KOBELT MANUFACTURING
COMPANY LIMITED

SPECIFICATIONS

Stroke: Input   1.75" (44 mm)
            Output 1.75" (44 mm)

Output force:
        233 lb. (105 kg) at 100 psi (6.9 bar)
        466 lb. (211 kg) at 200 psi (13.8 bar)
        699 lb. (317 kg) at 300 psi (20.7 bar)

Oil Flow:
        0.24 US gal/min (0.9 l/min) at 100 psi
        0.48 US gal/min (1.8 l/min) at 200 psi
        0.61 US gal/min (2.3 l/min) at 300 psi

Max. Operating Pressure: 350 psi (24 bar)

Max. Operating Temperature:
            250°F (120°C)

Pipe Port Size: ¼" NPT

Weight: 2.9 lb. (1.3 kg)

ORDERING INFORMATION
To order, state part number *4602.*
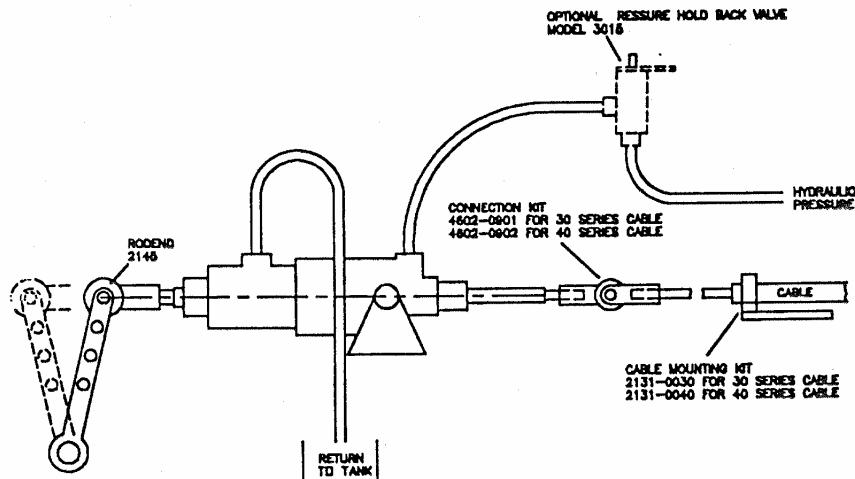To order connection kits, specify
        4602-0901 for 30 series cable;
        4602-0902 for 40 series cable.
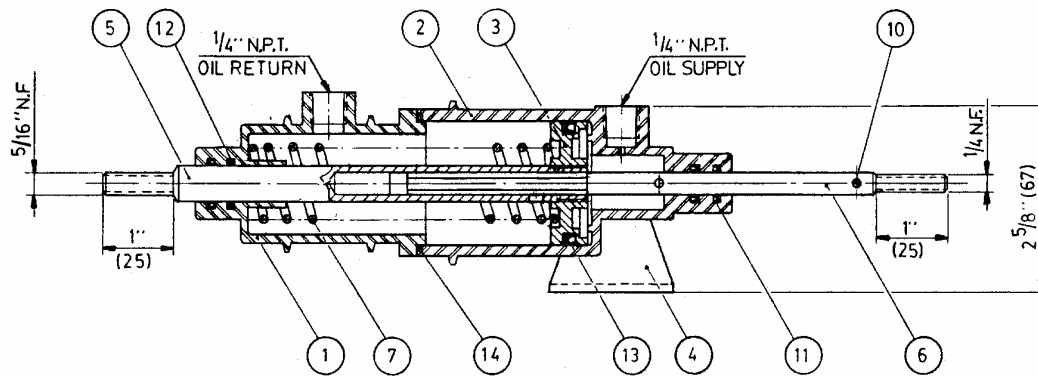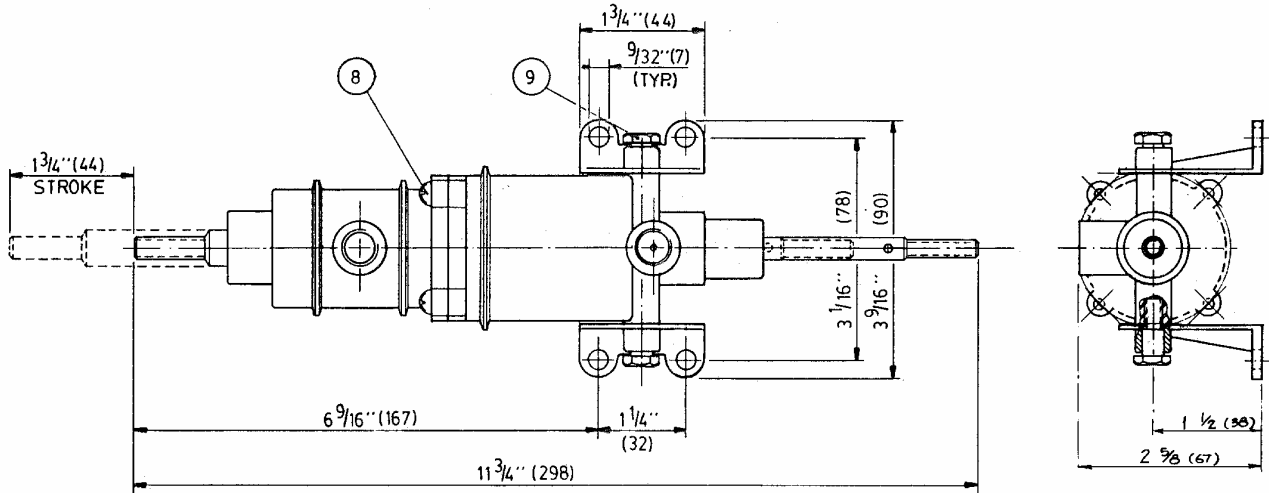
MODEL 4602
HYDRAULIC SERVO CYLINDER

Model 4602 is a very compact and non-hunting servo cylinder. It is used to control stiff throttles (mechanical governors).

Push-pull cables are not suitable for heavy workloads as they will generate a lot of friction in the system. Control over the engine speed can therefore be very difficult. The use of a servo cylinder in such applications will provide infinite and fingertip control. The output movement is absolutely proportional to the input movement.

A 4602 servo cylinder together with a 3015 pressure hold back valve can also be used as throttle delay. This is however only possible if the gear has a differential oil pressure from neutral to the engaged position. The adjustable pressure hold back valve keeps the 4602 servo cylinder inoperative until gear engagement takes place. Once gear oil is high enough to open the 3015 valve, oil is permitted to flow to the servo cylinder activating the throttle mechanism.

DIMENSIONS AND PARTS LIST
MODEL 4602

All Dimensions in inches (mm)

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	4602-0001	Front Barrel
2	1	4602-0002	Rear Barrel
3	1	4602-0003	Piston
4	2	4602-0004	Bracket
5	1	4602-0005	Piston Rod
6	1	4602-0006	Actuator Rod
7	1	1201-0137	Spring
8	4	1010-0808	Round Hd Screw
9	2	4602-0009	Shoulder Bolt
10	2	1024-0510	Spring Pin
11	2	1102-1001	"U" Cup
12	2	1102-1005	"U" Cup
13	1	1102-0052	"U" Cup
14	1	1101-0031	"O" Ring