

Reducing Sockets

Figure 2050R · TUPY NPT High Pressure · Class 300

Pressure class	Class 300 — up to 2,000 psi (138 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	1/2" x 1/4" – 4" x 3"
Code series	6832
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. 65

Nominal size (NPS)		Dimensions (mm)								Unit weight (kg)		Code
in	mm	m	b min.	e min.	f min.	f max.	g	h min.	Rib	Galv.	Black	Code
1/2 x 1/4	15 x 8	42.9	14.5	12.7	21.3	22.8	4.1	34	3.8	0.142	0.138	6832025
1/2 x 3/8	15 x 10	44.5	16.3	14.2	26.7	28.1	4.6	41.4	4.8	0.151	0.146	6832026
3/4 x 3/8	20 x 10	44.5	16.3	14.2	26.7	28.1	4.6	41.4	4.8	0.211	0.184	6832028
3/4 x 1/2	20 x 15	50.8	19.1	15.8	33.4	35.2	5.1	49.5	5	0.227	0.223	6832029
1 x 1/2	25 x 15	50.8	19.1	15.8	33.4	35.2	5.1	49.5	5	0.306	0.298	6832032
1 x 3/4	25 x 20	60.5	21.3	17.5	42.2	43.9	5.6	60.7	6.5	0.358	0.350	6832033
1 1/4 x 3/4	32 x 20	60.5	21.3	17.5	42.2	43.9	5.6	60.7	6.5	0.521	0.507	6832036
1 1/4 x 1	32 x 25	68.3	22.1	19.1	48.3	50	6.1	68.1	6.7	0.573	0.560	6832037
1 1/2 x 1	40 x 25	68.3	22.1	19.1	48.3	50	6.1	68.1	6.7	0.670	0.655	6832041
1 1/2 x 1 1/4	40 x 32	81	25.4	21.3	60.3	62.1	6.6	83.3	8.9	0.748	0.732	6832042
2 x 1 1/4	50 x 32	81	25.4	21.3	60.3	62.1	6.6	83.3	8.9	1.172	1.140	6832046
2 x 1 1/2	50 x 40	93.7	29.7	23.9	73	75.6	7.9	98	7.9	1.240	1.223	6832047
2 1/2 x 1 1/2	65 x 40	93.7	29.7	23.9	73	75.6	7.9	98	7.9	1.780	1.670	6832050
2 1/2 x 2	65 x 50	103.1	31.2	25.4	88.9	91.4	8.9	117.3	9.3	1.830	1.800	6832051
3 x 2	80 x 50	103.1	31.2	25.4	88.9	91.4	8.9	117.3	9.3	2.632	2.596	6832055
3 x 2 1/2	80 x 65	117	33.8	29.1	114.3	116.9	9.8	148	12.8	2.872	2.833	6832056
4 x 2 1/2	100 x 65	117	33.8	29.1	114.3	116.9	9.8	148	12.8	4.000	3.967	6832059
4 x 3	100 x 80	137	38.9	36.8	168.1	170.7	12.9	204.1	8.9	4.810	4.746	6832060
6 x 4	150 x 100	137	38.9	36.8	168.1	170.7	12.9	204.1	8.9	9.470	8.951	6832071



Malleable cast iron pipe fittings

TECHNICAL DATASHEET

TUPY NPT High Pressure — NPT threaded fittings · Class 300

Pressure-temperature rating

Class 300 · ASME B16.3 / ABNT NBR 6925 · unions to ASME B16.39

Temperature °C	½"– 1" (psi)	1½"– 2" (psi)	2½"– 6" (psi)	Union s ½"– 4" (psi)
-29 to 66	2,000	1,500	1,000	600
93	1,785	1,350	910	550
121	1,575	1,200	825	505
149	1,360	1,050	735	460
177	1,150	900	650	415
204	935	750	560	370
232	725	600	475	325
260	510	450	450	280
288	300	300	300	230

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
- WOG (water, oil, gas)
- Class number 300
- Working pressure 2000 / 1500 / 1000 psi
- BRAZIL (country of origin)
- UL and FM monograms

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 – 2050R Reducing Sockets – 1½ x 1¼ – Fe (black) / Zn (galvanised).

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.