Features

- Mounting versatility
- Knurled knob or Instrument quality knob
- Push-to-connect fittings available
- Series “O” input port rotates 360°
- Series “11” output port rotates 360°
- Direct gauge mount to output (System 11)

Pressure Regulators

Pneumadyne's "0" & "11" Series Pressure Regulators are used to maintain a preset downstream pressure. Relieving and non-relieving styles are available to accommodate application requirements.

To ease regulator installation, porting options include 10-32 UNF, 1/8 NPT, barbs and push-in connections. For alignment purposes, the "0" Series features a swivel input and the "11" Series features a swivel output port.

The "11" Series can be mounted on a manifold allowing the consolidation of components with varying output pressures on a common pressure source (see figure C - System 11). Pneumadyne's micro gauge can be mounted on the "11" Series regulator with an extended gauge port providing an onsite pressure indicator.

Choose from a knurled knob or an Acetal panel knob for precision adjustment. Regulator components are anodized or Electroless nickel plated for corrosion and wear resistance.

Performance Data

Temperature Range	Operating Pressure	C_V Full Open	Flow Rate (scfm) 50 psi	Flow Rate (scfm) 125 psi
-20°F to 160°F	30 psi to 125 psi	.27	9.8	22

C_V per ANSI / (NFPA) T3.21.3

Materials

Aluminum/ Black Anodize, Brass and Steel/ Electroless Nickel, Brass/ Black Dichromate, Buna-N, Stainless Steel, Acetal

Function

Relieving Regulator

Figure A - Adjustment of the control knob to a pre-determined level shifts the piston, unseating the Buna-N poppet and allowing air to flow through port 1 to port 2. When the set pressure is reached, the pressure under the piston and the force exerted by the spring are balanced producing a regulated output at port 2. A minimum of 30 psi input is required to maintain regulation.

Figure B - When downstream pressure exceeds the set level the poppet is seated -blocking input flow 1. The back pressure flows *in* output 2 lifting the Buna-N cup seal and piston allowing air to pass through the hollow stem and out the exhaust port 3.

Non-relieving Regulator

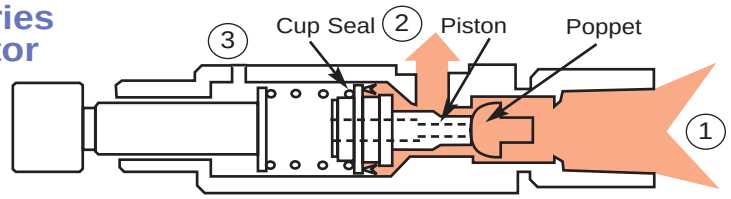
The non-relieving regulator flow path- input 1 to output 2- is the same as the relieving regulator, however the non-relieving regulator contains a solid piston that does not permit backflow at output port 2 to be exhausted.

Warning: for safety reasons non-relieving regulators are recommended for use with liquids only *and* with adequate means of downstream relief.

Regulator Cut-away

"O" Series Regulator

figure A



"11" Series Regulator

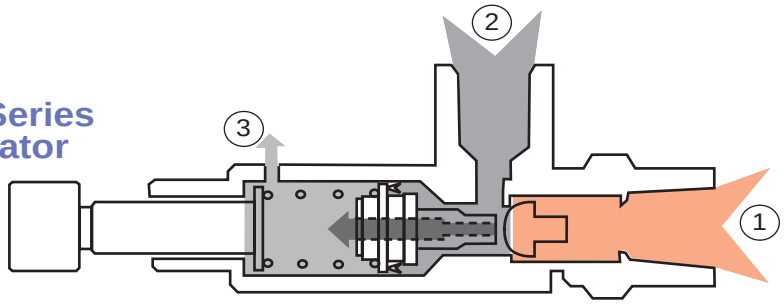
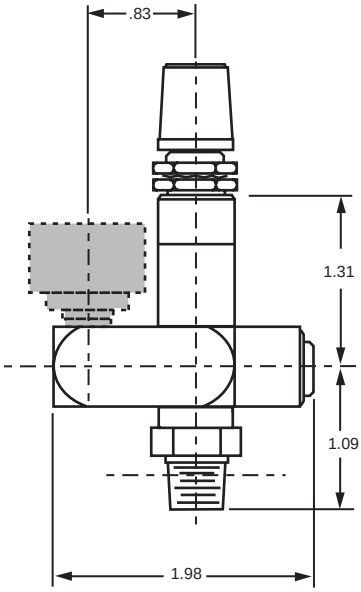


figure B *Relieving Mode*

Extended Port



The "11" Series Regulator with extended gauge port housing and micro gauge installed (to prevent damage the gauge is packaged and sold separately). *Gauge data*

Control Knob- select the knurled knob manufactured from steel or the panel knob molded from durable acetal -both are standard actuators.

Slotted adjustment screw- also available- *contact factory.*

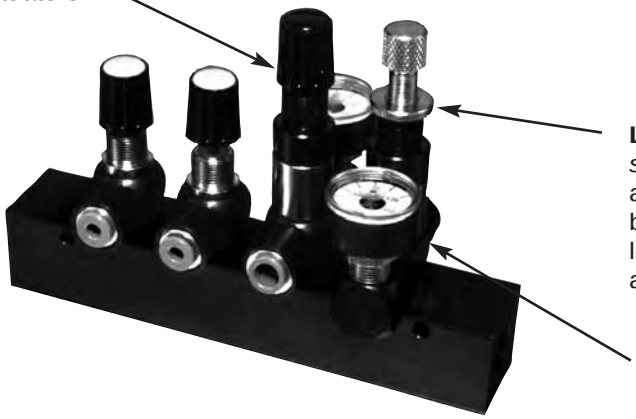


figure C

Locking Nut- RLN-40 (*sold separately*)- available to lock adjustment and eliminate possible setting variance, ideal for locations requiring infrequent adjustment.

Micro Gauge- PMG-60, PMG-160 (*sold separately*)- can be mounted on the "11" Series regulator with an extended gauge port providing an on-site pressure indicator. To order a gauge ready regulator add a "-G" suffix to the part number.

System 11- a method of consolidating 2 to 10 components with a common pressure source. Component selection includes button style valves, regulators, and needle valves. *Each System 11 is designed per order- contact factory.* *See System 11 Information*.

Product Information

"O" Series Regulators

Relieving

	Part Number	Input x Output	
Knurled Knob	RO-RK-1	1/8 NPT	10-32 (F)
	RO-RK-2	10-32 (F) Elbow	10-32 (F)
	RO-RK-3	10-32 (F) Tee	10-32 (F)
	RO-RK-4	1/8 NPT (F)	10-32 (F)
	RO-RK-5	170 Barb	10-32 (F)
	RO-RK-6	1/4 Push-in	10-32 (F)
	RO-RK-7	5/32 Push-in	10-32 (F)
Panel Knob	RO-RP-1	1/8 NPT	10-32 (F)
	RO-RP-2	10-32 (F) Elbow	10-32 (F)
	RO-RP-3	10-32 (F) Tee	10-32 (F)
	RO-RP-4	1/8 NPT (F)	10-32 (F)
	RO-RP-5	170 Barb	10-32 (F)
	RO-RP-6	1/4 Push-in	10-32 (F)
	RO-RP-7	5/32 Push-in	10-32 (F)

Non-Relieving

Knurled Knob	RO-NK-1	1/8 NPT	10-32 (F)
	RO-NK-2	10-32 (F) Elbow	10-32 (F)
	RO-NK-3	10-32 (F) Tee	10-32 (F)
	RO-NK-4	1/8 NPT (F)	10-32 (F)
	RO-NK-5	170 Barb	10-32 (F)
	RO-NK-6	1/4 Push-in	10-32 (F)
	RO-NK-7	5/32 Push-in	10-32 (F)
Panel Knob	RO-NP-1	1/8 NPT	10-32 (F)
	RO-NP-2	10-32 (F) Elbow	10-32 (F)
	RO-NP-3	10-32 (F) Tee	10-32 (F)
	RO-NP-4	1/8 NPT (F)	10-32 (F)
	RO-NP-5	170 Barb	10-32 (F)
	RO-NP-6	1/4 Push-in	10-32 (F)
	RO-NP-7	5/32 Push-in	10-32 (F)

Accessories

RLN-40	Locking Nut
PMG-100	Micro Gauge 0-100 psi
PMG-160	Micro Gauge 0-160 psi
PMG-60	Micro Gauge 0-60 psi

Ordering Information

- To order Pressure Regulators use the Product Information listing to select part number.
- To order a gauge ready regulator, add a -G suffix to the part number.

Product Number Diagram:

"O" & "11" Series Regulators

R 1 1 - R K - 1 4

Model
R= Regulator

Series
O= "O" Series
11= "11" Series

Function
R= Relieving
N= Non-relieving

Actuator Style
K= Knurled Knob
P= Panel Knob

"O" Series Input
1= 1/8 NPT / 10-32 (F)
2= 10-32 (F) Elbow
3= 10-32 (F) Tee
4= 1/8 NPT (F)
5= 170 Barb*
6= 1/4 Push-in
7= 5/32 Push-in

*** "O" Series Output**
10-32 (F) ONLY
no designation

"11" Series Output
4= 1/8 NPT (F)
6= 1/4 Push-in
7= 5/32 Push-in

"11" Series Input
1= 1/8 NPT / 10-32 (F)
4= 1/8 NPT (F)
6= 1/4 Push-in
7= 5/32 Push-in

Example:
Regulator"11" Series , Relieving with Knurled Knob, 1/8 NPT /10-32 (F) Input x 1/8 NPT (F) Output

*170 barb- recommended for use with .170 ID PUR or .170 ID PE tubing

"11" Series Regulators

Relieving

	Part Number	Input x Output	
Knurled Knob	R11-RK-14	1/8 NPT	1/8 NPT (F)
	R11-RK-16		1/4 Push-in
	R11-RK-17		5-32 Push-in
	R11-RK-44	1/8 NPT (F)	1/8 NPT (F)
	R11-RK-46		1/4 Push-in
	R11-RK-47		5-32 Push-in
	R11-RK-64	1/4 Push-in	1/8 NPT (F)
	R11-RK-66		1/4 Push-in
	R11-RK-67		5-32 Push-in
	R11-RK-74	5/32 Push-in	1/8 NPT (F)
	R11-RK-76		1/4 Push-in
	R11-RK-77		5-32 Push-in
Panel Knob	R11-RP-14	1/8 NPT	1/8 NPT (F)
	R11-RP-16		1/4 Push-in
	R11-RP-17		5-32 Push-in
	R11-RP-44	1/8 NPT (F)	1/8 NPT (F)
	R11-RP-46		1/4 Push-in
	R11-RP-47		5-32 Push-in
	R11-RP-64	1/4 Push-in	1/8 NPT (F)
	R11-RP-66		1/4 Push-in
	R11-RP-67		5-32 Push-in
	R11-RP-74	5/32 Push-in	1/8 NPT (F)
	R11-RP-76		1/4 Push-in
	R11-RP-77		5-32 Push-in

"11" Series Regulators

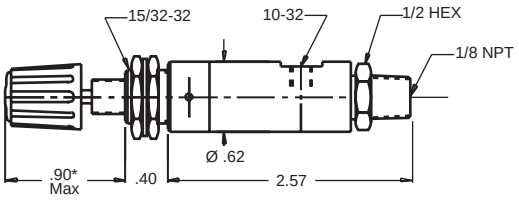
Non-Relieving

	Part Number	Input x Output	
Knurled Knob	R11-NK-14	1/8 NPT	1/8 NPT (F)
	R11-NK-16		1/4 Push-in
	R11-NK-17		5-32 Push-in
	R11-NK-44	1/8 NPT (F)	1/8 NPT (F)
	R11-NK-46		1/4 Push-in
	R11-NK-47		5-32 Push-in
	R11-NK-64	1/4 Push-in	1/8 NPT (F)
	R11-NK-66		1/4 Push-in
	R11-NK-67		5-32 Push-in
	R11-NK-74	5/32 Push-in	1/8 NPT (F)
	R11-NK-76		1/4 Push-in
	R11-NK-77		5-32 Push-in
Panel Knob	R11-NP-14	1/8 NPT	1/8 NPT (F)
	R11-NP-16		1/4 Push-in
	R11-NP-17		5-32 Push-in
	R11-NP-44	1/8 NPT (F)	1/8 NPT (F)
	R11-NP-46		1/4 Push-in
	R11-NP-47		5-32 Push-in
	R11-NP-64	1/4 Push-in	1/8 NPT (F)
	R11-NP-66		1/4 Push-in
	R11-NP-67		5-32 Push-in
	R11-NP-74	5/32 Push-in	1/8 NPT (F)
	R11-NP-76		1/4 Push-in
	R11-NP-77		5-32 Push-in

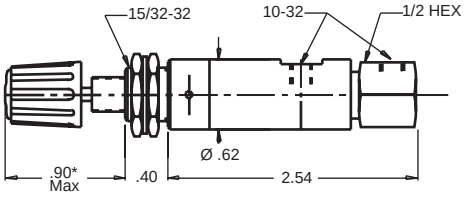
Custom Products: Contact factory for applications requiring 1/8 NPT male or 1/4 NPT male output port

"O" Series

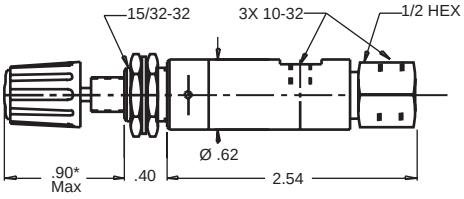
Shown with Panel Knob



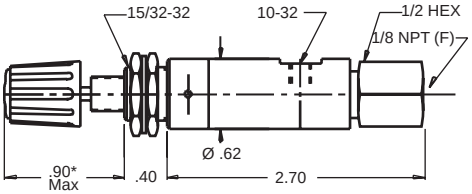
"-1" Input



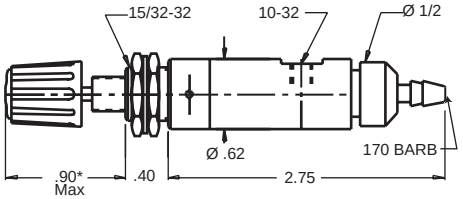
"-2" Input



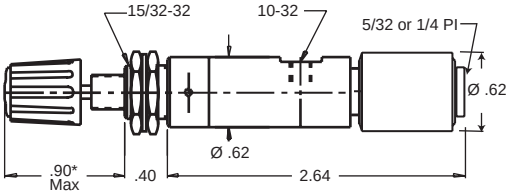
"-3" Input



"-4" Input



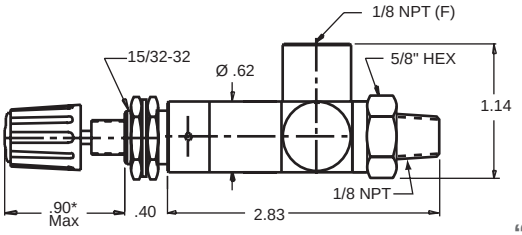
"-5" Input



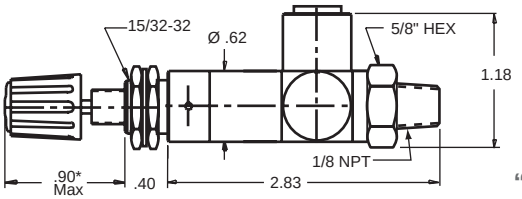
"-6" Input
"-7" Input

"11" Series

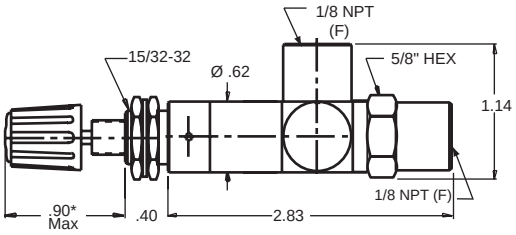
Shown with Panel Knob



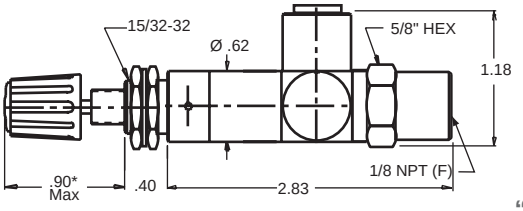
"-14" Porting



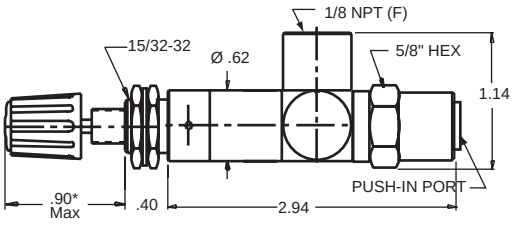
"-16" Porting
"-17" Porting



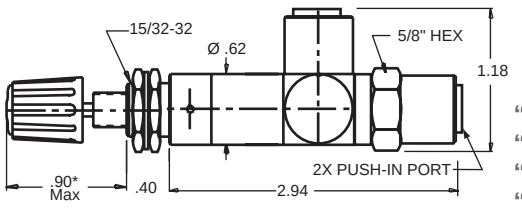
"-44" Porting



"-46" Porting
"-47" Porting



"-64" Porting
"-74" Porting



"-66" Porting
"-67" Porting
"-76" Porting
"-77" Porting

*.74 Max for knurled knob- all regulators