Pilot Operated Regulator
G3/4, G1

- **Can be installed at any point in the compressed air system without regard to accessibility. The pilot regulator can be installed in the most convenient location**
- **Accurate pressure regulation over a wide range of flows**
- **Relieving units**
- **Can be used with conventional or feedback pilot regulator**
- **Regulator and pilots are constant bleed for fast response**

Technical Data

Fluid: Compressed air only (pilot and pilot operated regulators have constant bleed)
Maximum pressure: 20 bar (290 psig)
Operating temperature: -20° to +80°C (-4° to +175°F) *

* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Approximate flow (conventional pilot) with 8 bar (120 psig) inlet pressure, 6,3 bar (90 psig) outlet pressure and pressure droop of 1 bar (15 psig) from set:
160 dm^3/s (340 scfm)

Approximate flow (feedback pilot) with 8 bar (120 psig) inlet pressure, 6,3 bar (90 psig) outlet pressure and zero pressure droop:
180 dm^3/s (380 scfm)

Gauge ports: Rc 1/8
Pilot port: Rc 1/4

Pilot Regulators

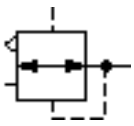
Conventional:
11 400/20AL-X
Feedback:
11-204 high flow applications and remote sensing. Can only be used in conjunction with a pilot operated regulator.

Materials:
Pilot operated regulators:
Body: Zinc
Bonnet: Aluminium
Valve: Brass
Elastomeric materials: Nitrile
Pilot regulators:
Body: Zinc
Bonnet: Zinc
Handwheel: Acetal resin
Valve: Brass
Elastomeric materials: Nitrile

Ordering Information

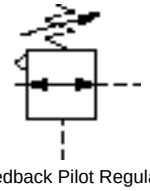
See *Ordering Information* on the following pages.

ISO Symbols



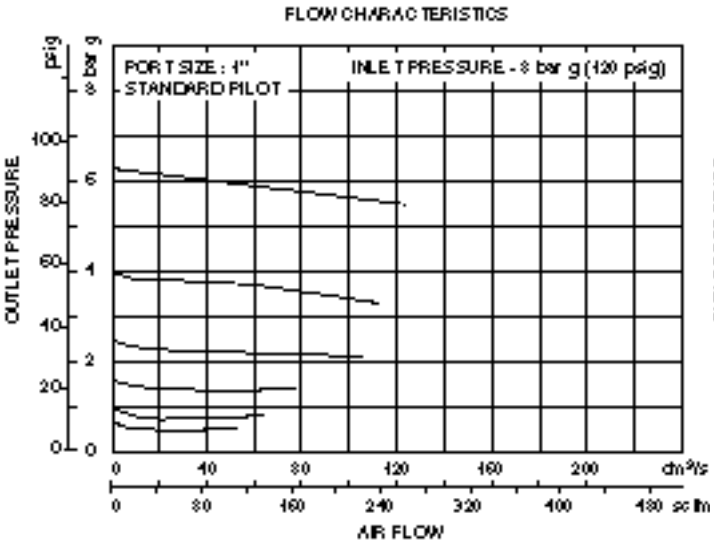
Pilot Operated Regulator

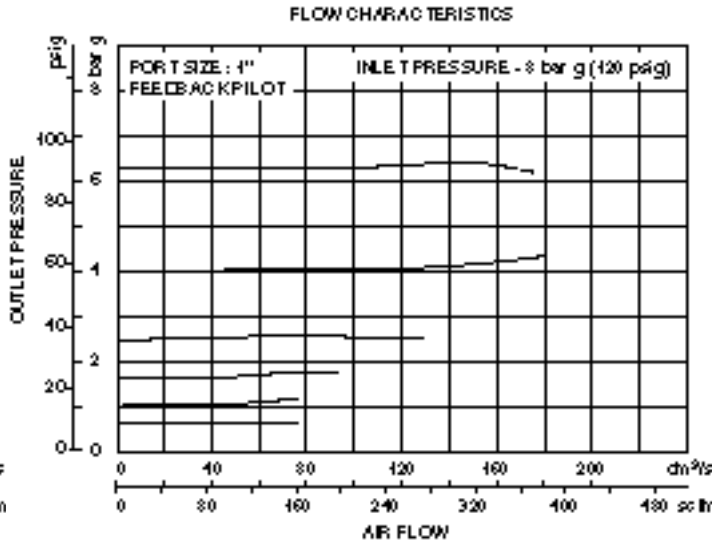
Conventional Pilot Regulator



Feedback Pilot Regulator

Typical Performance Characteristics





Ordering Information. Models listed include ISO G threads, without gauge.

Pilot Operated Regulators

Port Size	Model Number	Weight kg (lbs)
G3/4	11-808-960	2,20 (4.89)
G1	11-808-980	2,06 (4.58)

Alternative Models

1 1 - ★ 0 8 - 9 ★ 0

Threads	Substitute
PTF	0
ISO G parallel	8
ISO G Rc	9

Port Size	Substitute
3/4"	6
1"	8

Conventional Pilot Regulator – 11 400/20AL-X series

Port Size	Model Number	Range bar (psig)	Weight kg (lbs)
G1/4	11 400-2G (2 bar)	0,06 to 2 (1 to 30)	0,90 (1.98)
G1/4	11 400-2G (4 bar)	0,06 to 4 (1 to 60)	0,94 (2.07)
G1/4	11 400-2G (7 bar)	0,16 to 7 (2 to 100)	1,00 (2.2)
G1/4	20AL-X2G	7 to 20 (100 to 300)	1,05 (2.3)

Conventional Pilot Regulator – 11-204 series

Port Size	Model Number	Range bar (psig)	Weight kg (lbs)
G1/4	11-204-004	0,16 to 7 (2 to 100)	1,10 (2.42)
G1/4	11-204-006	4 to 17 (60 to 250)	1,10 (2.42)

Contact Technical Sales for other thread forms.

Accessories

11-808
Wall Mounting Bracket

18-001-027

All Pilots
Wall Mounting Bracket

18-001-005

Panel Mount Kit - pilot only
(includes threaded bonnet)

11 400 series: 18-003-999
20AL-X series: 18-003-026
(not needed for 11-204 series)

∅ 50 mm Pressure Gauge

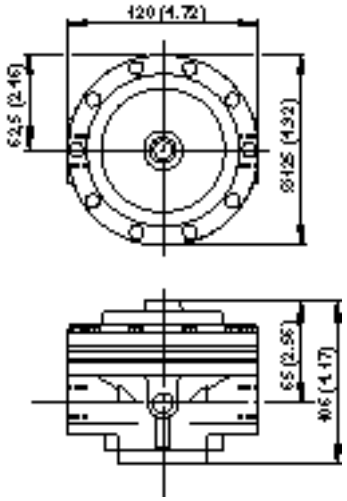
	R1/8 Connection
1,6 bar g (23 psig)	18-013-010
4 bar g (60 psig)	18-013-011
6 bar g (90 psig)	18-013-012
10 bar g (150 psig)	18-013-013
25 bar g (350 psig)	18-013-014

Dimensions mm (inches)

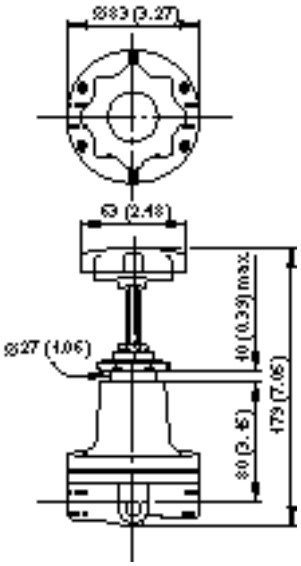
Panel mounting hole diameter (pilot only): 28 mm (1.10″)

Panel thickness: 5 to 10 mm (0.2″ to 0.4″)

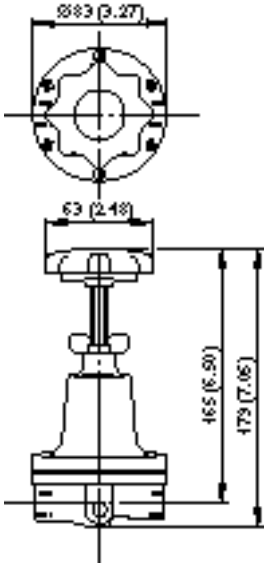
11-808 pilot operated regulator



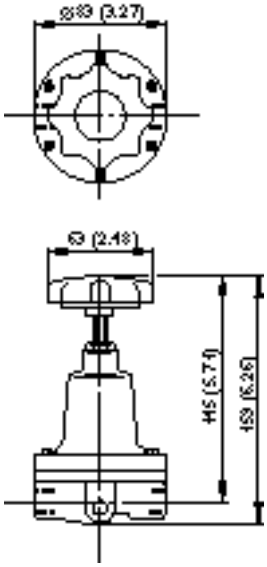
11-204 pilot regulator
(includes panel mounting nut)



11 400 pilot regulator
(panel mounting dimensions as 11-204. See accesories)

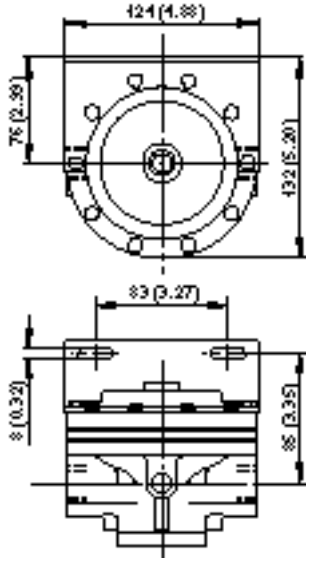


20AL-X pilot regulator
(panel mounting dimensions as 11-204. See accesories)



Bracket Mounting

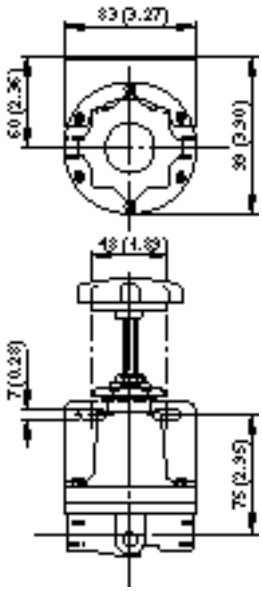
11-808



Bracket Kit Reference

Item	Part Number
11-808	18-001-027
All pilots	18-001-005

Pilot regulators



Service Kits

Type	Part number
11-808	11-908-100
11 400-20AL-X	11 400-100
11-204	11-204-100

Service kit includes: diaphragm assemblies, valve assembly, valve spring o-rings and valve seats for pilots.

Schematic Connection Diagrams

Fig. 1
CONVENTIONAL

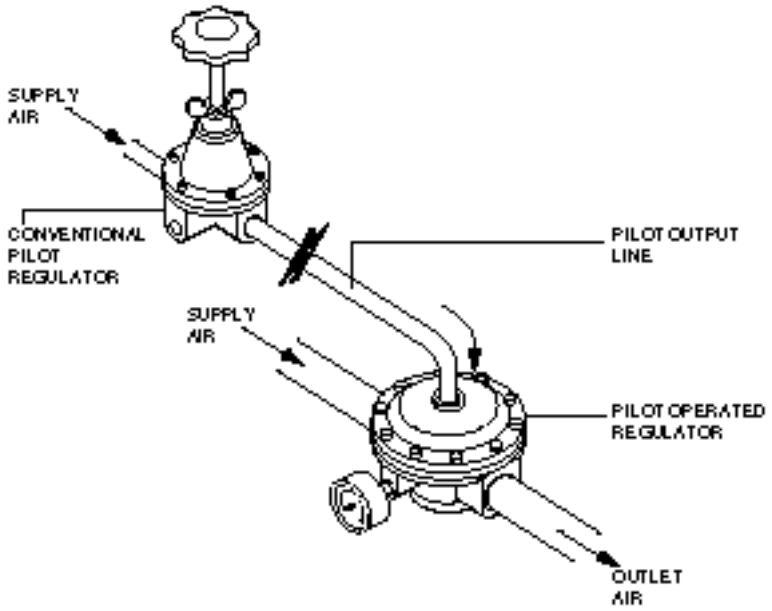
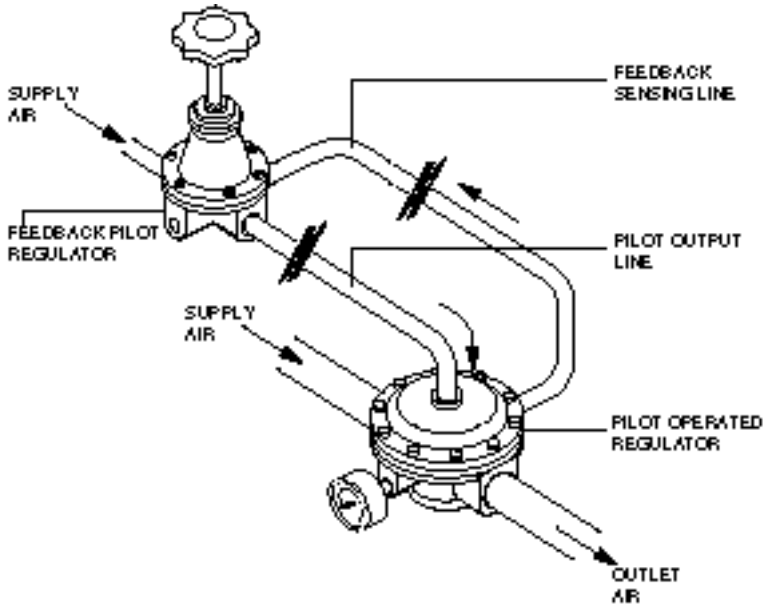


Fig. 2
FEEDBACK



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **'Technical Data'**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Water vapor will pass through these units and will condense into liquid if air temperature drops in the downstream system. Install an air dryer if water condensation could have a detrimental effect on the application.