**SPECIFICATIONS**

**Operating Pressure:**
- Standard: 500 to 3000 psi *
- Optional (special order): 4000 psi

**Fluid:**
Compatible with common hydraulic fluids

**Recommended viscosity range:**
- 60-450 SUS @ 100°F (10-97 cSt @ 38°C)

**Cleanliness Level:**
ISO DIS 4406 code 16/13 max., 14/11 recommended

**Operating Temperature:**
- Minimum: -20°F (-28°C)
- Maximum: +200°F (+93°C)

**Seals:**
- Fluorocarbon O-Rings
- with anti-extrusion device

**External Leakage:**
- Rod Seals: slight rod wetting

**Radial Load:**
- Maximum: 50 lbs.

**Transducer Null Adjustment:**
- ± 0.25 inch

**Orientation:**
- Any

**Cycle Life:**
- > 10⁷ cycles between seal changes

**Exterior Materials:**
- Aluminum Alloy (chromic acid anodized)
- Alloy Steel (zinc or chrome plated; black oxide treated)
- Stainless Steel

The Moog A085 Series Servoactuators combine high performance cylinders, linear feedback devices and servovalves in one assembly. These servoactuators have been specifically developed to offer the advantages of custom engineered units designed for industrial applications without the costs or delays that can accompany a custom designed unit.

The choice of servovalves, feedback transducers, working areas and strokes available will accommodate most control requirements. Maximum compatibility with other Moog components such as electronics and special function manifolds.

The benefits of the A085 Series include totally assembled and self contained units that are 100% tested before shipment. Minimized plumbing and fixturing as well as case drain for zero rod leakage.

**STANDARD OPTIONS**

**Piston Areas:**
- 1.1 in², 3.4 in², 6.8 in²

**Strokes:**
- 1 in, 2 in, 4 in, 6 in

**Servovalve Selection:**
- 62 Series, 760 Series

**Selection of Cylinder Mounting:**
- Base Mount, Front or Rear Flange Mount, Front or Rear Trunnion Mount

**Optional Crossports Relief Valves (CRV)**

**Optional Cylinder Bypass Orifice (AMO)**

**Optional Pressure Transducers**

**Optional Filter for supply fluid**

**Wide Range of Flow Capacity and Dynamic Response Selection**

**Selection of LVDT or DCDT for position feedback**

**TYPICAL HYDRAULIC CIRCUIT**

**ELECTRICAL SCHEMATIC**

---

*Input polarity must be observed*
The products described herein are subject to change at any time without notice, including, but not limited to, product features, specifications, and designs.

A085 SERIES INSTALLATIONS AND MANIFOLDS

MOOG CONTROLS SERVOVALVE

1.1 in² Size

3.4 in² Size

6.8 in² Size

ACCESSORIES

Rod End Adapter:
P/N A31558
converts rod end to female 1/2-20 UN F-3 x 1.00 DP thd; adapter adds 0.50 inch to rod end length

Servovalve Mating Electrical Connector:
P/N 49054F14S5
(MS3106F14S-25)

PositionTransducer Mating Electrical Connector:
P/N 4953Z-18
(MS31168-45)

Industrial Controls Division
Moog Inc., East Aurora, NY 14052-0018
Telephone: 716/652-2000
Fax: 716/687-7910
Toll Free: 1-800-272-MOOG

CDL6340 Rev C  500-308 0405