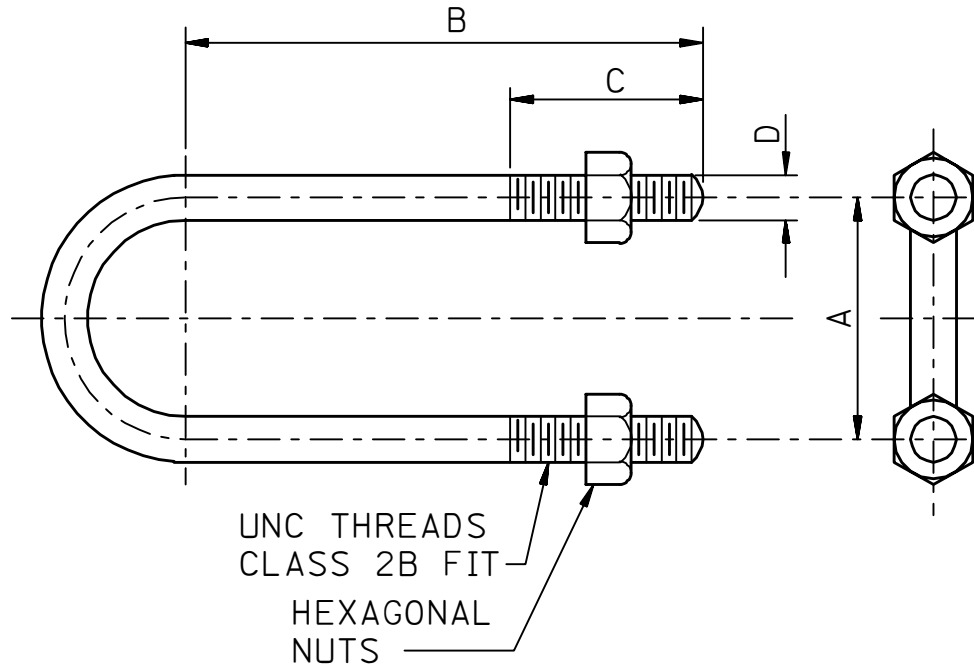


FOR ARABIAN AMERICAN OIL COMPANY



AMS NUMBER STEEL BAR	AMS NUMBER HEX. NUTS	D in.	PIPE SIZE in.	A mm	B mm	C mm	R mm	CUTTING LENGTH mm
			1/2	35	50	38	13	155
12-337-323	10-579-011	3/8	3/4	38	55	38	14	168
			1	45	60	38	18	184
			1 1/2	65	65	38	26	225
12-337-333	10-579-017	1/2	2	75	70	38	31	260
			3	105	85	38	46	337
			4	130	100	38	59	403
			6	190	125	38	85	556
12-337-350	10-579-027	3/4	8	240	150	38	110	686
			10	295	175	38	138	822
			12	345	200	38	163	953

METRIC DIMENSIONS OF STOCK ITEMS ARE A DIRECT CONVERSION OF CONVENTIONAL UNITS TO METRIC UNITS.

NOTES

$$1. R = \frac{A-D}{2}$$

2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

TYPICAL INSTALLATION DRAWING

DRAWING TITLE	PLANT NO.	INDEX	DRAWING NO.	SHT. NO.	REV. NO.
DETAIL OF PIPE U-BOLTS	990	L	AE-036311	001	05
STD. DWG.	METRIC	J.O.	B.J.		