



MODEL 7085 / 7085-S Full Power Follow-Up Cylinder

These cylinders are constructed entirely in bronze and stainless steel and are available with servo valve for full follow-up (7085-S) option or without (7085). They are also available in a balanced or unbalanced If a single cylinder is not configuration. sufficient to provide the required rudder torque, they can be installed in a twin cylinder configuration whereby one cylinder with servo would serve as a master or 2 plain cylinders can be installed where other means of control are present. The cylinder is rated at a maximum operating pressure of 1000 psi (69 bar) and is available in many stock lengths. The cylinder bore is 3-1/2" and the piston rod is 1-1/2" in diameter.

These cylinders are economically priced and will outperform any other product in the market place as far as durability and savings are concerned.

Ordering Information

7085-B	Balanced Cylinder
7085-U	Unbalanced Cylinder
7085-SB	Servo assisted Balanced
7085-SU	Servo assisted Unbalanced

7085 BALANCED CYLINDER

1000 27 (27 (1022) 012 (1021)									
Stroke	Main Cylinder Displacement *								
inches	inch³	cm³							
10	78.5	1286							
12	94.2	1543							
16	125.6	2058							
20	157	2573							

^{*} Displacement is based on one cylinder

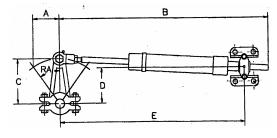
7085 UNBALANCED CYLINDER

Stroke	Main Cylinder Displacement **							
inches	inch³	cm³						
10	174.8	2864						
12	209.8	3438						
16	279.7	4583						
20	349.6	5729						
** Disabassas at is bear along two solitories.								

^{**} Displacement is based on two cylinders

7085 SERVO CYLINDER

7000 CERTO CTENTER									
Stroke	Servo Cylinder Displacement								
inches	inch³	cm³							
10	9.2	151							
12	11.0	180							
16	14.7	241							
20	18.4	302							

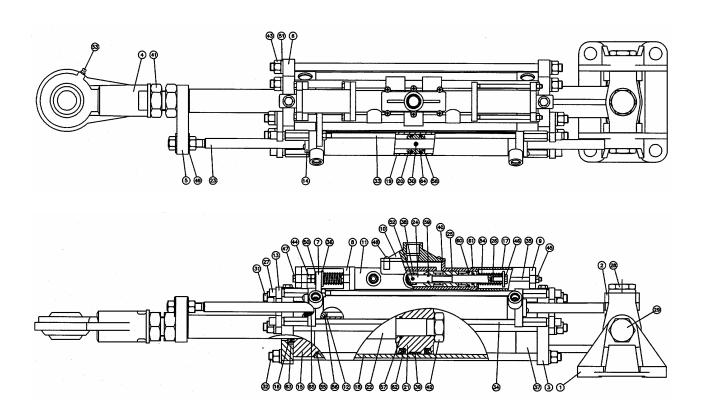


Balanced cylinder option

	STROKE TORQU					В		С		D		E	
in.	.] mm	lb-ft	kg-m	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		4580				36.0						35.9	
		5560					1016						
			1023										
20	508	9200	1272	10	254	56.0	1422	17.4	443	15.9	403	50.9	1294

Torque is based on one cylinder at 1000 psi.

DIMENSIONS AND PARTS LIST MODEL 7085 / 7085-S



ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	7085-0001	Foot	23	1	7085-0023	Servo piston rod	47	4	1001-1012	Hex Hd Mach. Screw
2	1	7085-0002	Swivel	24	1	7085-0024	Inner spool	48	10	1010-0810	Rd. Hd Philips Screw
3	1	7085-0003	End cap - swivel end	25	2	7085-0025	Outer spool	49	2	1023-0115	Washer
4	1	7085-0004	Rod end	26	2	7085-0026	Bushing	50	3	1023-0111	Washer
5	1	7085-0005	Link Arm	27	4	7085-0027	Hex nut	51	12	1023-0314	Lock washer
6	1	7085-0006	End cap	28	2	7085-0028	Hex shoulder bolt (short)	52	1	1024-0510	Spring pin
7	1	7085-0007	Servo link	29	2	7085-0029	Hex shoulder bolt (long)	53	1	1501-0301	Grease nipple
8	1	7085-0008	Spring cover	30	1	7085-0030	Servo piston pin	54	2	1201-0185	Spring
9	2	7085-0009	Servo mounting bracket	31	2	7085-0032	Main tie rod (long)	55	2	1101-0236	O-ring
10	1	7085-0010	Spool housing cover	32	4	7085-0033	Main tie rod (short)	56	2	1101-0024	O-ring
.11	1	7085-0011	Spool housing	33	1	7085-0034	Servo tie rod	57	1*	1101-0216	O-ring (U)
12	2	7085-0012	Servo end cap	34	1	7085-0035	Servo tie rod	57	1*	1101-0222	O-ring (B)
13	2	7085-0013	Bracket	35	2	7085-0036	Tie rod	58	1	1101-0016	O-ring
14	2	7085-0014	Seal cover	36	2	7085-0037	Washer	59	2	1101-0109	O-ring
15	2	7085-0015	Main shaft guide	37	1	7085-0038	Rear end cap (U)	60	2	1102-0007	U-cup
16	2	7085-0016	Seal retainer	38	1	7085-0039	Sleeve	61	2	1102-0005	U-cup
17	1	7085-0017	Spacer	39	1	7085-0041	Wear ring	62	2	1102-2037	U-cup
18	1	7085-0018	Main tube	40	1	7085-0042	Gasket	63	*	1102-2028	U-cup
19	1	7085-0019	Servo tube	41	2	1022-0273	Hex jam nut	64	2	1102-0018	U-cup
20	1	7085-0020	Servo piston	42	1*	1022-0270	Hex jam nut (U)	65	2	1102-2006-H	U-cup
21	1*	7085-0021	Main piston (B)	43	14	1022-0164	Hex nut	†	1*	7085-0031	Main piston pin (B)
21	1*	7085-0121	Main piston (U)	44	2	1022-0161	Hex nut				
22	1*	7085-0022	Main piston rod (B)	45	2	1022-0110	Hex nut		* Qu	antity may vary	with option
22	1*	7085-0122	Main piston rod (U)	46	3	1001-1112	Hex Hd. Cap Screw	† item not shown on diagram			

