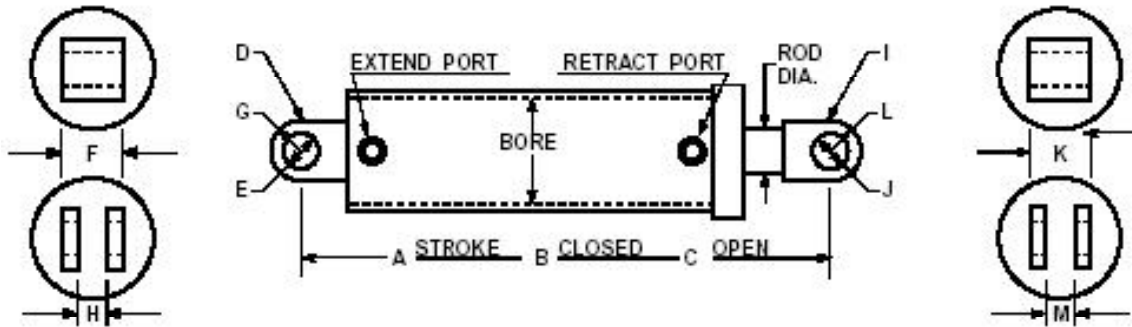


Howard's Hydraulic Piston Rod Cylinder

Date: _____



Cylinder application _____

| | |
|---|---|
| Single- or Double-acting _____ | System operating pressure Normal ____ Max. ____ |
| Bore _____ | Is there a relief valve in system ____ Setting ____ |
| Rod diameter _____ | System flow in G.P.M Min. ____ Max. ____ |
| Head & gland design _____ | System operating temp. Normal ____ Max. ____ |
| Piston design _____ | Fluid type _____ |
| Mounting conditions ____Vert. ____Horz. ____Incline angle | Load holding requirements _____ |
| Any side or eccentric loading possible _____ | Environmental condition _____ |

| | |
|---|--|
| A : Total stroke _____ | I : Plunger mount type or code _____ |
| B : Closed length _____ | J : Plunger pin diameter _____ |
| C : Open length _____ | K : Plunger mount width _____ |
| D : Base mount type or code _____ | L : Plunger mount radius _____ |
| E : Base pin diameter _____ | M : Plunger clevis gap (if applicable) _____ |
| F : Base mount width _____ | |
| G : Base mount radius _____ | |
| H Base Clevis Gap (if applicable) _____ | |

Special mounting (if applicable) _____

Extend port size and type _____ Extend port location _____

Retract port size and type _____ Retract port location _____

Special features or comments _____

| | |
|----------------------------------|---------------------|
| Requested by: Firm _____ | Current Quan. _____ |
| Address _____ | Future Quan. _____ |
| City _____ State _____ Zip _____ | |
| Phone _____ Fax _____ | |
| Contact _____ | |