



PIPING SYSTEM PTE LTD
PROFESSIONAL SUPPLIER OF PIPELINE MATERIALS AND EQUIPMENT

DRAWING NO.: ELBOW-DRAWING-AND-DATA-2026-02-27-08-07
DRAWING DATE: 27-Feb-2026

ELBOW DRAWING AND DIMENSIONS DATA

OR No.:	OR999999	DESCRIPTION:	ELBOW-18INCHES-90DEG-BEVELLED ENDS-SEAMLESS-SCH40(14.27MM)-CARBON STEEL-LONG RADIUS-GR WPHY60-ASTM A860-ASME B16.9-
ITEM:	117		NACE MR0175



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

ITEM	NAME	TYPE	DEGREE	MATERIAL STANDARD	DN	OD INCH(ES)	ODMM	WALL THICKNESS	PROCESS	UNIT Volume (m³)	DIMENSIONS(MM)		
											L=A+½OD	W=A+½OD	H=OD
1	ELBOW	R=1.5D	90	ASTM A860 GR WPHY60	450	18	457.2	14.27	SMLS	0.00149589	57.2	57.2	457.2

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 σ_b Mpa	YIELD POINT σ_s Mpa	ELONGATION OR ELONGATION AT BREAK δ %
PIPE FITTINGS	≥520	≥415	≥20



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DRAWING

HuBiao

AUDIT

王健

APPROVAL

李斌