

- **Allows compact product design**
- **Fitting becomes integral part of component**
- **Suitable for vacuum up to 98%**
- **Ease of component assembly**
- **Suitable for use with both plastic and metal components**
- **Silicone free 'O' ring gives positive seal**

**Technical Data****Medium:**

Compressed air, nitrogen, inert and non-combustible gases compatible with materials of construction.
(For other media please consult Technical Department)

Operating Pressure:

Vacuum 750 mm Hg to 18 bar

Operating Temperature:

-20° to 80°C

See viton option for extended temperature range : -20° to 180°C

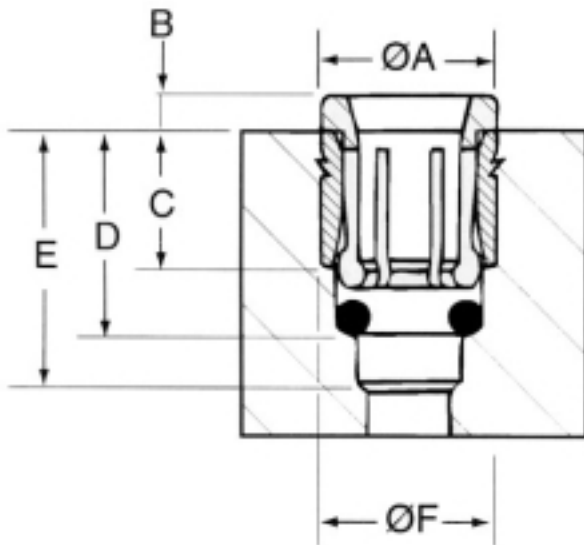
Materials

Body – Brass

Collet – Nickel plated brass

O-ring: Silicone free Nitrile

Tubing: Nylon 11 or 12, Polyurethane (95 durometer or above) and LDPE (Low Density Polyethylene).



Metric Cartridge Fittings Dimensions

Tube O.D.	Part Number	A	B	C	D	E	F
4	10 008 0400	7.5	2.0	6.0	8.6	12.0	8.1
5	10 008 0500	10.0	2.2	6.8	9.6	12.8	9.1
6	10 008 0600	11.0	2.2	7.3	10.1	13.2	10.1
8	10 008 0800	13.0	2.2	7.3	10.1	14.2	12.1
10	10 008 1000	14.5	2.2	9.6	14.6	18.7	16.1
12	10 008 1200	18.0	2.2	12.3	17.2	22.2	18.3

Inch Cartridge Fittings Dimensions

Tube O.D.	Part Number	A	B	C	D	E	F
1/8"	12 008 0100	6.5	2.0	6.7	8.4	11.4	7.8
5/32"	12 008 0200	7.5	2.0	6.0	8.6	12.0	8.1
3/16"	12 008 0300	10.0	2.2	6.8	9.6	12.8	9.1
1/4"	12 008 0400	11.0	2.2	7.3	10.1	13.2	10.1
5/16"	12 008 0500	13.0	2.2	7.3	10.1	14.2	12.1
3/8"	12 008 0600	14.5	2.2	9.6	14.6	18.7	16.1
1/2"	12 008 0700	18.0	2.2	12.3	17.2	22.2	18.3



Port Form Dimensions for Metric Cartridges

Tube O.D.	A +0.10 -0.0	C ±0.05	E Depth ±0.10	F Depth ±0.10	G	N Depth +0.15 -0.00	S Max	T Max
4	4.08	6.95	12.10	8.70	2.80	6.00	0.7	0.30
5	5.08	8.15	12.90	9.70	3.40	6.80	0.7	0.50
6	6.06	9.20	13.30	10.20	4.40	7.30	0.7	0.50
8	8.10	11.30	14.30	10.30	6.00	7.30	0.7	0.50
10	10.10	13.95	18.80	14.70	7.60	9.60	0.7	0.50
12	12.20	17.02	22.30	17.30	9.65	12.30	0.7	0.50

For Plastic Components

M Rec Min Wall Thickness	P +0.10 -0
1.5	8.20
1.5	9.20
1.5	10.20
1.5	12.10
2.0	16.05
2.0	18.20

For Metal Components

M Rec Min Wall Thickness	P +0.05 -0
1.0	8.30
1.0	9.30
1.0	10.30
1.0	12.30
1.5	16.30
1.5	18.50

A*

B**

Port Form Dimensions for Inch Cartridges

Tube O.D.	A +0.10 -0.0	C ±0.05	E Depth ±0.10	F Depth ±0.10	G	N Depth +0.15 -0.00	S Max	T Max
1/8"	3.30	6.25	11.50	8.50	2.30	6.65	0.70	0.30
5/32" (4)	4.08	6.95	12.10	8.70	2.80	6.00	0.70	0.30
3/16"	4.85	8.15	12.90	9.70	3.40	6.80	0.70	0.50
1/4"	6.45	9.20	13.30	10.20	4.40	7.30	0.70	0.50
5/16" (8)	8.10	11.30	14.30	10.30	6.00	7.30	0.70	0.50
3/8"	9.62	13.95	18.80	14.70	7.60	9.60	0.70	0.50
1/2"	12.65	17.02	22.30	17.30	9.65	12.30	0.70	0.50

For Plastic Components

M Rec Min Wall Thickness	P +0.10 -0
1.50	7.70
1.50	8.20
1.50	9.20
1.50	10.20
1.50	12.10
2.00	16.05
2.00	18.20

For Metal Components

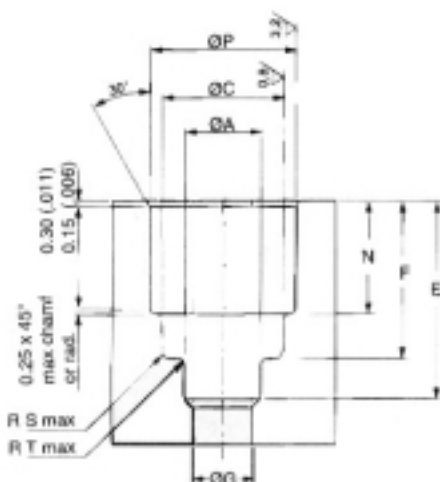
M Rec Min Wall Thickness	P +0.05 -0
1.00	7.80
1.00	8.30
1.00	9.30
1.00	10.30
1.00	12.30
1.50	16.30
1.50	18.50

*A

**B

*A The dimensions given are suitable for Nylon 6, Nylon 66 and acetal components. For use in other types of plastic consult the factory.

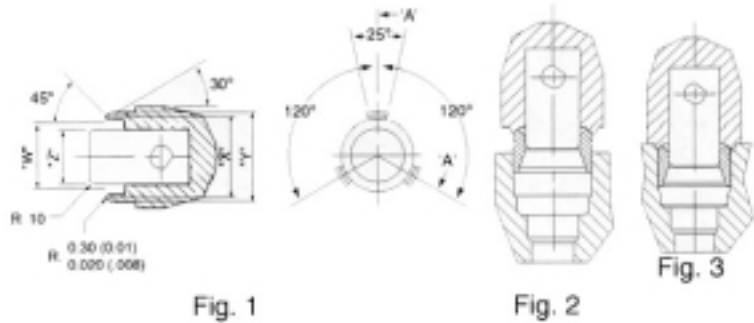
**B Instructions refer to the use of cartridges in Brass, Aluminum or Zinc components. For use in other materials consult the factory.





Assembly instructions for installing cartridges into metal components.

1. Ensure that all parts are clean.
2. Insert the correct end of the cartridge body into the port form (see illustration). Then, using an installation tool as shown in Fig.1, press the cartridge body in until it is flush with the surface while staking it into place (Fig. 3). Minimum loads should be used to avoid damage to the end faces of the cartridge body.
3. Lubricate the O-ring with appropriate medium grade mineral grease (BP Energol LS2). Locate as shown in port.
4. Insert the collet into the body using minimal force.

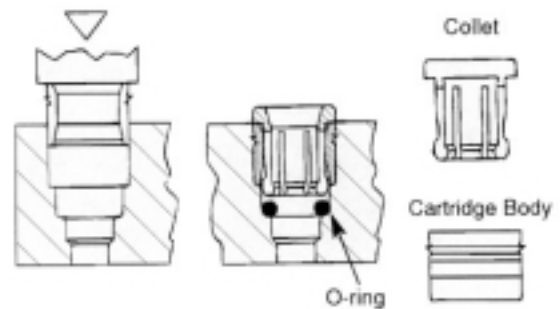


Tube Size	W +0.05 -0.0	X	Y +0.05 -0.0	Z
4 mm	8.25	9.30	10.65	5.15
5 mm	9.25	10.30	11.65	6.35
6 mm	10.25	11.30	12.65	7.35
8 mm	12.25	13.30	14.65	9.05
10 mm	16.15	17.30	19.00	11.62
12 mm	18.45	19.50	21.20	14.52

Tube Size	W +0.05 -0.0	X	Y +0.05 -0.0	Z
1/8"	7.75	8.80	10.15	4.15
5/32"	8.25	9.30	10.65	5.15
3/16"	9.25	10.30	11.65	6.35
1/4"	10.25	11.30	12.65	7.35
5/16"	12.25	13.30	14.65	9.05
3/8"	16.15	17.30	19.00	11.62
1/2"	18.45	19.50	21.20	14.52

Assembly instructions for installing cartridges into plastic components.

1. Ensure that all parts are clean.
2. Insert the correct end of the cartridge body into the port form (see illustration). Then, using a flat faced tool, press in the cartridge body until it is flush with the surface of the body. Minimum loads should be used to avoid damage to the end faces of the cartridge body.
3. Lubricate the O-ring with appropriate medium grade mineral grease (BP Energol LS2). Locate as shown in port.
4. Insert the collet into the body using minimal force.



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 where applicable.