



UNIT OF MEASURE
in. (mm)

SCALE APPROX.
1" = 1'
25.4 mm = 304 mm

MIE 454 MAGNUM MPI HORIZON WITH VELVET DRIVE 5000A) DOWN-ANGLE TRANSMISSION

- NOTES:
- (1) Dimensions Require a 1/2 in (13MM) Clearance Due to Engine Mount Deflection.
 - (2) Select the Appropriate Exhaust Rise-Height to Maintain a Minimum of 13 in. (330mm) Between the Top of the Exhaust Elbow and the Waterline of the Boat at Maximum Rated Load.
 - (3) Exhaust Outlets Must Be Above Waterline of Boat at Maximum Rated Load, and Exhaust Flappers and Internal Shutters are Required.
 - (4) Dimensions Apply to Point of Intersection of Output Shaft Centerline and Output Flange Face.