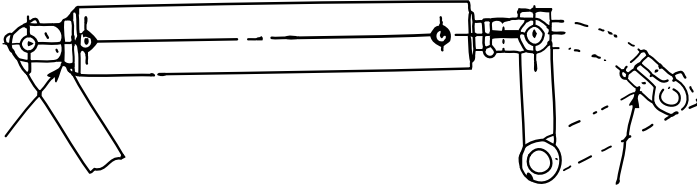
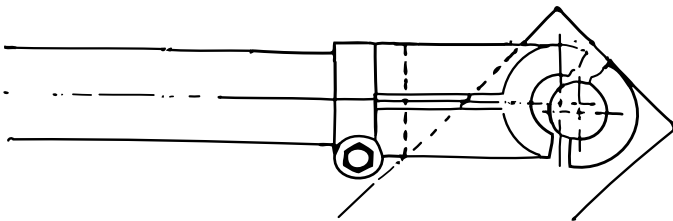


Common Causes of Cylinder Damage



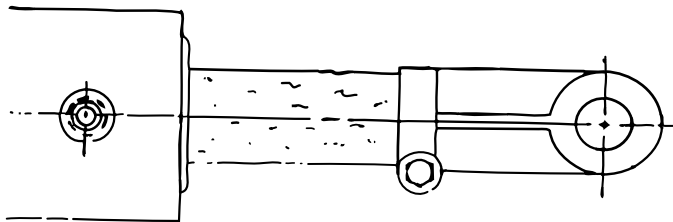
BINDING

Binding can cause a bent rod. Before operating the cylinder under pressure, make sure there is sufficient mounting bracket clearance in all positions from retracted to fully extended.



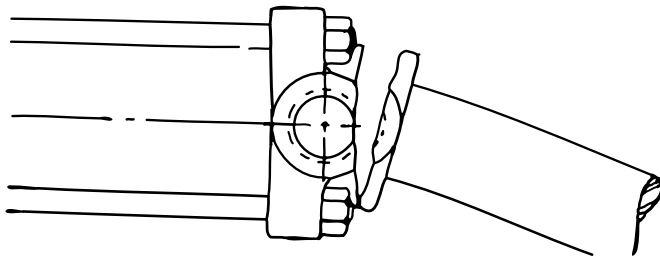
IMPROPER CLEARANCE

Improper clearance can cause broken clevis castings. Cylinder must be mounted so as to allow free movement throughout its stroke.



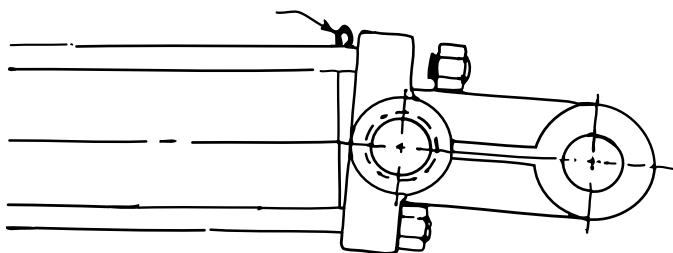
ROUGH OR SCORED ROD

Rough or scored rod will cause damage to the seals and premature leakage.



BENT PISTON ROD

Do not attempt to retract a bend rod, as it probably will cause the rod guide to crack or break.



TOO MUCH PRESSURE

Do not exceed pressure rating of cylinder. Pressure beyond rated pressure could cause tie-rods to break or stretch and allow static seal to extrude. On welded-type cylinders, the retaining ring could be forced out of its groove or various other failures could occur.