

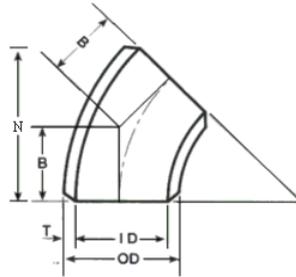


PIPING SYSTEM PTE LTD
PROFESSIONAL SUPPLIER OF PIPELINE MATERIALS AND EQUIPMENT

DRAWING NO.: ELBOW-DRAWING-AND-DATA-2026-02-27-15-43
DRAWING DATE: 27-Feb-2026

ELBOW DRAWING AND DIMENSIONS DATA

| | | | |
|---------|----------|--------------|---|
| OR No.: | OR999999 | DESCRIPTION: | ELBOW-32INCHES-45DEG-BEVELLED ENDS-SEAMLESS-SCH30(15.88MM)-CARBON STEEL-LONG RADIUS-GR WPB-ASTM A234-ASME |
| ITEM: | 64 | | B16.9-NACE MR0175 |



ANSI ASME B16.9 / MSS SP-75 (in mm)

MINIMUM EXTERNAL RECTANGULAR PRISM

| ITEM | NAME | TYPE | DEGREE | MATERIAL STANDARD | DN | OD INCH(ES) | ODMM | UNIT Volume (m³) | DIMENSIONS(MM) | | |
|------|-------|--------|--------|------------------------|-----|-------------|-------|---------------------|----------------|---------|-------|
| | | | | | | | | | L=A+½OD | W=A+½OD | H=OD |
| 64 | ELBOW | R=1.5D | 45 | ASTM A234/A234M GR WPB | 400 | 16 | 406.4 | 333.1367 | 812.8 | 812.8 | 406.4 |

MATERIAL STANDARD: ASTM A234/A234M GR WPB Chemical element composition content (%)

| COMPONENT | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V |
|-----------|-----|-----|------|------|-------|-----|-----|-----|------|------|
| Max | - | - | 0.29 | - | - | - | - | - | - | - |
| Min | 0.3 | 0.1 | 1.06 | 0.05 | 0.058 | 0.4 | 0.4 | 0.4 | 0.15 | 0.08 |

ASTM A234/A234M GR WPB Mechanical Properties

| Condition | TENSILE STRENGTH σ_b Mpa | YIELD POINT σ_s Mpa | ELONGATION OR ELONGATION AT BREAK δ % |
|---------------|---------------------------------------|----------------------------------|---|
| PIPE FITTINGS | ≥415 | ≥240 | Standard round specimen, or small specimen, or strip specimen long. : tr. : L0=4D: ≥22* L0=4D: ≥14* L0=50: ≥30© L0=50: ≥20 |



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STANDING IN SINGAPORE, SERVING THE WORLD

DRAWING

HuBiao

AUDIT

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APPROVAL

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