

Fittings for Science and Industry



**WATSON
MARLOW
Alitea**

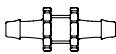
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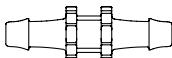
Straight connectors, equal legs

For flexible tubing

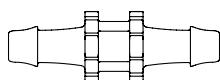
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N004-6005



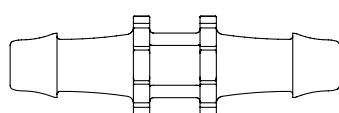
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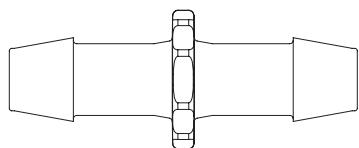
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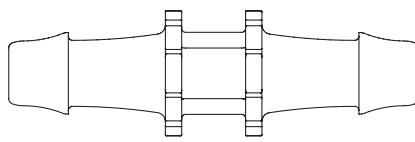
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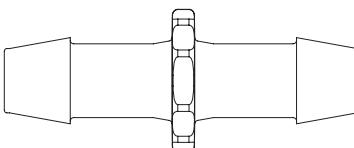
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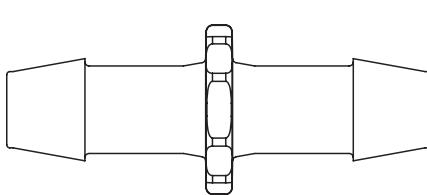
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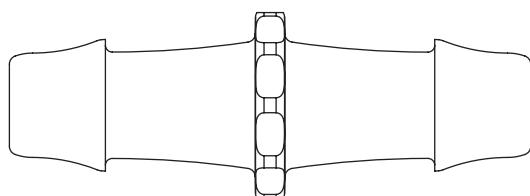
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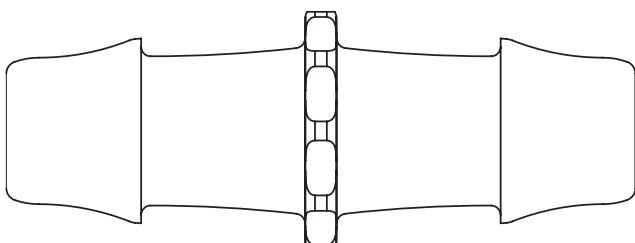
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N680-6005



19.2 mm ID
N100-6005



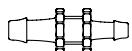
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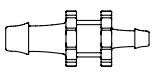
Straight reductions

For flexible tubing

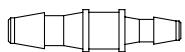
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N007/004-6005



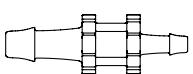
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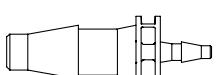
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N230/220-6005



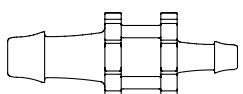
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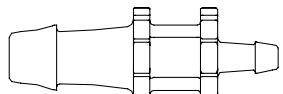
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1050-6005



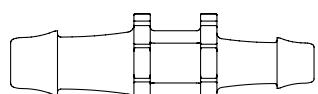
4.8 mm ID to 3.2 mm ID
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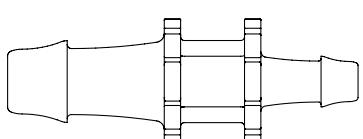
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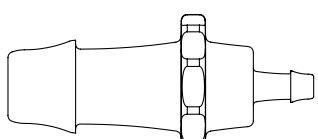
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N055/035-6005



8.0 mm ID to 4.8 mm ID
N065/035-6005



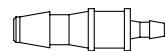
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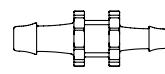
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C6-5WP



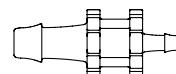
3.2 mm ID to 1.6 mm ID



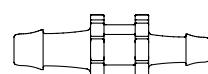
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N013/007-6005



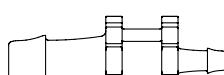
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N025/004-6005



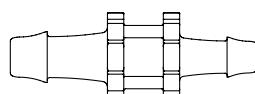
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N025/013-6005



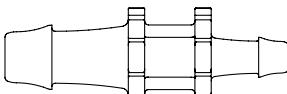
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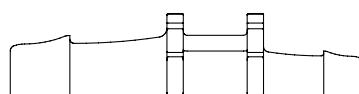
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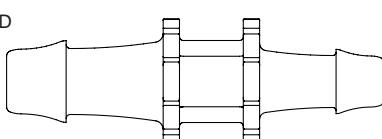
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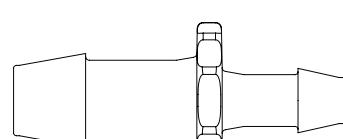
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N065/025-6005



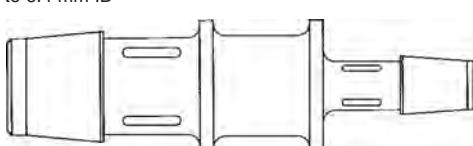
8.0 mm ID to 6.4 mm ID
N065/055-6005



9.6 mm ID to 6.4 mm ID
N670/655-6005



12.7 mm ID to 6.4 mm ID
C8-4WP

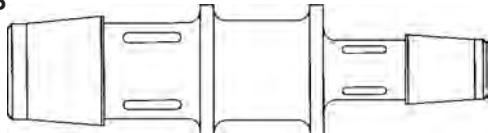


Straight reductions

For flexible tubing

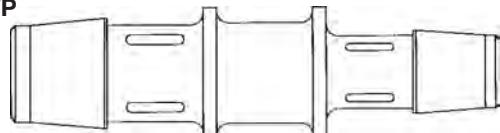
12.7 mm ID to 8.0 mm ID

C8-5WP



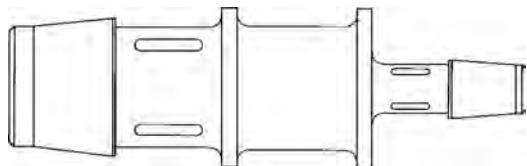
12.7 mm ID to 9.6 mm ID

C8-6WP



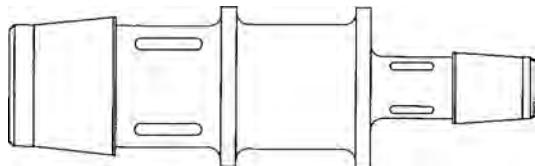
16.0 mm ID to 6.4 mm ID

C10-4WP



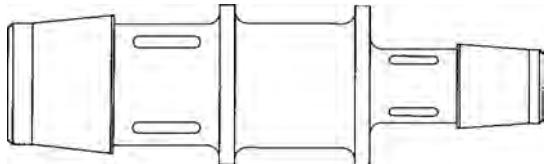
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C10-5WP



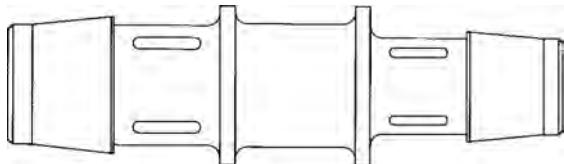
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C10-6WP



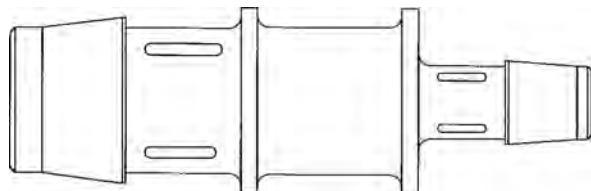
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C10-8WP



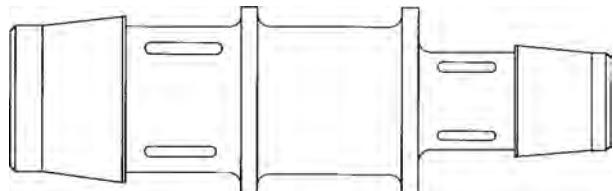
19.2 mm ID to 9.6 mm ID

C12-6WP



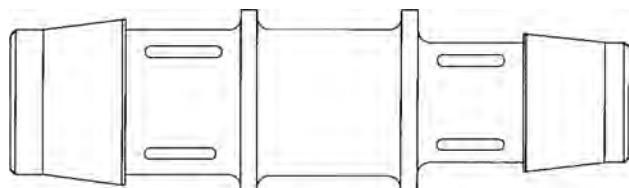
19.2 mm ID to 12.7 mm ID

C12-8WP



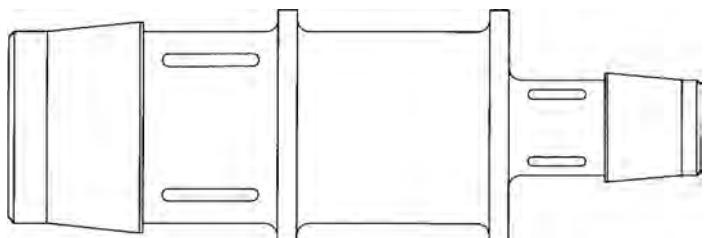
19.2 mm ID to 16.0 mm ID

C12-10WP



25.4 mm ID to 12.7 mm ID

C16-8WP

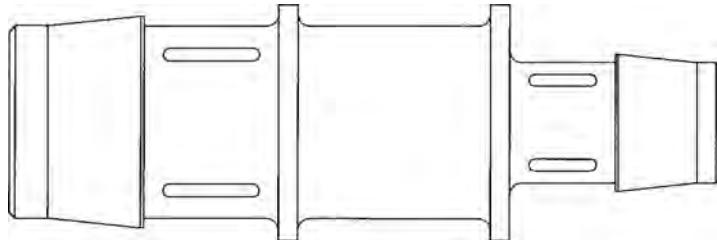


Straight reductions

For flexible tubing

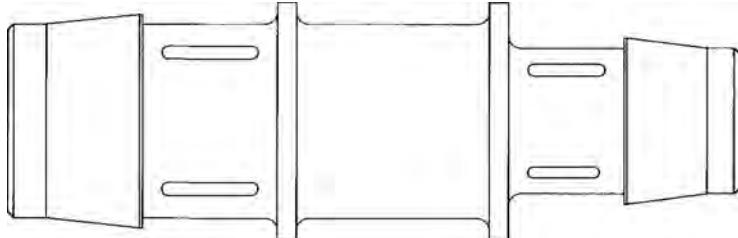
25.4 mm ID to 16.0 mm ID

C16-10WP



25.4 mm ID to 19.2 mm ID

C16-12WP



Also see the Panel Mount section for further tube to tube options.

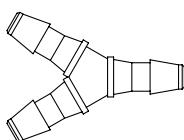
Y-connectors, equal legs

For flexible tubing

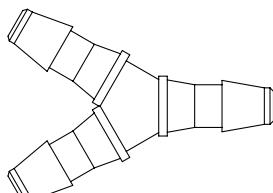
1.6 mm ID
Y210-6005



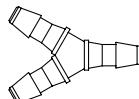
3.2 mm ID
Y230-6005



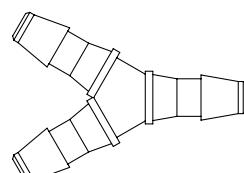
4.8 mm ID
Y250-6005



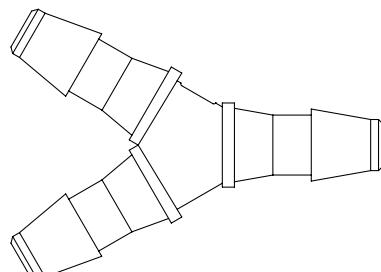
2.4 mm ID
Y220-6005



4.0 mm ID
Y240-6005



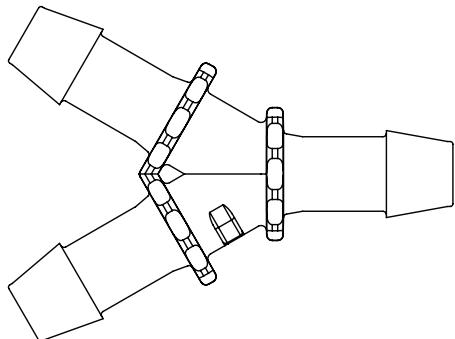
6.4 mm ID
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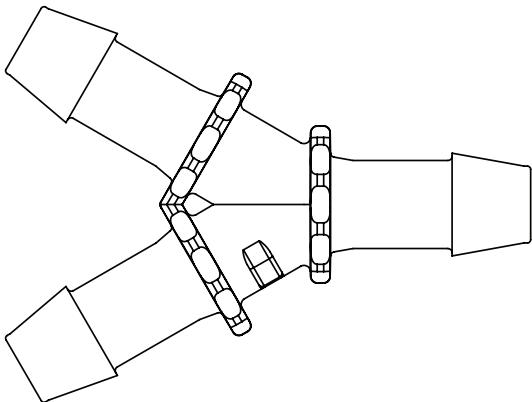
Y-connectors, equal legs

For flexible tubing

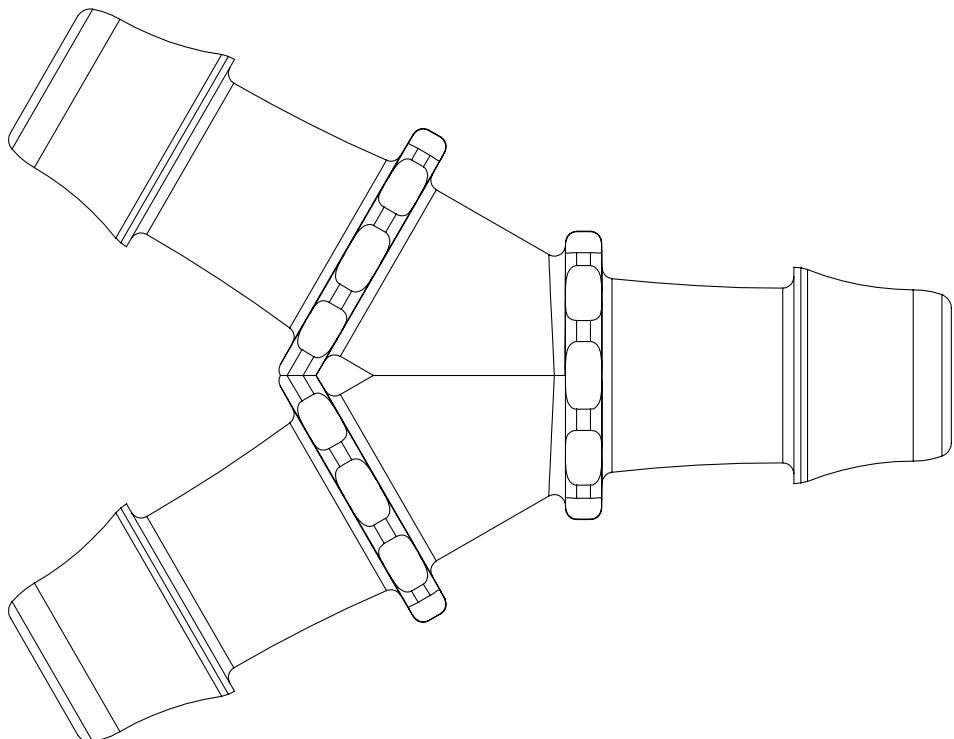
9.5 mm ID
Y670-6005



12.7 mm ID
Y680-6005
16,0 mm ID
Y0-10WP



19,2 mm ID
Y100-6005
25,4 mm ID
Y110-6005



In addition to the Y-connectors in polypropylene shown above, Kynar/PVDF Y-connectors and a wide range of stainless steel manifolds are available from www.flexicon.dk

Elbow connectors, equal legs

For flexible tubing

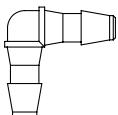
1.6 mm ID

L210-6005



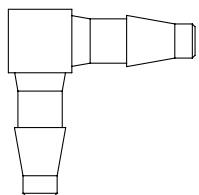
3.2 mm ID

L230-6005



4.8 mm ID

L50-6005



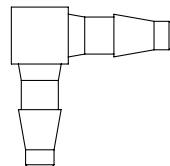
2.4 mm ID

L220-6005



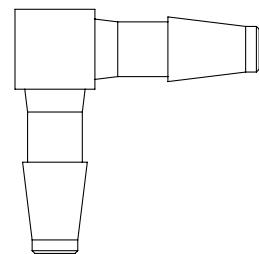
4.0 mm ID

L40-6005



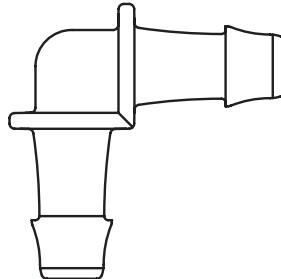
6.4 mm ID

L60-6005



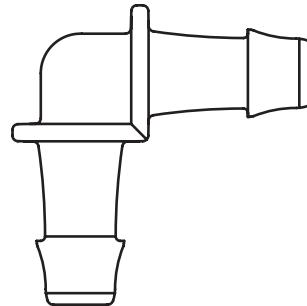
9.6 mm ID

L070-6005



12.7 mm ID

L080-6005



16.0 mm ID

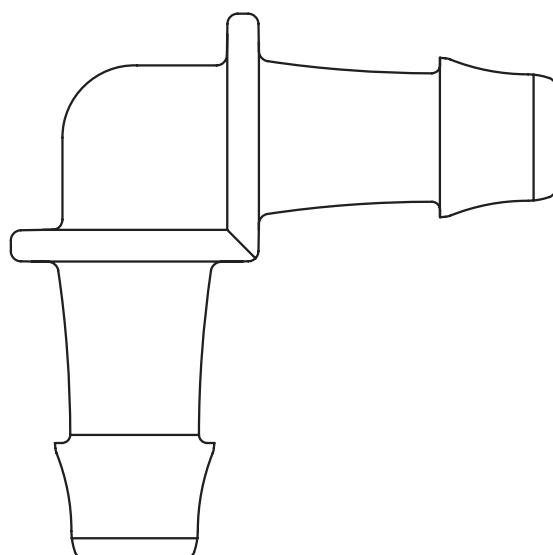
L090-6005

19.2 mm ID

L100-6005

25.4 mm ID

L0-16WP



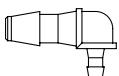
Elbow, reductions

For flexible tubing

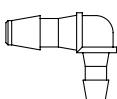
2.4 mm ID to 1.6 mm ID
L220/210-6005



3.2 mm ID to 1.6 mm ID
L230/210-6005



3.2 mm ID to 2.4 mm ID
L230/220-6005



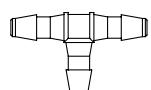
T-connectors, equal legs

For flexible tubing

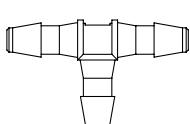
1.6 mm ID
T210-6005



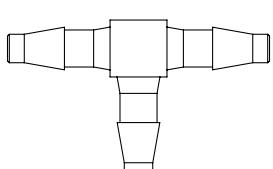
2.4 mm ID
T220-6005



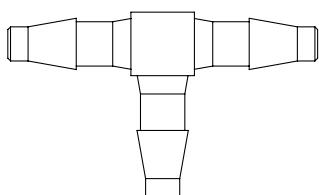
3.2 mm ID
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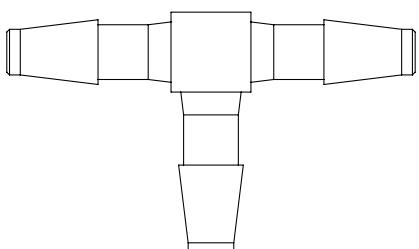
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T40-6005



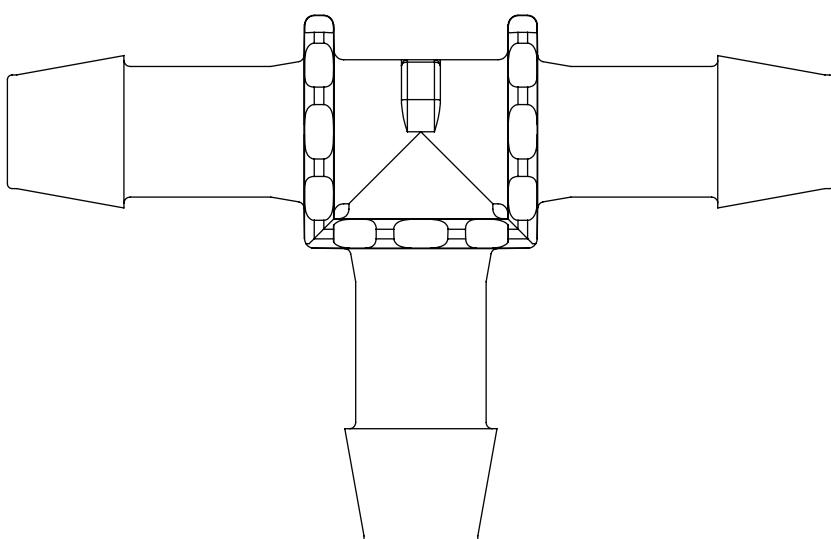
4.8 mm ID
T50-6005



6.4 mm ID
T60-6005



9.5 mm ID
T670-6005



12.7 mm ID
T680-6005

16.0 mm ID
T690-6005

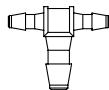
19.0 mm ID
T100-6005

25.4 mm ID

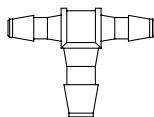
T-connectors, reductions

For flexible tubing

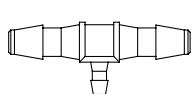
One 2.4 mm ID to two 1.6 mm ID
T210/220-6005



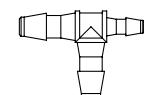
One 3.2 mm ID to two 2.4 mm ID
T220/230-6005



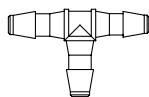
One 1.6 mm ID to two 3.2 mm ID
T230/210-6005



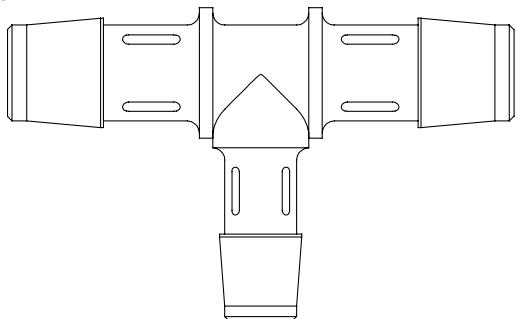
2.4 mm ID elbow with 1.6 mm ID outlet
T220R210-6005



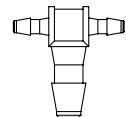
3.2 mm ID elbow with 2.4 mm ID outlet
T230R220-6005



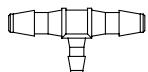
One 9.6 mm ID to two 12.7 mm ID
RT8-6WP



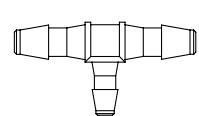
One 3.2 mm ID to two 1.6 mm ID
T210/230-6005



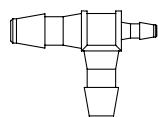
One 1.6 mm ID to two 2.4 mm ID
T220/210-6005



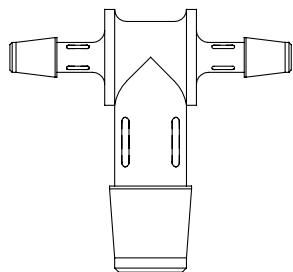
One 2.4 mm ID to two 3.2 mm ID
T230/220-6005



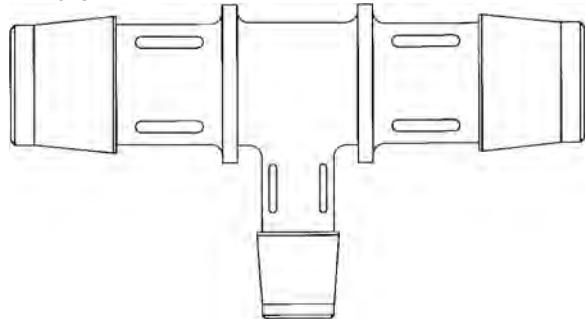
3.2 mm ID elbow with 1.6 mm ID outlet
T230R210-6005



One 9.6 mm ID to two 4.0 mm ID
RT2.5-6WP



One 9.6 mm ID to two 16.0 mm ID
RT10-6WP

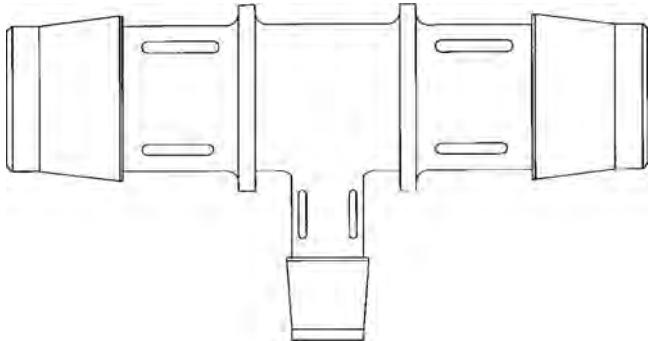


T-connectors, reductions

For flexible tubing

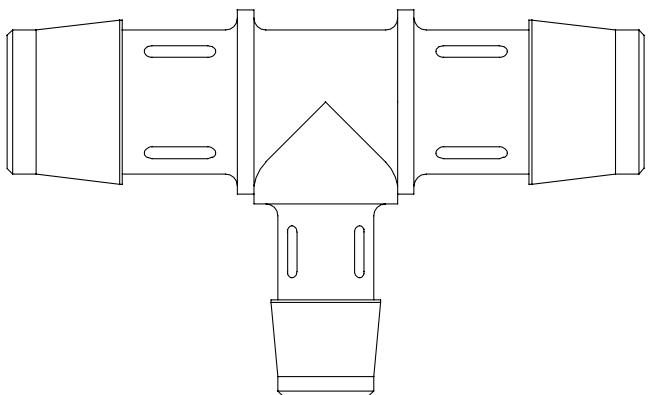
One 9.6 mm ID to two 19.2 mm ID

RT12-6WP



One 12.7 mm ID to two 19.2 mm ID

RT12-8WP



Plugs

For flexible tubing

1.6 mm ID

PIP210-6005



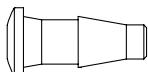
3.2 mm ID

PIP230-6005



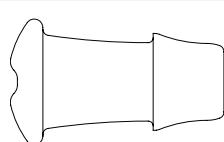
4.8 mm ID

PIP50-6005



9.6 mm ID

PIP070-6005



2.4 mm ID

PIP220-6005



4.0 mm ID

PIP240-6005



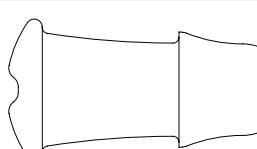
6.4 mm ID

PIP60-6005



12.7 mm ID

PIP080-6005



Tube to tube connectors

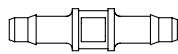
For semi-rigid tubing

Straight connectors, equal legs

for 1.6 mm ID
N410-6005



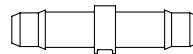
for 3.2 mm ID
N430-6005



for 2.4 mm ID
N420-6005



for 4.0 mm ID
N440-6005



Straight reductions

2.4 mm ID to 1.6 mm ID
N420/410-6005



3.2 mm ID to 2.4 mm ID
N430/420-6005



3.2 mm ID to 1.6 mm ID
N430/410-6005

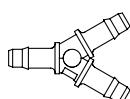


Y-connectors, equal legs

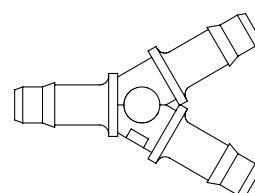
for 1.6 mm ID
Y410-6005



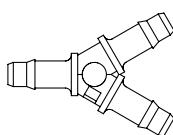
for 2.4 mm ID
Y420-6005



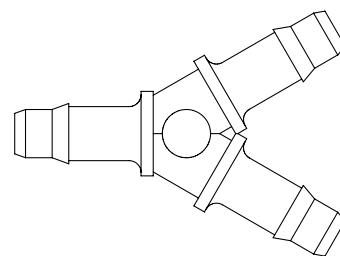
for 4.8 mm ID
Y450-6005



for 3.2 mm ID
Y430-6005



for 6.4 mm ID
Y460-6005



Elbow connectors, equal legs

for 1.6 mm ID
L410-6005



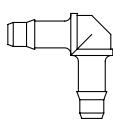
for 2.4 mm ID
L420-6005



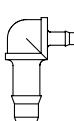
2.4 mm ID to 1.6 mm ID
L420/410-6005



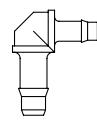
for 3.2 mm ID
L430-6005



3.2 mm ID to 1.6 mm ID
L430/410-6005



3.2 mm ID to 2.4 mm ID
L430/420-6005



Tube to tube connectors

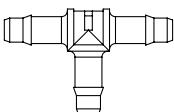
For semi-rigid tubing

T-connectors, equal legs

for 1.6 mm ID
T410-6005

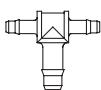


for 3.2 mm ID
T430-6005

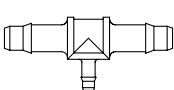


T-connectors, reductions

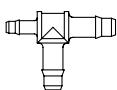
One 2.4 mm ID to two 1.6 mm ID legs
T410/420-6005



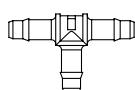
One 1.6 mm ID to two 3.2 mm ID legs
T430/410-6005



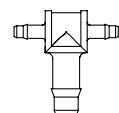
2.4 mm ID elbow with 1.6 mm ID outlet
T420R410-6005



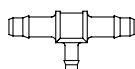
for 2.4 mm ID
T420-6005



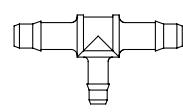
One 3.2 mm ID to two 1.6 mm ID legs
T410/430-6005



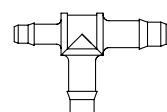
One 1.6 mm ID to two 2.4 mm ID legs
T420/410-6005



One 2.4 mm ID to two 3.2 mm ID legs
T430/420-6005



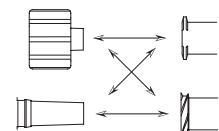
3.6 mm ID elbow with 2.4 mm ID outlet
T430R420-6005



Luer Taper Standards

All luers are made to ANSI/HIMA and ISO Standards MD70-1-1983, ISO 594-1-2 and may be connected to other luers which meet these standards. Please test your application to verify performance of your interconnection.

All Male Luers
connect to all Females



Male luers Female luers

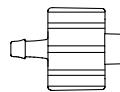
Luer connectors

For flexible tubing

Male Luer, integral fixed lock ring

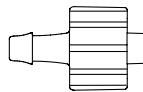
for 1.6 mm ID

MTLL004-6005



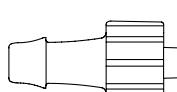
for 3.2 mm ID

MTLL013-6005



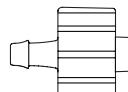
for 4.8 mm ID

MTLL035-6005



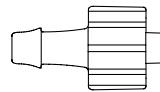
for 2.4 mm ID

MTLL007-6005



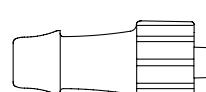
for 4.0 mm ID

MTLL025-6005



for 6.4 mm ID

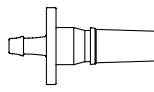
MTLL055-6005



Male Luer for separate rotating lock ring (Lock ring FSLLR is sold separately)

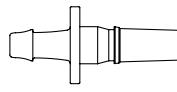
for 1.6 mm ID

MLRL004-6005



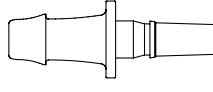
for 3.2 mm ID

MLRL013-6005



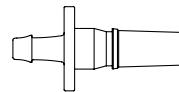
for 4.8 mm ID

MLRL035-6005



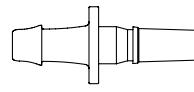
for 2.4 mm ID

MLRL007-6005



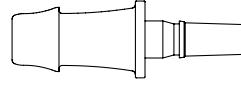
for 4.0 mm ID

MLRL025-6005



for 6.4 mm ID

MLRL055-6005



Luer connectors

For flexible tubing

Male Luer rotating lock ring

Lock ring (colour coded)

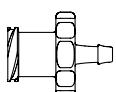
FSLLR-6005



Female Luer

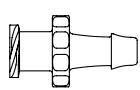
for 1.6 mm ID

FTLL004-6005



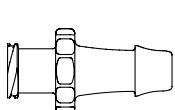
for 3.2 mm ID

FTLL013-6005



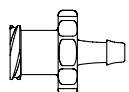
for 4.8 mm ID

FTLL035-6005



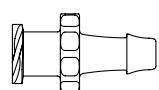
for 2.4 mm ID

FTLL007-6005



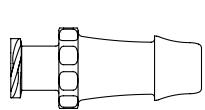
for 4.0 mm ID

FTLL025-6005



for 6.4 mm ID

FTLL055-6005

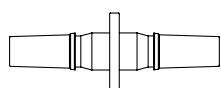


Luer to Luer connectors and Plugs

For flexible tubing

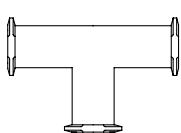
Male to Male Coupler*

MLRLC-6005



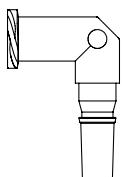
Female T

FTLT-6005



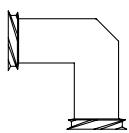
Male to Female Elbow*

LE87-6005



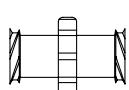
Female Elbow

FTLLE-6005



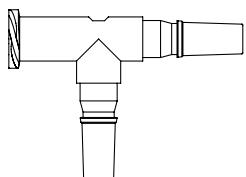
Female to Female Coupler

FTLLC-6005



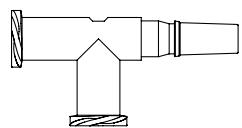
Male (2ea) to Female T*

LT787-6005



Female (2ea) to Male T*

LT878-6005



Male Luer Plug

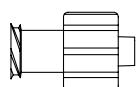
LP4-6005



Female Luer Plug
FTLLP-6005



Male/female Luer Plug
LP34-6005



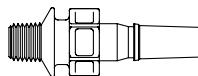
* May be used with separate rotating lock ring

Luer to thread connectors

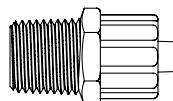
For flexible tubing

Male Luer

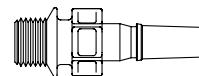
to 10-32 tapered*
XMLRL-6005



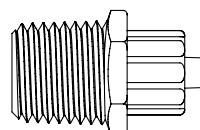
to 1/8-27 NPT, Integral Lock Ring
18MTLL-6005



to 1/4-28 UNF*
SMLRL-6005



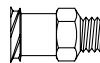
to 1/4-18 NPT, Integral Lock Ring
14MTLL-6005



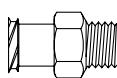
* May be used with separate rotating lock ring FSLLR.

Female Luer

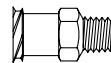
to 10-32 UNF
KFTLL-6005



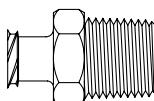
to 1/4-28 UNF
SFTLL-6005



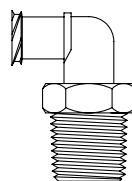
to 10-32 tapered
XFTLL-6005



to 1/8-27 NPT
18FTLL-6005



Elbow to 1/8-27 NPT
18LFTLL-6005



See Thread section for thread specifications.
Also see the Panel Mount section for further Luer options.

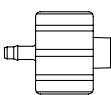
Luer connectors

For semi-rigid tubing

Male Luer, integral fixed lock ring

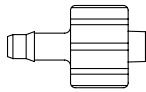
for 1.6 mm ID

MTLL410-6005



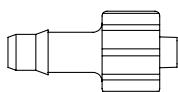
for 3.2 mm ID

MTLL430-6005



for 4.8 mm ID

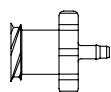
MTLL450-6005



Female Luer

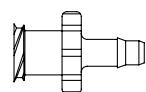
for 1.6 mm ID

FTLL410-6005



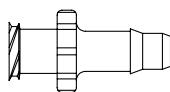
for 3.2 mm ID

FTLL430-6005



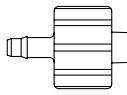
for 4.8 mm ID

FTLL450-1



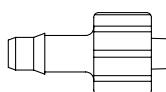
for 2.4 mm ID

MTLL420-6005



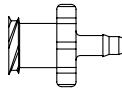
for 4.3 mm ID

MTLL445-6005



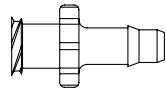
for 2.4 mm ID

FTLL420-6005



for 4.3 mm ID

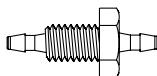
FTLL445-6005



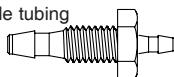
Panel mount fittings

Panel mount M5 mm (10-32 UNF thread)

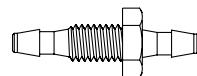
Connector for 1.6 mm ID flexible tubing
PMK210-6005



Reduction connector for 2.4 to 1.6 mm ID flexible tubing
PMK220/210-6005

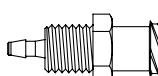


Connector for 2.4 mm ID flexible tubing
PMK220-6005

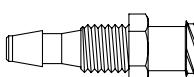


Panel mount M6.5 mm (1/4-28 UNF thread)

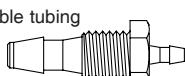
Female Luer to 1.6 mm ID flexible tubing
FTLLB210-6005



Female Luer to 3.2 mm ID flexible tubing
FTLLB230-6005



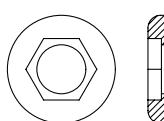
Reduction connector for 3.2 to 1.6 mm ID flexible tubing
PMS230/210-6005



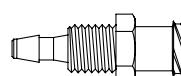
Lock nut
LNS-1



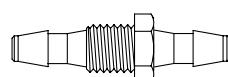
Colour coded ring
CCR-1



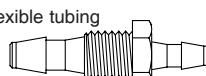
Female Luer to 2.4 mm ID flexible tubing
FTLLB220-6005



Connector for 3.2 mm ID flexible tubing
PMS230-6005



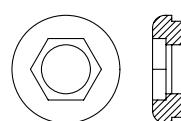
Reduction connector for 3.2 to 1.6 mm ID flexible tubing
PMS230/220-6005



Lock nut, stainless steel, Hex 7/16" (11 mm)
PMSN-X0

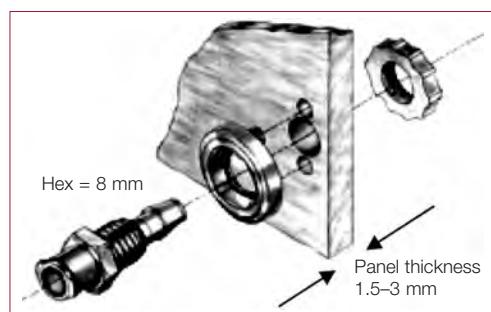


Colour coded lock ring
CCLR-1



Non-Threaded Panel Openings

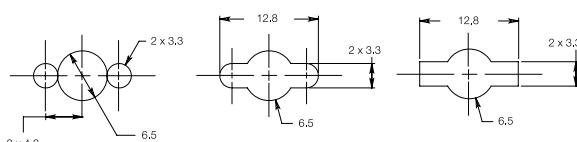
Use any one of the three panel patterns shown below with a CCLR lock ring and LNS lock nut. For PMK-series the center hole diameter may be reduced to Ø 5 mm. Together, the panel opening and CCLR prevent the bulkhead fitting from rotating. Tighten LNS snug plus 1/4 turn only.



Panel mount luer shown with CCLR color coding ring, and LNS lock nut.

Threaded Panel Openings

Tap the panel with 1/4-28 UNF or 10-32 UNF thread and use a CCR color coded ring. In this case, the fitting tightened into the panel prevents fitting rotation. Use an LNS lock nut for additional security; tighten snug plus 1/4 turn only.

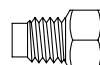


Dimensions in mm (for inch, multiply by 0.0394).

Threaded Fittings



M530.8



M631



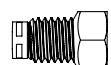
10-32 UNF



10-32 Tapered

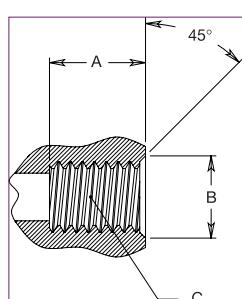


1/4"-28 UNF



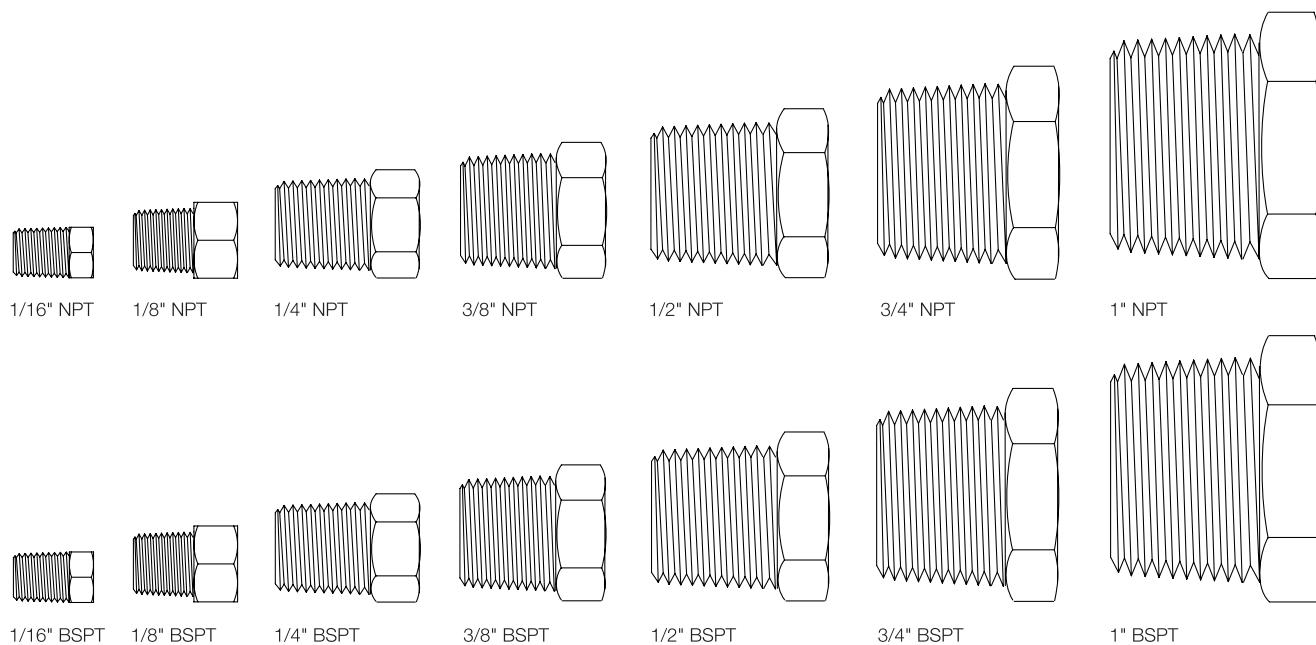
1/4"-28 UNF Bottom Sealed
(rotating thread)

Port Design for secure and leak-free connection



Fitting thread series	Dim. A Minimum full thread length	Dim. B Countersink diameter	C Internal screw thread
10-32 Taper	6.4 mm	5.3–5.8 mm	10-32 UNF 2B
10-32	5.1 mm	5.3–5.8 mm	10-32 UNF 2B
1/4-28 UNF	6.4 mm	6.8–7.3 mm	1/4-28 UNF 2B
M530.8	6.4 mm ¹	5.3–5.8 mm	M530.8
M631.0	9.6 mm ¹	6.8–7.3 mm	M631.0

¹ This depth provides clearance needed to provide chamfer seal.



Thread	M5	M6	10-32 UNF	10-32 Special Tapered	1/4"-18 NPT	1/16" NPT	1/8" NPT	1/8" BSPT	1/4" NPT
/ inch			32	32	28	27	27	28	18
Hex [mm]	6.5	8	6.5	6.5	8	8	11–12	11–12	15

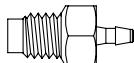
Thread	1/4" BSPT	3/8" NPT	3/8" BSPT	1/2" NPT	1/2" BSPT	3/4" NPT	3/4" BSPT	1" NPT	1" BSPT
/ inch	19	18	19	14	14	14	14	11.5	11
Hex [mm]	15	18	18	23	23	29	29	35	35

Threaded connectors

For flexible tubing

Straight connectors, thread to 1.6 mm ID

M5
M5210-6005



M6
M6210-6005

10-32 UNF
K210-6005

10-32 tapered
X210-6005

1/4"-28 UNF
S210-6005

1/4"-28 UNF Bottom Sealed
ABR004-6005-1

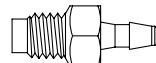
1/16"-27 NPT
16210-6005

1/8"-27 NPT
18210-6005

Straight connectors, thread to 2.4 mm ID

Straight connectors, thread to 2.4 mm ID

M5
M5220-6005



M6
M6220-6005

10-32 UNF
K220-6005

10-32 tapered
X220-6005

1/4"-28 UNF
S220-6005

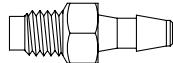
1/4"-28 UNF Bottom Sealed
ABR007-6005-1

1/16"-27 NPT
16220-6005

1/8"-27 NPT
18220-6005

Straight connectors, thread to 3.2 mm ID

M5
M5230-6005



M6
M6230-6005

10-32 UNF
K230-6005

10-32 tapered
X230-6005

1/4"-28 UNF
S230-6005

1/4"-28 UNF Bottom Sealed
ABR013-6005-1

1/16"-27 NPT
16230-6005

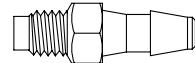
1/8"-27 NPT
18230-6005

1/8" BSPT
A2B-2WP

1/4" BSPT
A4B-2WP

Straight connectors, thread to 4 mm ID

M5
M5240-6005



M6
M6240-6005

10-32 UNF
K240-1

10-32 tapered
X240-6005

1/4"-28 UNF
S240-6005

1/16"-27 NPT
16240-1

1/8"-27 NPT
18240-6005

1/8" BSPT
A2B-2.5WP

1/4" BSPT
A4B-2.5WP

Straight connectors, thread to 4.8 mm ID

M6
M6250-6005



1/4"-28 UNF
S250-6005

1/16"-27 NPT
16250-1

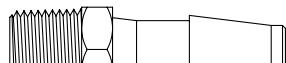
1/8"-27 NPT
1850-6005

1/4"-18 NPT
A4-3WP

1/4" BSPT
A4B-3WP

Straight connectors, thread to 6.4 mm ID

M1/4"-18 NPT
A4-4WP



1/8"-27 NPT
1860-6005

3/8"-18 NPT
A6-4WP

1/2"-14 NPT
A8-4WP

3/4"-14 NPT
A12-4WP

1/8" BSPT
A2B-4WP

1/4" BSPT
A4B-4WP

3/8" BSPT
A6B-4WP

Threaded connectors

For flexible tubing

Straight connectors, thread to 8 mm ID

1/4"-18 NPT

A4-5WP

1/8"-27 NPT

A2-5WP

3/8"-18 NPT

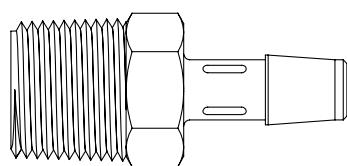
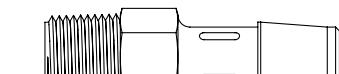
A6-5WP

1/4" BSPT

A4B-5WP

3/8" BSPT

A6B-5WP



Straight connectors, thread to 9.6 mm ID

1/4"-18 NPT

A4-6WP

1/8"-27 NPT

A2-6WP

3/8"-18 NPT

A6-6WP

1/2"-14 NPT

A8-6WP

3/4"-14 NPT

A12-6WP

1/8" BSPT

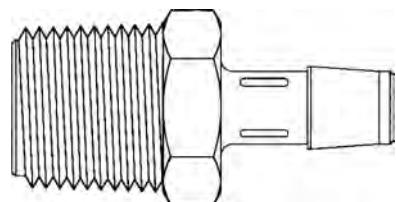
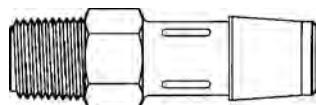
A2B-6WP

1/4" BSPT

A4B-6WP

3/8" BSPT

A6B-6WP



Straight connectors, thread to 12.7 mm ID

1/4"-18 NPT

A4-8WP

3/8"-18 NPT

A6-8WP

1/2"-14 NPT

A8-8WP

3/4"-14 NPT

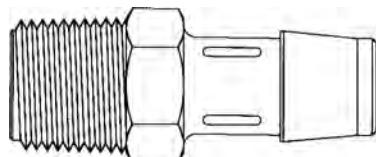
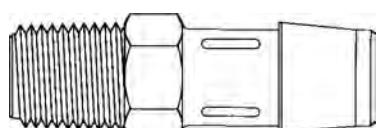
A12-8WP

1/4" BSPT

A4B-8WP

3/8" BSPT

A6B-8WP



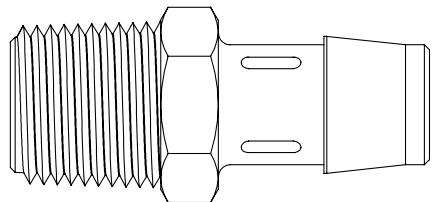
Straight connectors, thread to 16 mm ID

1/2"-14 NPT

A8-10WP

3/4"-14 NPT

A12-10WP



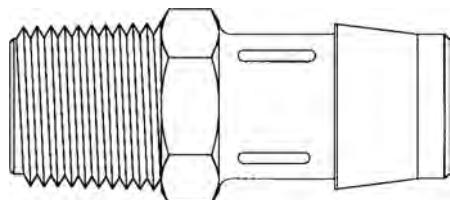
Straight connectors, thread to 19 mm ID

1/2"-14 NPT

A8-12WP

3/4"-14 NPT

A12-12WP



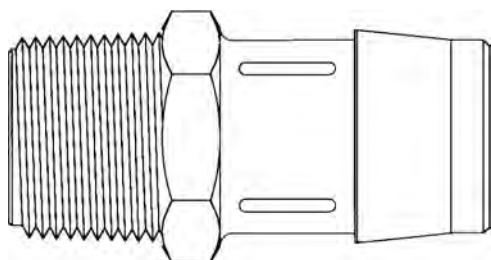
Straight connectors, thread to 25.4 mm ID

3/4"-14 NPT

A12-16WP

1"-11 $\frac{1}{2}$ NPT

A16-16WP



Threaded connectors

For flexible tubing

Elbow, thread to 1.6 mm ID

10-32 UNF
KL210-1

10-32 tapered
XL210-6005

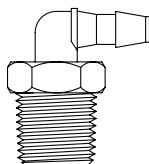


Elbow, thread to 3.2 mm ID

10-32 UNF 1/4"-18 NPT
KL230-1 **L4-2WP**

10-32 tapered 1/8" BSPT
XL230-6005 **L2B-2WP**

1/8"-27 NPT 1/4" BSPT
18L230-6005 **L4B-2WP**

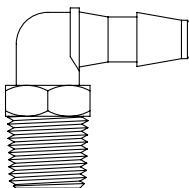


Elbow, thread to 4 mm ID

1/8"-27 NPT
18L250-6005

1/4"-18 NPT
L4-3WP

1/4" BSPT
L4B-3WP



Elbow, thread to 8 mm ID

1/8"-27 NPT
L2-5WP

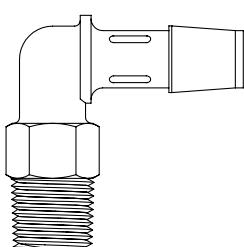
1/4"-18 NPT
L4-5WP

3/8"-18 NPT
L6-5WP

1/8" BSPT
L2B-5WP

1/4" BSPT
L4B-5WP

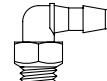
3/8" BSPT
L6B-5WP



Elbow, thread to 2.4 mm ID

10-32 UNF
KL220-1

10-32 tapered
XL220-6005



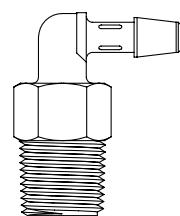
Elbow, thread to 4 mm ID

1/8"-27 NPT
L2-2.5WP

1/4"-18 NPT
L4-2.5WP

1/8" BSPT
L2B-2.5WP

1/4" BSPT
L4B-2.5WP



Elbow, thread to 6.4 mm ID

1/8"-27 NPT
18L260-6005

1/4"-18 NPT
L4-4WP

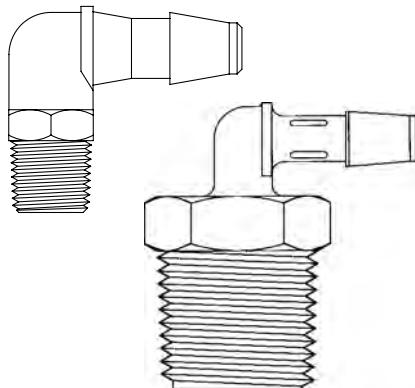
1/2"-14 NPT
L8-4WP

3/4"-14 NPT
L12-4WP

1/8" BSPT
L2B-4WP

1/4" BSPT
L4B-4WP

3/8" BSPT
L6B-4WP



Elbow, thread to 9.6 mm ID

1/8"-27 NPT
L2-6WP

1/4"-18 NPT
L4-6WP

3/8"-18 NPT
L6-6WP

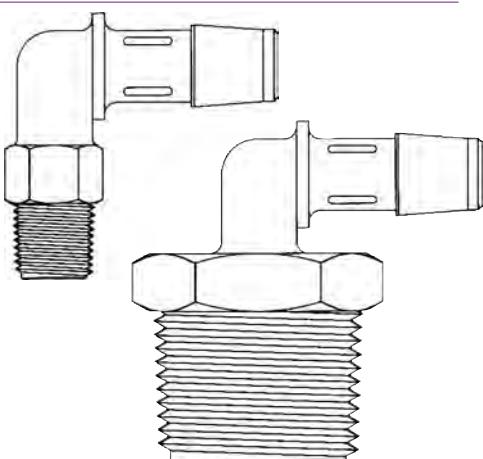
1/2"-14 NPT
L8-6WP

3/4"-14 NPT
L12-6WP

1/8" BSPT
L2B-6WP

1/4" BSPT
L4B-6WP

3/8" BSPT
L6B-6WP



Threaded connectors

For flexible tubing

Elbow, thread to 12.7 mm ID

1/4"-18 NPT

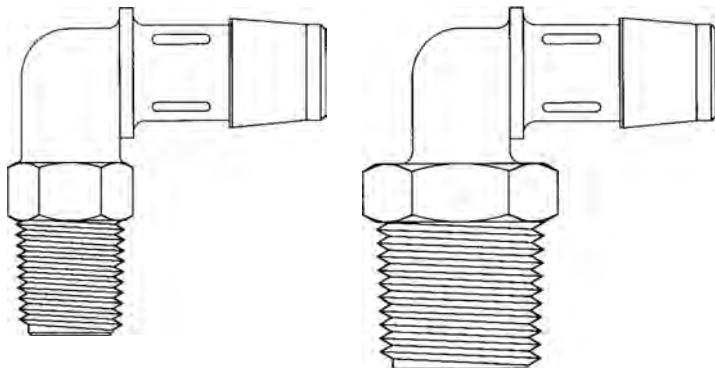
L4-8WP

3/8"-18 NPT

L6-8WP

1/2"-14 NPT

L8-8WP



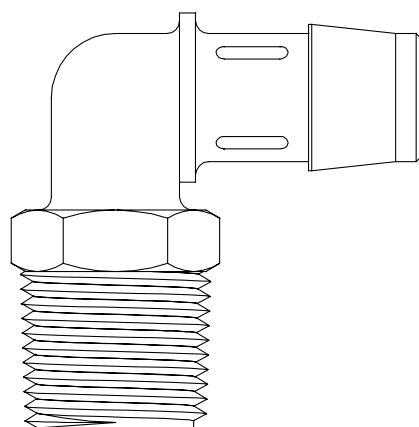
Elbow, thread to 16 mm ID

1/2"-14 NPT

L8-10WP

3/4"-14 NPT

L12-10WP



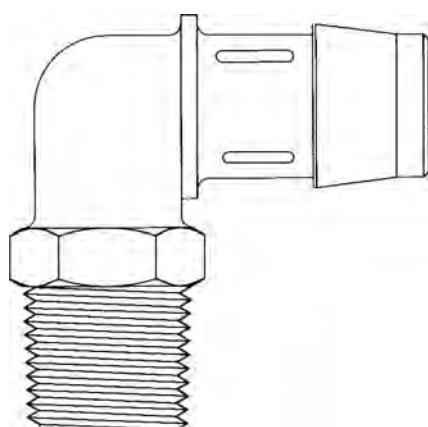
Elbow, thread to 19 mm ID

1/2"-14 NPT

L8-12WP

3/4"-14 NPT

L12-12WP



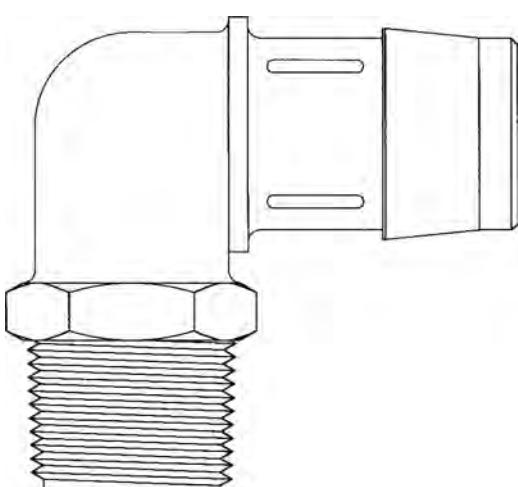
Elbow, thread to 25.4 mm ID

3/4"-14 NPT

L12-16WP

1"-11 $\frac{1}{2}$ " NPT

L16-16WP



Threaded connectors

For flexible tubing

T-connector, thread to 1.6 mm ID

10-32 UNF

KT210-1

10-32 tapered

XT210-6005



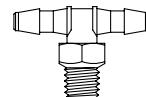
T-connector, thread to 2.4 mm ID

10-32 UNF

KT-220-1

10-32 tapered

XT220-6005



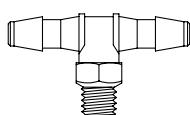
T-connector, thread to 3.2 mm ID

10-32 UNF

KT230-1

10-32 tapered

XT230-6005



T-connector, thread to 4 mm ID

1/8"-27 NPT

T2-2.5WP

1/4"-18 NPT

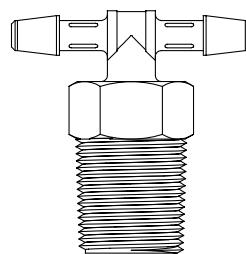
T4-2.5WP

1/8" BSPT

T2B-2.5WP

1/4" BSPT

T4B-2.5WP



T-connector, thread to 4.8 mm ID

1/4"-18 NPT

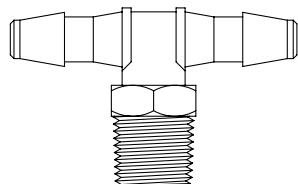
T4-3WP

1/8"-27 NPT

18T250-6005

1/4" BSPT

T4B-3WP



T-connector, thread to 6.4 mm ID

1/8"-27 NPT

18T260-6005

1/4"-18 NPT

T4-4WP

3/8"-18 NPT

T6-4WP

1/2"-14 NPT

T8-4WP

3/4"-14 NPT

T12-4WP

1/8" BSPT

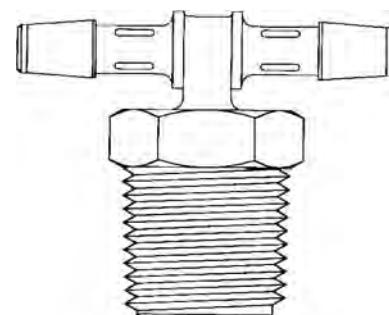
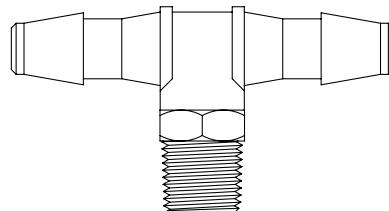
T2B-4WP

1/4" BSPT

T4B-4WP

3/4" BSPT

T6B-4WP



Threaded connectors

For flexible tubing

T-connector, thread to 8.0 mm ID

1/4"-18 NPT

T4-5WP

3/8"-18 NPT

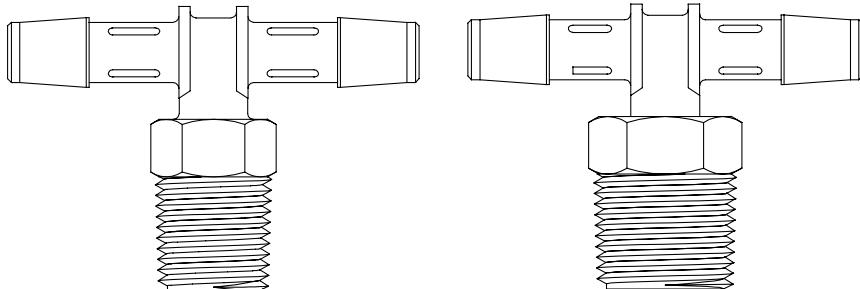
T6-5WP

1/4" BSPT

T4B-5WP

3/8" BSPT

T6B-5WP



T-connector, thread to 9.6 mm ID

1/8"-27 NPT

T2-6WP

1/4"-18 NPT

T4-6WP

3/8"-18 NPT

T6-6WP

1/2"-14 NPT

T8-6WP

3/4"-14 NPT

T12-6WP

1/8" BSPT

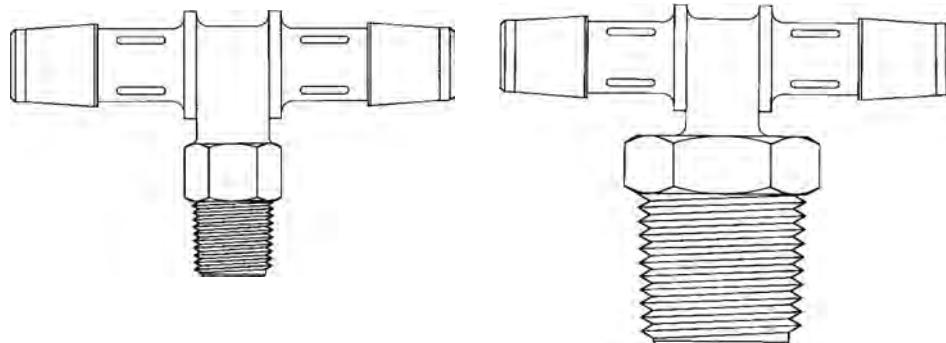
T2B-6WP

1/4" BSPT

T4B-6WP

3/8" BSPT

T6B-6WP



T-connector, thread to 12.7 mm ID

1/4"-18 NPT

T4-8WP

3/8"-18 NPT

T6-8WP

1/2"-14 NPT

T8-8WP

3/4"-14 NPT

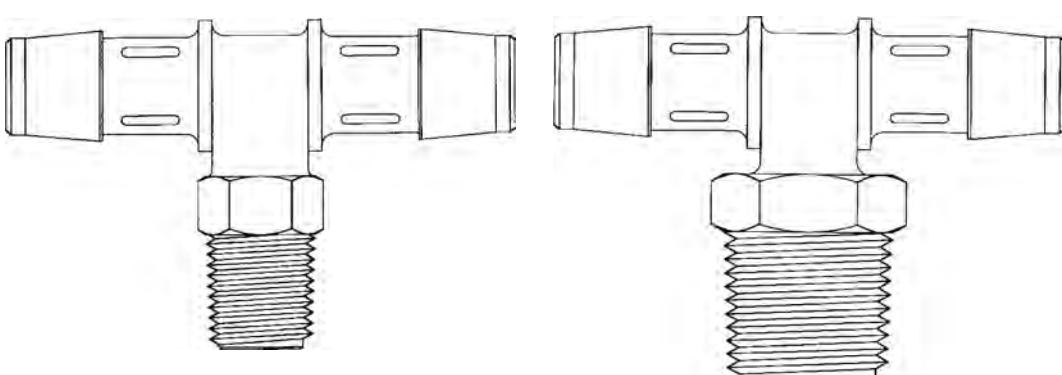
T12-8WP

1/4" BSPT

T4B-8WP

3/8" BSPT

T6B-8WP



Threaded connectors

For flexible tubing

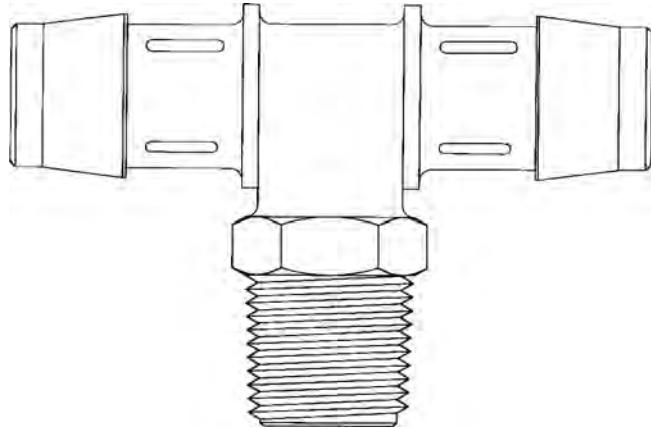
T-connector, thread to 19.2 mm ID

1/4"-18 NPT

T8-12WP

3/4"-14 NPT

T12-12WP



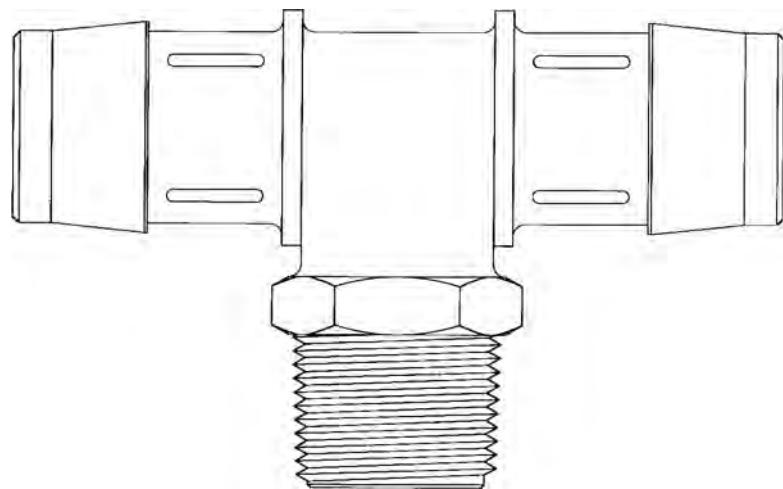
T-connector, thread to 25.4 mm ID

3/4"-14 NPT

T12-16WP

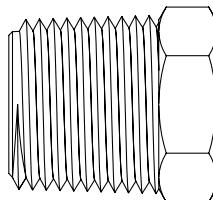
1"-11 1/2" NPT

T16-16WP



Threaded Plugs

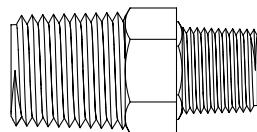
M6	1/8"-27 NPT	1"-11 1/2 NPT
M6P-6005	1800-6005	P16WP
10-32 UNF	1/4"-18 NPT	1/4" BSPT
KP-6005	P4WP	P4BWP
10-32 tapered	3/8"-18 NPT	3/8" BSPT
XP-6005	P6WP	P6BWP
1/4"-28 UNF	1/2"-14 NPT	
SP-6005	P8WP	
1/16"-27 NPT	3/4"-14 NPT	
1600-1	P12WP	



Threaded reductions

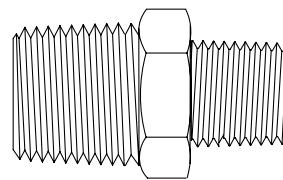
Reduction, male 1/8"-27 NPT to male

1/4"-18 NPT	
RN4-2WP	
3/8"-18 NPT	
RN6-2WP	
1/2"-14 NPT	
RN8-2WP	



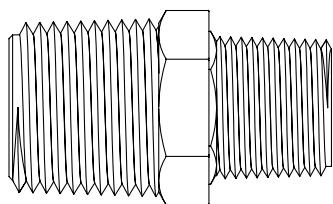
Reduction, male 1/4"-18 NPT to male

3/8"-18 NPT	
RN6-4WP	
1/2"-14 NPT	
RN8-4WP	



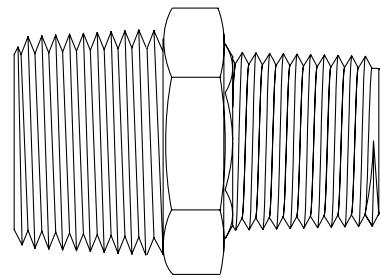
Reduction, male 3/8"-27 NPT to male

1/2"-14 NPT	
RN8-6WP	



Reduction, male 3/4"-14 NPT to male

1"-11 1/2 NPT	
RN16-12WP	



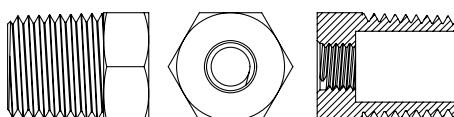
Reduction, female 10-32 UNF to male

1/8"-27 NPT	
1801-6005	
1/4"-18 NPT	
1401-6005	



Reduction, female 1/4-28 UNF to male

1/8"-27 NPT	
1802-6005	
1/4"-18 NPT	
1402-6005	



Threaded connectors

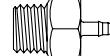
For semi-rigid tubing

Straight connector, thread to 1.6 mm ID

M6	10-32 UNF	10-32 tapered
X410-2		



1/4"-28 UNF	1/16"-27 NPT	1/8"-27 NPT
18420-2		



Straight connector, thread to 2.4 mm ID

M6	10-32 UNF	10-32 tapered
K420-6005 X420-6005		

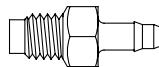


1/4"-28 UNF	1/16"-27 NPT	1/8"-27 NPT
S420-6005 18420-2		

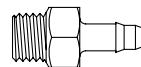


Straight connector, thread to 3.2 mm ID

M6	10-32 UNF	10-32 tapered
M6430-6005 K430-6005 X430-2		

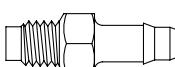


1/4"-28 UNF	1/16"-27 NPT	1/8"-27 NPT
S430-6005 18430-1		

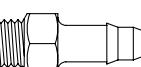


Straight connector, thread to 4.3 mm ID

M6	10-32 UNF	10-32 tapered
M6445-2 K445-2 X445-J1A		



1/4"-28 UNF	1/16"-27 NPT	1/8"-27 NPT
S445-6005 16445-1 18445-6005		



Elbow, thread to 1.6 mm ID

10-32 tapered	10-32 UNF
XL410-J1A	



T-connector, thread to 1.6 mm ID

10-32 tapered	10-32 UNF
XT410-J1A	



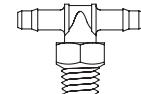
Elbow, thread to 2.4 mm ID

10-32 tapered	10-32 UNF
XL420-6005	



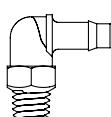
T-connector, thread to 2.4 mm ID

10-32 tapered	10-32 UNF
XT420-J1A	



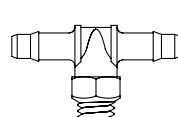
Elbow, thread to 3.2 mm ID

10-32 tapered	10-32 UNF
XL430-2 KL430-6005	



T-connector, thread to 3.2 mm ID

10-32 tapered	10-32 UNF
XT430-2	



Barb design

Each barb is designed to combine minimum flow restriction, pressure capability, hold and ease of assembly for a given range of tube sizes and tube materials. Together with the recommendations below the fitting range of this catalogue provides solutions to most applications.

However, if your requirements can not be met with the range in this catalogue it is likely that we can offer a similar fitting with an alternative barb design.

Pressure Capability

The single-barb design enables the tubing to relax behind the barb creating a perfect seal with minimal risk for leakage. The tube is extended over the barb – higher extension is required for more flexible tubing and for handling higher pressure. For the smaller tube bore fittings an over size fitting can be considered. For larger tube bores a clamp can be necessary, see picture below.

Hold

For example in a peristaltic pump or whenever tension is applied to the tube it has to be prevented from slipping of the fitting. For the smaller tube bore fittings an over size fitting can be considered. For larger tube bores a clamp can be necessary, see picture below.

Ease of Assembly

Standard barbs for semi rigid tubing expand the tubing 25% above its nominal inner diameter and barbs for flexible tubing expand 40-60%. Barb for semi-rigid tubing can be used also for flexible tubing when tensile/pressure properties are not highly critical but ease of assembly is.

Alternatively, a simple plastic cable tie can be used.



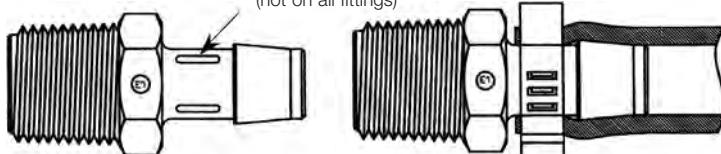
Barb styles for Flexible tubing



...and for Semi-Rigid

Proper clamp placement for barbed fittings

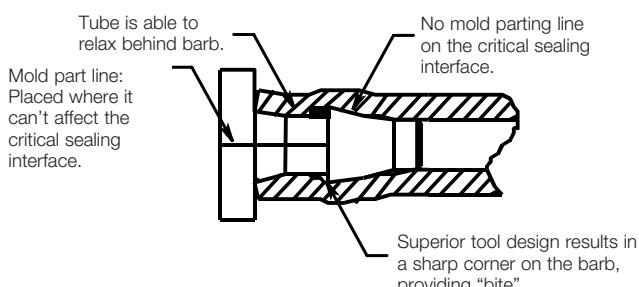
Anti-Rotation device
(not on all fittings)



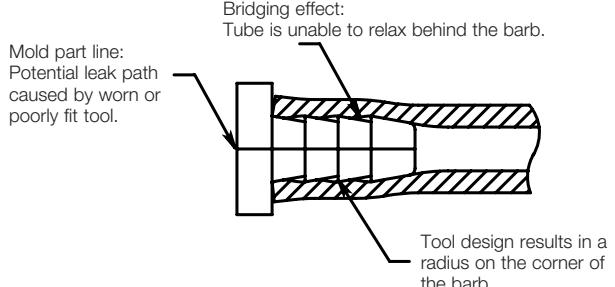
Never place a clamp over the large diameter of the barb. Clamps work best when tightened into the recess behind the barb. For best results place the clamp behind the barb and over the anti-rotation devices.

Benefits with single barb design

Single-barb



Multi-barb



Fitting materials

Guideline information about chemical compatibility and sterilization resistance for common resins.

Kynar®

Poly Vinylidene Fluoride or PVDF, is physically strong, damage resistant, and resistant to multiple radiation or autoclave sterilization cycles. In spite of its initially higher cost in comparison with many other materials, its durability and long-term use potential under harsh conditions makes it cost-effective.

Nylon

Poly Amide, PA, combines strength, moderate stiffness, high service temperature, and toughness. Nylon resist fuels, lubricants and many chemicals, but are attacked by phenols, strong acids and oxidizing agents. Acceptable sterilization methods include Ethylene Oxide or Autoclave, see sterilization chart for details. Nylon is available in different colours.

Polypropylene

PP, is highly resistant to solvents and chemicals. It has outstanding resistance to water and other inorganic environments. It resists most strong mineral acids and bases, but, like other polyolefins, it is subject to attack by oxidizing agents. Polypropylene has excellent resistance to environmental stress-cracking. Acceptable sterilization methods include Gamma Radiation and Ethylene Oxide, see sterilization chart for details.

Polycarbonate

PC, is a clear and colourless resin. Outstanding properties include impact strength and scratch resistance. Polycarbonate resists weak acids, animal and vegetable oils and greases but is attacked by oxidizing agents and hot water. Acceptable sterilization methods are gamma radiation and ethylene oxide.

ABS

Acrylonitrile Butadiene Styrene, has good mechanical properties even at low temperatures. ABS is chemically resistant to many acids and bases. Acceptable sterilization methods are gamma radiation and ethylene oxide, see sterilization chart for details.

Fitting materials

Sterilization

	GAMMA RADIATION	ETHYLENE OXIDE	AUTOCLAVE
Kynar®	Highly compatible, but will discolor to brownish hue. Physical Properties typically improve.	Excellent	Excellent
Polycarbonate	Compatible to 10 M-Rad dose with little loss of physical properties. Will discolor to light yellow-green hue.	Highly compatible with 100% EtO; may stress crack if sterilized in EtO/ CFC mix, due to molding stresses.	Not recommended. May craze or stress crack due to molding stresses.
Radiation Stable Polycarbonate	Excellent up to 10 M-Rad dose with little loss of physical properties. Light violet hue turns clear upon sterilization.	Highly compatible. Withstands normal EtO sterilization conditions, but multiple exposures can reduce tensile elongation properties.	Not recommended.
Polypropylene	Excellent up to commonly used sterilization doses (approximately 6 M-Rad).	Fair; may stress crack in EtO/ CFC mix due to molding stresses.	Poor. Parts may distort due to low heat deflection temperature.
Nylon and Glass Filled Nylon	Physically compatible with commonly used sterilization doses, but may discolor to brownish hue.	Very Good. Some susceptibility to oxidizing agents.	Very Good. Components may swell slightly due to water absorption.
ABS	Compatible to 10 M-Rad dose with some loss of impact strength, but increased tensile strength. Some discoloration to slight brownish hue.	Excellent retention of properties for at least 5 sterilization cycles.	Poor. Parts may distort due to low heat deflection temperature.

Mechanical Properties

	E-Modulus, GPa	Elongation at break, %	Tensile yield strength, MPa	Izod Impact Notched, J/m	Water %,24h absorption,	Density, kg/dm ³
Test Method	DIN 53 457	DIN 53 452	DIN 53 455	ASTM D256	ASTM D510	
ABS	2.1	25	45	85	0.4	1.05
Kynar®	0.8		40	166	0.015	1.76
Nylon	2	200	80	53	1.2	1.14
Polycarbonate	2.3	100	70	> 800	0.15	1.2
Polypropylene	1.5	500	37	69	0	0.9

The data presented in this section is for reference only. It was compiled primarily by the resin manufacturers to provide our customers with a means of comparing the characteristics of resins used at the time of publication. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or expressed warranty or guarantee by W-M Alitea AB, or the resin manufacturers. None of the information provided constitutes a recommendation or endorsement of any kind by W-M Alitea AB. In critical applications please contact W-M Alitea for more information and product certifications. Note, all fittings are not available in all materials. Kynar® is a registered trademark of Atochem North America, Inc.

Resin Regulatory Status

The last 1–4 characters of the product code tell the specific resin of the fitting.

Description	Product code ending with:	Resin regulatory status
ABS, White	8012	USP Classification VI, ISO10993 P.1
Kynar (PVDF), Natural [*]	J1A	USP Classification VI, FDA 21 CFR 177.2510/177.1520
Kynar (PVDF), Natural [*]	NK	USP Classification VI, NSF Standards 61, FDA 21 CFR 177.2510
Nylon, Black	2	FDA 21 CFR 177.1500
Nylon, Black	BN	
Nylon, Black, Glass Filled	GFBN	
Nylon, Blue	5	FDA 21 CFR 177.1500
Nylon, Green	4	FDA 21 CFR 177.1500
Nylon, Natural	NN	FDA 21 CFR 177.1550
Nylon, Natural	0	FDA 21 CFR 177.1500
Nylon, Orange	06	FDA 21 CFR 177.1500
Nylon, Red	3	FDA 21 CFR 177.1500
Nylon, White	1	FDA 21 CFR 177.1500
Nylon, White	WN	
Nylon, Yellow	07	FDA 21 CFR 177.1500
Polycarbonate	9	USP Classification VI, FDA 21 CFR 177.1580, ISO 10993
Polycarbonate, Rad. Stable	9002	USP Classification VI, ISO10993
Polyethylene, High Density	HDPE	FDA 21 CFR 177.1520
Polypropylene, Black	62	
Polypropylene, Natural [*]	6005	USP Classification VI, FDA 21 CFR 177.1520
Polypropylene, Natural [*]	PP	USP Classification VI, FDA 21 CFR 177.1520,
Polypropylene, White	WP	
Stainless Steel	X0	

^{*}Animal Derivative Free

Product Certification

For classified products, Product Certification documents are provided upon request, free of charge. The Product Certification document references all relevant purchase order, customer order and material lot information. Natural Kynar and Natural Polypropylene materials are Animal Derivative Free.

All resins are RoHs compliant. All resins except white polypropylene are also DEHP free. White polypropylene may contain small amounts of phalates.

The list of SVHC's is updated regularly. The status of SVHC and REACH is available from your distributor.

Chemical compatibility chart

Price index*			0.9	2 – 4	0.9	1.1	1
Chemical	Concent.	Temp °C	ABS	Kynar®	Nylon	Polycarb.	Polyprop.
Acetic Acid	5%	23 °C	Excellent	Excellent	Satisfactory	Satisfactory	Excellent
Acetone	100%	50 °C	Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory	Excellent
Acetophenone	100%	24 °C	Satisfactory	Unsatisfactory	Excellent	Satisfactory	
Acetylene	100%	24 °C		Excellent	Excellent		
Air	100%	82 °C	Excellent	Excellent	Excellent		
Ammonia, Liquid	100%	24 °C	Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory	Excellent
Ammonium Hydroxide	10%	23 °C	Satisfactory	Excellent	Excellent	Unsatisfactory	Excellent
Ammonium Hydroxide	10%	70 °C	Unsatisfactory	Excellent	Unsatisfactory	Unsatisfactory	Excellent
Barium Sulfide	100%	24 °C	Excellent	Excellent	Satisfactory		Excellent
Benzene	100%	23 °C	Satisfactory	Excellent	Excellent	Unsatisfactory	Satisfactory
Bleach	100%	23 °C	Satisfactory	Excellent	Satisfactory	Unsatisfactory	Satisfactory
Boric Acid	7%	35 °C	Excellent	Excellent	Unsatisfactory	Excellent	Excellent
Calcium Carbonate	Sat. sol.	24 °C	Excellent	Excellent			Excellent
Carbon Dioxide	100%	50 °C	Satisfactory	Excellent	Excellent		Excellent
Carbon Monoxide	100%	50 °C	Satisfactory	Excellent	Excellent		Excellent
Carbon Tetrachloride	100%	50 °C	Unsatisfactory	Excellent	Excellent	Unsatisfactory	Unsatisfactory
Chlorine Water	Dilute	23 °C	Unsatisfactory	Excellent	Satisfactory	Unsatisfactory	Unsatisfactory
Chlorine Water	Concent.	23 °C	Unsatisfactory	Excellent	Unsatisfactory	Unsatisfactory	Unsatisfactory
Chlorobenzene	100%	23 °C	Satisfactory	Excellent	Excellent	Unsatisfactory	Unsatisfactory
Chlorofluorocarbon 11	100%	24 °C		Excellent	Excellent	Satisfactory	
Chloroform	100%	23 °C	Unsatisfactory	Excellent	Satisfactory	Unsatisfactory	Unsatisfactory
Cyclohexanone	100%	24 °C	Satisfactory	Excellent	Excellent	Unsatisfactory	Satisfactory
Dichlorethylene	100%	23 °C		Excellent	Satisfactory		Excellent
Ethanol	95%	50 °C	Satisfactory	Excellent	Excellent	Satisfactory	Excellent
Ethyl Acetate	95%	50 °C	Satisfactory	Unsatisfactory	Excellent	Unsatisfactory	Satisfactory
Ethylene Glycol	100%	23 °C	Excellent	Excellent	Excellent	Satisfactory	Excellent
Ethylene Oxide	100%	24 °C	Unsatisfactory	Excellent	Satisfactory	Satisfactory	Satisfactory
Ethylene Oxide	100%	79 °C	Unsatisfactory	Excellent	Unsatisfactory	Satisfactory	Unsatisfactory
Fatty Acids	–			Excellent			Excellent
Fluorine	100%	23 °C	Unsatisfactory	Excellent	Unsatisfactory		
Formaldehyde	37%	24 °C	Unsatisfactory	Excellent		Unsatisfactory	Excellent
Gasoline	100%	85 °C	Excellent	Excellent	Excellent	Unsatisfactory	Satisfactory
Glucose	Concent.	24 °C	Excellent	Excellent			Excellent
Glycerin	100%	24 °C	Excellent	Excellent		Excellent	Excellent
Hydrochloric Acid	2%	23 °C	Excellent	Excellent	Excellent	Excellent	Excellent
Hydrochloric Acid	10%	25 °C	Excellent	Excellent	Unsatisfactory	Excellent	Excellent
Hydrofluoric Acid	10%	23 °C	Satisfactory	Excellent	Unsatisfactory		Excellent
Hydrogen Peroxide	1%	24 °C	Excellent	Excellent	Satisfactory	Excellent	Excellent
Hydrogen Peroxide	5%	43 °C	Satisfactory	Excellent	Unsatisfactory	Excellent	Satisfactory
Isopropanol	100%	23 °C	Excellent	Excellent	Excellent	Excellent	Excellent
Kerosene	100%	85 °C	Satisfactory	Excellent	Excellent	Satisfactory	Satisfactory
Methanol	100%	23 °C	Unsatisfactory	Excellent	Excellent	Satisfactory	Excellent
Methyl Ethyl Ketone	100%	50 °C	Satisfactory	Unsatisfactory	Excellent	Unsatisfactory	Satisfactory
Methylene Chloride	100%	23 °C	Unsatisfactory	Excellent	Satisfactory	Unsatisfactory	Excellent
Nitric Acid	10%	23 °C	Satisfactory	Excellent	Unsatisfactory	Unsatisfactory	Excellent
Oxygen	100%	24 °C		Excellent	Satisfactory		
Ozone	100%	43 °C	Satisfactory	Excellent	Unsatisfactory	Unsatisfactory	
Phenol	90%	23 °C	Unsatisfactory	Excellent	Unsatisfactory		Excellent
Phosphoric Acid	5%	98 °C	Satisfactory	Excellent	Unsatisfactory	Unsatisfactory	Excellent
Propane	100%	23 °C	Satisfactory	Excellent	Excellent		
Sodium Bicarbonate	Concent.	24 °C	Excellent	Excellent	Excellent		Excellent
Sodium Chloride	10%	23 °C	Excellent	Excellent	Excellent		Excellent
Sodium Chloride	Sat. sol.	24 °C	Excellent	Excellent	Excellent		Excellent
Sodium Hydroxide	10%	70 °C	Satisfactory	Excellent	Satisfactory		Excellent
Steam	–	120 °C	Unsatisfactory	Excellent	Unsatisfactory	Unsatisfactory	Satisfactory
Sulfuric Acid	30%	23 °C	Satisfactory	Excellent	Unsatisfactory	Excellent	Excellent
Tetrahydrofuran	100%	23 °C	Satisfactory	Unsatisfactory	Excellent		Unsatisfactory
Toluene	100%	50 °C	Satisfactory	Excellent	Excellent	Unsatisfactory	Unsatisfactory
Trichloroethylene	100%	23 °C	Satisfactory	Excellent	Satisfactory	Unsatisfactory	Unsatisfactory
Water	100%	79 °C	Excellent	Excellent	Excellent	Unsatisfactory	Excellent

The data presented here is for reference only. It was compiled primarily by the resin manufacturers to provide our customers with a means of comparing the characteristics of resins used. The particular conditions of your use and application of our products are beyond our control. Thus, it is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or expressed warranty or guarantee by W-M Alitea AB. None of the information provided constitutes a recommendation or endorsement of any kind by W-M Alitea AB.

* Price index should only be seen as a guideline. Prices will differ for different products. Note, all fittings are not available in all materials.

Index

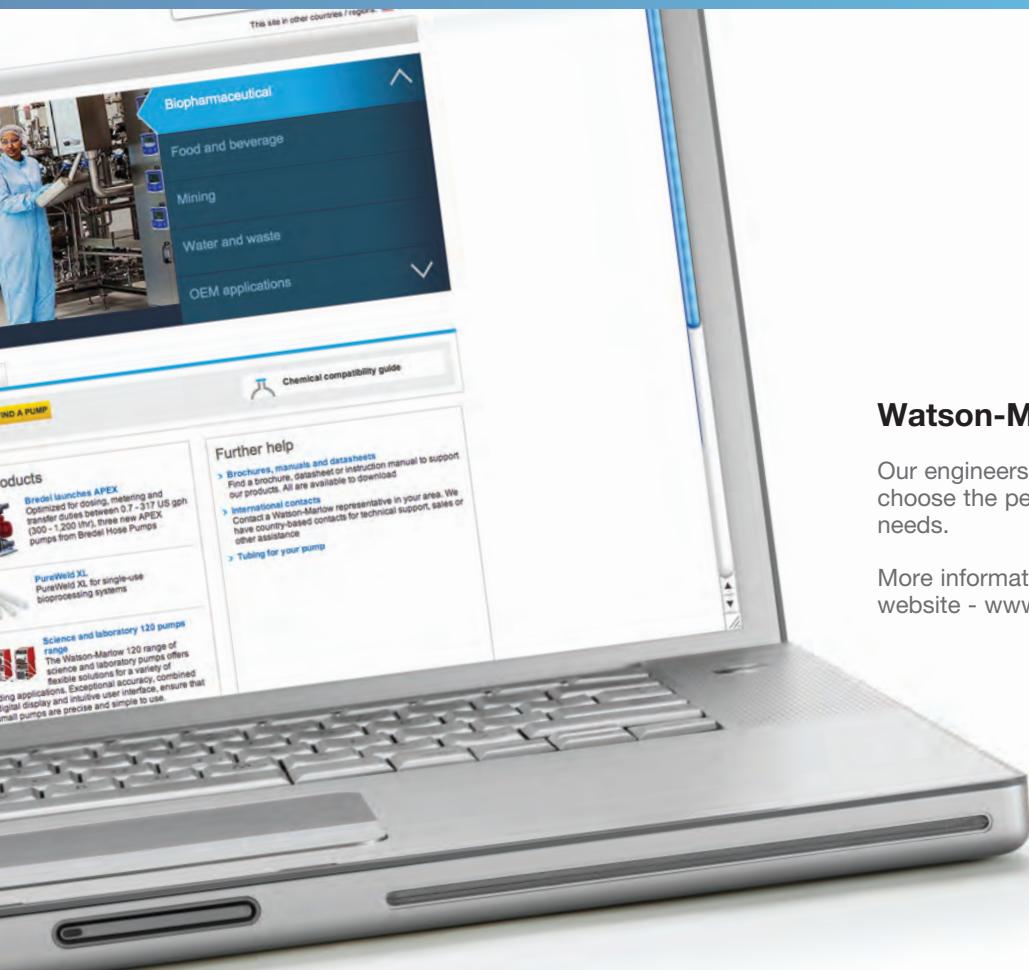
1050	3	C10-4	4	L4-2	21	N007/004	3	S220	19	T8-12	25
1401	26	C10-5	4	L4-2.5	21	N013	2	S230	19	T8-4	23
1402	26	C10-6	4	L4-3	21	N013/004	3	S240	19	T8-6	24
14MTLL	15	C10-8	4	L4-4	21	N013/007	3	S250	19	T8-8	24
1600	26	C12-10	4	L4-5	21	N025	2	S420	27	X210	19
16210	19	C12-6	4	L4-6	21	N025/004	3	S430	27	X220	19
16220	19	C12-8	4	L4-8	22	N025/007	3	S445	27	X230	19
16230	19	C16-10	5	L40	7	N025/013	3	SFTLL	15	X240	19
16240	19	C16-12	5	L410	11	N035	2	SMLRL	15	X410	27
16250	19	C16-8	4	L420	11	N035/007	3	SP	26	X430	27
16445	27	C6-5	3	L420/410	11	N035/013	3	T12-12	25	X445	27
1801	26	C8-4	3	L430	11	N035/025	3	T12-16	25	XFTLL	15
1802	26	C8-5	4	L430/410	11	N055	2	T12-4	23	XL210	21
18210	19	C8-6	4	L430/420	11	N055/013	3	T12-6	24	XL220	21
18220	19	CCLR	17	L4B-2	21	N055/025	3	T12-8	24	XL230	21
18230	19	CCR	17	L4B-2.5	21	N055/035	3	T16-16	25	XL410	27
18240	19	FSLLR	14	L4B-3	21	N065	2	T2-2.5	23	XL420	27
18420	27	FTLL004	14	L4B-4	21	N065/025	3	T2-6	24	XL430	27
18430	27	FTLL007	14	L4B-5	21	N065/035	3	T100	8	XMLRL	15
18445	27	FTLL013	14	L4B-6	21	N065/055	3	T110	8	XP	26
1850	19	FTLL025	14	L50	7	N070/013	3	T210	8	XT210	23
1860	19	FTLL035	14	L6-5	21	N100	2	T210/220	9	XT220	23
18FTLL	15	FTLL055	14	L6-6	21	N110	2	T210/230	9	XT230	23
18L230	21	FTLL410	16	L6-8	22	N230	2	T220	8	XT410	27
18L250	21	FTLL420	16	L60	7	N230/210	3	T220/210	9	XT420	27
18L260	21	FTLL430	16	L6B-4	21	N230/220	3	T220/230	9	XT430	27
18LFTLL	15	FTLL445	16	L6B-5	21	N410	11	T220R210	9	Y100	6
18MTLL	15	FTLL450	16	L6B-6	21	N420	11	T230	8	Y210	5
18T250	23	FTLLB210	17	L8-10	22	N420/410	11	T230/210	9	Y220	5
18T260	23	FTLLB220	17	L8-12	22	N430	11	T230/220	9	Y230	5
A12-10	20	FTLLB230	17	L8-4	21	N430/410	11	T230R210	9	Y240	5
A12-12	20	FTLLC	14	L8-6	21	N430/420	11	T230R220	9	Y250	5
A12-16	20	FTLLE	14	L8-8	22	N670	2	T2B-2.5	23	Y260	5
A12-4	19	FTLLP	14	LE87	14	N680	2	T2B-4	23	Y410	11
A12-6	20	FTLT	14	LNS	17	N690	2	T2B-6	24	Y420	11
A12-8	20	K210	19	LP34	14	P12	26	T4-2.5	23	Y430	11
A16-16	20	K220	19	LP4	14	P16	26	T4-3	23	Y450	11
A2-5	20	K230	19	LT787	14	P4	26	T4-4	23	Y460	11
A2-6	20	K240	19	LT878	14	P4B	26	T4-5	24	Y670	6
A2B-2	19	K420	27	M5210	19	P6	26	T4-6	24	Y680	6
A2B-2.5	19	K430	27	M5220	19	P6B	26	T4-8	24	Y690	6
A2B-4	19	K445	27	M5230	19	P8	26	T40	8		
A2B-6	20	KFTLL	15	M5240	19	PIP210	10	T410	12		
A4-3	19	KL210	21	M6210	19	PIP220	10	T410/420	12		
A4-4	19	KL220	21	M6220	19	PIP230	10	T410/430	12		
A4-5	20	KL230	21	M6230	19	PIP240	10	T420	12		
A4-6	20	L0-16	7	M6240	19	PIP50	10	T420/410	12		
A4-8	20	L070	7	M6250	19	PIP60	10	T420R410	12		
A4B-2	19	L080	7	M6430	27	PIP070	10	T430	12		
A4B-2.5	19	L090	7	M6445	27	PIP080	10	T430/410	12		
A4B-3	19	L100	7	M6P	26	PMK210	17	T430/420	12		
A4B-4	19	L12-10	22	MLRL004	13	PMK220	17	T430R420	12		
A4B-5	20	L12-12	22	MLRL007	13	PMK220/210	17	T4B-2.5	23		
A4B-6	20	L12-16	22	MLRL013	13	PMKN	17	T4B-3	23		
A4B-8	20	L12-4	21	MLRL025	13	PMS230	17	T4B-4	23		
A6-4	19	L12-6	21	MLRL035	13	PMS230/210	17	T4B-5	24		
A6-5	20	L16-16	22	MLRL055	13	PMS230/220	17	T4B-6	24		
A6-6	20	L2-2.5	21	MLRLC	14	PMSN	17	T4B-8	24		
A6-8	20	L2-5	21	MTLL004	13	RN16-12	26	T50	8		
A6B-4	19	L2-6	21	MTLL007	13	RN4-2	26	T6-4	23		
A6B-5	20	L210	7	MTLL013	13	RN6-2	26	T6-5	24		
A6B-6	20	L220	7	MTLL025	13	RN6-4	26	T6-6	24		
A6B-8	20	L220/210	8	MTLL035	13	RN8-2	26	T6-8	24		
A8-10	20	L230	7	MTLL055	13	RN8-4	26	T60	8		
A8-12	20	L230/210	8	MTLL410	16	RN8-6	26	T6B-4	23		
A8-4	19	L230/220	8	MTLL420	16	RT10-6	9	T6B-5	24		
A8-6	20	L2B-2	21	MTLL430	16	RT12-6	10	T6B-6	24		
A8-8	20	L2B-2.5	21	MTLL445	16	RT12-8	10	T6B-8	24		
ABR004	19	L2B-4	21	MTLL450	16	RT2.5-6	9	T670	8		
ABR007	19	L2B-5	21	N004	2	RT8-6	9	T680	8		
ABR013	19	L2B-6	21	N007	2	S210	19	T690	8		

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