

MODEL 4108 ACTUATOR POSITIONER

DESCRIPTION

The 4108 Pneumatic Positioner is used to position throttles, variable delivery pumps and innumerable items that need infinite positioning. Due to its large diaphragm area and heavy spring, the 4108 is a very powerful positioning device. It is very accurate, although the accuracy decreases proportionally to the resistance of the object to be controlled. The output lever is provided with a threaded rod which permits infinite stroke selection. This is accomplished by moving the nuts on the output lever up and down, thus changing the effective lever length. Mechanical stops are provided for a minimum and maximum pressure setting. The output linkage can be rotated at 90° increments to provide horizontal or vertical movement. The available stroke is 5/32" (4 mm) to 4-3/16" (106 mm). For smaller output movements the threaded rod can be inserted from the opposite side.

Weight: 15 lb. (6.8 kg)

Materials: Die cast silicon bronze and stainless steel hardware

Maximum Input Pressure: 200 psig (13.8 bar)

Operating Temp. Range: -40°C to +90°C

Pipe Port Size: ¼" N.P.T.



APPLICATIONS

- For accurate positioning and control of governors, throttles and valves.
- Can be used anywhere for low and medium positioning.

ORDERING INFORMATION

Model Designations:

U – 10-80 psi input pressure range

R – 0-100 psi input pressure range

Other ranges are available upon request.

The standard model 4108 is supplied as follows:

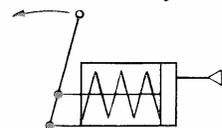
- with adjustable stops and linkage
- with 10-80 psi pressure range

To order, state model number followed by the desired Model Designation letter codes.

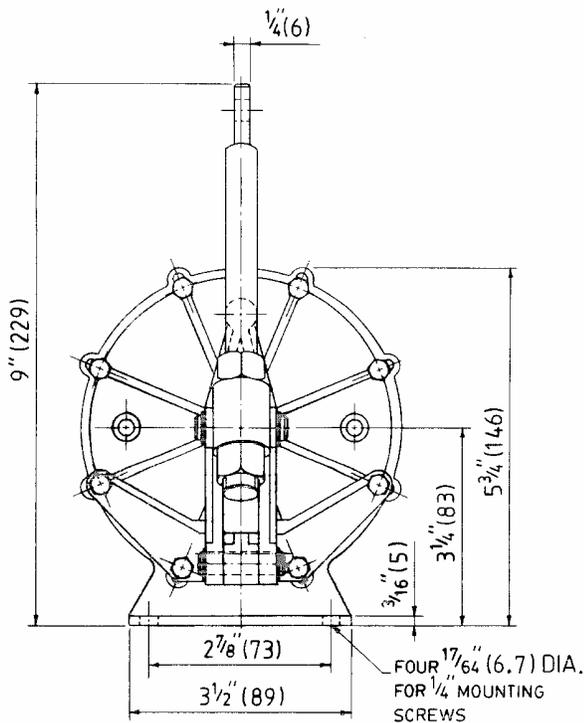
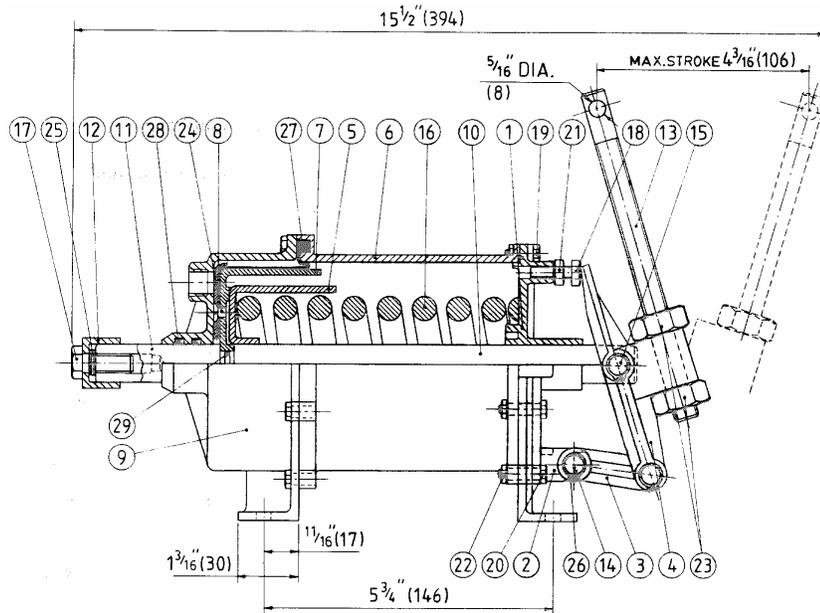
Example. Standard 4108 with 10-80 psi pressure range, order number is *4108-U*

A repair kit comprising all seals is available. Order number is 4108-RK

Schematic symbol



DIMENSIONS AND PARTS LIST MODEL 4108



Item	Quantity	Part Number	Description
1	1	4108-0001	End Cap
2	1	4108-0002	Linkage Mounting Bracket
3	1	4108-0003	Linkage
4	1	4108-0004	Output Link
5	1	4108-0007	Spring Retainer
6	1	4224-0001	Cylinder Housing
7	1	4224-0004	Piston
8	1	4224-0005	Retainer Plate
9	1	4224-0006	End Cap
10	1	4108-0008	Piston Rod
11	1	4108-0006	Piston Rod Extension
12	1	4108-0009	Stop
13	1	4108-0005	Threaded Output Rod
14	1	4108-0010	Snap Ring Pin
15	2	4108-0011	Snap Ring Pin
16	1	1201-0044	Spring 10-80 psi (black)
16	1	1201-0045	Spring 0-100 psi (blue)
17	1	1001-6216	Hex Head Screw
18	1	1001-1014	Hex Head Screw
19	12	1001-0810	Hex Head Screw
20	4	1001-0814	Hex Head Screw
21	1	1022-0210	Jam Nut
22	4	1022-0108	Nut
23	2	1022-0164	Nut
24	6	1009-0804	Flat Head Phillips Screw
25	*as reqd	1023-0242	Washer
26	6	1029-1037	Snap Ring
27	1	1104-2003	Rolling Diaphragm
28	2	1102-0007	"U" Cup
29	1	1101-0012	"O" Ring

All Dimensions in inches (mm)