Sockets

Figure 2045 · 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	**1/4" – 6"**
Code series	**6831**
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. 64

Nominal size (NPS)		Dimensions (mm)								Unit weight (kg)		Code
in	mm	w	b min.	e min.	f min.	f max.	g	h min.	Rib	Galv.	Black	Code
¼	8	35.1	10.9	9.7	13.7	14.8	3.6	23.6	2.2	0.077	0.076	6831002
3/8	10	41.4	11.9	11.2	17.1	18.3	3.8	28.5	3.2	0.122	0.120	6831003
½	15	47.8	14.5	12.7	21.3	22.8	4.1	34	3.8	0.194	0.189	6831004
¾	20	54.1	16.3	14.2	26.7	28.1	4.6	41.4	4.8	0.303	0.293	6831006
1	25	60.5	19.1	15.8	33.4	35.2	5.1	49.5	5.0	0.454	0.447	6831007
1¼	32	73.2	21.3	17.5	42.2	43.9	5.6	60.7	6.5	0.701	0.689	6831008
1½	40	73.2	22.1	19.1	48.3	50	6.1	68.1	6.7	0.859	0.849	6831009
2	50	92.2	25.4	21.3	60.3	62.1	6.6	83.3	8.9	1.556	1.526	6831010
2½	65	104.9	29.7	23.9	73	75.6	7.9	98	7.9	2.351	2.324	6831011
3	80	104.9	31.2	25.4	88.9	91.4	8.9	117.3	9.3	3.307	3.270	6831012
4	100	120	33.8	29.1	114.3	116.9	9.8	148	12.8	5.396	5.331	6831014
6	150	150	38.9	36.8	168.1	170.7	12.9	204.1	8.9	12.075	12.005	6831016

Pressure–temperature rating

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

Temperature °C	¼– 1" (psi)	1¼– 2" (psi)	2½– 6" (psi)	Unions ¼– 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 – 2045 Sockets – 1½ – 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.