



PIPING SYSTEM PTE LTD  
PROFESSIONAL SUPPLIER OF PIPELINE MATERIALS AND EQUIPMENT

DRAWING NO.: ELBOW-DRAWING-AND-DATA-2026-02-25-17-24  
DRAWING DATE: 25-Feb-2026

## ELBOW DRAWING AND DIMENSIONS DATA

|         |          |              |                                                                                                                              |
|---------|----------|--------------|------------------------------------------------------------------------------------------------------------------------------|
| OR No.: | OR999999 | DESCRIPTION: | ELBOW-¾INCHES-90DEG-BEVELLED ENDS-SEAMLESS-SCH30(2.41MM)-CARBON STEEL-LONG RADIUS-GR WPHY60-ASTM A860-ASME B16.9-NACE MR0175 |
| ITEM:   | 44       |              |                                                                                                                              |



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

| ITEM | NAME  | TYPE   | DEGREE | MATERIAL STANDARD   | DN | OD INCH(ES) | ODMM | WALL THICKNESS | UNIT Volume (m³) | DIMENSIONS(MM) |         |      |
|------|-------|--------|--------|---------------------|----|-------------|------|----------------|------------------|----------------|---------|------|
|      |       |        |        |                     |    |             |      |                |                  | L=A+½OD        | W=A+½OD | H=OD |
| 1    | ELBOW | R=1.5D | 90     | ASTM A860 GR WPHY60 | 20 | ¾           | 26.7 | 2.41           | 0.00003876       | 38.1           | 38.1    | 26.7 |

MATERIAL STANDARD: ASTM A860 GR WPHY60 Chemical element composition content (%)

| COMPONENT | C   | Si   | Mn   | P    | S    | Cr  | Ni  | Cu   | Mo   | Ti   | V   | CeqMax |
|-----------|-----|------|------|------|------|-----|-----|------|------|------|-----|--------|
| Max       |     | 0.15 | 1    |      |      |     |     |      |      |      |     | ≤0.42  |
| Min       | 0.2 | 0.4  | 1.45 | 0.03 | 0.01 | 0.3 | 0.5 | 0.35 | 0.25 | 0.05 | 0.1 |        |

ASTM A860 GR WPHY60 Mechanical Properties

| CONDITION     | TENSILE STRENGTH<br>$\sigma_b$<br>Mpa | YIELD POINT<br>$\sigma_s$<br>Mpa | ELONGATION OR ELONGATION AT BREAK<br>$\delta$<br>% |
|---------------|---------------------------------------|----------------------------------|----------------------------------------------------|
| PIPE FITTINGS | ≥520                                  | ≥415                             | ≥20                                                |



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PROFESSIONAL SUPPLIER OF PIPELINE MATERIALS AND EQUIPMENT  
STANDING IN SINGAPORE, SERVING THE WORLD

DRAWING

HuBiao

AUDIT

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APPROVAL

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