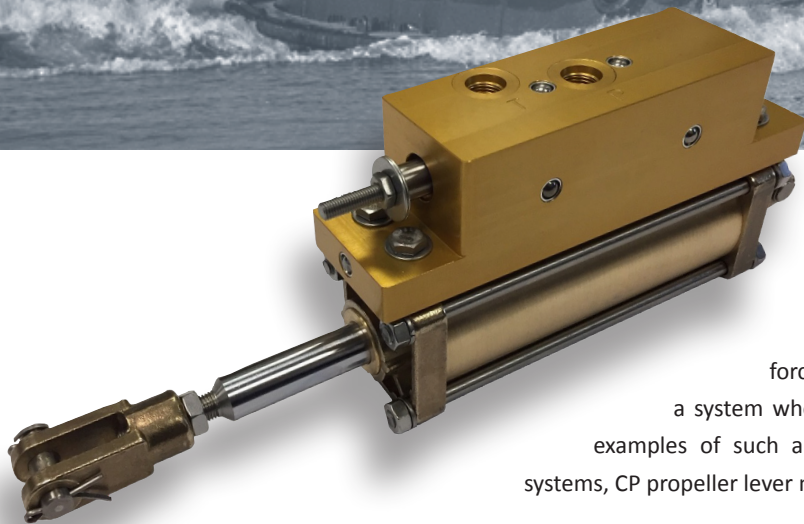


# 4605 | HYDRAULIC SERVO CYLINDER



## *Putting you in control.*

Controlled by a “Push-Pull” control, but powered by fluid, the 4605 hydraulic servo cylinder allows you to produce half a ton of force with minimal human effort. This product can be used to control a system where large forces are required, but fingertip actuation is desired; examples of such applications are controlling waterjet-reversing buckets, steering systems, CP propeller lever mechanisms, and mechanical gear boxes.

## Specifications

### Inputs:

- Max Pressure: 500 psi [35 bar]
- Force: < 5 lbf [22 N]
- Stroke: 0.62 in [15.8 mm]
- Volume
  - 4" Stroke: 9.8 in<sup>3</sup> [160 mL]
  - 6" Stroke: 14.6 in<sup>3</sup> [240 mL]
  - 8" Stroke: 19.4 in<sup>3</sup> [320 mL]

Maximum Operating Pressure: 500 psi [35 bar]

### Force Output:

- Extension: 1160 lbf [5170 N]
- Retraction: 1010 lbf [4490 N]

Ambient Temperature: -40 °F... +140 °F [-40 °C... + 60 °C]

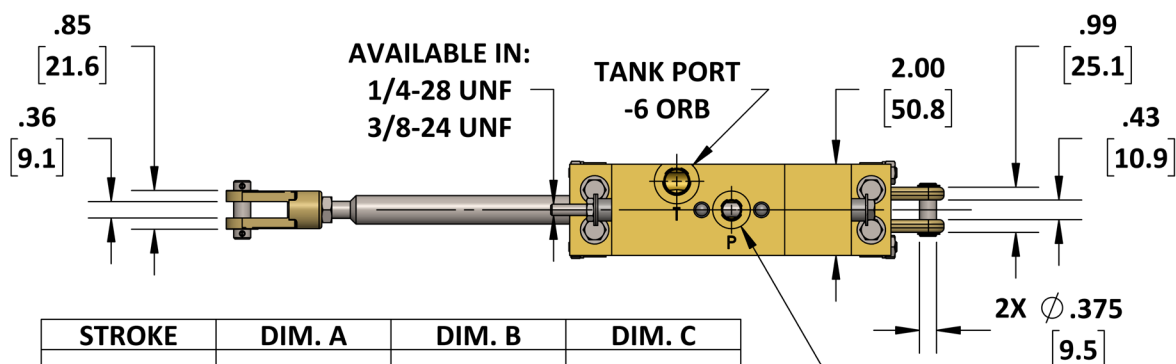
### Weight:

- 4" Stroke: 6.6 lbs [3.0 kg]
- 6" Stroke: 7.8 lbs [3.5 kg]
- 8" Stroke: 8.9 lbs [4.1 kg]

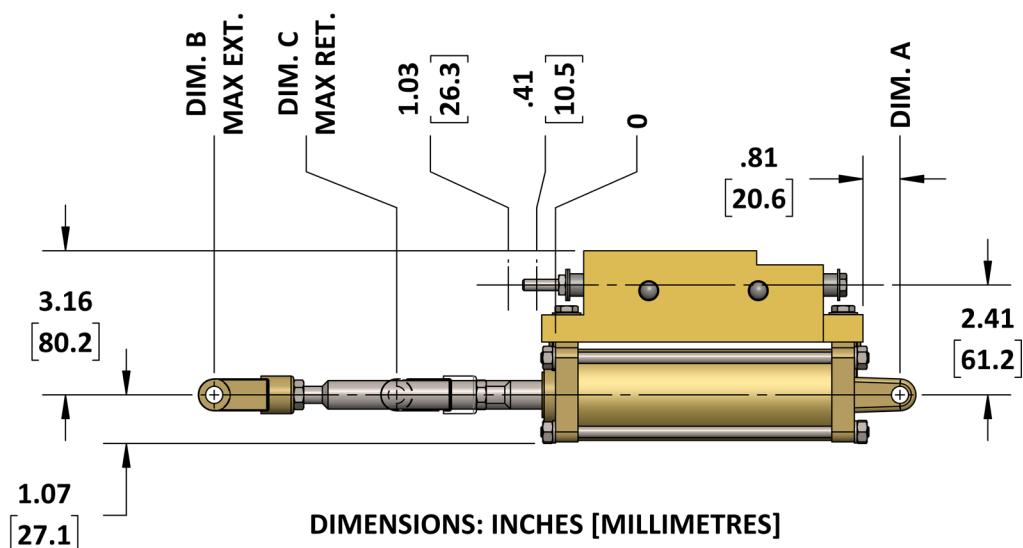
## Key Benefits

- Up to 1160 lbf [5170 N] of force output achievable at the tips of your fingers
- Stainless steel, brass, and aluminum construction provide protection against harsh environments
- Mechanical actuation (via control cable or other means)
- Compact design
- Easy to install and operate
- Available in 4, 6, and 8 inch cylinder strokes [10, 15, and 20 cm]
- Compatible with third party and Kobelt's Push-Pull controls.

# SPECIFICATIONS



| STROKE  | DIM. A        | DIM. B        | DIM. C      |
|---------|---------------|---------------|-------------|
| 4 [100] | 7.55 [191.7]  | 7.48 [190.0]  | 3.48 [88.4] |
| 6 [150] | 9.55 [242.5]  | 9.48 [240.8]  | 3.48 [88.4] |
| 8 [200] | 11.55 [293.3] | 11.48 [291.6] | 3.48 [88.4] |



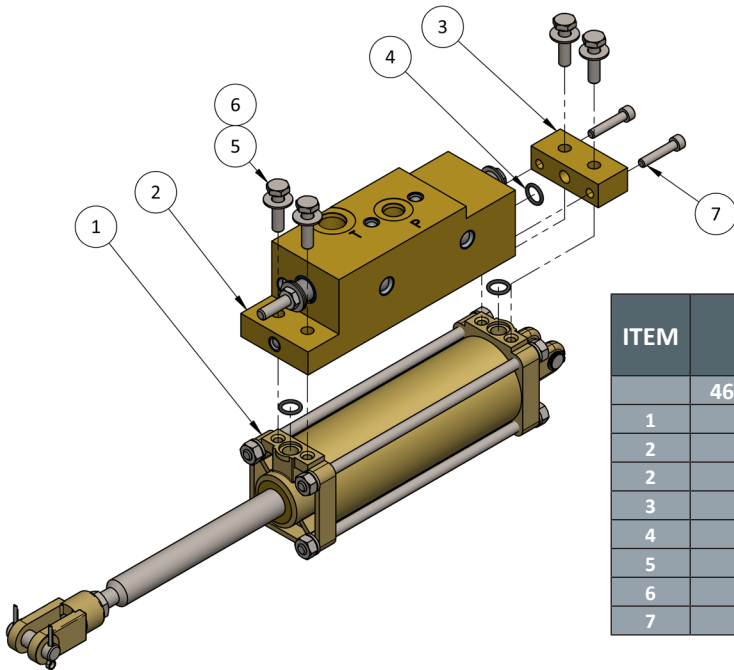
## Model Code Key

4605-□□

Valve actuation thread  
(blank) = 1/4"-28 UNF  
S = 3/8"-24 UNF

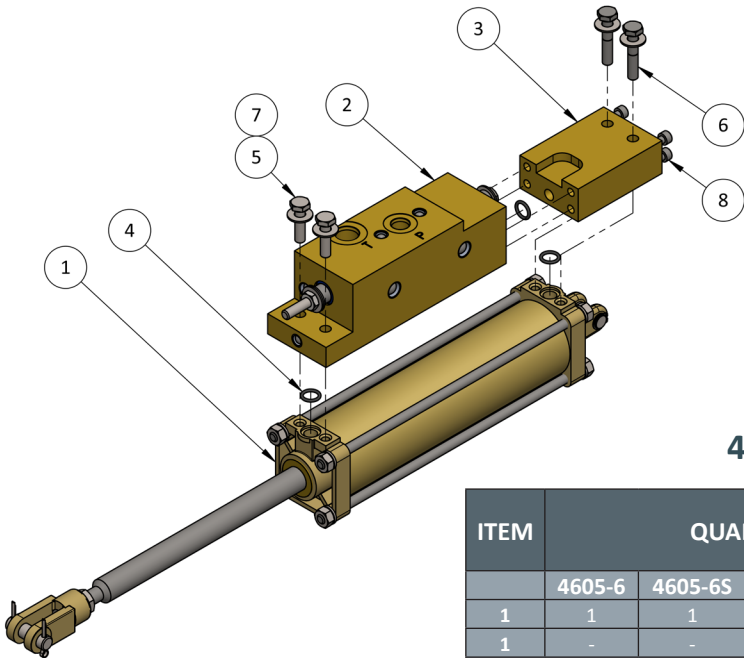
Stroke length  
4 = 4" [10 cm]  
6 = 6" [15 cm]  
8 = 8" [20 cm]

# PARTS LIST



## 4605-4 / 4605-4S

| ITEM | QUANTITY |         | PART NUMBER | DESCRIPTION                          |
|------|----------|---------|-------------|--------------------------------------|
|      | 4605-4   | 4605-4S |             |                                      |
| 1    | 1        | 1       | 4605-4-SUB  | Cylinder subassembly, 4" stroke      |
| 2    | 1        | -       | 4605-SA     | Valve subassembly, 1/4"-28 thread    |
| 2    | -        | 1       | 4605-SA-3/8 | Valve subassembly, 3/8"-24 thread    |
| 3    | 1        | 1       | 4605-0419   | Length adaptor, 4" stroke            |
| 4    | 1        | 1       | 4605-RK     | Repair kit                           |
| 5    | 4        | 4       | 1001-1016   | Screw, hex head, 1/4"-20 X 1", 18-8  |
| 6    | 4        | 4       | 1023-0110   | Washer, 1/4", 18-8                   |
| 7    | 2        | 2       | 1002-0816   | Screw, socket head, 10-24 X 1", 18-8 |



## 4605-6 / 4605-6S / 4605-8 / 4605-8S

| ITEM | QUANTITY |         |        |         | PART NUMBER | DESCRIPTION                             |
|------|----------|---------|--------|---------|-------------|-----------------------------------------|
|      | 4605-6   | 4605-6S | 4605-8 | 4605-8S |             |                                         |
| 1    | 1        | 1       | -      | -       | 4605-6-SUB  | Cylinder subassembly, 6" stroke         |
| 1    | -        | -       | 1      | 1       | 4605-8-SUB  | Cylinder subassembly, 8" stroke         |
| 2    | 1        | -       | 1      | -       | 4605-SA     | Valve subassembly, 1/4"-28 thread       |
| 2    | -        | 1       | -      | 1       | 4605-SA-3/8 | Valve subassembly, 3/8"-24 thread       |
| 3    | 1        | 1       | -      | -       | 4605-0619   | Length adaptor, 6" stroke               |
| 3    | -        | -       | 1      | 1       | 4605-0819   | Length adaptor, 8" stroke               |
| 4    | 1        | 1       | 1      | 1       | 4605-RK     | Repair kit                              |
| 5    | 2        | 2       | 2      | 2       | 1001-1016   | Screw, hex head, 1/4"-20 X 1", 18-8     |
| 6    | 2        | 2       | 2      | 2       | 1001-1022   | Screw, hex head, 1/4"-20 X 1-3/8", 18-8 |
| 7    | 4        | 4       | 4      | 4       | 1023-0110   | Washer, 1/4"                            |
| 8    | 4        | 4       | -      | -       | 1002-0848   | Screw, socket head, 10-24 X 3", 18-8    |
| 8    | -        | -       | 4      | 4       | 1002-0880   | Screw, socket head, 10-24 X 5", 18-8    |