

1-800-GRAINGER (472-4643)



Function Fittings

▪ Metric valves have BSPP threads
Compact push-to-connect flow valves help ensure excellent performance of flow and are perfectly suited for reduced spaces. Nylon and nickel-plated brass construction, except where noted. Polypropylene push button and Buna nitrile elastomer seals for leak-free connections. For use with polyurethane, polyethylene, or PTFE tubing.

FLOW CONTROLS

Compact

- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Adjustment screw controls airflow, while locking nut protects the flow setting from being changed due to tampering or vibration.

Swivel

- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Allow access to vertical or angled tubing in restrictive installations.

In-Line

- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Unidirectional airflow allows air to flow freely in through the flow control; metered out through the adjustment screw.

Miniature

- Pressure range: 14.5 to 145 psi
- Temp. range: 30° to 158°F

Specially designed for use with small-bore cylinders in very small pneumatic applications.

LOCKOUT VALVES

- Pressure range: 14.5 to 145 psi
- Temp. range: -4° to 160°F

Mount on a cylinder to cut off both supply and exhaust. Designed for maximum flow capacity in the open position. Brass material.

MINI BALL VALVES

- Max. range: 145 psi
- Temp. range: -4° to 176°F

Enable in-line pneumatic circuiting and closing.

PILOTED NONRETURN VALVES

- Pressure range: 14.5 to 145 psi
- Temp. range: 23° to 140°F

Help protect equipment by blocking cylinder movement in a vertical or horizontal position. Valves allow the cylinder to stop in mid-stroke.

PNEUMATIC THRESHOLD SENSORS

- Pressure range: 43.5 to 116 psi
- Back pressure: 0.85 psi to 1 Bar
- Temp. range: 5° to 140°F

Detect the absence of pressure and translate it to a pneumatic output which emits a signal to pilot the next step. Sensors are compact and can be mounted on a cylinder or control valve on any pneumatic equipment to control the operation of the cylinder.

METER IN CHECK VALVES

- Pressure range: 14.5 to 145 psi
- Temp. range: 32° to 158°F

Valves are compact, lightweight, and allow air to pass in 1 direction while blocking air flow in the other. 7 psi will overcome the spring pressure.

QUICK EXHAUST VALVES

- Pressure range: 10 to 150 psi
- Temp. range: 0° to 160°F

Help increase system efficiency and the cylinder speed by purging cylinder exhaust air at the cylinder port instead of at the control valve.

Looking for High-Pressure Fittings and Couplers

For more Pneumatic Tubing, see page 2621. Additional tubing products are available on Grainger.com®.



	Tube Size	Pipe Size	Item No.
Flow Controls, Compact, Meter Out			
BSPP x Tube			
	4mm	1/8"	1PFX1
	6mm	1/8"	1PFX2
	6mm	3/4"	1PFX3
	8mm	3/8"	1PFX4
	8mm	1/4"	1PFX5
	10mm	1/4"	1PFX6
	10mm	3/8"	1PFX7
BSPT x Tube			
	6mm	1/8"	19G982
	8mm	1/8"	19G983
	8mm	1/4"	19G984
	10mm	1/4"	19G985
	10mm	3/8"	19G986
	10mm	1/2"	19G987
	12mm	1/4"	19G988
	12mm	3/8"	19G989
	12mm	1/2"	19G990
MNPT x Tube			
	5/32"	1/8"	1PFX8
	5/32"	1/4"	1PFX9
	1/4"	1/8"	1PFY1
	1/4"	1/4"	1PFY2
	3/8"	1/4"	1PFY3
	3/8"	3/8"	1PFY4
Flow Controls, Compact, Knobless, Meter Out			
BSPP x Tube			
	4mm	1/8"	1DFB4
	6mm	1/8"	1DFB7
	6mm	1/4"	1DFB8
	8mm	1/8"	1DFC1
	8mm	1/4"	1DFC2
	8mm	3/8"	1DFN1
	10mm	1/4"	1DFN2
	10mm	3/8"	1DFN3
	10mm	1/2"	1DFN4
	12mm	3/8"	1DFN5
	12mm	1/2"	1DFN6
Metric Threads x Tube			
	4mm	M5	1DFB5
	6mm	M5	1DFB9
MNPT x Tube			
	1/8"	1/8"	1DDW9
	5/32"	1/8"	1DDW6
	1/4"	1/8"	1DDX1
	1/4"	1/4"	1DDX2
	5/16"	1/8"	1DDW7
	3/16"	1/4"	1DDW8
	3/8"	1/4"	1DDX3
	3/8"	3/8"	1DDX4
Tube x UNF			
	1/8"	10-32	1DDW4
	5/32"	10-32	1DFB6
	1/4"	10-32	1DDW5
Flow Controls, Swivel, Meter Out			
BSPP x Tube			
	6mm	1/8"	1DFN7
	6mm	1/4"	1DFN8
	8mm	1/8"	1DFN9
	8mm	1/4"	1DFP1
	8mm	3/8"	1DFP2
	10mm	1/4"	1DFP3
	12mm	3/8"	1DFP5
MNPT x Tube			
	1/4"	1/8"	1DDX5
	1/4"	1/4"	1DDX6
	3/8"	1/4"	1DDX7
	3/8"	3/8"	1DDX8
Flow Controls, In-Line, One Way			
Tube			
	5/32"	—	1PFZ7
	1/4"	—	1PFZ8
	3/8"	—	1PFZ9
	1/2"	—	1PGB1
	6mm	—	1DFP7
	8mm	—	1DFP8
	10mm	—	1DFP9
	12mm	—	1DFR1

	Tube Size	Pipe Size	Item No.
Flow Controls, Miniature, Control Flow Meter Out			
BSPP x Tube			
	6mm	1/8"	1PFY7
	8mm	1/4"	1PFY9
	8mm	3/8"	1PFZ1
BSPT x Tube			
	4mm	1/8"	19G991
	6mm	1/8"	19G992
	6mm	1/4"	19G993
	6mm	3/8"	19G994
	8mm	1/8"	19G995
	8mm	1/4"	19G996
	8mm	3/8"	19G997
MNPT x Tube			
	1/8"	1/8"	1PFZ4
	5/32"	1/8"	1PFZ3
	1/4"	1/8"	1PFZ5
	1/4"	1/4"	1PFZ6
	4mm	M5 x 0.8	1PFY5
	6mm	M5 x 0.8	1PFY8
Tube x UNF			
	1/4"	10-32	1PFZ2
	4mm	10-32	1PFY6
Lockout Valves			
BSPP x Tube			
	8mm	1/4"	1DFL5
	10mm	3/8"	1DFL7
NPT			
	—	1/8"	19G998
	—	1/4"	19G999
	—	1/2"	19H002
NPT x Tube			
	1/4"	1/8"	1DDY8
	1/4"	1/4"	1DDY9
	3/8"	3/8"	1DDZ1
	1/2"	1/2"	1DDZ2
Mini Ball Valve - In-Line			
Tube			
	3/8 in	—	1PGB2
Mini Ball Valves With Vent			
MNPT x Tube			
	1/4 in	1/8 in	1PGB5
	1/4 in	1/4 in	1PGB6
	3/8 in	1/4 in	1PGB7
Mini Ball Valves With Vent - In-Line			
Tube			
	1/4 in	—	1PGB3
	3/8 in	—	1PGB4
Piloted Non Return Valves			
BSPP x Tube			
	6mm	1/4"	19H024
	8mm	1/8"	19H025
	8mm	3/8"	19H027
	10mm	3/8"	19H028
	10mm	1/2"	19H029
	12mm	1/2"	19H030
Piloted Non Return Valves with Flow Regulator			
BSPP x Tube			
	6mm	1/8"	19H031
	6mm	1/4"	19H032
	8mm	3/8"	19H035
	10mm	3/8"	19H036
	10mm	1/2"	19H037
	12mm	1/2"	19H038
Pneumatic Threshold Sensors			
NPT x Tube			
	5/32" or 4mm	1/8"	19H011
	5/32" or 4mm	1/4"	19H012
	5/32" or 4mm	3/8"	19H013
	5/32" or 4mm	1/2"	19H014
Quick Exhaust Valves			
Pipe Size Connection Item No.			
	1/4"	NPT x Tube	19H015
	1/4"	NPT x Tube	19H016
	3/8"	NPT x Tube	19H017
	1/2"	NPT x Tube	19H018