

Parker Legris connectic

products are available from

MARYLAND METRICS

P.O. Box 261 Owings Mills, MD 21117 USA

ph: (410)358-3130 (800)638-1830

fx: (410)358-3142 (800)872-9329

email: sales@mdmetric.com web: <http://mdmetric.com>

RFQ form: <http://mdmetric.com/rfq.htm>



connection solutions in stainless steel



Legris Connectic offers many solutions in stainless steel that are designed for **excellent resistance to aggressive / corrosive environments and fluids**. Our full range of connectors, accessories, couplers and ball valves combines the advantages of tried and tested technology,



LF 3800 push-in fittings

All **stainless steel** construction with **FKM "O"** ring seals, these fittings allow **instant** manual connection and disconnection. **Compact**, they guarantee **full bore** fluid passage, with minimal pressure drop.

Examples of industrial applications: **laboratories, food and drinks processing, paint and printing industries.**

A range suited to most markets with models for **metric tubing** with BSP taper, BSP parallel, metric and NPT threads and also models for **inch tubing** with NPT threads.

Compression fittings

Multiple connection possibilities and low tightening torques make these fittings easy to use. Manufactured from **stainless steel 316L**, they can be used at **low and medium pressure**.

Examples of industrial applications: **chemicals, medical, offshore, oil, pharmaceuticals, food and shipbuilding.**

A range from 6 to 16 mm o.d., with **BSP taper, BSP parallel, NPT** threads and tube-to-tube couplings.



Connection accessories

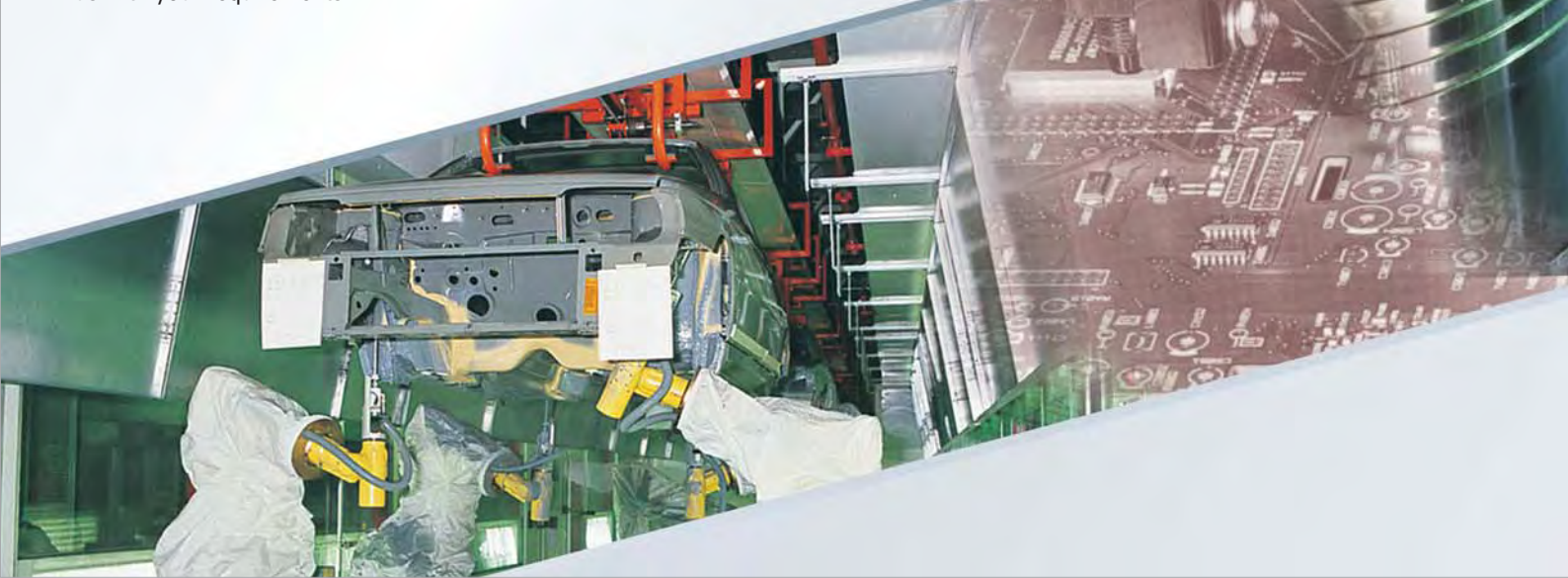
Compatible with many different Legris connectors and ball valves, this range provides users with a comprehensive connection solution.

Available with various working pressure and temperatures, dependant on the model chosen.

A choice of **threaded adaptors, tailpiece adaptors, plugs** and **silencers** for a multitude of applications.

Quick acting couplers

In order to meet the requirements of specific applications, Legris offers special ranges of stainless steel couplers. Please do not hesitate to contact us with your requirements.



flexibility of use and multiple configurations. A wide range of working temperatures and pressures assists suitability for installation in many harsh and aggressive industrial applications.



Flow control regulators and non-return valves

Designed **without bacterial retention zones** and with **FKM seals**, these function fittings are suitable for **food/pharmaceutical** applications, as well as semi-conductor industry.

Flow control regulators **control the speed** of a pneumatic cylinder ; non-return valves **allow air to pass** in one direction whilst **preventing flow** in the other direction.

Ball valves

Full bore, stainless steel and designed with **FKM seals**, these ball valves are suited for use at **high pressure** and **temperature**. They can thus be used for a **wide range** of industrial applications.

Available in **one piece** or **3-piece** construction, from DN 10 to DN 50, with a **compact** series from DN 4 to 10.



Technical tubes

Suited to a variety of **applications** and **environments**, Legris technical tubes ensure **optimum performance**.

Fluoropolymer FEP 140 tubing and **polyethylene tubing**, for food applications, provide excellent performance in terms of **resistance to aggressive and corrosive agents**.



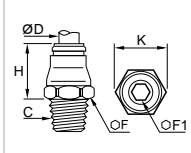
connection solutions in stainless steel

LF 3800 push-in fittings

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● for metric tubing

3805 male stud, BSP taper and NPT

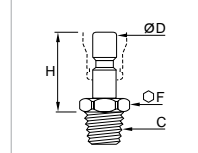


this fitting has an internal hexagon for assembly/dis-assembly by allen key

ØD	C		F	F1	H	K
4	R1/8	3805 04 10	10	3	14,5	11
4	R1/4	3805 04 13	14	3	14,5	15
6	R1/8	3805 06 10	13	4	18	14
6	R1/4	3805 06 13	14	4	16,5	15
8	R1/8	3805 08 10	15	5	19	16,5
8	R1/4	3805 08 13	15	6	18	16,5
8	R3/8	3805 08 17	17	6	18,5	18,5
10	R1/4	3805 10 13	19	6	24	21
10	R3/8	3805 10 17	19	7	22,5	21
12	R1/4	3805 12 13	22	7	25	24
12	R3/8	3805 12 17	22	8	24	24
12	R1/2	3805 12 21	22	10	23	24

ØD	C		F	F1	H	K
4	1/8	3805 04 11	11	3	14,5	12
6	1/8	3805 06 11	13	4	18	14
6	1/4	3805 06 14	14	4	16,5	15
8	1/8	3805 08 11	15	5	19	16,5
8	1/4	3805 08 14	15	6	18	16,5
10	1/4	3805 10 14	19	6	24	21
10	3/8	3805 10 18	19	7	22,5	21
12	1/4	3805 12 14	22	7	25	24
12	3/8	3805 12 18	22	8	24	24
12	1/2	3805 12 22	22	10	23	24

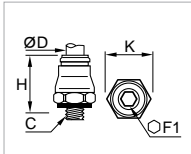
3821 male stud standpipe, BSP taper and NPT



ØD	C		F	H
4	R1/8	3821 04 10	10	21
6	R1/8	3821 06 10	10	23
6	R1/4	3821 06 13	14	24
8	R1/8	3821 08 10	11	24
8	R1/4	3821 08 13	14	25
10	R1/4	3821 10 13	19	30
10	R3/8	3821 10 17	19	30
12	R1/4	3821 12 13	19	31
12	R3/8	3821 12 17	19	31
12	R1/2	3821 12 21	22	32

ØD	C		K	F	H
4	1/8	3821 04 11	12	11	21
6	1/8	3821 06 11	12	11	23
6	1/4	3821 06 14	15	14	24
8	1/8	3821 08 11	15	14	24
8	1/4	3821 08 14	15	14	25
10	1/4	3821 10 14	15	14	30
10	3/8	3821 10 18	18,5	17	30
12	1/4	3821 12 14	15	14	31
12	3/8	3821 12 18	18,5	17	31
12	1/2	3821 12 22	24	22	32

3801 male stud, round body, BSP parallel and M5

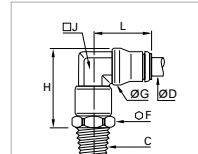


this fitting has an internal hexagon for assembly/dis-assembly by allen key

ØD	C		F	F1	H	K
4	M5x0,8	3801 04 19	10	2,5	17	11
4	G1/8	3801 04 10	13	3	16,5	14

fluoropolymer sealing washer

3809 male stud elbow, BSP taper and NPT

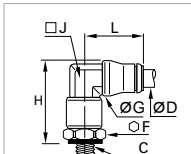


this fitting orientates for positioning purposes

ØD	C		F	G	H	J	L
4	R1/8	3809 04 10	10	10	23,5	7	16,5
6	R1/8	3809 06 10	13	12	27,5	9	20
6	R1/4	3809 06 13	14	12	27,5	9	20
8	R1/8	3809 08 10	14	15	32	11	22
8	R1/4	3809 08 13	14	15	32	11	22
10	R1/4	3809 10 13	19	17,5	37,5	13	27,5
10	R3/8	3809 10 17	19	17,5	37,5	13	27,5

ØD	C		F	G	H	J	L
4	1/8	3809 04 11	11	10	25,5	7	18,5
6	1/8	3809 06 11	13	12,5	29	9	22,5
6	1/4	3809 06 14	14	12,5	29	9	22,5
8	1/8	3809 08 11	14	15	34	11	24
8	1/4	3809 08 14	14	15	34	11	24
10	1/4	3809 10 14	19	17,5	39,5	13	30
10	3/8	3809 10 18	19	17,5	39,5	13	30

3899 male stud elbow, M5



this fitting orientates for positioning purposes

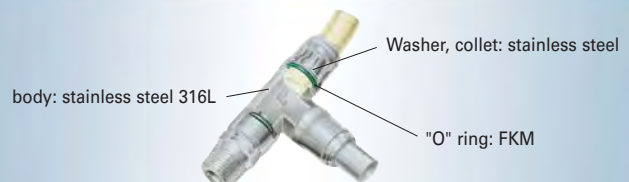
ØD	C		F	G	H	J	L
4	M5x0,8	3899 04 19	10	10	26	7	18

fluoropolymer sealing washer

Technical specifications of LF 3800 push-in fittings

Working pressure: maximum 20 bar, dependant on the tubing used

Working temperature: - 20°C to + 120°C, dependant on the tubing used



connection solutions in stainless steel

LF 3800 push-in fittings

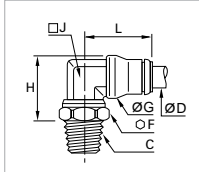
Order from: MARYLAND METRICS
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 RFQ form: http://mdmetric.com/rfq.htm

● for metric tubing

3889 compact male stud elbow, BSP taper and NPT



ØD	C		F	G	H	J	L
4	R1/8	3889 04 10	13	10	18	7	17
4	R1/4	3889 04 13	17	10	19,5	7	16,5
6	R1/8	3889 06 10	13	12	21,5	9	20,5
6	R1/4	3889 06 13	14	12	21,5	9	20,5
8	R1/8	3889 08 10	14	15	24	11	22
8	R1/4	3889 08 13	14	15	24	11	22
10	R1/4	3889 10 13	17	17,5	28,5	13	27,5
10	R3/8	3889 10 17	19	17,5	28,5	13	27,5
12	R1/4	3889 12 13	22	20	33,5	15	30
12	R3/8	3889 12 17	22	20	33,5	15	30
12	R1/2	3889 12 21	22	20	33,5	15	33



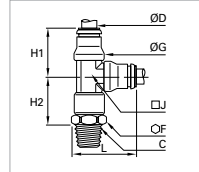
this fitting orientates for positioning purposes

ØD	C		F	G	H	J	L
4	1/8	3889 04 11	13	10	17,5	7	19
6	1/8	3889 06 11	13	12,5	20	9	22,5
6	1/4	3889 06 14	14	12,5	20	9	22,5
8	1/8	3889 08 11	13	15	25	11	24
8	1/4	3889 08 14	14	15	24	11	24
10	1/4	3889 10 14	17	17,5	27,5	13	27,5
10	3/8	3889 10 18	19	17,5	28,5	13	26,5
12	1/4	3889 12 14	22	20	31,5	15	32,5
12	3/8	3889 12 18	22	20	32,5	15	32,5
12	1/2	3889 12 22	22	20	27,5	15	32,5

3803 male stud run tee, BSP taper and NPT



ØD	C		F	G	H1	H2	J	L
4	R1/8	3803 04 10	10	10	17	19	7	22
6	R1/8	3803 06 10	13	12	20	22	9	26,5
6	R1/4	3803 06 13	14	15	20	22	9	27
8	R1/8	3803 08 10	14	15	23	24	11	31
8	R1/4	3803 08 13	14	15	23	24	11	31
10	R1/4	3803 10 13	19	17,5	29	30	13	38
10	R3/8	3803 10 17	19	17,5	29	30	13	38



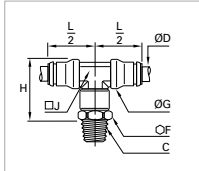
this fitting orientates for positioning purposes

ØD	C		F	G	H1	H2	J	L
4	1/8	3803 04 11	11	10	19	21	7	25
6	1/8	3803 06 11	13	12	21	24	9	27
6	1/4	3803 06 14	14	15	21	24	9	27,5
8	1/8	3803 08 11	14	15	24	26,5	11	30,5
8	1/4	3803 08 14	14	15	24	26,5	11	30,5
10	1/4	3803 10 14	19	17,5	29,5	31	13	37,5
10	3/8	3803 10 18	19	17,5	29,5	31	13	37,5

3808 male stud branch tee, BSP taper and NPT



ØD	C		F	G	H	J	$\frac{L}{2}$
4	R1/8	3808 04 10	10	10	23,5	7	17
6	R1/8	3808 06 10	13	12	27,5	9	20
6	R1/4	3808 06 13	14	12	27,5	9	20
8	R1/8	3808 08 10	14	15	32	11	22
8	R1/4	3808 08 13	14	15	32	11	22
10	R1/4	3808 10 13	19	17,5	37,5	13	27,5
10	R3/8	3808 10 17	19	17,5	37,5	13	27,5



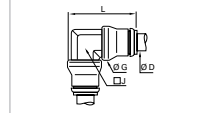
this fitting orientates for positioning purposes

ØD	C		F	G	H	J	$\frac{L}{2}$
4	1/8	3808 04 11	11	10	22	7	19,5
6	1/8	3808 06 11	13	12,5	30	9	22,5
6	1/4	3808 06 14	14	12,5	30	9	22,5
8	1/8	3808 08 11	14	15	34	11	24
8	1/4	3808 08 14	14	15	34	11	24
10	1/4	3808 10 14	19	17,5	40	13	29,5
10	3/8	3808 10 18	19	17,5	40	13	29,5

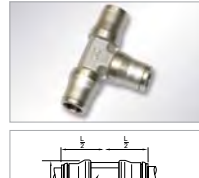
3802 equal elbow



ØD		G	J	L
4	3802 04 00	10	7	21,5
6	3802 06 00	12	9	26,5
8	3802 08 00	15	11	29,5
10	3802 10 00	17,5	13	36,5
12	3802 12 00	20	15	40



3804 equal tee



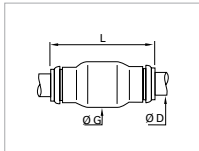
ØD		G	H	J	$\frac{L}{2}$
4	3804 04 00	10	22	7	17
6	3804 06 00	12	26	9	20
8	3804 08 00	15	29,5	11	22
10	3804 10 00	17,5	36,5	13	27,5
12	3804 12 00	20	40	15	33



3806 equal straight connector



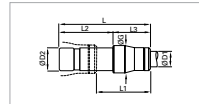
ØD		G	L
4	3806 04 00	10	29
6	3806 06 00	12	34
8	3806 08 00	15	36
10	3806 10 00	17,5	45
12	3806 12 00	20	46,5



3866 push-in reducer



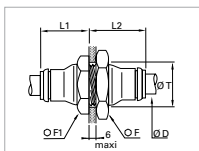
ØD1	ØD2		L3	G	L	L1	L2
4	6	3866 04 06	16	10	35	19	19
4	8	3866 04 08	14	10	34	17	20
6	8	3866 06 08	19	12	42	24	23
6	10	3866 06 10	16	12	41	19	25
8	10	3866 08 10	20	15	45	22,5	25
8	12	3866 08 12	17	15	43	20	26
10	12	3866 10 12	24	17,5	50	23	26



3816 equal bulkhead connector



ØD		F	F1	L1	L2	T
4	3816 04 00	13	14	13,5	19,5	13
6	3816 06 00	17	17	16,5	21,5	14
8	3816 08 00	19	19	18	24	16
10	3816 10 00	22	22	21,5	27,5	21
12	3816 12 00	24	24	24	29	23



3800 cartridge

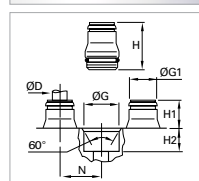


ØD		$\begin{matrix} G \\ +0,1 \\ -0 \end{matrix}$	G1	H	H1	H2	N
4	3800 04 00	9,8	8	17	8,5	8,5	11
6	3800 06 00	12,1	10	19	10,5	8,5	13,5
8	3800 08 00	14,8	13	21	12,5	8,5	16
10	3800 10 00	17,5	15	24,5	14	10,5	20
12	3800 12 00	20	17	25	14,5	10,5	22,5

The use of this cartridge:

- eliminates the need to use threads
- allows compact assembly with reduced height
- provides instant connection and disconnection of the tube

We can supply cartridge inserts for fitting into various materials
 Please contact us with your specific requirements.



connection solutions in stainless steel

LF 3800 push-in fittings

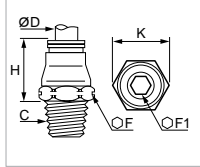
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● for imperial tubing

3805 male stud, NPT



ØD	C		F	F1	H	K
3/16	1/8	3805 55 11	13	3	14,5	14
3/16	1/4	3805 55 14	14	3	14,5	15
1/4	1/8	3805 56 11	13	4	18	14
1/4	1/4	3805 56 14	14	4	17	15
5/16	1/8	3805 08 11	15	4	19	16,5
5/16	1/4	3805 08 14	15	6	18	16,5
3/8	1/4	3805 60 14	19	6	23,5	21
3/8	3/8	3805 60 18	19	7	22	21
1/2	1/4	3805 62 14	22	7	25	24
1/2	3/8	3805 62 18	22	8	24	24
1/2	1/2	3805 62 22	22	10	23	24

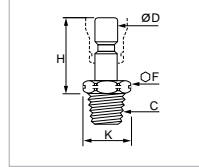


this fitting has an internal hexagon for assembly/disassembly by allen key

3821 male stud standpipe, NPT



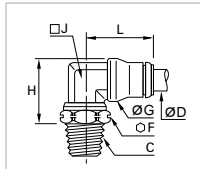
ØD	C		F	H	K
3/16	1/8	3821 55 11	11	21	12
1/4	1/8	3821 56 11	11	23	12
1/4	1/4	3821 56 14	14	24	15
5/16	1/8	3821 08 11	11	24	12
5/16	1/4	3821 08 14	14	25	15
3/8	1/4	3821 60 14	14	30	15
3/8	3/8	3821 60 18	17	30	18,5
1/2	1/4	3821 62 14	14	31	15
1/2	3/8	3821 62 18	17	31	18,5
1/2	1/2	3821 62 22	22	32	24



3889 compact male stud elbow, NPT



ØD	C		F	G	H	J	L
3/16	1/8	3889 55 11	13	11	18	7	19,5
3/16	1/4	3889 55 14	14	11	18	7	19,5
1/4	1/8	3889 56 11	13	12,5	20	9	23
1/4	1/4	3889 56 14	14	12,5	20	9	23
5/16	1/8	3889 08 11	13	15	24,5	11	24,5
5/16	1/4	3889 08 14	14	15	23,5	11	24,5
3/8	1/4	3889 60 14	17	17	27,5	13	30
3/8	3/8	3889 60 18	19	17	27,5	13	30
1/2	1/4	3889 62 14	22	21	32	15	33
1/2	3/8	3889 62 18	22	21	32,5	15	33
1/2	1/2	3889 62 22	22	21	28	15	33

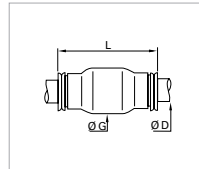


this fitting orientates for positioning purposes

3806 equal straight connector



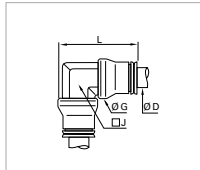
ØD		G	L
3/16	3806 55 00	11	28,5
1/4	3806 56 00	12,5	34
5/16	3806 08 00	15	36
3/8	3806 60 00	17	45
1/2	3806 62 00	21	47



3802 equal elbow



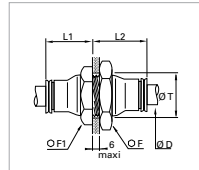
ØD		G	J	L
3/16	3802 55 00	11	7	24,5
1/4	3802 56 00	12,5	9	28,5
5/16	3802 08 00	15	11	31,5
3/8	3802 60 00	17	13	38,5
1/2	3802 62 00	21	15	42



3816 equal bulkhead connector



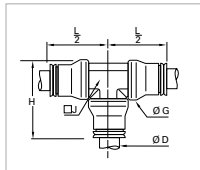
ØD		F	F1	L1	L2	T
3/16	3816 55 00	17	13	13,5	19	12,5
1/4	3816 56 00	19	17	16,5	21,5	14,5
5/16	3816 08 00	19	19	18	23	16,5
3/8	3816 60 00	27	22	21,5	26,5	20,5
1/2	3816 62 00	27	27	23	27	22,5



3804 equal tee



ØD		G	H	J	L/2
3/16	3804 55 00	11	25	7	19
1/4	3804 56 00	12,5	28,5	9	22
5/16	3804 08 00	15	31,5	11	24
3/8	3804 60 00	17	38	13	30
1/2	3804 62 00	21	42	15	32

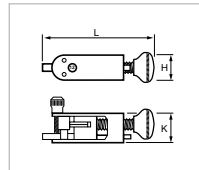


3800 pre-grooving tool for stainless steel tubing, metric and imperial



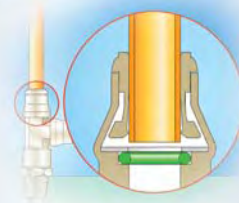
	K	H	L
3800 70 00	25	30	105

This tool correctly pre-grooves 4-12 o.d. and 3/16"-1/2" o.d. stainless steel tube, to ensure that each LF 3800 collet grips the tube securely.



Instant connection LF 3800 fittings provide:

- time saving and easy installation
- full bore flow capability
- compact assembly

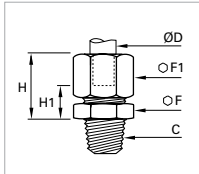


connection solutions in stainless steel

compression fittings

Order from: MARYLAND METRICS
 email: sales@mdmetric.com
 web: http://mdmetric.com
 RFQ form: http://mdmetric.com/rfq.htm

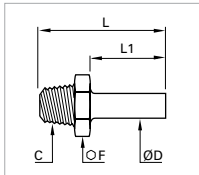
1805 male stud coupling, BSP taper and NPT



ØD	C		F	F1	H _{maxi}	H1
6	R1/8	1805 06 10	12	13	19,5	7,5
6	R1/4	1805 06 13	14	13	19,5	7,5
8	R1/8	1805 08 10	13	14	21	7
8	R1/4	1805 08 13	14	14	21	7
10	R1/4	1805 10 13	17	19	25,5	9
10	R3/8	1805 10 17	17	19	25,5	9
10	R1/2	1805 10 21	22	19	25,5	10
12	R1/4	1805 12 13	19	22	26	9
12	R3/8	1805 12 17	19	22	26	9
12	R1/2	1805 12 21	22	22	27	10
16	R3/8	1805 16 17	24	27	28,5	9,5
16	R1/2	1805 16 21	24	27	28,5	9,5

ØD	C		F	F1	H _{maxi}	H1
6	1/8	1805 06 11	12	13	19,5	7,5
6	1/4	1805 06 14	14	13	19,5	7,5
6	3/8	1805 06 18	19	13	20,5	8,5
6	1/2	1805 06 22	22	13	21,5	9,5
8	1/8	1805 08 11	13	14	21	7
8	1/4	1805 08 14	14	14	21	7
10	1/4	1805 10 14	17	19	25,5	9
10	3/8	1805 10 18	19	19	25,5	9
10	1/2	1805 10 22	22	19	26,5	10
12	1/4	1805 12 14	19	22	26	9
12	3/8	1805 12 18	19	22	26	9
12	1/2	1805 12 22	22	22	27	10
16	3/8	1805 16 18	24	27	28,5	9,5
16	1/2	1805 16 22	24	27	28,5	9,5

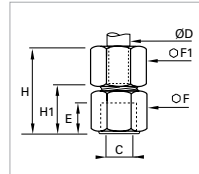
1820 straight stem adaptor, BSP taper and NPT



ØD	C		F	L	L1
6	R1/8	1820 06 10	12	26,5	15
6	R1/4	1820 06 13	14	31	15
8	R1/8	1820 08 10	12	28,5	17
8	R1/4	1820 08 13	14	33	17
10	R1/4	1820 10 13	14	36	20
10	R3/8	1820 10 17	17	36,5	20
10	R1/2	1820 10 21	22	41	20
12	R1/4	1820 12 13	14	36	20
12	R3/8	1820 12 17	17	36,5	20
12	R1/2	1820 12 21	22	41	20
16	R3/8	1820 16 17	17	39,5	23
16	R1/2	1820 16 21	22	44	23

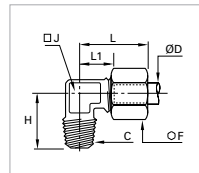
ØD	C		F	L	L1
6	1/8	1820 06 11	12	26,5	15
6	1/4	1820 06 14	14	31	15
8	1/8	1820 08 11	12	28,5	17
8	1/4	1820 08 14	14	33	17
10	1/4	1820 10 14	14	36	20
10	3/8	1820 10 18	19	36,5	20
10	1/2	1820 10 22	22	41	20
12	1/4	1820 12 14	14	36	20
12	3/8	1820 12 18	19	36,5	20
12	1/2	1820 12 22	22	41	20
16	3/8	1820 16 18	19	39,5	23
16	1/2	1820 16 22	22	44	23

1814 female stud coupling, BSP parallel



ØD	C		E	F	F1	H _{maxi}	H1
6	G1/8	1814 06 10	7,5	14	13	29	17
6	G1/4	1814 06 13	11	17	13	29	21
8	G1/4	1814 08 13	11	17	14	34,5	20,5
10	G3/8	1814 10 17	11,5	22	19	38,5	22
10	G1/2	1814 10 21	15	27	19	43	26,5
12	G3/8	1814 12 17	11,5	22	22	39	22
12	G1/2	1814 12 21	15	27	22	43,5	26,5
16	G1/2	1814 16 21	15	27	27	45	26

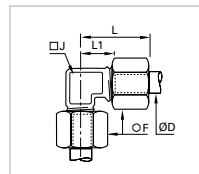
1809 male stud elbow, BSP taper and NPT



ØD	C		F	H	J	L _{maxi}	L1
6	R1/8	1809 06 10	13	18	8	25,5	13,5
6	R1/4	1809 06 13	13	23	10	25,5	13,5
8	R1/8	1809 08 10	14	20,5	10	28,5	14,5
8	R1/4	1809 08 13	14	23	10	28,5	14,5
10	R1/4	1809 10 13	19	25	12	32,5	16
10	R3/8	1809 10 17	19	25,5	12	32,5	16
10	R1/2	1809 10 21	19	32	18	36,5	20
12	R1/4	1809 12 13	22	26	14	34	17
12	R3/8	1809 12 17	22	27	14	34	17
12	R1/2	1809 12 21	22	32	18	37	20
16	R3/8	1809 16 17	27	28,5	18	39,5	21
16	R1/2	1809 16 21	27	31,5	18	39,5	21

ØD	C		F	H	J	L _{maxi}	L1
6	1/8	1809 06 11	13	19,5	8	25,5	13,5
6	1/4	1809 06 14	13	25,5	10	25,5	13,5
6	3/8	1809 06 18	13	28	12	27	15
6	1/2	1809 06 22	13	34	12	29	17
8	1/8	1809 08 11	14	22	10	28,5	14,5
8	1/4	1809 08 14	14	25,5	10	28,5	14,5
10	1/4	1809 10 14	19	27,5	12	32,5	16
10	3/8	1809 10 18	19	28	12	32,5	16
10	1/2	1809 10 22	19	35	18	36,5	20
12	1/4	1809 12 14	22	28,5	14	34	17
12	3/8	1809 12 18	22	29,5	14	34	17
12	1/2	1809 12 22	22	35	18	37	20
16	3/8	1809 16 18	27	31	18	39,5	21
16	1/2	1809 16 22	27	34,5	18	39,5	21

1802 equal elbow



ØD		F	J	L _{maxi}	L1
6	1802 06 00	13	8	25,5	13,5
8	1802 08 00	14	10	28,5	14,5
10	1802 10 00	19	12	32,5	16
12	1802 12 00	22	14	34	17
16	1802 16 00	27	18	39,5	21

Technical specifications of compression fittings

Working pressure: 80 bar depending on tube used

Can also be used for industrial vacuum applications

Maximum working temperature: up to 250°C dependent on working pressure

Material: stainless steel 316L

Maximum tightening torque with stainless steel tube of 1 mm wall thickness

Ø	6	8	10	12	16
m.daN	2	3	4	6,5	9,5

connection solutions in stainless steel

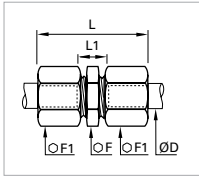
compression fittings

Order from: MARYLAND METRICS
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1806 equal connector



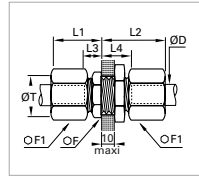
ØD		F	F1	L _{maxi}	L1
6	1806 06 00	12	13	34,5	11
8	1806 08 00	13	14	38,5	10
10	1806 10 00	17	19	46	13
12	1806 12 00	19	22	47	13
16	1806 16 00	24	27	51	13



1816 bulkhead coupling



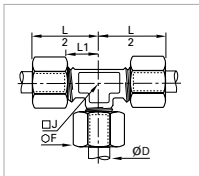
ØD		F	F1	L1 _{maxi}	L2 _{maxi}	L3	L4	T _{mini}
6	1816 06 00	13	13	19	28	7,5	17,5	10,5
8	1816 08 00	14	14	20	29	7	17	12,5
10	1816 10 00	19	19	25	33	9	19	16,5
12	1816 12 00	22	22	25	33	9	19	18,5
16	1816 16 00	27	27	28	36	9,5	19,5	22,5



1804 equal tee



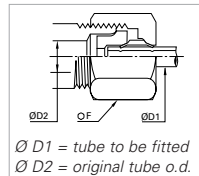
ØD		F	J	L ₂	L1
6	1804 06 00	13	8	25,5	13,5
8	1804 08 00	14	10	28,5	14,5
10	1804 10 00	19	12	32,5	16
12	1804 12 00	22	14	34	17
16	1804 16 00	27	18	39,5	21



1866 reduction assembly

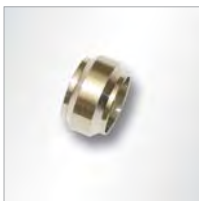


ØD1	ØD2		F
6	8	1866 06 08	14
8	10	1866 08 10	19
6	10	1866 06 10	19
10	12	1866 10 12	22
8	12	1866 08 12	22
6	12	1866 06 12	22
12	16	1866 12 16	27
10	16	1866 10 16	27
8	16	1866 08 16	27

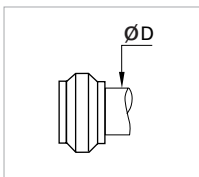


Each assembly comprises:
 - a reduction adaptor
 - an olive
 - an extended sleeve nut

1824 olive



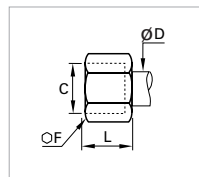
ØD	
6	1824 06 00
8	1824 08 00
10	1824 10 00
12	1824 12 00
16	1824 16 00



1810 sleeve nut



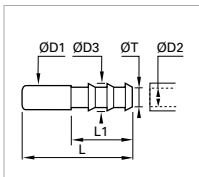
ØD	C		F	L
6	M10x1	1810 06 00	13	11
8	M12x1	1810 08 00	14	13
10	M16x1,5	1810 10 00	19	15
12	M18x1,5	1810 12 00	22	15
16	M22x1,5	1810 16 00	27	17



1822 tailpiece adaptor for rubber hose



ØD1	ØD2		ØD3	L	L1	ØT _{mini}
6	7	1822 06 07	9	37,5	22,5	6
8	6	1822 08 06	8	40	22,5	5
8	7	1822 08 07	9	40	22,5	6
8	10	1822 08 10	12,5	40	22,5	9
10	7	1822 10 07	9	43	22,5	6
10	10	1822 10 10	12,5	43	22,5	9
12	10	1822 12 10	12,2	43	22,5	9
12	13	1822 12 13	15	50	29,5	13



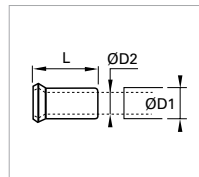
1822 tailpiece adaptors insert directly into any coupling and are secured with the nut and olive supplied for the assembly.

1827 ferrule for plastic and fluoropolymer tubing



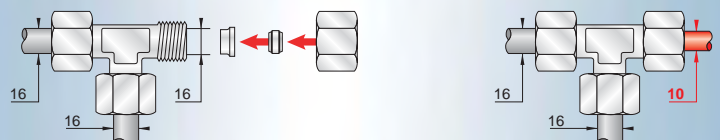
ØD	C		L
6	4	1827 06 00	11,5
8	6	1827 08 00	14
10	8	1827 10 00	18
12	10	1827 12 00	18
16	14	1827 16 00	18

This ferrule is necessary for tubing wall support when using nylon and FEP 140 tubing at all temperatures that are compatible with the complete assembly.



With the reduction assembly (1866), fewer component parts may be used to connect a number of tube diameters within one fitting assembly.

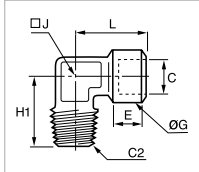
This example shows how to easily complete a fitting assembly with unequal outlets.



1844 equal male stud elbow BSP taper, female BSP parallel



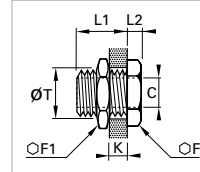
C1	C2		E	G	H1	J	L
R1/8	G1/8	1844 10 10	7,5	15	20,5	10	22,5
R1/4	G1/4	1844 13 13	12	18,5	27,5	12	26,5
R3/8	G3/8	1844 17 17	12	23,5	28	14	30
R1/2	G1/2	1844 21 21	15	28	38	18	38
R3/4	G3/4	1844 27 27	16,5	33	41	22	44,5
R1"	G1"	1844 34 34	19	40	48	32	50



1817-1871 bulkhead adaptor, BSP parallel and NPT



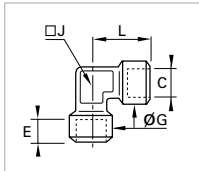
C		F	F1	K _{maxi}	L1	L2	T _{mini}
G1/8	1817 00 10	19	22	9	14	4	16,5
G1/4	1817 00 13	24	27	15	21	4	20,5
G3/8	1817 00 17	30	32	14	21	5	26,5
G1/2	1817 00 21	32	36	20	27	6	28,5
G3/4	1817 00 27	41	41	22,5	30	6	34,5
G1"	1817 00 34	46	50	24,5	34	8	42,5



1843 equal elbow, female BSP parallel



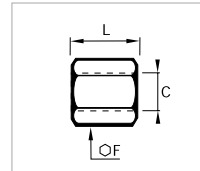
ØD		E	G	J	L
G1/8	1843 10 10	7,5	17,5	12	22,5
G1/4	1843 13 13	11	18,5	15	26,5
G3/8	1843 17 17	11,5	23,5	18	29
G1/2	1843 21 21	15	28	23	38
G3/4	1843 27 27	16,5	33	22	43,5
G1"	1843 34 34	19	40	32	52



1855-1870 double female sleeve, BSP parallel and NPT



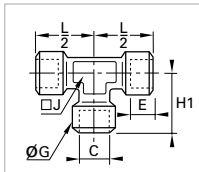
C		F	L
G1/8	1855 10 10	14	17
G1/4	1855 13 13	17	24
G3/8	1855 17 17	22	25
G1/2	1855 21 21	27	32
G3/4	1855 27 27	32	35
G1"	1855 34 34	41	40



1845 equal tee, female BSP parallel



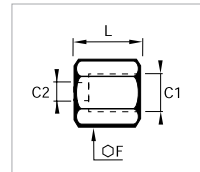
C		E	G	H1	J	L/2
G1/8	1845 10 10	7,5	17,5	22,5	12	22,5
G1/4	1845 13 13	11	18,5	26,5	15	26,5
G3/8	1845 17 17	11,5	23,5	29	18	29
G1/2	1845 21 21	15	28	38	23	38
G3/4	1845 27 27	16,5	33	43,5	22	43,5
G1"	1845 34 34	19	40	50	32	50



1862 reducer/increaser double female sleeve, BSP parallel



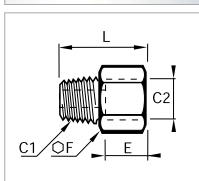
C1	C2		F	L
G1/4	G1/8	1862 13 10	17	20,5
G3/8	G1/8	1862 17 10	22	21
G3/8	G1/4	1862 17 13	22	24,5
G1/2	G1/4	1862 21 13	27	28,5
G1/2	G3/8	1862 21 17	27	29
G3/4	G1/2	1862 27 21	32	39,5
G1"	G3/4	1862 34 27	41	45



1864 male NPT to female BSP parallel adaptor



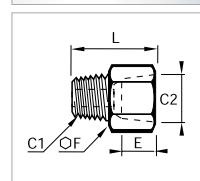
C1	C2		E	F	L
1/8	G1/8	1864 11 10	7,5	14	21,5
1/4	G1/4	1864 14 13	11	17	30
3/8	G3/8	1864 18 17	11,5	22	31
1/2	G1/2	1864 22 21	15	27	39,5



1867 male BSP taper to female NPT adaptor



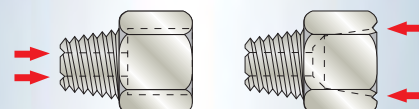
C1	C2		E	F	L
R1/8	1/8	1867 10 11	8	14	21
R1/4	1/4	1867 13 14	11,5	17	28,5
R3/8	3/8	1867 17 18	12	22	29,5
R1/2	1/2	1867 21 22	15,5	27	37,5



technical specifications of adaptors

Working pressure: 150 bar, dependant on the tubing used
Working temperature: - 20°C to + 180°C, dependant on the tubing used
Material: stainless steel 316

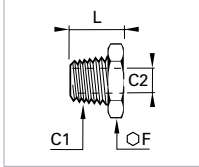
Visual identification of NPT threads on part numbers 1864 - 1867



1863 reducer, male BSP taper to female BSP parallel



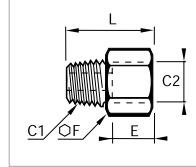
C1	C2		F	L
R1/4	G1/8	1863 13 10	14	16
R3/8	G1/8	1863 17 10	17	16,5
R3/8	G1/4	1863 17 13	17	16,5
R1/2	G1/4	1863 21 13	22	21
R1/2	G3/8	1863 21 17	22	21
R3/4	G1/2	1863 27 21	27	25,5
R1"	G3/4	1863 34 27	36	28,5



1861 increaser, male BSP taper to female BSP parallel



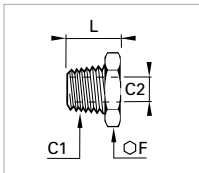
C1	C2		E	F	L
R1/8	G1/4	1861 10 13	11	17	24
R1/8	G3/8	1861 10 17	11,5	22	25
R1/4	G3/8	1861 13 17	11,5	22	28,5
R1/4	G1/2	1861 13 21	15	27	32,5
R3/8	G3/4	1861 17 21	15	27	33
R1/2	G3/4	1861 21 27	16,5	32	38
R3/4	G1	1861 27 34	19	41	43,5



1872 reducer, male/female NPT



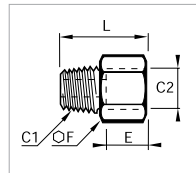
C1	C2		F	L
1/4	1/8	1872 14 11	14	16
3/8	1/8	1872 18 11	19	16,5
3/8	1/4	1872 18 14	19	16,5
1/2	1/4	1872 22 14	22	21
1/2	3/8	1872 22 18	22	21



1873 increaser male/female NPT



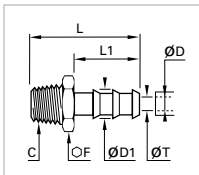
C1	C2		E	F	L
1/8	1/4	1873 11 14	14	17	25
1/8	3/8	1873 11 18	14	22	25
1/4	3/8	1873 14 18	14	22	28,5
1/4	1/2	1873 14 22	17,5	27	31
3/8	1/2	1873 18 22	17,5	27	31,5



1823 tailpiece adaptor for rubber hose, male BSP taper and NPT



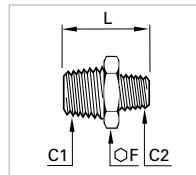
ØD	C		ØD1	F	L	L1	T _{mini}
7	R1/8	1823 07 10	9	10	34	22,5	5
7	R1/4	1823 07 13	9	14	38,5	22,5	6
10	R1/4	1823 10 13	12,2	14	38,5	22,5	7
10	R3/8	1823 10 17	12,2	17	39	22,5	9,5
13	R3/8	1823 13 17	15	17	46	29,5	11
16	R1/2	1823 16 21	18,5	22	59	38	14



1821 straight male BSP taper equal/unequal adaptor



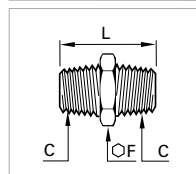
C1	C2		F	L
R1/8	R1/8	1821 10 10	12	19
R1/4	R1/4	1821 13 13	14	27
R1/4	R1/8	1821 13 10	14	23,5
R3/8	R3/8	1821 17 17	17	28
R3/8	R1/4	1821 17 13	17	27,5
R1/2	R1/2	1821 21 21	22	36
R1/2	R3/8	1821 21 17	22	32,5
R3/4	R3/4	1821 27 27	27	42
R3/4	R1/2	1821 27 21	27	41
R1"	R1"	1821 34 34	36	46
R1"	R3/4	1821 34 27	22	48



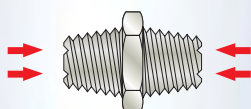
1821 straight male equal NPT adaptor



C		F	L
R1/8	1821 11 11	12	23
R1/4	1821 14 14	14	32
R3/8	1821 18 18	19	33
R1/2	1821 22 22	22	42
R3/4	1821 28 28	27	40
R1"	1821 35 35	36	46



Visual identification of NPT threads on part numbers 1821



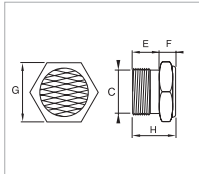
Legris fluoropolymer thread sealing tape (Pt No. 0605) ensures perfect sealing of taper threads. (working temperatures: -250° to +260°).



0682 threaded silencer, male BSP parallel



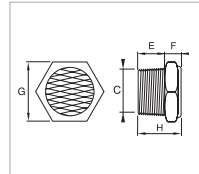
C		E	F	G	H
G1/8	0682 00 10	8	7	14	15
G1/4	0682 00 13	8	7	17	15
G3/8	0682 00 17	10	8	22	18
G1/2	0682 00 21	12	10	27	22
G3/4	0682 00 27	15	12	32	27
G1"	0682 00 34	18	14	38	32



0683 threaded silencer, male NPT



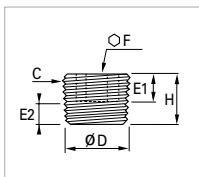
C		E	F	G	H
1/8	0683 00 11	7	7	14	14
1/4	0683 00 14	11	7	17	18
3/8	0683 00 18	11	8	22	19
1/2	0683 00 22	15	10	27	25



0285 internal hexagon headed, BSP taper



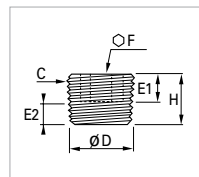
C		∅D	E1	E2 mini	E2 maxi	F	H
R1/8	0285 10 00	9,72	6	3,1	4,9	5	8
R1/4	0285 13 00	13,15	8	4,7	7,3	6	10
R3/8	0285 17 00	16,66	8	5,1	7,7	8	11
R1/2	0285 21 00	20,95	8	6,4	10	10	13
R3/4	0285 27 00	26,44	11	7,7	11,3	14	17
R1"	0285 34 00	33,25	13	8,1	12,7	17	19



0285 internal hexagon headed, NPT



C		∅D	E1	E2 mini	E2 maxi	F	H
1/8	0285 11 00	10,24	6	3,2	5	5	8
1/4	0285 14 00	13,61	8	4,4	7,2	6	10
3/8	0285 18 00	17,05	8	4,7	7,5	8	11
1/2	0285 22 00	21,22	8	6,3	9,9	10	13



Technical specifications of silencers and plugs

Working pressure: 12 bar
Working temperature: - 20°C to + 180°C
Material: stainless steel 316L

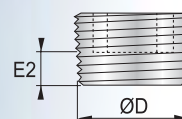
silencers

12 bar
 - 20°C to + 180°C
 stainless steel 316L

plugs

150 bar
 - 20°C to + 180°C
 stainless steel 316L

Definition of dimensions ∅D and E2 for product 0285



D=diameter of gauge drawing
E2=maxi and mini length of gauge diameter (D)

connection solutions in stainless steel

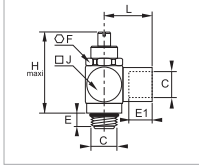
flow control regulators

7810 with threaded fitting, BSP parallel and metric



C	exhaust (A)	E	E1	F	H	J	L
M5x0,8	7810 19 19	4	4	8	24	10	11
G1/8	7810 10 10	5	8	13	38	15	17
G1/4	7810 13 13	8	12	17	40	18	24
G3/8	7810 17 17	7	12	20	53	22	24
G1/2	7810 21 21	8	15	23	69	28	31

= suitable for food applications

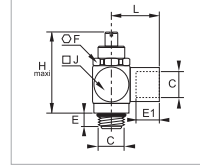


7812 with threaded fitting, BSP parallel and metric



C	bi-directional (C)	E	E1	F	H	J	L
M5x0,8	7812 19 19	4	4	8	24	10	11
G1/8	7812 10 10	5	8	13	38	15	17
G1/4	7812 13 13	8	12	17	40	18	24
G3/8	7812 17 17	7	12	20	53	22	24
G1/2	7812 21 21	8	15	23	69	28	31

= suitable for food applications

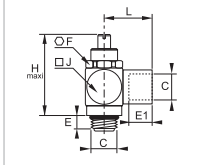


7810-7815 with threaded fitting, UN/UNF and NPT



C	exhaust (A)	E	E1	F	H	J	L
10-32	7810 20 20	4	4	8	24	10	11
1/8	7815 11 11	5	8	13	38	15	17
1/4	7815 14 14	8	12	17	40	18	24
3/8	7815 18 18	7	12	20	53	22	24
1/2	7815 22 22	8	15	23	69	28	31

= suitable for food applications

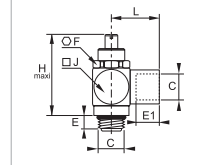


7812-7817 with threaded fitting, UN/UNF and NPT



C	bi-directional (C)	E	E1	F	H	J	L
10-32	7812 20 20	4	4	8	24	10	11
1/8	7817 11 11	5	8	13	38	15	17
1/4	7817 14 14	8	12	17	40	18	24
3/8	7817 18 18	7	12	20	53	22	24
1/2	7817 22 22	8	15	23	69	28	31

= suitable for food applications

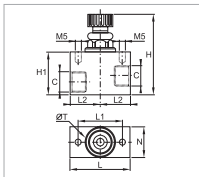


7820 in-line, one-way, BSP parallel



C	DN	H _{maxi}	H1	L	L1	L2	N	ØT
G1/8	7	7820 00 10	67	30	40	30	20	20
G1/4	7	7820 00 13	67	30	40	30	20	20
G3/8	9	7820 00 17	76	35	50	36	25	25
G1/2	12	7820 00 21	87	40	60	42	30	30

Working temperature: -15° to + 120°C
 PN= 16 bar
 NPT threads: please consult us

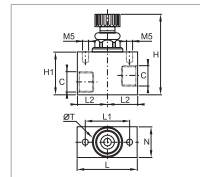


7822 in-line, bi-directional, BSP parallel



C	DN	H _{maxi}	H1	L	L1	L2	N	ØT
G1/8	7	7822 00 10	67	30	40	30	20	20
G1/4	7	7822 00 13	67	30	40	30	20	20
G3/8	9	7822 00 17	76	35	50	36	25	25
G1/2	12	7822 00 21	87	40	60	42	30	30

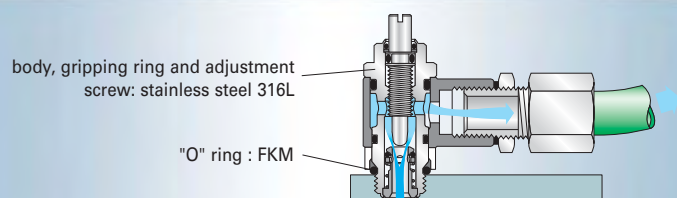
Working temperature: -15° to + 120°C
 PN= 40 bar
 NPT threads: please consult us



Technical specifications of flow control regulators

Working pressure: 1 to 10 bar

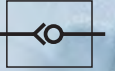
Working temperature: 0°C to + 70°C



connection solutions in stainless steel

non-return valves

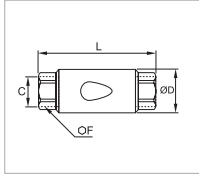
Order from: MARYLAND METRICS
 email: sales@mdmetric.com
 web: http://mdmetric.com
 RFQ form: http://mdmetric.com/rfq.htm



4890 female-female, BSP parallel



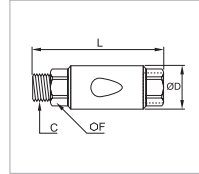
C	DN		ØD	F	L
G1/8	10	4890 10 10	22	17	50
G1/4	10	4890 13 13	22	17	50
G3/8	15	4890 17 17	30	22	67
G1/2	15	4890 21 21	30	25	71
G3/4	20	4890 27 27	42	32	84
G1"	25	4890 34 34	42	38	90



4891 male-female, BSP parallel



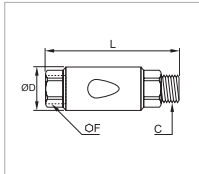
C	DN		ØD	F	L
G1/8	10	4891 10 10	22	17	56
G1/4	10	4891 13 13	22	17	58
G3/8	15	4891 17 17	30	22	75
G1/2	15	4891 21 21	30	25	79
G3/4	20	4891 27 27	42	32	98
G1"	25	4891 34 34	42	38	104



4892 female-male, BSP parallel



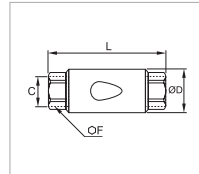
C	DN		ØD	F	L
G1/8	10	4892 10 10	22	17	56
G1/4	10	4892 13 13	22	17	58
G3/8	15	4892 17 17	30	22	75
G1/2	15	4892 21 21	30	25	79
G3/4	20	4892 27 27	42	32	98
G1"	25	4892 34 34	42	38	104



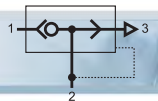
4895 female-female, NPT



C	DN		ØD	F	L
1/8	10	4895 11 11	22	18	50
1/4	10	4895 14 14	22	18	54
3/8	15	4895 18 18	30	22	73
1/2	15	4895 22 22	30	25	77



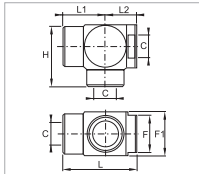
quick vent valves



7899 double female, BSP parallel



C	DN		F	F1	H	L	L1	L2
G1/8	7	7899 00 10	17	22	33	37,5	21	16,5
G1/4	7	7899 00 13	17	22	33	37,5	21	16,5
G3/8	9	7899 00 17	22	26	37	44,5	25,5	19
G1/2	12	7899 00 21	27	32	46	54	31	23
G3/4	18	7899 00 27	38	46	65	79	44	35
G1"	18	7899 00 34	38	46	65	79	44	35



Body stainless steel 316L

- models G1/8 and G1/4:
FKM seals, working temperature: -10° to + 120°C
- models G3/8 to G1":
nylon valve, working temperature: -20° to + 80°C

Also available, male-female, NPT threads: please consult us.

Technical specifications of non-return valves

Working pressure: 0,5 to 40 bar

Working temperature: -20° to + 180°C



connection solutions in stainless steel

industrial ball valves

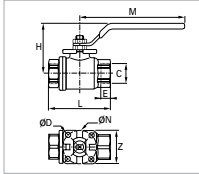
Order from: MARYLAND METRICS
 email: sales@mdmetric.com
 web: http://mdmetric.com
 RFQ form: http://mdmetric.com/rfq.htm

4812 double female, one piece, BSP parallel



C	DN	PN	ØD	E	H	L	M	ØN	Z
G1/4	10	4812 10 13	140	5,5	10	50	55	110	36 36
G3/8	10	4812 10 17	140	5,5	11,4	50	55	110	36 36
G1/2	15	4812 15 21	140	5,5	15	53	66	110	36 36
G3/4	20	4812 20 27	105	5,5	16,3	67	79	130	42 42
G1"	25	4812 25 34	105	5,5	19,1	79	93	175	42 42
G1"1/4	32	4812 32 42*	42	5,5	21,4	83	100	175	42 42
G1"1/2	40	4812 40 49*	42	5,5	21,4	100	110	250	50 50
G2"	50	4812 50 48*	42	8,5	25,7	107	131	250	70 70

*models with CE marking

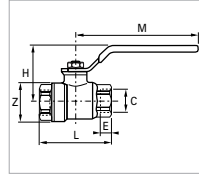


4810 double female, economy version, BSP parallel



C	DN	PN	E	H	L	M	Z
G1/4	8	4810 08 13	64	10	44,5	53,5	110,5 30
G3/8	10	4810 10 17	64	10	44,5	53,5	110,5 30
G1/2	15	4810 15 21	64	13	47	60	110,5 32,5
G3/4	20	4810 20 27	40	14	54,5	70	131,5 40
G1"	25	4810 25 34	40	17	58,5	79	131,5 49

Threads conform to ISO 228/1

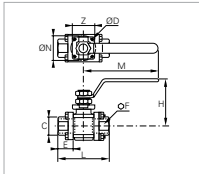


4832 3 piece double female with lateral dismantling, BSP parallel



C	DN	PN	ØD	E	F	H	L	M	N	Z
G1/4	10	4832 10 13	64	-	18	22	50	57	110,5	- -
G3/8	10	4832 10 17	64	-	18	22	50	57	110,5	- -
G1/2	15	4832 15 21	64	6	20,5	27	64	65	131,5	36 36
G3/4	20	4832 20 27	40	5,5	22,5	32	68	76	131,5	42 42
G1"	25	4832 25 34	40	6	27	41	78,5	92	174,5	42 42
G1"1/4	32	4832 32 42*	25	5,5	30	50	83,5	106,5	174,5	42 42
G1"1/2	40	4832 40 49*	25	6,5	31	55	100	116	250,5	50 50
G2"	50	4832 50 48*	25	6,5	36	70	107	136	250,5	50 50

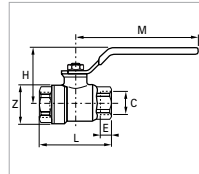
*models with CE marking



4813 double female, light series, NPT



C	DN	PN	E	H	L	M	Z
1/4	8	4813 08 14	64	10	44,5	53,5	110,5 30
3/8	10	4813 10 18	64	10	44,5	53,5	110,5 30
1/2	15	4813 15 22	64	13	47	60	110,5 32,5
3/4	20	4813 20 28	40	14	54,5	70	131,5 40
1"	25	4813 25 35	40	17	58,5	79	131,5 49

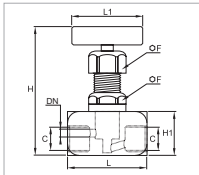


0591 needle valve, bi-directional, BSP parallel



C	DN	PN	F	H	H1	L	L1
G1/8	3	0591 03 10	400	22	99 ^{maxi}	25	45 48
G1/4	4	0591 04 13	400	22	99	25	50 48
G3/8	5	0591 05 17	400	22	104	30	56 48
G1/2	6	0591 06 21	400	22	104	30	62 48

stem seal: PTFE

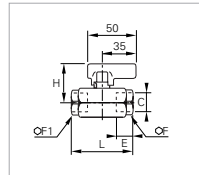


0465 double female, BSP parallel



C	DN	PN	E	F	F1	H	L
G1/4	4	0465 04 13	20	13	19	24	36 50
G3/8	7	0465 07 17	20	13	24	27	39 55
G1/2	10	0465 10 21	20	16	27	30	40 62

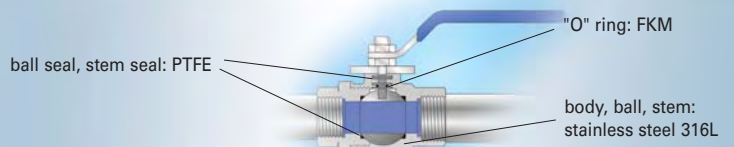
- seals: PTFE
 - handle: nickel plated brass



Technical specifications

Models 4812 - 4832

These valves have a fixing plate for the mounting of pneumatic or electrical actuators. The dimension of this plate conforms to standard ISO 5211. Threads conform to ISO 7/1.

























connection solutions in stainless steel

technical tubing

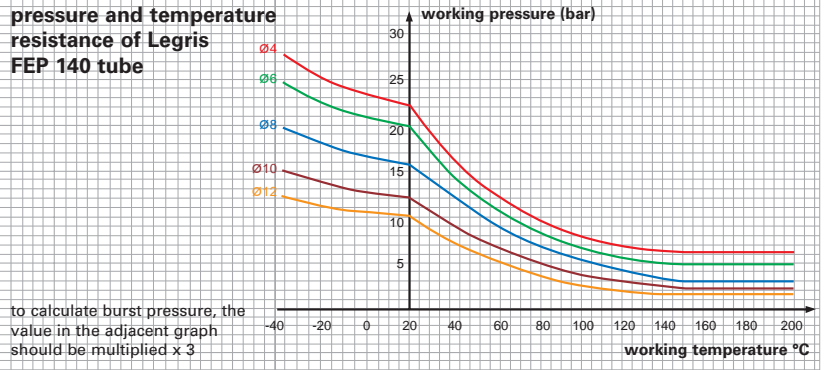
Order from: MARYLAND METRICS
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 web: http://mdmetric.com
 RFQ form: http://mdmetric.com/rfq.htm


1005T-1025T 1092T-1094T fluoropolymer FEP 140 tubing, metric and imperial diameter

o.d. tube mm	i.d. tube mm		R minimum bend radius 20°C (mm)	FEP 140 tube 5 m rolls	FEP 140 tube 25 m rolls	o.d. tube inch	i.d. tube inch		R minimum bend radius 20°C (mm)	FEP 140 tube 7,5 m rolls (25 ft)	FEP 140 tube 30 m rolls (100 ft)	o.d. tube	tolerance on o.d.	
	inch	mm					inch	mm					mm	mm
4	2,5	40			1/8	0.06	40			4 mm	+0,05	-0,05		
6	4	50			1/4	0.17	50			6 to 10 mm	+0,07	-0,07		
8	6	70			3/8	0.30	70			12 mm	+0,10	-0,10		
10	8	120			1/2	0.42	120							
12	10	180												

























pressure and temperature resistance of Legris FEP 140 tube



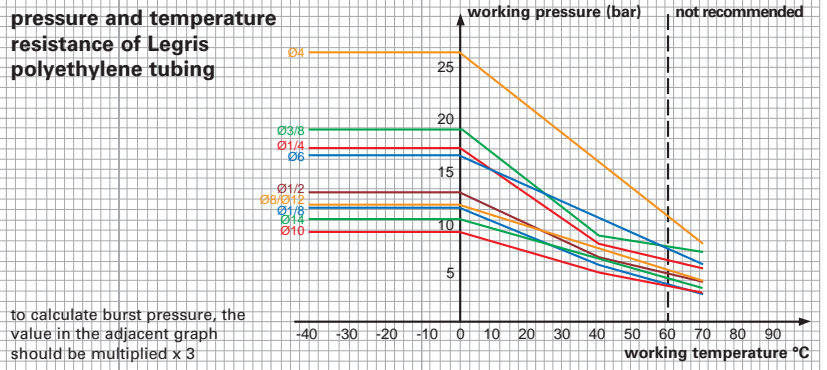
 = for food applications


1025Y-1100Y polyethylene tubing, metric and imperial diameter

o.d. tube mm	i.d. tube		R minimum bend radius 20°C (mm)	Polyethylene tubing imperial, 25 m rolls	o.d. tube mm	i.d. tube mm		R minimum bend radius 20°C (mm)	Polyethylene tubing metric 100 m rolls	o.d. tube	tolerance on o.d.	
	inch	mm					mm		mm			
1/8	0,062	1,57	13		4	2	25			1/8" to 1/2"	+0,1	-0,1
1/4	0,17	4,3	32		6	4	35			4 to 14 mm	+0,1	-0,1
3/8	0,25	6,35	50		8	6	55					
1/2	0,38	9,65	64		10	8	80					
					12	9	65					
					14	11	80					



pressure and temperature resistance of Legris polyethylene tubing



 = for food applications

Legris also provides:

- close tolerance flexible polyester and polyether polyurethane tubing (7 colours, 4 to 14 mm o.d. tube)
- close tolerance semi-rigid nylon tubing (7 colours, 4 to 16 mm o.d. tube)





The international presence of Legris Connectic enables us to provide our customers with problem solving **solutions** and **technical assistance** throughout all 5 continents.

Parker Legris connectic

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