

John Guest[®]

Cartridge Systems



Celebrating 50 Years of Innovation



*A simple, cost-effective way of securing
tubes within your product*

June 2011

Tube OD Size Plastic Half Cartridges

Plastic Half Cartridges have been designed to provide a simple, cost-effective method of integrating the **Super Speedfit®** technology into a wide variety of original equipment. The cartridge requires low insert loads, making it suitable for many different housing materials.

Plastic Half Cartridges consist of three components: a collet gripper, an O-ring of food grade materials and a plastic body with stainless steel teeth molded into the circumference.

Customers should ensure cartridges are suitable for their applications, materials and operating conditions.

For additional information consult our Technical Support Department.

Prices are subject to change without notice.



INCH SERIES



GRAY ACETAL COLLET
GRAY ACETAL BODY
NITRILE O-ring

PART NO.	TUBE OD	BOX QTY
PM2804S	5/32"	1000
PI2806S	3/16"	1000
PI2808S	1/4"	1000
PM2808S	5/16"	1000
PI2812S	3/8"	1000
PI2816S	1/2"	500

Most sizes available with Blue, Red or White Collet, suffix B, R or W (Ex. PI2808S-B)
Also available with double O-rings, please use suffix 2 (Ex. PI2808S2).



GRAY ACETAL COLLET
GRAY ACETAL BODY
EPDM O-ring

PART NO.	TUBE OD	BOX QTY
PCI2808S	1/4"	1000
PCM2808S	5/16"	1000
PCI2812S	3/8"	1000
PCI2816S	1/2"	500



WHITE POLYPROPYLENE COLLET
WHITE POLYPROPYLENE BODY
EPDM O-ring

PART NO.	TUBE OD	BOX QTY
PP2808W	1/4"	1000
PP2812W	3/8"	1000



WHITE ACETAL COLLET
WHITE ACETAL BODY
NITRILE O-ring

PART NO.	TUBE OD	BOX QTY
PI2808W	1/4"	1000
PM2808W	5/16"	1000
PI2812W	3/8"	1000

Also available with Blue or Red Collet, suffix B or R (Ex. PI2808W-B).
Also available with double o-rings, please use suffix 2 (Ex. PI2808W2).

HALF CARTRIDGE KIT



GRAY ACETAL COLLET
GRAY ACETAL BODY

PART NO.	TUBE OD	BOX QTY
NC2007-02S	1/4"	1000
NC2007-03S	5/16"	1000
NC2007-04S	3/8"	1000

METRIC SERIES



BLACK ACETAL COLLET
BLACK ACETAL BODY
NITRILE O-ring

PART NO.	TUBE OD	BOX QTY
PM2806E	6mm	1000
PM2808E	8mm	1000
PM2810E	10mm	1000

Also available with double o-rings, please use suffix 2 (Ex. PM2806E2).

CTS Size Plastic Half Cartridges

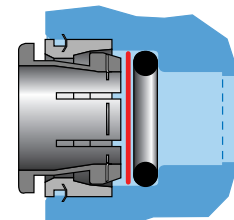
John Guest Copper Tube Size Plastic Half Cartridges have been designed for use in Plumbing, Recreational Vehicle and Marine Applications.

Half Cartridge bodies and collets are produced from high quality Engineered Thermoplastic materials with EPDM O-rings.

INCH SERIES



PART NO.	CTS	BOX QTY
PCI2820	1/2"	200
PCI2828	3/4"	100



CTS Cartridge incorporate a spacer and an o-ring.

Tube OD Size Metal Half Cartridges

Metal Half Cartridges are designed with the same Super Speedfit® technology as our Plastic Half Cartridges. As with Plastic Half Cartridges, Metal Half Cartridges are designed to provide a simple, cost-effective method of securing tubing into taps, manifolds, flow direction splitters and many other types of components, which can be produced in a wide variety of metals.

Metal Half Cartridges consist of three components: a collet gripper, an O-ring of food grade materials, and a metal body.

Customers should ensure cartridges are suitable for their applications, materials and operating conditions.

For additional information consult our Technical Support Department.

Prices are subject to change without notice.



INCH SERIES



GRAY ACETAL COLLET
BRASS BODY
NITRILE O-ring

PART NO.	TUBE OD	BOX QTY
MM2804N	5/32"	1000
MI2806N	3/16"	1000
MI2808N	1/4"	1000
MM2808N	5/16"	1000
MI2812N	3/8"	1000
MI2816N	1/2"	500

Also available with double O-rings, please use suffix 2 (Ex. MM2804N2)



GRAY ACETAL COLLET
STAINLESS STEEL BODY
NITRILE O-ring

PART NO.	TUBE OD	BOX QTY
MI2806ST	3/16"	1000
MI2808ST	1/4"	1000
MM2808ST	5/16"	1000
MI2812ST	3/8"	1000



BLACK ACETAL COLLET ON 8MM
GRAY ACETAL COLLET ON 15 AND 22MM
BRASS BODY
EPDM O-ring

PART NO.	TUBE OD	BOX QTY
CM2808N	8mm	1000
CM2815N	15mm	300
CM2822N	22mm	100

METRIC SERIES



WHITE ACETAL COLLET ON 1/4"
BLACK ACETAL COLLET ON 5/32"
GRAY ACETAL COLLET ON 3/8" AND 5/8"
BRASS BODY
EPDM O-ring

PART NO.	TUBE OD	BOX QTY
CM2804N	5/32"	1000
CI2808W	1/4"	1000
CI2812N	3/8"	1000
CI2820N	5/8"	1000



BLACK ACETAL COLLET ON 5, 6, 10 AND 12MM
GRAY ACETAL COLLET ON 4 AND 8MM
BRASS BODY
NITRILE O-ring

PART NO.	TUBE OD	BOX QTY
MM2804N	4mm	1000
MM2805N	5mm	1000
MM2806N	6mm	1000
MM2808N	8mm	1000
MM2810N	10mm	1000
MM2812N	12mm	500

Also available with double O-rings, please use suffix 2 (Ex. MM2804N2)

CTS Size Metal Half Cartridges

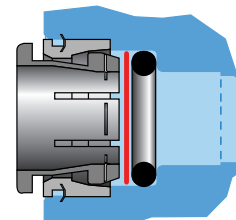
CTS size Metal Half Cartridges have also been designed for use in Plumbing, Recreational Vehicle and Marine Applications.

Bodies are produced from brass, Collets from high quality Engineered Thermoplastic materials with EPDM O-rings.

INCH SERIES



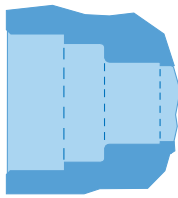
PART NO.	CTS	BOX QTY
MWI2820	1/2"	250
MWI2828	3/4"	100
MWI2836	1"	100



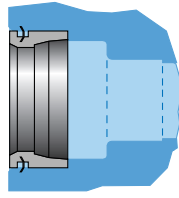
CTS Cartridge incorporate a spacer and an o-ring.

Half Cartridges

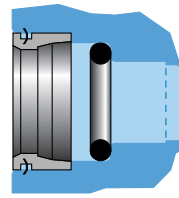
CARTRIDGE ASSEMBLY



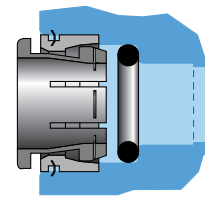
1. Ensure that the cavity is clean and free from debris, burrs, score marks, etc.



2. Insert the cartridge down into the housing; ensure the cartridge is flush with the housing.

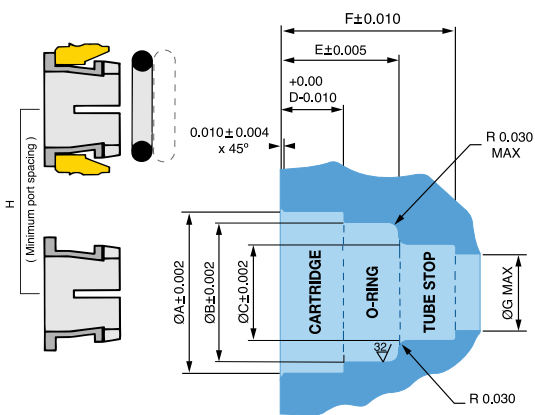


3. Insert the O-ring.



4. Insert Collet to complete assembly.

Inch



Cavity Dimensional Detail (Inch)

Tube OD	ØA	ØB	ØC	D	E1	E2	F1	F2	ØG	H
5/32" *	0.492	0.327	0.163	0.193	0.350	0.445	0.504	0.598	0.13	0.59
5/32" **	0.472	0.327	0.163	0.193	0.350	0.445	0.504	0.598	0.13	0.59
3/16"	0.472	0.348	0.193	0.193	0.340	0.440	0.490	0.590	0.16	0.59
1/4"	0.528	0.424	0.255	0.181	0.386	0.480	0.555	0.650	0.23	0.67
5/16"	0.544	0.470	0.320	0.215	0.400	0.500	0.590	0.690	0.29	0.67
3/8"	0.632	0.547	0.380	0.270	0.465	0.565	0.720	0.815	0.35	0.79
1/2"	0.777	0.671	0.506	0.304	0.561	0.659	0.797	0.896	0.48	0.93
5/8"	0.935	0.836	0.638	0.335	0.703	-	1.093	-	0.50	1.06

All dimensions in inches

* - Metal Half Cartridges.

** - Plastic Half Cartridges.

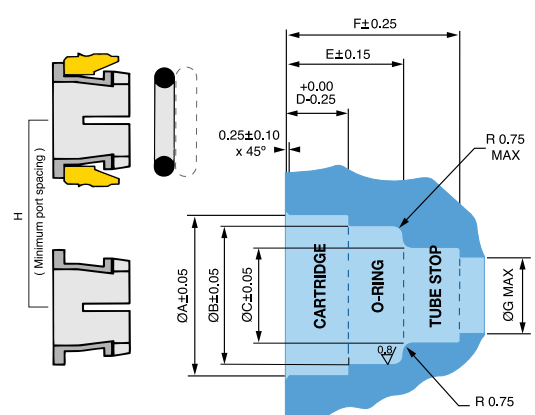
E1 and F1 relate to one o-ring.

E2 and F2 relate to two o-rings.

Cavity Dimensional Detail (CTS)

Tube OD	ØA	ØB	ØC	D	E1	E2	F1	F2	ØG	H
1/2" CTS*	0.935	0.836	0.638	0.335	0.693	-	1.057	-	0.546	1.060
1/2" CTS**	0.967	0.836	0.638	0.392	0.693	-	1.057	-	0.546	1.060
3/4" CTS*	1.222	1.102	0.886	0.427	0.831	-	1.362	-	0.776	1.358
3/4" CTS**	1.222	1.102	0.886	0.447	0.831	-	1.362	-	0.776	1.358
1" CTS*	1.480	1.398	1.141	0.429	0.791	-	1.386	-	1.003	1.628

Metric



Cavity Dimensional Detail (Metric)

Tube OD	ØA	ØB	ØC	D	E1	E2	F1	F2	ØG	H
4mm *	12.50	8.30	4.14	4.90	8.90	11.30	12.80	15.20	3.30	15.0
4mm **	11.98	8.30	4.14	4.90	8.90	11.30	12.80	15.20	3.30	15.0
5mm	11.98	9.06	5.13	4.90	8.63	11.17	12.44	14.98	4.30	15.0
6mm	13.41	10.00	6.12	4.60	9.80	12.20	14.00	16.50	5.30	16.5
8mm	13.82	11.94	8.13	5.46	10.15	12.70	15.00	17.50	7.40	17.0
10mm	16.05	14.00	10.15	6.86	11.81	14.35	18.17	20.71	9.20	19.0
12mm*	19.10	16.54	12.15	8.65	15.50	19.00	23.50	27.00	11.20	22.0
12mm**	19.74	16.54	12.15	7.72	15.90	-	23.90	-	11.20	24.0
15mm	22.86	20.32	15.19	9.50	17.50	21.00	26.90	30.40	14.20	27.0
22mm	31.05	27.80	22.20	10.85	21.10	24.70	31.60	35.20	21.20	34.5

All dimensions in mm

* - Metal Half Cartridges.

** - Plastic Half Cartridges.

E1 and F1 relate to one o-ring.

E2 and F2 relate to two o-rings.



John Guest USA Inc.

180 Passaic Avenue PO Box 11085 Fairfield, NJ 07004

Tel: 973-808-5600 Toll Free: 1-800-94-JG USA Fax: 973-808-5036 Toll Free Fax: 1-877-77-JG FAX

Web: www.johnguest.com Email: info@jgusa.com