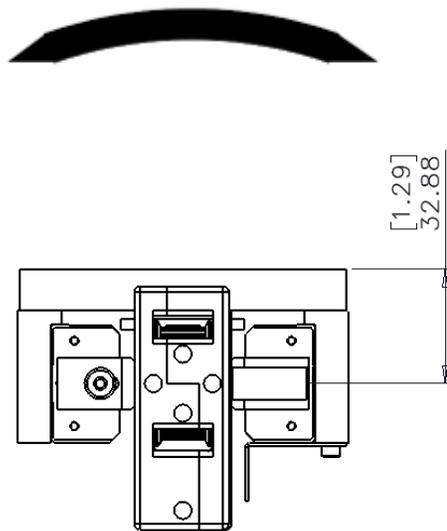
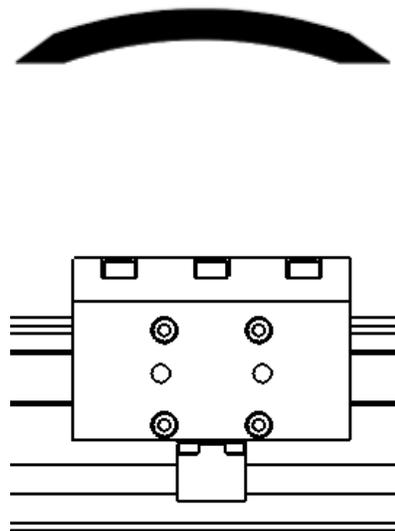


MOMENT LOADING FOR THE MSA-R5D & MAA-R5D ACTUATOR

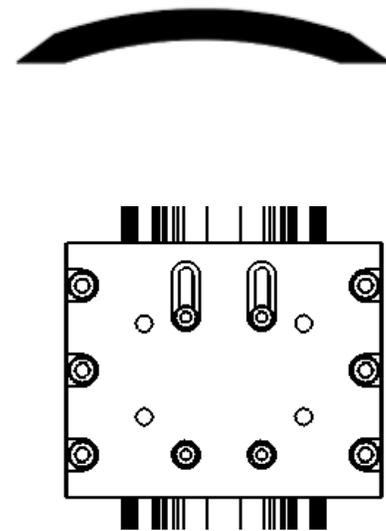
(CALCULATED FROM THE CENTERLINE OF THE GUIDE RAIL)



$M_x = 495 \text{ in-lbs}, 56 \text{ Nm}$



$M_y = 495 \text{ in-lbs}, 56 \text{ Nm}$



$M_x = 752 \text{ in-lbs}, 85 \text{ Nm}$



MACRON DYNAMICS INC