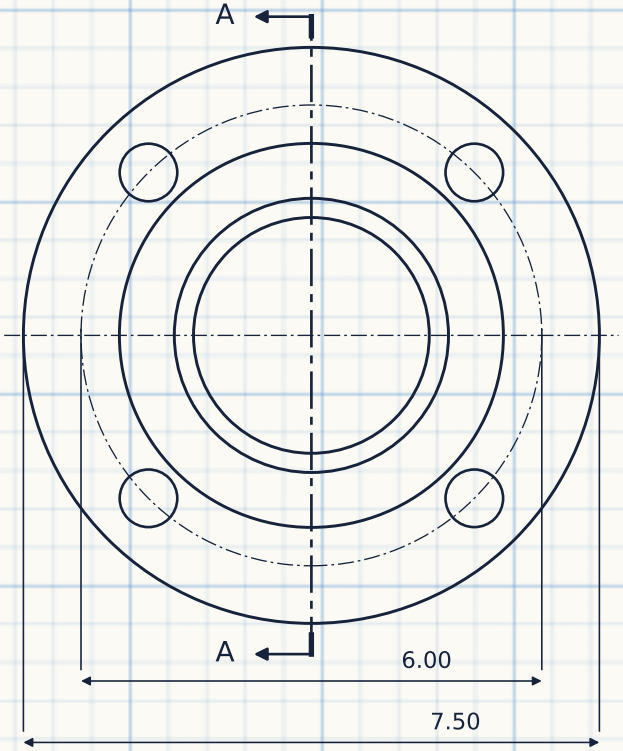
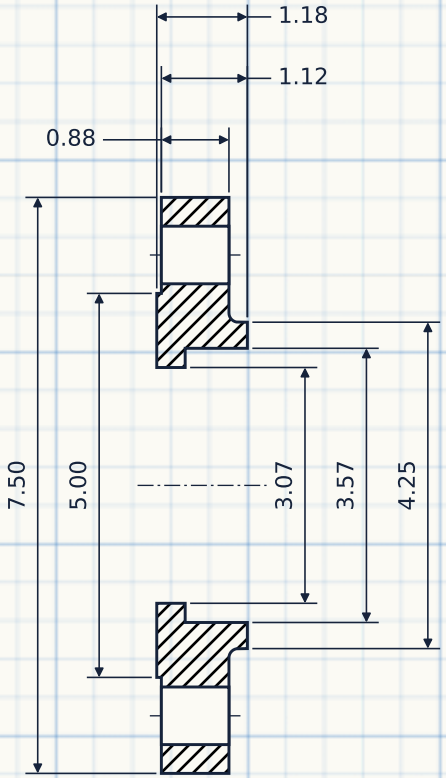
3" CLASS 150 RF SOCKET WELD FLANGE

4 HOLES Ø0.75 (3/4") ON Ø6.00 B.C.

HOLES STRADDLE CENTERLINES



FRONT VIEW



SECTION A-A

01 DIMENSIONS (INCHES)

DIMENSION	VALUE	TOLERANCE
Outside diameter	7.50	—
Thickness at OD, tf, excl. RF	0.88	+0.12/−0.00
Length thru hub, excl. RF	1.12	—
Overall length incl. RF	1.18	—
Raised face diameter	5.00	±0.04
Raised face height	0.06	—
Hub diameter at back	4.25	—
Socket bore, min.	3.57	±0.010
Socket depth, min.	0.81	—
Bore below socket (STD)	3.07	±0.04
Bolt circle diameter	6.00	±0.06
Number of bolt holes	4	—
Bolt hole diameter	0.75 (3/4)	—
Bolt diameter	5/8	—
Stud bolt length	3.50 calc.	—

02 NOTES

1 Thickness tf: at the OD to the flange edge plane, excl. the 0.06" (1/16") RF (B16.5 paras. 6.4.2.1, 6.4.2.2, Fig. 6); para. 7.4 tolerance. Length thru hub also excludes the RF.

2 Hub may be straight or tapered (taper ≤ 7°).

3 Socket and bore per Table 8C cols. 11, 13, 15. Bore below socket shown for STD pipe.

4 Section A-A: bolt holes rotated into cutting plane.

5 Stud bolts: 4 × 5/8" × 3.50" long calc., B16.5 Table 7C, raised face column. Length excludes points (para. 6.10.2).

6 Tolerances per B16.5 section 7 (paras. 7.3–7.8); "—" = none listed. Adjacent bolt holes ±0.03; bolt circle to facing conc. 0.06; face perp. to bore 1°.

TEXAS FLANGE
texasflange.com

SHEET ID	TF-B165-SW-RF-150-03
REV	C (not for fabrication)
REV NOTE	C: thickness at OD, LJ/THD rules, credit line
STANDARD	ASME B16.5 (current edition)
UNITS	INCHES
SCALE	1:2.5 (at 11x8.5 print)
DATE	22-OCT-26 (Rev A 16-OCT-26)

SOURCE AND CHECKS

Dimensions per ASME B16.5 (current edition). Checked by Texas Flange against our catalog by script, with two independent AI reviews and an in-house spot check. Methods: https://texasflange.com/spec-sheet-methods/