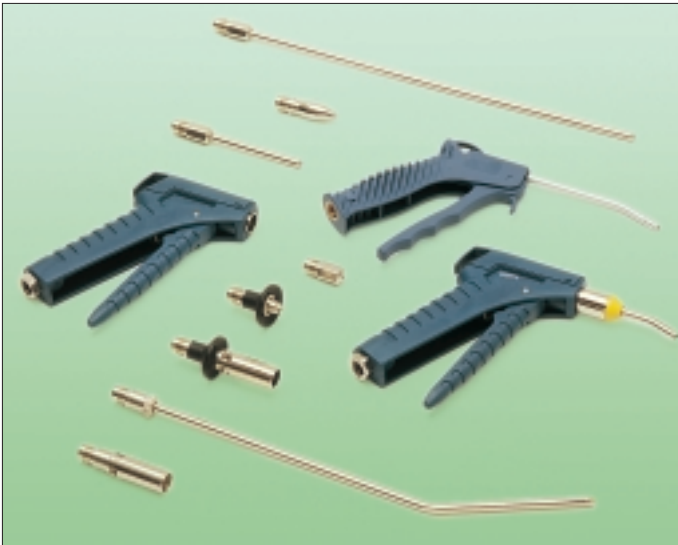


# universal blowguns



# principle of universal blowguns



This state of the art range of Legris blowguns fulfills the demanding requirements of industrial users. The design is a pleasing balance of technical performance, ergonomic features and aesthetic appearance.

Legris blowguns combine a progressive trigger action with a powerful and quiet air jet.

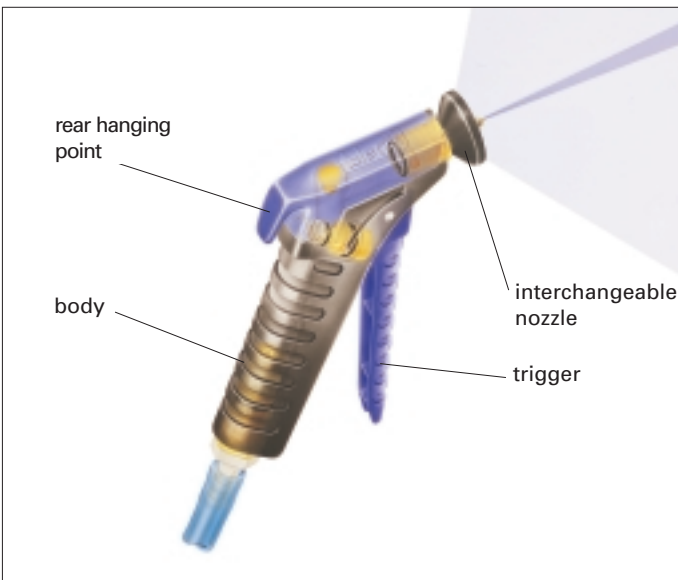
Personal safety and the safety at work regulations were given a high priority in the product design.

Particular attention has been paid to the "feel", performance and appearance of the gun; it is light, yet robust.

The range of interchangeable nozzles allows the Legris blowgun to be used in many ways:

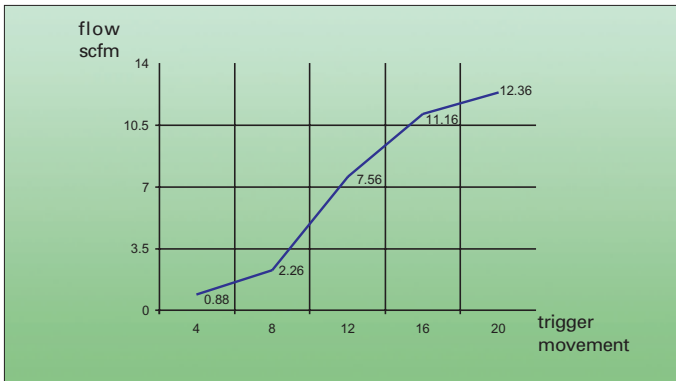
- **blowing air to:** cool machines, dry parts, ventilate, dust benches etc.
- **dispersal:** of steams, fumes, particles, etc...
- **transport:** small components, granules, etc...
- **mixing:** of air and other gases
- **cooling:** stamped parts when ejected from a press

## technical specification



<b>fluid</b>	compressed air <i>please consult us for other fluids</i>
<b>maximum working Pressure</b>	up to 145 psi
<b>temperatures</b>	dry air: -5°F to +175°F ambient: 5°F to +120°F
<b>material</b>	body, trigger: polyacetal seals: nitrile nozzles: nickel-plated brass (0659 = aluminum) deflectors: engineering grade plastic

# advantages



## progressive action

The trigger is very sensitive and has a long, easily controlled movement, which allows the user to control the flow accurately. This responsive and gradual action gives greater sensitivity when using the blowgun in the workplace (for example with small parts).



## ergonomic design

- Special attention has been paid to the shape, size and design to enhance comfort and safety:
  - the blowgun is easy to grip
  - it has the right "feel"

Its light weight and ease of use make it especially suited to production environments and for both male and female operators.



## safety features

Technology is built in to ensure adherence to international health and safety at work requirements, eg.

- pressure is reduced on certain models
- safety nozzles
- low noise levels



## wide range of nozzles

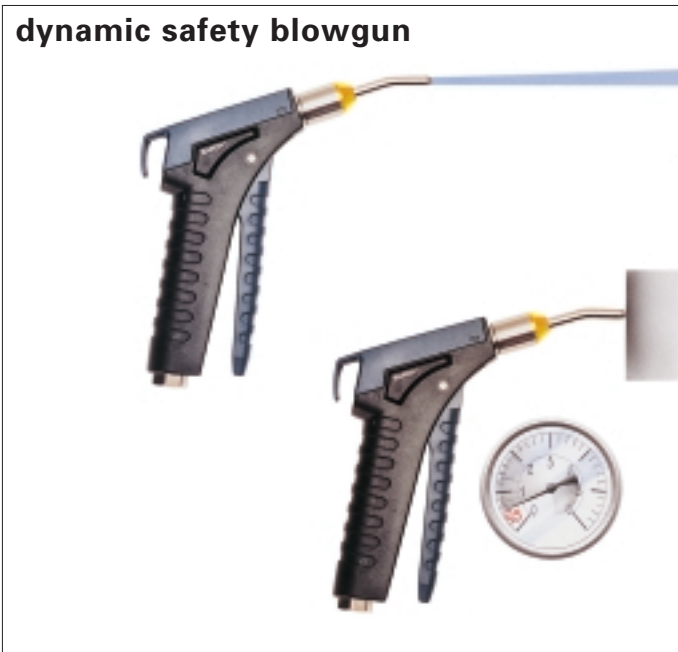
Legris blowguns with a wide range of interchangeable nozzles meet many specific requirements, whether it be difficult access, safety, economy, power, etc...

- standard jet
- safety
- straight tube (long or short)
- angled tube (long or short)
- coanda nozzle
- booster nozzle
- air screen nozzle
- booster nozzle with airscreen
- LF3000 nozzle

The Legris range of blowguns and nozzles gives you the right equipment for the job in hand.

# universal blowguns

## dynamic safety blowgun



Thanks to its innovative design, the Legris universal safety blowgun ensures the safety of the operator and machines at all times. An integrated pressure regulator gives active safety to the user.

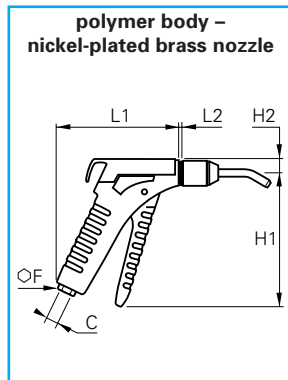
The principle is simple:

- when in close proximity to any obstacle, the pressure falls rapidly, restricting pressure to 7 psi (at inlet pressure of 87 psi) once directly in contact with the object.
- conversely, as soon as the nozzle is removed from the obstacle, the pressure rises automatically.

### technical specifications

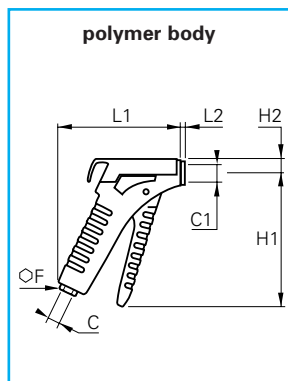
fluid carried: compressed air  
 maximum flow pressure: 145 psi  
 safety pressure at 87 psi: 7 psi (0.5 bar)  
 output at 87 psi: 9 scfm  
 force of air jet at 87 psi: 0.33 lbf  
 noise level (norm NFS 31 031): 83.3 dbA

## 0654 dynamic safety blowgun — BSPP



C		F	H1	H2	L1	L2	
BSPP		mm	mm	mm	mm	mm	kg
G1/4	0654 00 13	17	128	14	120	1.5	.213

## 0652/0653 blowgun for interchangeable nozzles — BSPP

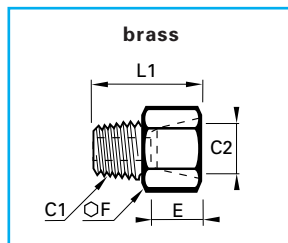


C	C1		F	H1	H2	L1	L2	
BSPP	metric		mm	mm	mm	mm	mm	kg
G1/4	M12x1.25	0652 66 13	17	128	14	120	1.5	.161
G1/4	M12x1.25	0653 66 13*	17	128	14	120	1.5	.169

\*nozzle with passage reduction

Choose from the wide range of interchangeable nozzles to have the right tool for the job - please refer to pages L8 and L9

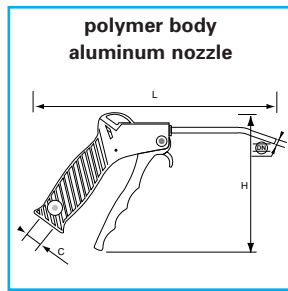
## 0167 adapter — female NPT to male BSPT



C1	C2		E	F	L	
BSPT	NPT		mm	mm	mm	kg
R1/4	1/4	0167 13 14	11.5	17	28.5	.029

# universal blowguns

## 0659 fixed angled nozzle blowgun — NPT

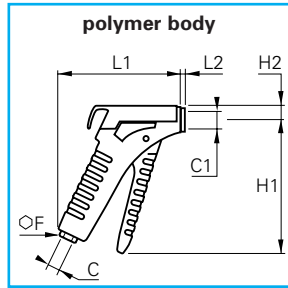


C NPT			H in	L in	
1/4	.137	0659 00 14	4.94	8.79	2.65

This blow gun will meet OSHA 1910.242, if the following issues are observed:

- inlet pressure does not exceed 100PSIG
- blow gun used with proper chip guarding
- personal protection by operator

## 0653 safety blowgun for interchangeable nozzles — NPT



C NPT	C1 metric		F mm	H1 in	H2 in	L1 in	L2 in	
1/4	M12x125	0653 66 14	17	4.99	.55	4.68	.06	5.97

Note: When used with air, airline must be regulated to less than 30 psi maximum to conform to current safety requirements.

A tamperproof pressure regulator reduces a supply pressure of 100 psi (7 bar) to 30 psi (2 bar) ±3 psi (±0.2 bar)  
Note: If supply pressure exceeds 100 psi then operating pressure will exceed 30 psi by that amount.

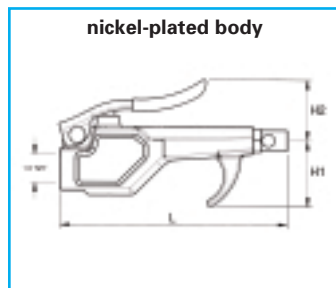
nozzle selections: to conform to current safety requirements use only the following nozzles with the 0653 blowgun:

0690 02 00      0690 09 00      0690 10 00      0690 11 00      0690 08 00

(These nozzles have a secondary air flow path should the tip become obstructed.)

The nozzle advantages and part numbers are on the following pages.

## 0623 standard safety blowgun — NPT

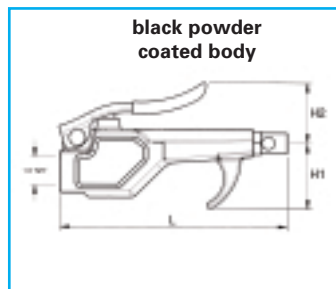


C NPT		H1 in	H2 in	L in	
1/4	0623 00 14US	1.28	1.18	4.32	6.89

Legris' Standard Safety Blowguns conform to the following standards:

- OSHA standard 1910.242 (B) permitting a maximum of 30 psi outlet pressure when dead ended with a maximum of 150 psi inlet pressure.
- OSHA standard 1910.95 regulating occupational noise level exposure.

## 0623 standard safety blowgun — NPT



C NPT		H1 in	H2 in	L in	
1/4	0623 01 14US	1.28	1.18	4.32	6.89

Legris' Standard Safety Blowguns conform to the following standards:

- OSHA standard 1910.242 (B) permitting a maximum of 30 psi outlet pressure when dead ended with a maximum of 150 psi inlet pressure.
- OSHA standard 1910.95 regulating occupational noise level exposure.

Legris quick disconnect couplers can be used with any of the Legris blowguns.

For more information on the couplers, see Section K.



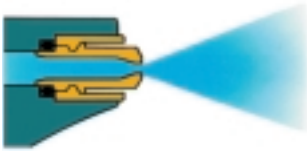


# threaded nozzles for universal blowguns 0652/0653

The information given below is to help you choose the correct nozzle for your needs.

## nozzles

### 0690 01 00 standard nozzle



### 0690 02 00 safety nozzle



### 0690 03 00 straight tube nozzle (long)



### 0690 04 00 straight tube nozzle (short)



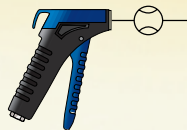
### 0690 05 00 angled tube nozzle (long)



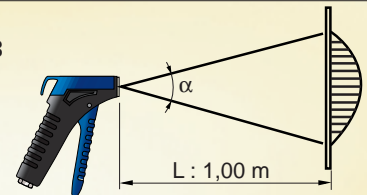
	technical characteristics at 87 psi		other features
1- flow rate	14 scfm		safety noise level
2- noise level	96 dBA		power difficult access
3- spread of air cone at nozzle	23°		directional control economy
4- force of airjet	0.79 lbf		dusting ability orientable
1- flow rate	21.5 scfm		safety noise level
2- noise level	99 dBA		power difficult access
3- spread of air cone at nozzle	26°		directional control economy
4- force of airjet	0.90 lbf		dusting ability orientable
1- flow rate	14 scfm		safety noise level
2- noise level	92 dBA		power difficult access
3- spread of air cone at nozzle	21°		directional control economy
4- force of airjet	0.70 lbf		dusting ability orientable
1- flow rate	14.5 scfm		safety noise level
2- noise level	93 dBA		power difficult access
3- spread of air cone at nozzle	21°		directional control economy
4- force of airjet	0.79 lbf		dusting ability economy
1- flow rate	13 scfm		safety noise level
2- noise level	92 dBA		power difficult access
3- spread of air cone at nozzle	21°		directional control economy
4- force of airjet	0.70 lbf		dusting ability orientable

## additional technical information

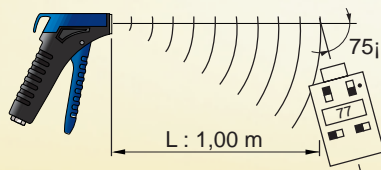
1- with blowgun 0652/0653 plus nozzle.



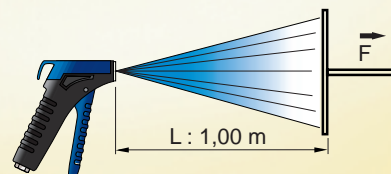
3- with blowgun 0652/0653 plus nozzle.






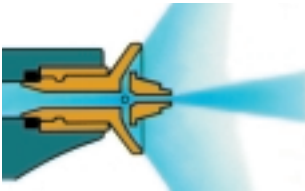
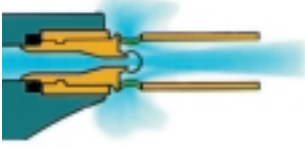
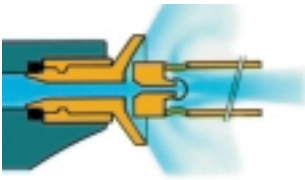
2- according to A.N.S.I. 51-4 standard (American National Standard Institute) with blowgun 0652/0653 plus nozzle.



4- with blowgun 0652/0653 plus nozzle. Pushing a 0.1m<sup>2</sup> circular plate.



# threaded nozzles for universal blowguns 0652/0653

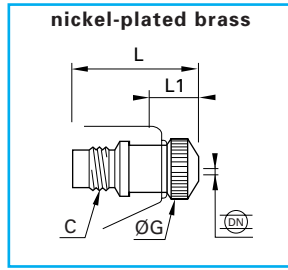
nozzles	technical characteristics at 87 psi		other features
<b>0690 06 00</b> angled tube nozzle (short) 	1- flow rate	14.5 scfm	safety noise level
	2- noise level	93 dBA	power difficult access
	3- spread of air cone at nozzle	21°	directional control economy
	4- force of airjet	0.79 lbf	dusting ability orientable
<b>0690 07 00</b> nozzle for nylon + polyurethane tubing 	1- flow rate	$\varnothing 4\text{mm} \times 2\text{mm}$ 7 scfm $\varnothing 4\text{mm} \times 2.7\text{mm}$ 12 scfm	safety noise level
	2- noise level	90 dBA 96 dBA	power difficult access
	3- spread of air cone at nozzle	22° 23°	directional control economy
	4- force of airjet	0.38 lbf 0.67 lbf	dusting ability orientable
<b>0690 08 00</b> COANDA nozzle 	1- flow rate	9 scfm	safety noise level
	2- noise level	77 dBA	power difficult access
	3- spread of air cone at nozzle	20°	directional control economy
	4- force of airjet	0.27 lbf	dusting ability orientable
<b>0690 09 00</b> air screen nozzle 	1- flow rate	23 scfm	safety noise level
	2- noise level	96 dBA	power difficult access
	3- spread of air cone at nozzle	jet 24° screen 140°	directional control economy
	4- force of airjet	0.34 lbf	dusting ability orientable
<b>0690 10 00</b> booster nozzle 	1- flow rate	27.5 scfm	safety noise level
	2- noise level	103 dBA	power difficult access
	3- spread of air cone at nozzle	28°	directional control economy
	4- force of airjet	0.70 lbf	dusting ability orientable
<b>0690 11 00</b> booster nozzle with air screen 	1- flow rate	30 scfm	safety noise level
	2- noise level	101 dBA	power difficult access
	3- spread of air cone at nozzle	jet 26° screen 140°	directional control economy
	4- force of airjet	0.34 lbf	dusting ability orientable

## main advantages

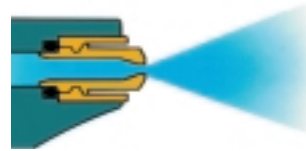
- **safety** = maximum protection for the user.
- **noise level** = low noise levels reduce health hazards.
- **power** = efficiency and high output
- **difficult access** = nozzles designed for use where access is difficult
- **directional control** = precision
- **economy** = booster nozzle venturi system increases flow rate
- **dusting ability** = use to move powdered materials
- **orientable** = nozzle can be turned 360°

# interchangeable nozzles for universal blowgun 0652/0653

## 0690 01 standard nozzle

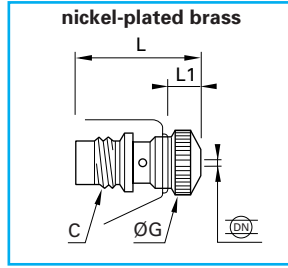


C metric	DN		G in	L in	L1 in	oz
M12x1.25	2.5	0690 01 00	.59	1.23	.35	.88



- Multi-purpose
- Powerful and responsive air jet

## 0690 02 safety nozzle

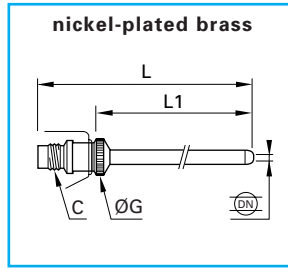


C metric	DN		G in	L in	L1 in	oz
M12x1.25	3	0690 02 00	.59	1.23	.36	.88

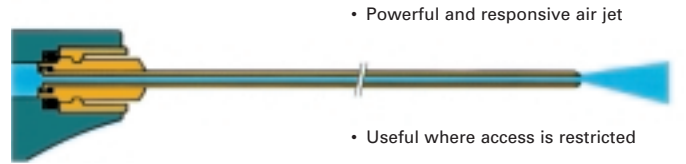


- Should the nozzle become obstructed, air escapes through holes in the side of the nozzle
- Powerful and responsive air jet

## 0690 03 straight tube nozzle (long)

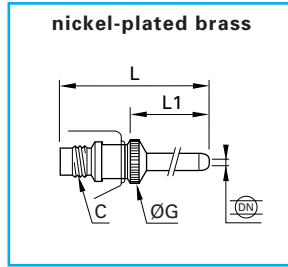


C metric	DN		G in	L in	L1 in	oz
M12x1.25	2.5	0690 03 00	.59	13	12	2.29

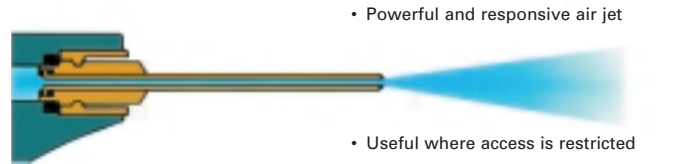


- Powerful and responsive air jet
- Useful where access is restricted

## 0690 04 straight tube nozzle (short)

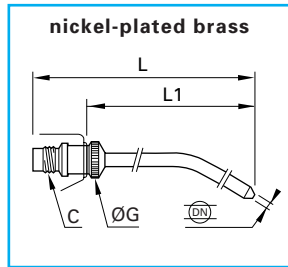


C metric	DN		G in	L in	L1 in	oz
M12x1.25	2.5	0690 04 00	.59	4	3	1.23

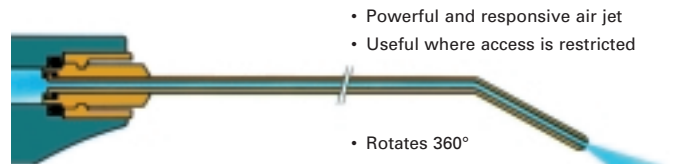


- Powerful and responsive air jet
- Useful where access is restricted

## 0690 05 angled tube nozzle (long)

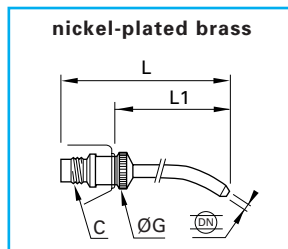
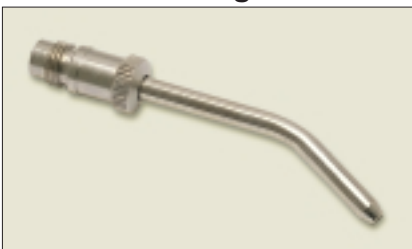


C metric	DN		G in	L in	L1 in	oz
M12x1.25	2.5	0690 05 00	.59	12.4	11.5	2.29

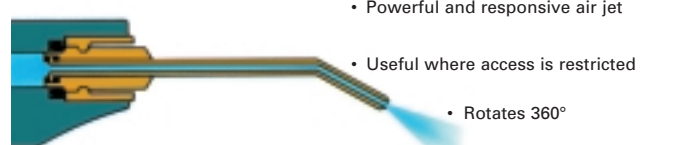


- Powerful and responsive air jet
- Useful where access is restricted
- Rotates 360°

## 0690 06 angled tube nozzle (short)



C metric	DN		G in	L in	L1 in	oz
M12x1.25	2.5	0690 06 00	.59	3.7	2.75	1.23

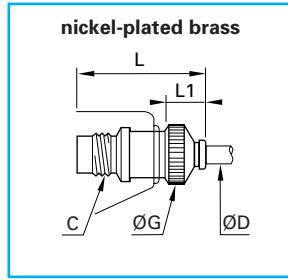


- Powerful and responsive air jet
- Useful where access is restricted
- Rotates 360°



# interchangeable nozzles for universal blowgun 0652/0653

## 0690 07 safety nozzle

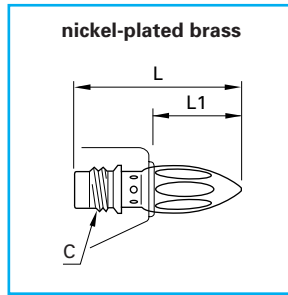


ØD	C		G	L	L1	
	metric		in	in	in	oz
4	M12x1.25	0690 07 00	.59	1.38	.5	.88



- Fluidized powders
- Choose either nylon or polyurethane tube for use where access is restricted

## 0690 08 coanda effect nozzle

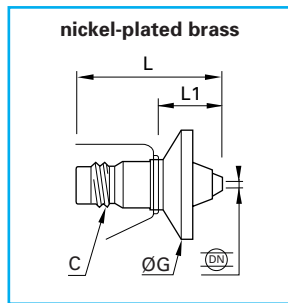


C		L	L1	
		in	in	oz
M12x1.25	0690 08 00	1.87	1.02	1.16

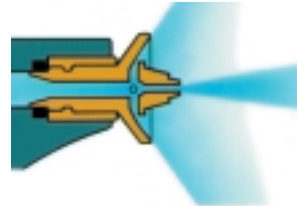


- Precise air jet
- Very quiet
- Energy saving
- Safe, because its shape makes it difficult to obstruct the opening of the nozzle

## 0690 09 air screen nozzle

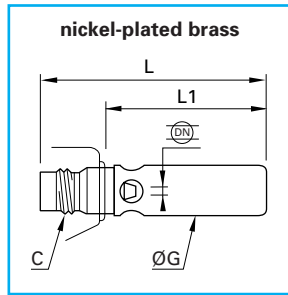


C	DN		G	L	L1	
			in	in	in	oz
M12x1.25	2	0690 09 00	1.18	1.59	.73	.74

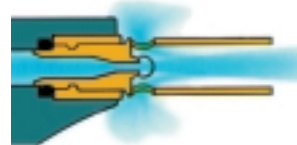


- An air screen and an air deflector prevent dust and swarf being blown back at the operator
- No risk of overpressure when nozzle is blocked

## 0690 10 booster nozzle

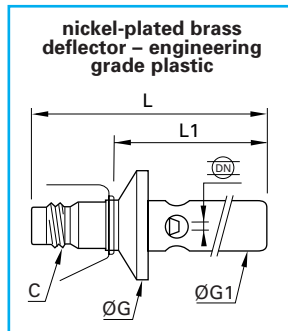


C	DN		G	L	L1	
			in	in	in	oz
M12x1.25	2.5	0690 10 00	.59	2.52	1.65	1.34

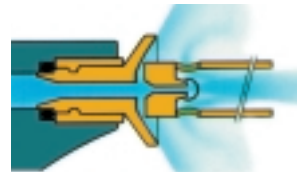


- Improved air flow, especially suited for use with large areas
- Saves energy by venturi method of increasing air flow
- Lower speed air flow

## 0690 11 booster nozzle with air screen



C	DN		G	G1	L	L1	
			in	in	in	in	oz
M12x1.25	2.5	0690 11 00	1.18	.59	2.99	2.13	1.62



- Has the same venturi features as the booster nozzle
- No risk of overpressure when nozzle is blocked
- An air screen and an air deflector prevent dust and swarf being blown back at the operator