

Reducing Tees

Figure 1065R · TUPY NPT Medium Pressure · Class 150

Pressure class	Class 150 — up to 300 psi (21 bar) at room temperature
Thread	NPT taper — ASME B1.20.1
Standard	ASME B16.3 · ABNT NBR 6925
Material	Black malleable iron — ASTM A197 / ABNT NBR 6590
Size range	3/4" x 1/2" – 2" x 1.1/2"
Code series	6945, 6946
Finish	Black (code +41) · hot-dip galvanised (code +43)
Applications	Water, gas, steam, compressed air, fire protection and industrial lines



Dimensions and weights by size

Dimensions in mm · weight per piece in kg · TUPY catalogue p. 59

Nominal size (NPS)		Dimensions (mm)								Unit weight (kg)		Code
in	mm	x	z	b min.	e min.	f min.	f max.	g	h min.	Galv.	Black	Code
3/4 x 3/4 x 1/2	20 x 20 x 15	30.5	31	12.7	6.9	26.7	28.1	3	37	0.237	0.232	6945029
1 x 1 x 1/2	25 x 25 x 15	32	35.8	14.7	7.7	33.4	35.2	3.4	45	0.355	0.345	6945032
1 x 1 x 3/4	25 x 25 x 20	34.8	36.8	14.7	7.7	33.4	35.2	3.4	45	0.390	0.377	6945033
1 1/4 x 1 1/4 x 1/2	32 x 32 x 15	34	38.9	17	8.7	42.3	43.9	3.7	54.7	0.449	0.442	6945035
1 1/4 x 1 1/4 x 3/4	32 x 32 x 20	36.8	41.2	17	8.7	42.3	43.9	3.7	54.7	0.485	0.475	6945036
1 1/4 x 1 1/4 x 1	32 x 32 x 25	40.1	42.4	17	8.7	42.3	43.9	3.7	54.7	0.556	0.540	6945037
1 1/2 x 1 1/2 x 1/2	40 x 40 x 15	35.8	42.2	17.8	9.3	48.3	50	3.9	61.6	0.540	0.535	6945039
1 1/2 x 1 1/2 x 3/4	40 x 40 x 20	38.6	44.5	17.8	9.3	48.3	50	3.9	61.6	0.570	0.595	6945040
1 1/2 x 1 1/2 x 1	40 x 40 x 25	41.9	45.7	17.8	9.3	48.3	50	3.9	61.6	0.714	0.697	6945041
1 1/2 x 1 1/2 x 1 1/4	40 x 40 x 32	46.2	47.8	17.8	9.3	48.3	50	3.9	61.6	0.754	0.730	6945042
2 x 2 x 1/2	50 x 50 x 15	37.9	47.8	19.1	10.7	60.3	62.1	4.4	75.3	0.830	0.824	6945043
2 x 2 x 3/4	50 x 50 x 20	40.6	50	19.1	10.7	60.3	62.1	4.4	75.3	0.860	0.840	6945044
2 x 2 x 1	50 x 50 x 25	43.9	51.3	19.1	10.7	60.3	62.1	4.4	75.3	0.978	0.951	6945045
2 x 2 x 1 1/4	50 x 50 x 32	48.3	53.3	19.1	10.7	60.3	62.1	4.4	75.3	1.042	1.001	6945046
2 x 2 x 1 1/2	50 x 50 x 40	51.3	54.9	19.1	10.7	60.3	62.1	4.4	75.3	1.140	1.124	6945047

Dimensions and weights by size (continued)

Dimensions in mm · weight per piece in kg · TUPY catalogue p. 59

Nominal size (NPS)		Dimensions (mm)								Unit weight (kg)		Code
in	mm	x	z	b min.	e min.	f min.	f max.	g	h min.	Galv.	Black	Code
½ x ½ x ¾	15 x 15 x 20	31	30.5	10.9	6.8	21.3	22.8	2.7	30.4	0.207	0.201	6946229
½ x ½ x 1	15 x 15 x 25	34.6	32	10.9	6.8	21.3	22.8	2.7	30.4	0.258	0.250	6946232
¾ x ¾ x 1	20 x 20 x 25	36.8	34.8	12.7	6.9	26.7	28.1	3	37	0.323	0.312	6946233
¾ x ¾ x 1¼	20 x 20 x 32	41.2	36.8	12.7	6.9	26.7	28.1	3	37	0.399	0.410	6946236
1 x 1 x 1¼	25 x 25 x 32	42.4	40.1	14.7	7.7	33.4	35.2	3.4	45	0.510	0.494	6946237
1 x 1 x 1½	25 x 25 x 40	45.7	41.9	14.7	7.7	33.4	35.2	3.4	45	0.564	0.564	6946241
1 x 1 x 2	25 x 25 x 50	51.3	48.9	14.7	7.7	33.4	35.2	3.4	45	0.730	0.730	6946242
1¼ x 1¼ x 1½	32 x 32 x 40	47.8	46.2	17	8.7	42.3	43.9	3.7	54.7	0.765	0.726	6946245
1¼ x 1¼ x 2	32 x 32 x 50	58.3	48.3	17	8.7	42.3	43.9	3.7	54.7	0.866	0.860	6946246
1½ x 1½ x 2	40 x 40 x 50	54.9	51.3	17.8	9.3	48.3	50	3.9	61.6	0.993	0.993	6946247

Pressure-temperature rating

Class 150 · ASME B16.3 / ABNT NBR 6925 · unions to ASME B16.39

Temperature °C	Fittings ½- 6" (psi)	Unions ¾- 4" (psi)	MPa (kgf/cm²)
-29 to 66	300	300	2.1 (21)
93	265	265	1.8 (18)
121	225	225	1.5 (15)
149	185	185	1.3 (13)
177	150	150	1.0 (10)
204	—	110	0.7 (7)
232	—	75	0.5 (5)

1 bar = 14.5 psi = 0.1 MPa = 1 kgf/cm²

Markings cast on the fitting

- TUPY brand
- Nominal pipe size
- MI (malleable iron) monogram
- Class number 150
- BRAZIL (country of origin)
- UL monogram

Surface protection

Black finish (non-toxic oil) or hot-dip galvanised to ABNT NBR 6323 / ASTM A153. Epoxy, cataphoretic, hybrid or double-galvanised coatings on request.

Designation

Reference standards ABNT NBR 6925, ASME B16.3, ASME B16.14 and ASME B16.39. Designation example: NBR 6925 – 1065R Reducing Tees – 1½ x 1½ x ¾ – Fe (black) / Zn (galvanised).



Malleable cast iron pipe fittings

TECHNICAL DATASHEET

TUPY NPT Medium Pressure — NPT threaded fittings · Class 150

Certifications and standards



UL Listed



FM Approved



DVGW



ABNT



INMETRO



ISO 9001 / 14001 /
45001

Manufacturing standards: ASTM A197 · ABNT NBR 6590 · ABNT NBR 6925 · ASME B16.3 · ASME B1.20.1 · ASME B16.14 · ASME B16.39

Supply and enquiries

Stock held in the UAE for fast delivery across the GCC; full-container supply direct from Brazil on request. Exclusive agent for the Middle East and the Gulf: Amini Building Materials Trading L.L.C, Dubai, UAE.

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AMINI BUILDING
MATERIALS TRADING

Dimension letters refer to the TUPY catalogue drawing for this figure. Sizes are nominal pipe sizes (NPS). Product code = catalogue code + 41 (black) or + 43 (galvanised). Values from the TUPY technical catalogue, subject to change without notice.