1
DN150 x DN25	168.3	38	97	126	116	260	68	2.34
DN150 x DN32	168.3	44.5	97	126	118	260	74	2.51
DN150 x DN40	168.3	51	97	126	119	260	80	2.58
DN150 x DN50	168.3	64	97	126	122	260	94	2.85
DN150 x DN65	168.3	70	97	126	124	260	—	3.15
DN150 x DN80	168.3	89	97	126	129	260	120	3.44
DN200 x DN25	219.1	38	123	152	142	328	68	3.82
DN200 x DN32	219.1	44.5	123	152	144	328	74	4.02
DN200 x DN40	219.1	51	123	152	145	328	81	4.16
DN200 x DN50	219.1	64	123	152	148	328	94	4.47
DN200 x DN65	219.1	70	123	152	152	328	103	4.78
DN200 x DN80	219.1	89	123	152	155	328	120	5.13
DN200 x DN100	219.1	114	123	154	—	328	—	—

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
Gasket	EPDM, model-specific profile
Fasteners	Carbon steel to the controlled model bill of materials

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.

08 Ordering information

Variant	Painted (P)	Galvanized (G)
DN50 × DN25	M-3J-060034P	M-3J-060034G
DN50 × DN32	M-3J-060042P	M-3J-060042G
DN50 × DN40	M-3J-060048P	M-3J-060048G
DN80 × DN25	M-3J-089034P	M-3J-089034G
DN80 × DN32	M-3J-089042P	M-3J-089042G
DN80 × DN40	M-3J-089048P	M-3J-089048G
DN80 × DN50	M-3J-089060P	M-3J-089060G
DN100 × DN25	M-3J-114034P	M-3J-114034G
DN100 × DN32	M-3J-114042P	M-3J-114042G
DN100 × DN40	M-3J-114048P	M-3J-114048G
DN100 × DN50	M-3J-114060P	M-3J-114060G
DN100 × DN65	M-3J-114076P	M-3J-114076G
DN100 × DN80	M-3J-114089P	M-3J-114089G
DN125 × DN32	M-3J-139042P	M-3J-139042G
DN150 × DN32	M-3J-168042P	M-3J-168042G
DN150 × DN40	M-3J-168048P	M-3J-168048G
DN150 × DN50	M-3J-168060P	M-3J-168060G
DN150 × DN65	M-3J-168076P	M-3J-168076G
DN150 × DN80	M-3J-168089P	M-3J-168089G
DN200 × DN50	M-3J-219060P	M-3J-219060G
DN200 × DN65	M-3J-219076P	M-3J-219076G
DN200 × DN80	M-3J-219089P	M-3J-219089G

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