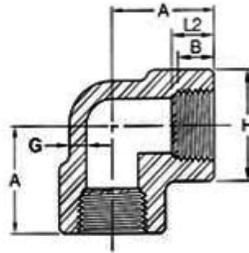




CANGZHOU AUTHENTIC PIPE FITTING MANUFACTURE CO., LTD	DRAWING NO.:	ELBOW-DRAWING-2024-09-29-23-29
ISO9001:2005 No.:01 100 1533062 API Q1-3060	DRAWING DATE:	29-Sep-2024

CONCENTRIC/ECCENTRIC REDUCER DRAWING AND DIMENSIONS DATA

OR No.:	OR141710	DESCRIPTION:	ELBOW,PIPE:1",90 DEG,3000 LB,FNPT,ASTM A105N,GALV,ASTM A153,ASME B16.11,ASME B1.20.1,NACE MR0175
ITEM:	64		



90° ELBOW

Parameter (MM)		
Item	Value	Remark
A	44	
G	4.98	
L2	17.3	
B	14.7	
H	56	
SURFACE	ASTM A153	GLAV
THREAD	ASME B1.20.1	

ANSI ASME B16.9

ITEM	NAME	DEGREE OF ANGLE	MATERIAL STANDARD	THREAD	CLASS	DN1	OD1 INCH(ES)	OD1MM	UNIT Volume (m³)	DIMENSIONS(MM)		
										L=A+1/2*H	W=A+1/2*H	H=H
1	ELBOW	90DEG	ASTM A105N	FNPT	3000	25	1"	33.4	0.00029030	72	72	56

MATERIAL STANDARD: ASTM A105N Chemical element composition content (%)

COMPONENT	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V
Max	-	0.1	0.6	-	-	-	-	-	-	-
Min	0.35	0.35	1.05	0.035	0.04	0.3	0.4	0.4	0.12	0.08

ASTM A105N Mechanical Properties

Condition	HEAT TREATMENT	TENSILE STRENGTH	YIELD POINT	ELONGATION OR ELONGATION AT BREAK	Cross-sectional shrinkage rate	HARDNESS
		σ_b Mpa	σ_s Mpa	δ %	ψ %	HBW
Forging	N or N+T or Q+T	≥485	≥250	≥30	≥30	137-197
Forging/t=7.9	N or N+T or Q+T			≥30		
Forging/t=7.1	N or N+T or Q+T			≥28.5		
Forging/t=6.4	N or N+T or Q+T			≥27		
Forging/t=5.6	N or N+T or Q+T			≥25.5		
Forging/t=4.8	N or N+T or Q+T			≥24		
Forging/t=4	N or N+T or Q+T			≥22.5		
Forging/t=3.2	N or N+T or Q+T			≥21		
Forging/t=2.4	N or N+T or Q+T			≥19.5		
Forging/t=1.6	N or N+T or Q+T			≥18		

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