

7065-SB

POWER ASSIST STEERING CYLINDER



Putting You In Control.

The Kobelt 7065 servo cylinder provides power-assisted steering for manual helms. When the primary pressure source is present, the 7065-SB cylinder allows power-assisted steering. When the primary pressure source is removed the cylinder defaults automatically to manual back-up mode.

Constructed in corrosion resistant materials and finishes, the 7065-SB cylinder is suited for harsh marine applications. When a single cylinder is not sufficient to provide the required rudder torque, they can be installed in a twin cylinder configuration whereby the 7065-SB would serve as a master with a 7065-B second cylinder of the same stroke.

Key Features

- LR type approved
- Constructed from corrosion resistant materials for harsh environments
- Input from helm pump and/or an electric steering pump
- Compact design
- Available in four different cylinder strokes

Specifications

7065-SBXX Servo-Cylinder

WORKING PRESSURES

- Normal: 1200 psi [82.8 bar]
- Maximum Allowable: 1500 psi [103 bar]
- Minimum Operating: 180 psi [12.4 bar]
- Minimum Pilot: 40 psi [2.8 bar]

RECOMMENDED FLUID

ISO VG32 Hydraulic oil

DISPLACEMENT

	SERVO CYLINDER	MAIN CYLINDER
7.5" Stroke:	4.4 in ³ [72 mL]	30.9 in ³ [507 mL]
10" Stroke:	5.9 in ³ [97 mL]	41.2 in ³ [676 mL]
12" Stroke:	7.1 in ³ [116 mL]	49.5 in ³ [811 mL]
16" Stroke:	9.4 in ³ [154 mL]	66.0 in ³ [1081 mL]

FORCE OUTPUT:

4810 lbf [21.4 kN]

ARTICULATION

- Rod End: +/-11°
- Base End: +/-10° (horizontal plane)
+/-15° (vertical plane)

AMBIENT TEMPERATURE 14 °F... +122 °F [-10 °C... + 50 °C]

FINISH

- Cylinders: Bare bronze & stainless steel
- Servo Manifold: Nitrided steel

Weight:

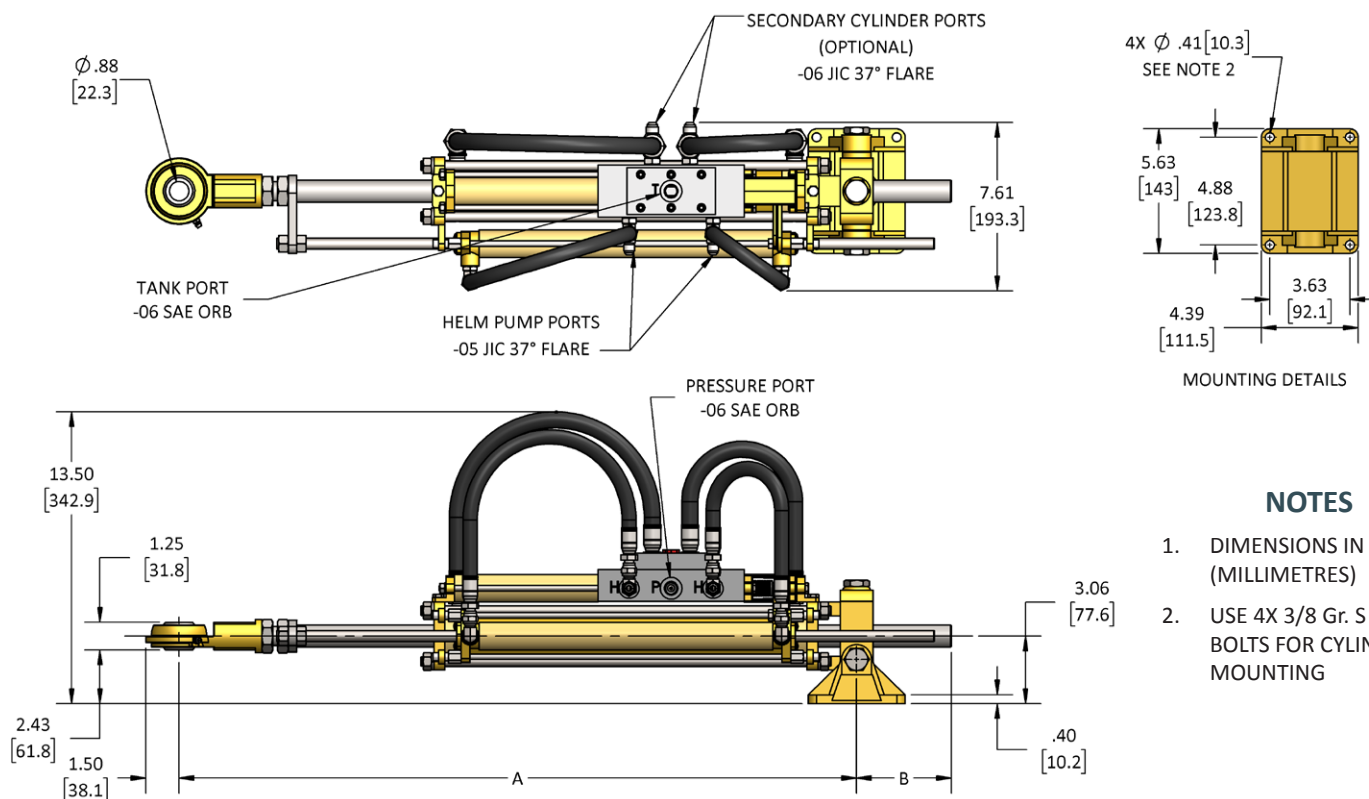
7.5" Stroke:	45 lbs. [21 kg]
10" Stroke:	49 lbs. [22 kg]
12" Stroke:	52 lbs. [23 kg]
16" Stroke:	57 lbs. [26 kg]

CYLINDER TORQUE OUTPUT

Model #	7065-SB7.5	7065-SB10	7065-SB12	7065-SB16
35° max tiller angle	2147 lbf-ft 297 kg-m	2863 lbf-ft 396 kg-m	3435 lbf-ft 475 kg-m	4580 lbf-ft 633 kg-m
45° max tiller angle	n/a	2004 lbf-ft 277 kg-m	2405 lbf-ft 333 kg-m	3207 lbf-ft 443 kg-m

SPECIFICATIONS

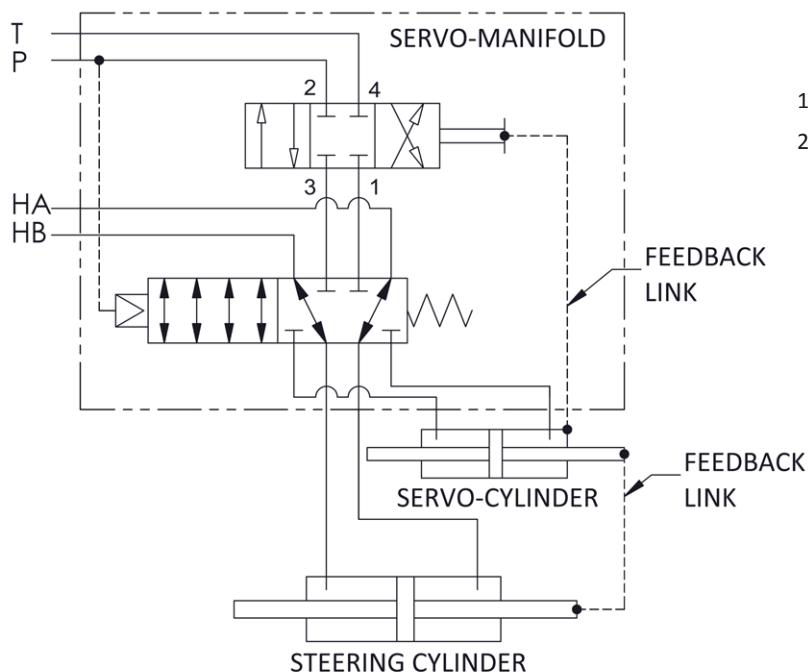
GENERAL ARRANGEMENT



NOTES

1. DIMENSIONS IN INCHES (MILLIMETRES)
2. USE 4X 3/8 Gr. S BOLTS FOR CYLINDER MOUNTING

MODEL	STROKE in [mm]	A (MID-STROKE) in [mm]	B (MID-STROKE) in [mm]	WEIGHT lbs [kg]
7065-SB7.5	7.5 [190.5]	23.91 [607.3]	2.03 [51.6]	45 [21]
7065-SB10	10 [254.0]	27.66 [702.6]	3.28 [83.3]	49 [22]
7065-SB12	12 [304.8]	30.66 [778.8]	4.28 [108.7]	52 [23]
7065-SB16	16 [406.4]	36.66 [931.2]	6.28 [159.5]	57 [26]



NOTES

1. AVAILABLE ONLY IN BALANCED CONFIGURATION
2. THE FOOT MOUNTING OF 7065-SB IS DIFFERENT FROM 7065-B