



Pneuline *Supply, Inc.*

MANUFACTURER OF PLASTIC VALVES, FILTERS, & BULKHEADS



2018
CATALOG
Rev 006

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TUBE PLUGS

TP-O Series

Tube plug with standard barb in Black and White Nylon, Polypropylene, or PVDF. (available with orifice)



TP-O-1B-WN	1/16 Tube Plug	TP-S-1B	1/16 Tube Plug
TP-O-1.5B-WN	3/32 Tube Plug	TP-S-332B	3/32 Tube Plug
TP-O-2B-WN	1/8 Tube Plug	TP-S2B	1/8 Tube Plug
TP-O-2.25B-WN	5/32 Tube Plug	TP-S-532B	5/32 Tube Plug
TP-O-3B-WN	3/16 Tube Plug	TP-U-38	3/8 Ultimate Plug
TP-O-4B-WN	1/4 Tube Plug	TP-U-12	1/2 Ultimate Plug

ACT Series

Double-headed plugs available in natural Polypropylene, PVDF, Polyethylene, and Black Nylon. (available with orifice)



ACT-1B	1/16 Tube Plug	ACT-3B	3/16 Tube Plug
ACT-332B	3/32 Tube Plug	ACT-4B	1/4 Tube Plug
ACT-2B	1/8 Tube Plug	ACT-6B	3/8 Tube Plug
ACT-532B	5/32 Tube Plug	ACT-8B	1/2 Tube Plug

BARBED CONNECTORS—PLASTIC

CR-S Series

Standard reducing connector made of White Nylon, natural Polypropylene, Black Nylon, PVDF, or Polycarbonate.



CR-S-1B	1/16	CR-S-332B1B	3/32 by 1/16
CR-S-2B	1/8	CR-S-2B1B	1/8 by 1/16
CR-S-332B	3/32	CR-S-2B332B	1/8 by 3/32

C-SO Series

Original connectors molded of White Nylon and natural Polypropylene.

SO = Square center flange



C-SO-1B	1/16 Connector
C-SO-332B	3/32 Connector
C-SO-2B	1/8 Connector
C-SO-1B2B	1/16 by 1/8
C-SO-1B332B	1/16 by 3/32
C-SO-2B332B	1/8 by 3/32

CR-R Series

Standard connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, tan PVDF, Black Nylon, and Glass-Filled Black Nylon.



CR-R-3B2B-NN	3/16 Barb by 1/8 Barb	CR-R-10B6B-NN	5/8 Barb by 3/8 Barb
CR-R-4B332B-NN	1/4 Barb by 3/32 Barb	CR-R-8B6B-NN	1/2 Barb by 3/8 Barb
CR-R-4B2B-NN	1/4 Barb by 1/8 Barb	CR-R-10B8B-NN	5/8 Barb by 1/2 Barb
CR-R-4B3B-NN	1/4 Barb by 3/16 Barb	CR-R-12B6B-NN	3/4 Barb by 3/8 Barb
CR-R-5B4B-NN	5/16 Barb by 1/4 Barb	CR-R-12B8B-NN	3/4 Barb by 1/2 Barb
CR-R-6B4B-NN	3/8 Barb by 1/4 Barb	CR-R-12B10B-NN	3/4 Barb by 5/8 Barb
CR-R-6B5B-NN	3/8 Barb by 5/16 Barb	CR-R-10B4B-NN	5/8 Barb by 1/4 Barb
CR-R-8B4B-NN	1/2 Barb by 1/4 Barb	CR-R-16B8B-NN	1 by 1/2 Barb
CR-R-8B5B-NN	1/2 Barb by 5/16 Barb	CR-R-16B10B-NN	1 by 5/8 Barb
CR-R-10B5N-NN	5/8 Barb by 5/16 Barb	CR-R-16B12B-NN	1 by 3/4 Barb

C-O Series

Original reducing connector made of White Nylon or Natural Polypropylene.



C-O-532B332B	5/32 by 3/32 Connector	C-O-4B2B	1/4 by 1/8 Connector
C-O-532B2B	5/32 by 1/8 Connector	C-O-4B532B	1/4 by 5/32 Connector
C-O-532B1B	5/32 by 1/16 Connector	C-O-4B3B	1/4 by 3/16 Connector
C-O-3B1B	3/16 by 1/16 Connector	C-O-532B	5/32 Connector
C-O-3B332B	3/16 by 3/32 Connector	C-O-3B	3/16 Connector
C-O-3B2B	3/16 by 1/8 Connector	C-O-4B	1/4 Connector
C-O-3B532B	3/16 by 5/32 Connector		

CAR Series

Molded Acetal fittings. Barbs sizes can also be used for metric tubing. (see conversion table)



CAR-2B	1/8 Barb	CAR-12B	3/4 by 3/4
CAR-532B	5/32 Barb	CAR-532-2B	5/32 by 1/8
CAR-3B	3/16 Barb	CAR-4B-532B	1/4 by 5/32
CAR-4B	1/4 Barb	CAR-5B-532B	5/16 by 5/32
CAR-5B	5/16 Barb	CAR-5B-4B	5/16 by 1/4
CAR-6B	3/8 Barb	CAR-6B-4B	3/8 by 1/4
CAR-7B	7/16 Barb	CAR-6B-5B	3/8 by 5/16
CAR-8B	1/2 Barb	CAR-7B-5B	7/16 by 5/16
CAR-9B	9/16 Barb	CAR-7B-6B	7/16 by 3/8
CAR-10B	5/8 Barb		

C-IG Series

Barbed connectors of Black Nylon, White Nylon, or Gray Polypropylene.



C-IG-1S-PS	1/16 Shaft Connector, Polysulfone
C-IG-1B	1/16 Barb Connector
C-IG-2B	1/8 Barb Connector, White Nylon

CR-IG Series

Barbed reducer connectors in Polysulfone.



CR-IG-170X1S-PS	.170 by 1/16 Shaft Connector, Polysulfone
CR-IG-2BX1S-PS	1/8 Barb by 1/16 Barb Connector, Polysulfone

C-U Series

Ultimate High-Flow fitting for soft tubing, standard White or natural Nylon, Polypropylene, Black Nylon, Polycarbonate, and PVDF. Expands tubing up to 40%.



C-U-2B	1/8 Barb	C-U-3B2B	3/16 by 1/8
C-U-532B	5/32 Barb	C-U-3B532B	3/16 by 5/32
C-U-3B	3/16 Barb	C-U-4B532B	1/4 by 5/32
C-U-4B	1/4 Barb	C-U-4B3B	1/4 by 3/16
C-U-5B	5/16 Barb	C-U-5B532B	5/16 by 5/32
C-U-6B	3/8 Barb	C-U-5B3B	5/16 by 3/16
C-U-8B	1/2 Barb	C-U-5B4B	5/16 by 1/4
C-U-10B	5/8 Barb	C-U-6B2B	3/8 by 1/8
C-U-12B	3/4 Barb	C-U-6B4B	3/8 by 1/4
C-U-16B	1 Barb	C-U-8B4B	1/2 by 1/4
C-U-2B1B	1/8 by 1/16	C-U-8B6B	1/2 by 3/8
C-U-2B332B	1/8 by 3/32	C-U-10B4B	5/8 by 1/4
C-U-532B1B	5/32 by 1/16	C-U-12B8B	3/4 by 1/2
C-U-3B332B	3/16 by 3/32	C-U-16B12B	1 by 3/4

VC-S Series

Vacuum style fittings available in natural Nylon or Black Nylon 6/6. Good for temperatures from -20° to 212° F. Used for air, liquid, or vapor applications.



VC-S-2B	1/8 Vacuum	VC-S-3B532B	3/16 by 5/32 Vacuum
VC-S-3B	3/16 Vacuum	VC-S-4B3B	1/4 by 3/16 Vacuum
VC-S-4B	1/4 Vacuum	VC-S-5B4B	5/16 by 1/4 Vacuum
VC-S-5B	5/16 Vacuum	VC-S-6B4B	3/8 by 1/4 Vacuum
VC-S-6B	3/8 Vacuum		
VC-S-8B	1/2 Vacuum		
VC-S-10B	5/8 Vacuum		

C-W Series

Precision connector in Nylon, Polypropylene, and Polycarbonate.



C-W-16	1/16 Barb
C-W-332	3/32 Barb
C-W-18	1/8 Barb

CPP Series

Standard straight connector made in natural Nylon, White Nylon, Black Nylon, Polypropylene, PVDF, and Polyethylene.



CPP-1B	1/16 Barb
CPP-2B	1/8 Barb
CPP-332B	3/32 Barb

CPR Series

Standard reducing connector made in natural Nylon, White Nylon, Black Nylon, Polypropylene, PVDF, and Polyethylene.



CPR-332B1B	3/32 by 1/16
CPR-2B1B	1/8 by 1/16
CPR-2B332B	1/8 by 3/32
CPR-532B1B	5/32 by 1/16
CPR-532B332B	5/32 by 3/32
CPR-532B2B	5/32 by 1/8
CPR-3B532B	3/16 by 5/32
CPR-4B1B	1/4 by 1/16
CPR-4B332B	1/4 by 3/32
CPR-4B2B	1/4 by 1/8
CPR-4B3B	1/4 by 3/16

C Series

Connectors with a standard triple barb hose. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material: natural Polypropylene (FDA listed), Black Polypropylene (FDA listed), and Black Nylon.

** AVAILABLE IN PVDF MATERIAL**



C-2B2B-N	1/8 Barb **	C-10B10-N	5/8 Barb
C-3B3B-N	3/16 Barb **	C-12B12B-N	3/4 Barb
C-4B4B-N	1/4 Barb **	C-16B16B-N	1 Barb
C-5B5B-N	5/16 Barb	C-20B20B-N	1-1/4 Barb
C-6B6B-N	3/8 Barb **	C-24B24B-N	1-1/2 Barb
C-8B8B-N	1/2 Barb **		

CR Series

Connectors with a standard triple barb hose. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material: natural Polypropylene (FDA listed), Black Polypropylene (FDA listed), and Black Nylon.

** AVAILABLE IN PVDF MATERIAL**



CR-4B2B-N	1/4 by 1/8 Barb **
CR-4B532-N	1/4 by 5/32 Barb
CR-4B3B-N	1/4 by 3/16 Barb **
CR-5B2B-N	5/16 by 1/8 Barb
CR-6B4B-N	3/8 by 1/4 Barb
CR-6B5B-N	3/8 by 1/4 Barb
CR-8B4B-N	1/2 by 1/4 Barb
CR-8B6B-N	1/2 by 1/4 Barb
CR-10B6B-N	5/8 by 3/8 Barb
CR-10B8B-N	5/8 by 1/2 Barb **
CR-12B8B-N	3/4 by 1/2 Barb

CHL Series

These tube fittings are designed for use with rigid tubing without adding clamps. Available in Nylon, Polypropylene, PVDF, or Polycarbonate.



CHL-1B	1/16 Barb
CHL-2B	1/8 Barb
CHL-532B	5/32 Barb
CHL-3B	3/16 Barb
CHL-4B	1/4 Barb

C-R Series

Standard single barb connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



C-R-532B-NN	5/32 Barb
C-R-3B-NN	3/16 Barb
C-R-4B-NN	1/4 Barb
C-R-6B-PVDF	3/8 Barb
C-R-8B-NN	1/2 Barb
C-R-10B-NN	5/8 Barb
C-R-12B-NN	3/4 Barb
C-R-16B-NN	1 Barb

BARBED ELBOWS—PLASTIC

L-S and LR-S Series

Standard single barb reducer elbow molded of White Nylon and natural Polypropylene.



L-S-1B	Elbow 1/16 Barb	LR-S-1.5B1B	Elbow 3/32 by 1/16 Barb
L-S-1.5B	Elbow 3/32 Barb	LR-S-2B1.5B	Elbow 1/8 by 3/32 Barb
L-S-2B	Elbow 1/8 Barb	LR-S-2B1B	Elbow 1/8 by 1/16 Barb

L-IG Series

Multi-barbed elbows of Black Nylon, White Nylon, or Gray Polypropylene.



L-IG-1B	1/16 Barb Elbow, White Nylon
L-IG-2B	1/8 Barb Elbow, White Nylon

CPL Series

Elbow available in 1/16, 1/8, 3/32, 5/32, 3/16, and 1/4 barb. Materials available include natural Nylon, natural Polypropylene, PVDF, Polyethylene, and Black Nylon.



CPL-1B	1/16 Barb	CPL-3B1B	3/16 Barb by 1/16
CPL-332B	3/32 Barb	CPL-3B2B	3/16 Barb by 1/8
CPL-332B1B	3/32 Barb by 1/16	CPL-4B1B-B	1/4 Barb by 1/16
CPL-2B	1/8 Barb	CPL-4B1.5B	1/4 Barb by 3/32
CPL-2B1B	1/8 Barb by 1/16	CPL-4B2B	1/4 Barb by 1/8
CPL-2B332B	1/8 Barb by 3/32		

L Series

Elbow connectors with a standard triple barb hose, offered in both equal and reducing sizes. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material natural Polypropylene (FDA listed), Black Polypropylene (FDA listed), and Black Nylon.

Barb fittings over 1 are not offered in Polyethylene. **** AVAILABLE IN PVDF MATERIAL**



L-3B-N	3/16 Barb	L-10B-N	5/8 Barb**
L-4B-N	1/4 Barb	L-12B-N	3/4 Barb
L-6B-N	3/8 Barb**	L-16B-N	1 Barb
L-8B-N	1/2 Barb**	L-20B-N	1-1/4 Barb
L-8B4B-N	1/2 Barb by 1/4	L-24B-N	1-1/2 Barb
L-8B6B-N	1/2 Barb by 3/8		

L-W Series

Precision connector in Nylon, Polypropylene, and Polycarbonate.



L-W-16	1/16 Barb
L-W-332	3/32 Barb
L-W-18	1/8 Barb

LH and LHR Series

Heavy duty elbow fittings available in Nylon, Black Polypropylene, or Black Polyethylene.



LH-4B	1/4 Barb	LHR-3B4B	3/8 by 1/4
LH-6B	3/8 Barb	LHR-8B4B	1/2 by 1/4
LH-8B	1/2 Barb	LHR-8B6B	1/2 by 3/8
LH-10B	5/8 Barb	LHR-12B10B	3/4 by 5/8
LH-12B	3/4 Barb		
LH-16B	1 Barb		

L-R Series

Standard connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



L-R-1.5B-NN	3/32 Barb	L-R-10B-NN	5/8 Barb Elbow
L-R-2B-NN	1/8 Barb	L-R-12B-NN	3/4 Barb Elbow
L-R-2.5B-NN	5/32 Barb	L-R-16B-NN	1 Barb Elbow
L-R-3B-NN	3/16 Barb	L-R-8B6B-NN	1/2 Barb by 3/8 Barb Elbow Reducer
L-R-4B-NN	1/4 Barb		
L-R-5B-NN	5/16 Barb		
L-R-6B-NN	3/8 Barb		
L-R-8B-NN	1/2 Barb		

VC-E Series

Vacuum style fittings available in natural Nylon or Black Nylon 6/6. Good for temperatures from -20° to 21° F. Used for air, liquid, or vapor applications.



VC-E-3B	3/16 Vacuum
VC-E-4B	1/4 Barb Vacuum
VC-E-4B3B	1/4 by 3/16 Vacuum
VC-E-5B	5/16 Vacuum
VC-E-6B	3/8 Vacuum

BARBED TEES—PLASTIC

T-S Series

standard single Barb tee molded of natural Nylon and natural Polypropylene.



T-S-1B-WN	1/16 Barb Tee
T-S-1.5B-WN	3/32 Barb Tee
T-S-2B-WN	1/8 Barb Tee

T-O Series

Original single Barb tee molded in natural Nylon or natural Polypropylene.



T-O-2.5B-WN	5/32 Barb Tee
T-O-3B-WN	3/16 Barb Tee
T-O-4B-WN	1/4 Barb Tee

T-IG Series

Barbed tees of Black, White Nylon, or Gray Polypropylene. Straight shaft 1/16 unit is molded from Black POM.



T-IG-1S-C	1/16 Straight Shaft, Acetal
T-IG-1B	1/16 Barb Tee, White Nylon
T-IG-2B	1/8 Barb Tee, White Nylon

T-W Series

Precision components in Nylon, Polypropylene, and Polycarbonate.



T-W-16	1/16 Barb
T-W-332	3/32 Barb
T-W-18	1/8 Barb

VC-T

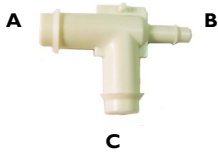
Vacuum style inline tee fittings available in natural Nylon or Black Nylon 6/6. Good for temperatures from -20° to 212° F. Used for air, liquid, or vapor applications.



VC-T-2B	1/8 Vacuum Tee	VC-T-3B4B	3/16 by 1/4 Tee
VC-T-3B	3/16 Vacuum Tee	VC-T-4B3B	1/4 by 3/16 Tee
VC-T-4B	1/4 Vacuum Tee	VC-T-6B4B	3/8 by 1/4 Tee
VC-T-5B	5/16 Vacuum Tee	VC-T-6B5B	3/8 by 5/16 Tee
VC-T-6B	3/8 Vacuum Tee	VC-T-10B3B	5/8 by 3/16 Tee
VC-T-12B	3/4 Vacuum Tee		

VC-TR Series

Vacuum style inline reducing tees available in natural Nylon or Black Nylon 6/6. Good for temperatures from -20° to 212° F. Used for air, liquid, or vapor applications.



VC-TR-2B3B	1/8 by 3/16 Tee
VC-TR-3B2B	3/16 by 1/8 Reducing Tee
VC-TR-3B2B3B	3/16 by 1/8 by 3/16 Tee
VC-TR-4B3B3B	1/4 by 3/16 by 3/16 Tee
VC-TR-6B5B6B	3/8 by 5/16 by 3/8 Tee
VC-TR-6B3B6B	3/8 by 3/16 by 3/8 Tee
VC-TR-6B3B	3/8 by 3/16 Tee

T Series

Tee connectors with a standard triple barb hose, offered in both equal and reducing sizes. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material natural Polypropylene (FDA listed), Black Polypropylene (FDA listed), and Black Nylon. Barbs over 1 not offered in Polyethylene. ** AVAILABLE IN PVDF MATERIAL



T-2B-N	1/8 by 1/8 by 1/8 **	T-4B5B-N	1/4 by 1/4 by 5/16
T-170B-N	.170 by .170 by .170	T-4B6B-N	1/4 by 1/4 by 3/8
T-3B-N	3/16 by 3/16 by 3/16 **	T-532B2B-N	5/32 by 5/32 by 1/8
T-4B-N	1/4 by 1/4 by 1/4	T-5B4B-N	5/16 by 5/16 by 1/4
T-532B-N	5/32 by 5/32 by 5/32	T-6B3B-N	3/8 by 3/8 by 3/16 **
T-5B-N	5/16 by 5/16 by 5/16	T-6B4B-N	3/8 by 3/8 by 1/4
T-6B-N	3/8 by 3/8 by 3/8 **	T-6B8B-N	3/8 by 3/8 by 1/2
T-8B-N	1/2 by 1/2 by 1/2 **	T-8B4B-N	1/2 by 1/2 by 1/4 **
T-10B-N	5/8 by 5/8 by 5/8	T-8B5B-N	1/2 by 1/2 by 5/16
T-12B-N	3/4 by 3/4 by 3/4 **	T-8B6B-N	1/2 by 1/2 by 3/8 **
T-16B-N	1 by 1 by 1	T-10B4B-N	5/8 by 5/8 by 1/4
T-20B-N	1-1/4 by 1-1/4 by 1-1/4	T-10B5B-N	5/8 by 5/8 by 5/16
T-24B-N	1-1/2 by 1-1/2 by 1-1/2	T-10B6B-N	5/8 by 5/8 by 3/8
		T-10B8B-N	5/8 by 5/8 by 1/2
		T-12B8B-N	3/4 by 3/4 by 1/2

T-R Series

Standard connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



T-R-532B	5/32 Barb	T-R-8B	1/2 Barb
T-R-3B	3/16 Barb	T-R-10B	5/8 Barb
T-R-4B	1/4 Barb	T-R-12B	3/4 Barb
T-R-5B	5/16 Barb	T-R-16B	1 Barb
T-R-6B	3/8 Barb		

TR-C Series

Commercial single Barb reducing tee molded from White Nylon, natural Polypropylene, and natural PVDF.



TR-C-2B1B	1/8 by 1/8 by 1/16	TR-C-532B2B	5/32 by 5/32 by 1/8
TR-C-2B332B	1/8 by 1/8 by 3/32	TR-C-532B3B	5/32 by 5/32 by 3/16
TR-C-2B532B	1/8 by 1/8 by 5/32	TR-C-532B4B	5/32 by 5/32 by 1/4
TR-C-2B3B	1/8 by 1/8 by 3/16	TR-C-3B2B	3/16 by 5/32 by 1/8
TR-C-2B4B	1/8 by 1/8 by 1/4	TR-C-4B2B	1/4 by 1/4 by 1/8
TR-C-532B1B	5/32 by 5/32 by 1/16	TR-C-4B532B	1/4 by 1/4 by 5/32

CAT Series

Molded Acetal fittings. Barbs sizes can also be used for metric tubing. See conversion table on pages 127 and 128.



CAT-2B	1/8 by 1/8 by 1/8	CAT-2-532B	1/8 by 1/8 by 5/32
CAT-532B	5/32 by 5/32 by 5/32	CAT-532-4B	5/32 by 5/32 by 1/4
CAT-3B	3/16 by 3/16 by 3/16	CAT-4-532B	1/4 by 1/4 by 5/32
CAT-4B	1/4 by 1/4 by 1/4	CAT-5-532B	5/16 by 5/32
CAT-5B	5/16 by 5/16 by 5/16	CAT-5-4B	5/16 by 5/16 by 1/4
CAT-6B	3/8 by 3/8 by 3/8	CAT-5-7B	5/16 by 5/16 by 7/16
CAT-7B	7/16 by 7/16 by 7/16	CAT-6-4B	3/8 by 3/8 by 1/4
CAT-8B	1/2 by 1/2 by 1/2	CAT-6-10B	3/8 by 3/8 by 5/8
CAT-9B	9/16 by 9/16 by 9/16	CAT-7-5B	7/16 by 7/16 by 5/16
CAT-10B	5/8 by 5/8 by 5/8	CAT-7-6B	7/16 by 7/16 by 3/8
CAT-12B	3/4 by 3/4 by 3/4		

THL Series

These tee shaped fittings are designed for use with rigid tubing without adding clamps. Available in Nylon, Polypropylene, PVDF, or Polycarbonate.



THL-2B	1/8 by 1/8 by 1/8
THL-3B	3/16 by 3/16 by 3/16
THL-4B	1/4 by 1/4 by 1/4

RCT-S Series

Standard single barb inline reducing tee molded from White Nylon or natural Polypropylene. A and C are the same size Barb.



RCT-S-2B-1-2B	Tee 1/8 by 1/16 by 1/8
RCT-S-2B-3/32-2B	Tee 1/8 by 3/32 by 1/8
RCT-S-3/32B-1-3/32B	Tee 3/32 by 1/16 Barb by 3/32

CPT Series

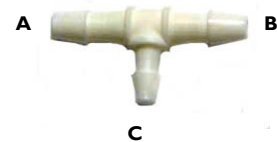
Tee connector available with 1/16, 3/32, 1/8, or 5/32 barbs made in natural Nylon, Black or White Nylon, Polypropylene, or PVDF.



CPT-1B	1/16 Barb Tee
CPT-3B	3/32 Barb Tee
CPT-2B	1/8 Barb Tee

RT-S Series

Standard single Barb reducing tee molded from White Nylon natural Polypropylene.



RT-S-1B-2B	1/16 by 1/8	RT-S-3/32B-2B	3/32 by 1/8
RT-S-2B-1B	1/8 by 1/16	RT-S-4B-2B	1/4 by 1/8
RT-S-2B-3/32	1/8 by 3/32	RT-S-4B-3/32B	1/4 by 3/32
RT-S-3/32B-1B	3/32 by 1/16	RT-S-4B-3B	1/4 by 3/16

TR-R Series

Standard connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black.



TR-R-10B6B-NN	5/8 Barb Tee by 3/8 Barb	TR-R-4B6B	1/4 by 3/8
TR-R-12B6B-NN	3/4 Barb Tee by 3/8 Barb	TR-R-8B6B	1/2 by 3/8
TR-R-12B8B-NN	3/4 Barb Tee by 1/2 Barb	TR-R-16B10B	1 by 5/8
TR-R-5/32B6B	5/32 Barb Tee by 3/8 Barb	TR-R-4B10B	1/4 by 5/8
TR-R-8B4B	1/2 Barb Tee by 1/4 Barb	TR-R-4B6B	1/4 by 3/8
		TR-R-4B3B	1/4 by 3/16

DTF-S Series

Single barbed F-style fitting in Nylon or Polypropylene: 1/16, 3/32, or 1/8.



DTF-S-1B-WN	1/16 Double Tube Tee
DTF-S-3/32B-WN	3/32 Double Tube Tee
DTF-S-2B-WN	1/8 Double Tube Tee

DTP-S and DTTP-S

standard single Barb double tee molded from White Nylon or natural Polypropylene.



DTP-S-1B-WN	1/16 Double Tube Tee
DTP-S-1.5B-WN	3/32 Double Tube Tee
DTP-S-2B-WN	1/8 Double Tube Tee



DTTP-S-1B-WN	1/16 QUAD Tube Tee
DTTP-S-1.5B-WN	3/32 QUAD Tube Tee
DTTP-S-2B-WN	1/8 QUAD Tube Tee

VC-TB-3B 5 way tee with 3/16 barbs of natural Nylon



VC-TB-3B	3/16 TRIPLE Leg Vacuum Connector Tee
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BARBED CROSSES—PLASTIC

CRX-S

The standard single Barb cross molded of White Nylon and natural Polypropylene.



CRX-S-1B-WN	1/16 Cross
CRX-S-332B-WN	3/32 Cross
CRX-S-2-WN	1/8 Cross

CRX-IG

A multi-Barb cross available in Black Nylon, White Nylon, and Gray Polypropylene. Barb sizes for 1/16, 3/32 and 1/8 tubing.



CRX-IG-1B-WN	1/16 Cross, White Nylon
CRX-IG-2B-GYP	1/8 Cross, Black Polypro

CRX-I

An industrial cross-shaped fitting made in natural Nylon and Polypropylene.



CRX-I-4B	1/4 Barb Cross
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CRX-R

standard connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



CRX-R-1B	1/16 Barb Cross
CRX-R-332B	3/32 Barb Cross
CRX-R-2B	1/8 Barb Cross
CRX-R-4B	1/4 Barb Cross

CAX

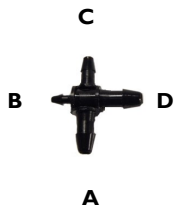
Molded Acetal cross. Barb fitting sizes can also be used for metric tubing. See conversion table. (pg. 140)



CAX-532	5/32 Barb Cross Acetal
CAX-316	3/16 Barb Cross Acetal
CAX-14	1/4 Barb Cross Acetal

CPX

standard connector made in natural, White or Black Nylon, Polypropylene, PVDF, or Polyethylene. Available with barbs of 1/16, 3/32, or 1/8, starting at the 6 o'clock position and rotating clockwise.

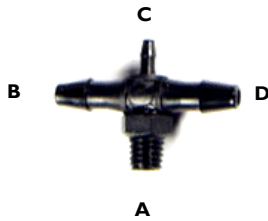


CPX-1B	1/16 Cross	CPX-1B1B2B332B	1/16 by 1/16 by 1/8 by 3/32
CPX-332B	3/32 Cross	CPX-1B2B1B2B	1/16 by 1/8 by 1/16 by 1/8
CPX-2B	1/8 Cross	CPX-2B1B1B1B	1/8 by 1/16 by 1/16 by 1/16

**WE CAN CREATE
CUSTOM FITTINGS**

GMAC

Available 10-32, 10-32 taper and 1/4-28 thread with barbs of 1/16, 3/32, or 1/8, starting at the 6 o'clock position and rotating clockwise. Available in natural, Black or White Nylon, Polypropylene, or PVDF.



GMAC-10-1B1B1B	10-32 by 1/16 Barb
GMAC-10T-1B1B1B	10-32 Taper Thread 1/16 Barb
GMAC-1428-2B2B2B	1/4-28 Thread 1/8 Barb
GMAC-10-1B2B332B	10-32 Thread 1/16 by 1/8 by 3/32 Barb
GMAC-10-2B1B2B	10-32 Thread by 1/8 by 1/16 by 1/8 Barb

WYE CONNECTORS—PLASTIC

YSP

A low pressure connector made of natural Polypropylene. Maximum 20 psi.



YSP-18	1/8 WYE Polypropylene
YSP-316	3/16 WYE Polypropylene
YSP-14	1/4 WYE Polypropylene
YSP-516	5/16 WYE Polypropylene
YSP-38	3/8 WYE Polypropylene
YSP-12	1/2 WYE Polypropylene

Y-T

Multi-barbed wye in natural Nylon (N), natural Polypropylene (NP) or Black Polypropylene (BP).



Y-T-4	1/4 Barb Wye
Y-T-6	3/8 Barb Wye
Y-T-8B	1/2 Barb Wye



YCP

A low pressure connector made of natural Polypropylene for metric tubing.



YCP-4M	4MM WYE	YCP-12M	12MM WYE
YCP-6M	6MM WYE	YCP-14M	14MM WYE
YCP-8M	8MM WYE	YCP-16M	16MM WYE
YCP-10M	10MM WYE		

Y-S

A standard wye connector available in White Nylon, Black Nylon, Polypropylene, or PVDF.



Y-S-332B-WN	3/32 WYE
Y-S-1B-WN	1/16 WYE
Y-S-532B-WN	5/32 WYE
Y-S-2B-WN	1/8 WYE
Y-S-3B-WN	3/16 WYE

Y-U

The ultimate wye connector is available in natural Nylon or Polypropylene.



Y-U-6B-WN	3/8 WYE
Y-U-8B-WN	1/2 WYE
Y-U-12B-WN	3/4 WYE
Y-U-16B-WN	1 WYE

Y-R and YR-R

standard connector made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



Y-R-2B	1/8 WYE Connector	YR-R-4B6B	1/4 by 3/8
Y-R-3B	3/16 WYE Connector	YR-R-2B4B	1/8 by 1/4
Y-R-4B	1/4 WYE Connector	YR-R-3B5B	3/16 by 5/16
Y-R-6B	3/8 WYE Connector	YR-R-6B8B	3/8 by 1/2
Y-R-8B	1/2 WYE Connector	YR-R-10B12B	5/8 by 3/4
Y-R-10B	5/8 WYE Connector	YR-R-12B16B	3/4 by 1 inch

YRR

Molded Acetal 90° wye fittings. Barbed sizes can also be used for metric tubing. See conversion table (pgs. 128-129).



YRR-2	1/8	3MM	YRR-8	1/2	13MM
YRR-532	5/32	4MM	YRR-9	9/16	14MM
YRR-3	3/16	5MM	YRR-12	3/4	19MM
YRR-4	1/4	6MM	YRR-532-4	5/32 by 1/4	
YRR-5	5/16	8MM	YRR-4-5	1/4 by 5/16	
YRR-6	3/8	10MM			
YRR-7	7/16	12MM			

VC-Y

Vacuum style fittings available in natural Nylon or Black Nylon 6/6. Good for temperatures from -20° to 212° F. Used for air, liquid, or vapor applications.



VC-Y-3B-P	3/16 Vacuum Connector WYE
VC-Y-4B	1/4 Vacuum Connector WYE
VC-Y-4B3B-O	1/4 by 3/16 Vacuum Connector WYE
VC-Y-6B	3/8 Vacuum Connector WYE
VC-Y-6B-T	3/8 Vacuum Connector WYE

SWIVELS — PLASTIC

AM-U-14S

1/4-28 bottom seal with swivel ultimate Barb. Polypropylene or PVDF interior with Nylon encasement.. White Nylon w/ Black, red, blue, or green.



AM-U-14S1B-NPW	1/4-28 White Nylon over Polypro 1/16 Barb
AM-U-14S332B-NPW	1/4-28 White Nylon over Polypro 3/32 Barb
AM-U-14S2B-NPW	1/4-28 White Nylon over Polypro 1/8 Barb

AS-IG Series

Swivel fittings aid in removal of the MNPT or UNF unit from a port connection while leaving the tubing in place. Molded of Black Nylon with a Buna seal.



AS-IG-2MX1B	Swivel 1/8 MNPT by 1/16 Barb
AS-IG-2MX332B	Swivel 1/8 MNPT by 3/32 Barb
AS-IG-2MX2B	Swivel 1/8 MNPT by 1/8 Barb
AS-IG-4MX1B	Swivel 1/4 MNPT by 1/16 Barb
AS-IG-4MX332B	Swivel 1/4 MNPT by 3/32 Barb
AS-IG-4MX2B	Swivel 1/4 MNPT by 1/8 Barb



AS-IG-10X1B	Swivel 10-32 by 1/16 Barb
AS-IG-332B	Swivel 10-32 by 3/32 Barb
AS-IG-10X2B	Swivel 10-32 by 1/8 Barb

ATS-IG

These MNPT and UNF Pipe Swivel Tees allow for tubing to be rotated into position. Molded of Black Nylon with Buna seals.



ATS-IG-2MX1B	1/8 MPT by 1/16 Barb Swivel
ATS-IG-2MX332B	1/8 MPT by 3/32 Barb Swivel
ATS-IG-2MX2B	1/8 MPT by 1/8 Barb Swivel
ATS-IG-4MX1B	1/4 MPT by 1/16 Barb Swivel
ATS-IG-4MX332B	1/4 MPT by 3/32 Barb Swivel
ATS-IG-4MX2B	1/4 MPT by 1/8 Barb Swivel

ATS-IG-10X1B	10-32 by 1/16 Barb Tee
ATS-IG-10X332B	10-32 by 3/32 Barb Tee
ATS-IG-10X2B	10-32 by 1/8 Barb Tee

ADAPTERS—PLASTIC

A-IG

These units are molded of Nylon having a multi-Barb design with a 10-32 thread. Barb size for 1/16, 1/8, and .170 ID tubing.



A-IG-10X1B-BN	10-32 by 1/16
A-IG-10X2B-BN	10-32 by .125
A-IG-10X170-BN	10-32 by .170

A-S-M

Standard single Barb metric adapter for M5 or M6 ports molded from White Nylon or Black Nylon.



A-S-M5-1B	M5 Thread by 1/16 Barb
A-S-M5-332B	M5 Thread by 3/32 Barb
A-S-M5-532B	M5 Thread by 5/32 Barb
A-S-M6-2B	M6 Thread by 1/8 Barb
A-S-M6-3B	M6 Thread by 3/16 Barb

A-S

Standard single Barb UNF adapter for 10-32 or 1/4 -28 molded from White Nylon or natural Polypropylene.



A-S-101B-WN	10-32 Thread by 1/16 Barb
A-S-10T1B-WN	10-32 Taper by 1/16 Barb
A-S-10332-WN	10-32 Thread by 3/32 Barb
A-S-10332-BN	10-32 Thread by 3/32 Barb
A-S-10T332B-WN	10-32 Taper by 3/32 Barb
A-S-102B-WN	10-32 Thread by 1/8 Barb
A-S-10T2B-WN	10-32 Taper by 1/8 Barb
A-S-10532-WN	10-32 Thread by 5/32 Barb
A-S-10T532B-WN	10-32 Taper by 5/32 Barb
A-S-141B-WN	1/4-28 by 1/16 Barb
A-S-14332B-WN	1/4-28 by 3/32 Barb
A-S-142B-WN	1/4-28 by 1/8 Barb
A-S-14532-WN	1/4-28 by 5/32 Barb

APX Series

standard adapter with 10-32, 10-32 taper, 1/4-28 or 1/16 NPT threads made in natural Nylon , Polypropylene, PVDF, Polyethylene, and Black Nylon.



APX-101B	10-32 by 1/16 Barb
APX-10332B	10-32 by 3/32 Barb
APX-10532B	10-32 by 5/32 Barb
APX-102B	10-32 by 1/8 Barb
APX-10T1B	10-32 Taper by 1/16 Barb
APX-10T332B	10-32 Taper by 3/32 Barb
APX-10T2B	10-32 Taper by 1/8 Barb
APX-141B	1/4-28 by 1/16 Barb
APX-1M1B	1/16 NPT by 1/16 Barb
APX-1M332B	1/16 NPT by 3/32 Barb
APX-1M532B	1/16 NPT by 5/32 Barb
APX-1M2B	1/16 NPT by 1/8 Barb
APX-1M3B	1/16 NPT by 3/16 Barb

AM-S Series

standard single Barb adapters molded from White Nylon, Black Nylon, or natural Polypropylene. Orifices available.

AM-S-1M1B-BN	1/16 NPT by 1/16
AM-O-1M332B-BN	1/16 NPT by 3/32
AM-S-1M2B-BN	1/16 NPT by 1/8
AM-S-1M3B-BN	1/16 NPT by 3/16
AM-S-2M1B	1/8 NPT by 1/16
AM-S-2M1.5B	1/8 NPT by 3/32
AM-S-2M2B	1/8 NPT by 1/8
AM-O-2M3B	1/8 NPT by 3/16
AM-S-2M3B	1/8 NPT by 3/16
AM-O-2M4B	1/8 NPT by 1/4
AM-S-2M3B-PP	1/8 NPT by 3/16

**PTFE Barbed
Fittings
Available**

1/8 NPT to 1 NPT

ASA Series

10-32 by 1/16 Barb in Polypropylene with shroud replaces tube clamp.



ASA-1032-1B-PP	10-32 by 1/16 Barb
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A-W Series

Precision connector Nylon or Polypropylene



A-W-332	3/32 Barb
A-W-18	1/8 Barb

USTA Series

UNF straight thread by 5/32 Barb Nylon.



USTA-3824	3/8-24 UNF Thread by 5/32 Barb
USTA-71624	7/16-24 UNF Thread by 5/32 Barb
USTA-1220	1/2-20 UNF Thread by 5/32 Barb
USTA-91618	9/16-18 UNF Thread by 5/32 Barb
USTA-91620	9/16-20 UNF Thread by 5/32 Barb

WE BUILD CUSTOM TUBE ASSEMBLIES



A-R Series

standard adapter made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon. Available in PTFE, PVDF, and PVC. BSPT Threads Available



A-R-2M532B	1/8 NPT x 5/32 Barb	A-R-4M5B	1/4 NPT x 5/16 Barb	A-R-4M6B	1/4 NPT x 3/8 Barb
A-R-2M2B	1/8 NPT x 1/8 Barb	A-R-8M6B-NN	1/2 NPT x 3/8 Barb	A-R-6M4B	3/8 NPT x 1/4 Barb
A-R-2M3B	1/8 NPT x 3/16 Barb	A-R-8M8B-NN	1/2 NPT x 1/2 Barb	A-R-6M5B	3/8 NPT x 5/16 Barb
A-R-2M4B	1/8 NPT x 1/4 Barb	A-R-12M10B-NN	3/4 NPT x 5/8 Barb	A-R-6M6B	3/8 NPT x 3/8 Barb
A-R-2M5B	1/8 NPT x 5/16 Barb	A-R-12M12B-NN	3/4 NPT x 3/4 Barb	A-R-6M8B	3/8 NPT x 1/2 Barb
A-R-2M6B	1/8 NPT x 3/8 Barb	A-R-12M16B-NN	3/4 NPT x 1 Barb	A-R-8M10B	1/2 NPT x 5/8 Barb
A-R-4M532B	1/4 NPT x 5/32 Barb	A-R-12M4B-NN	3/4 NPT x 1/4 Barb	A-R-8M12B	1/2 NPT x 3/4 Barb
A-R-4M2B	1/4 NPT x 1/8 Barb	A-R-12M6B-NN	3/4 NPT x 3/8 Barb	A-R-8M4B	1/2 NPT x 1/4 Barb
A-R-4M3B	1/4 NPT x 3/16 Barb	A-R-12M8B-NN	3/4 NPT x 1/2 Barb	A-R-8M4B-PVDF	1/2 MNPT x 1/4 Barb
A-R-4M4B	1/4 NPT x 1/4 Barb	A-R-16M16B-NN	1 NPT x 1 Barb		

AM Series

Male thread with a standard triple barb hose. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material: natural Polypropylene (FDA listed), Black Polypropylene (FDA listed), and Black Nylon. Barbed fittings over 1 are not offered in Polyethylene. ** AVAILABLE IN PVDF MATERIAL**



AM-2M3B-N	1/8 MNPT 3/16 Barb**	AM-8M8B-N	1/2 MNPT 1/2 Barb**
AM-2M4B-N	1/8 MNPT 1/4 Barb**	AM-8M10B-N	1/2 MNPT 5/8 Barb
AM-2M5B-N	1/8 MNPT 5/16 Barb**	AM-8M12B-N	1/2 MNPT 3/4 Barb
AM-2M6B-N	1/8 MNPT 3/8 Barb**	AM-8M16B-N	1/2 MNPT 1 Barb
AM-4M.532-N	1/4MNPT 5/32 Barb	AM-12M4B-N	3/4 MNPT 1/4 Barb
AM-4M3B-N	1/4 MNPT 3/16 Barb	AM-12M6B-N	3/4 MNPT 3/8 Barb**
AM-4M4B-N	1/4 MNPT 1/4 Barb**	AM-12M8B-N	3/4 MNPT 1/2 Barb**
AM-4M5B-N	1/4 MNPT 5/16 Barb **	AM-12M10B-N	3/4 MNPT 5/8 Barb
AM-4M6B-N	1/4 MNPT 3/8 Barb**	AM-12M12B-N	3/4 MNPT 3/4 Barb**
AM-4M8B-N	1/4 MNPT 1/2 Barb	AM-12M16B-N	3/4 MNPT 1 Barb
AM-6M4B-N	3/8 MNPT 1/4 Barb**	AM-16M12B-N	1 MNPT 3/4 Barb
AM-6M5B-N	3/8 MNPT 5/16 Barb	AM-16M16B-N	1 MNPT 1 Barb**
AM-6M6B-N	3/8 MNPT 3/8 Barb**	AM-20M12B-N	1-1/4 MNPT 3/4 Barb
AM-6M8B-N	3/8 MNPT 1/2 Barb**	AM-20M16B-N	1-1/4 MNPT 1 Barb
AM-6M10B-N	3/8 MNPT 5/8 Barb	AM-20M20B-N	1-1/4 MNPT 1-1/4 Barb
AM-8M3B-N	1/2 MNPT 3/16 Barb	AM-20M24B-N	1-1/4 MNPT 1-1/2 Barb
AM-8M4B-N	1/2 MNPT 1/4 Barb**	AM-24M12B-N	1-1/2 MNPT 3/4 Barb
AM-8M6B-N	1/2 MNPT 3/8 Barb**	AM-24M16B-N	1-1/2 MNPT 1 Barb
		AM-24M20B-N	1-1/2 MNPT 1-1/4 Barb
		AM-24M24B-N	1-1/2 MNPT 1-1/2 Barb

AM Series

Multi-Barb, grey PVC adapter



AM-8M8B-PVC	1/2 MNPT 1/2 Barb	AM-16M24B-PVC	1 MNPT 1-1/2 Barb
AM-12M12B-PVC	3/4 MNPT 3/4 Barb	AM-20M24B-PVC	1-1/4 MNPT 1-1/2 Barb
AM-16M16B-PVC	1 MNPT 1 Barb	AM-24M32B-PVC	1-1/2 MNPT 2 Barb
AM-20M20B-PVC	1-1/4 MNPT 1-1/4 Barb	AM-8M4B-PVC	1/2 MNPT 1/4 Barb
AM-24M24B-PVC	1-1/2 MNPT 1-1/2 Barb	AM-12M8B-PVC	3/4 MNPT 1/2 Barb
AM-32M32B-PVC	2 MNPT 2 Barb	AM-16M8B-PVC	1 MNPT 1/2 Barb
AM-8M16B-PVC	1/2 MNPT 1 Barb	AM-16M12B-PVC	1 MNPT 3/4 Barb
AM-12M16B-PVC	3/4 MNPT 1 Barb	AM-20M12B-PVC	1-1/4 MNPT 3/4 Barb
AM-16M20B-PVC	1 MNPT 1-1/4 Barb	AM-20M16B-PVC	1-1/4 MNPT 1 Barb

AMB

Blunt Barb is useful when using Polyethylene tubing. Available in Nylon or Black Polypropylene.



AMB-2M3B-N	1/8 MNPT 3/16	AMB-12M4B-N	3/4 MNPT 1/4
AMB-2M4B-N	1/8 MNPT 1/4	AMB-12M6B-N	3/4 MNPT 3/8
AMB-2M5B-N	1/8 MNPT 5/16	AMB-12M8B-N	3/4 MNPT 1/2
AMB-2M6B-N	1/8 MNPT 3/8	AMB-12M10B-N	3/4 MNPT 5/8
AMB-2M8B-N	1/8 MNPT 1/2	AMB-12M12B-N	3/4 MNPT 3/4
AMB-4M4B-N	1/4 MNPT 1/4	AMB-12M16B-N	3/4 MNPT 1
AMB-4M5B-N	1/4 MNPT 5/16	AMB-12M20B-N	3/4 MNPT 1-1/4
AMB-4M6B-N	1/4 MNPT 3/8	AMB-16M6B-N	1 MNPT 3/8
AMB-4M8B-N	1/4 MNPT 1/2	AMB-16M8B-N	1 MNPT 1/2
AMB-4M10B-N	1/4 MNPT 5/8	AMB-16M10B-N	1 MNPT 5/8
AMB-4M12B-N	1/4 MNPT 3/4	AMB-16M12B-N	1 MNPT 3/4
AMB-6M4B-N	3/8 MNPT 1/4	AMB-16M16B-N	1 MNPT 1
AMB-6M5B-N	3/8 MNPT 5/16	AMB-16M20B-N	1 MNPT 1-1/4 inch
AMB-6M6B-N	3/8 MNPT 3/8	AMB-20M12B-N	1-1/4 MNPT 3/4
AMB-6M8B-N	3/8 MNPT 1/2	AMB-20M16B-N	1-1/4 MNPT 1
AMB-6M10B-N	3/8 MNPT 5/8	AMB-20M20B-N	1-1/4 MNPT 1-1/4
AMB-6M12B-N	3/8 MNPT 3/4	AMB-20M24B-N	1-1/4 MNPT 1-1/2
AMB-8M4B-N	1/2 MNPT 1/4	AMB-24M16B-N	1-1/2 MNPT 1
AMB-8M6B-N	1/2 MNPT 3/8	AMB-24M20B-N	1-1/2 MNPT 1-1/4
AMB-8M8B-N	1/2 MNPT 1/2	AMB-24M24B-N	1-1/2 MNPT 1-1/2
AMB-8M10B-N	1/2 MNPT 5/8	AMB-24M32B	1-1/2 MNPT 2
AMB-8M12B-N	1/2 MNPT 3/4	AMB-32M24B	2 MNPT 1-1/2
AMB-8M16B-N	1/2 MNPT 1	AMB-32M32B	2 MNPT 2
AMB-8M24B-N	1/2 MNPT 1-1/2 inch	AMB-48M48B	3 MNPT 3

USTM Series

UNF by Barb Acetal or ABS.



USTM-332AC	5/16-24 by 3/32 Barb
USTM-2AC	5/16-24 by 1/8 Barb
USTM-532AC	5/16-24 by 5/32 Barb
USTM-3AC	5/16-24 by 3/16 Barb

USTF

5/16-24 Female by 1/8 to 1/4 U style Barb Nylon.



USTF-516-1	5/16-24 Female by 1/16 U
USTF-516-332	5/16-24 Female by 3/32 U
USTF-516-2	5/16-24 FEMale by 1/8 U
USTF-516-3	5/16-24 Female by 3/16 U
USTF-516-532	5/16-24 Female by 5/32 U
USTF-516-4	5/16-24 Female by 1/4 U

**WE CAN MAKE
SIZES FROM
1/16" to 1/4"
Barbs**

AF

Female thread with a standard triple barb hose. Molded of natural Nylon (NSF listed.) Optional materials Black Polypropylene (FDA listed) and Black Nylon. Barbed fitting over 1 are not offer in Polyethylene.



**BSPT Threads
AVAILABLE**

AF-2F3B-N	1/8 FNPT 3/16 Barb	AF-6F8B-N	3/8 FNPT 1/2 Barb
AF-2F4B-N	1/8 FNPT 1/4 Barb	AF-6F10B-N	3/8 FNPT 5/8 Barb
AF-2F6B-N	1/8 FNPT 3/8 Barb	AF-8F4B-N	1/2 FNPT 1/4 Barb
AF-4F3B-N	1/4 FNPT 3/16 Barb	AF-8F6B-N	1/2 FNPT 3/8 Barb
AF-4F4B-N	1/4 FNPT 1/4 Barb	AF-8F8B-N	1/2 FNPT 1/2 Barb
AF-4F6B-N	1/4 FNPT 3/8 Barb	AF-8F10B-N	1/2 FNPT 5/8 Barb
AF-6F4B-N	3/8 FNPT 1/4 Barb	AF-8F12B-N	1/2 FNPT 3/4 Barb
AF-6F6B-N	3/8 FNPT 3/8 Barb	AF-12F12B-N	3/4 FNPT 3/4 Barb

AFB

Blunt end useful with Polyethylene tubing. Available in Nylon or Black Polypropylene.



AFB-2F4B-N	1/8 FNPT 1/4 Barb	AFB-8F8B-N	1/2 FNPT 1/2 Barb
AFB-2F6B-N	1/8 FNPT 3/8 Barb	AFB-8F12B-N	1/2 FNPT 3/4 Barb
AFB-6F6B-N	3/8 FNPT 3/8 Barb	AFB-12F8B-N	3/4 FNPT 1/2 Barb
AFB-6F8B-N	3/8 FNPT 1/2 Barb	AFB-12F10B-N	3/4 FNPT 5/8 Barb
AFB-8F6B-N	1/2 FNPT 3/8 Barb	AFB-12F12B-N	3/4 FNPT 3/4 Barb

FD

Female thread.



FD-8F8B	1/2 FNPT 1/2 Barb
FD-12F12B	3/4 FNPT 3/4 Barb
FD-16F16B	1 FNPT 1 Barb
FD-20F20B	1-1/4 FNPT 1-1/4 Barb
FD-24F24B	1-1/2 FNPT 1-1/2 Barb
FD-32F32B	2 FNPT 2 Barb

AFH

Available in Nylon, Black Polypropylene, PVDF, and PTFE.



AFH-2F4B-N	1/8 FNPT 1/4 Barb	AFH-8F4B-N	1/2 FNPT 1/4 Barb
AFH-2F6B-N	1/8 FNPT 3/8 Barb	AFH-8F6B-N	1/2 FNPT 3/8 Barb
AFH-4F4B-N	1/4 FNPT 1/4 Barb	AFH-8F8B-N	1/2 FNPT 1/2 Barb
AFH-4F6B-N	1/4 FNPT 3/8 Barb	AFH-8F10B-N	1/2 FNPT 5/8 Barb
AFH-4F8B-N	1/4 FNPT 1/2 Barb	AFH-8F12B-N	1/2 FNPT 3/4 Barb
AFH-6F4B-N	3/8 FNPT 1/4 Barb	AFH-12F4B-N	3/4 FNPT 1/4 Barb
AFH-6F6B-N	3/8 FNPT 3/8 Barb	AFH-12F6B-N	3/4 FNPT 3/8 Barb
AFH-6F8B-N	3/8 FNPT 1/2 Barb	AFH-12F8B-N	3/4 FNPT 1/2 Barb
AFH-6F10B-N	3/8 FNPT 5/8 Barb	AFH-12F10B-N	3/4 FNPT 5/8 Barb
AFH-6F12B-N	3/8 FNPT 3/4 Barb	AFH-12F12B-N	3/4 FNPT 3/4 Barb

ODB

Female NPT threaded Nylon double Barb tubing for soft rubber hose. Exceptions in Polypropylene (PP)



ODB-4F-4B	1/4 FNPT by 1/4 Barb	P
ODB-4F-6B	1/4 FNPT by 3/8 Barb	
ODB-6F-6B	3/8 FNPT by 3/8 Barb	
OBD-6F-8B	3/8 FNPT by 1/2 Barb	
ODB-8F-8B	1/2 FNPT by 1/2 Barb	P

ELBOW ADAPTERS—PLASTIC

SDE Series

10-32 by 1/16 Barb with shroud that acts as a clamp for 1/8 OD tubing.



SDE-1B

10-32 by 1/16

ACE

10-32 thread available in 1/16, 1/8, 3/32, and 5/32 Barb. Materials available include natural Nylon, natural Polypropylene, PVDF, Polyethylene, and Black Nylon. Available in 10-32, 10-32 taper and 1/4-28 threads.



ACE-101B	10-32 by 1/16 Barb	ACE-10T2B	10-32 Taper by 1/8 Barb
ACE-10T1B	10-32 Taper by 1/16 Barb	ACE-142B	1/4-28 by 1/8 Barb
ACE-10332B	10-32 by 3/32 Barb	ACE-1M1B	1/16 NPT by 1/16 Barb
ACE-10532B	10-32 by 5/32 Barb	ACE-1M332B	1/16 NPT by 3/32 Barb
ACE-10T332B	10-32 Taper by 3/32 Barb	ACE-1M532B	1/16 NPT by 5/32 Barb
ACE-102B	10-32 by 1/8 Barb	ACE-1M2B	1/16 NPT by 1/8 Barb

ALS-IG

UNF and Male Pipe Thread elbow fittings have Buna O-ring seals for 360° pivotal positioning. Molded of Black Nylon.



ALS-IG-10X1B	Adapter Swivel 10-32 by .062 Barb Elbow
ALS-IG-10X332B	Adapter Swivel 10-32 by 3/32 Barb Elbow
ALS-IG-10X2B	Adapter Swivel 10-32 by .125 Barb Elbow
ALS-IG-2MX1B	Adapter Swivel 1/8 MPT by .062 Barb Elbow
ALS-IG-2MX332B	Adapter Swivel 1/8 MPT by 3/32 Barb Elbow
ALS-IG-2MX2B	Adapter Swivel 1/8 MPT by .125 Barb Elbow
ALS-IG-4MX1B	Adapter Swivel 1/4 MPT by .062 Barb Elbow
ALS-IG-4MX332B	Adapter Swivel 1/4 MPT by 3/32 Barb Elbow
ALS-IG-4MX2B	Adapter Swivel 1/4 MPT by .125 Barb Elbow



AL-S-UNF

10-32 UNF threaded elbow with 1/16, 3/32, or 1/8 Barb. Available in White Nylon, Black Nylon, Polypropylene, and PVDF. A tapered 10-32 thread is optional.



AL-S-1B-WN	10-32 by 1/16 Barb Elbow
AL-S-10T1B-WN	10-32 Taper by 1/16 Barb Elbow
AL-S-332B-WN	10-32 by 3/32 Barb Elbow
AL-S-10T332B-WN	10-32 Taper by 3/32 Barb Elbow
AL-S-102B-WN	10-32 by 1/8 Barb Elbow
AL-S-10T2B-WN	10-32 Taper by 1/8 Barb Elbow

AL-R

standard adapter elbow made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



AL-R-12M10B-NN	3/4 NPT by 5/8 Barb	AL-R-4M3B-NN	1/4 NPT by 3/16 Barb
AL-R-12M12B-NN	3/4 NPT by 3/4 Barb	AL-R-4M4B-NN	1/4 NPT by 1/4 Barb
AL-R-12M16B-NN	3/4 NPT by 1 Barb	AL-R-4M5B-NN	1/4 NPT by 5/16 Barb
AL-R-12M4B-NN	3/4 NPT by 1/4 Barb	AL-R-4M6B-NN	1/4 NPT by 3/8 Barb
AL-R-12M6B-NN	3/4 NPT by 3/8 Barb	AL-R-4M8B-NN	1/4 NPTBY 1/2 Barb
AL-R-12M8B-NN	3/4 NPT by 1/2 Barb	AL-R-6M4B-NN	3/8 NPT by 1/4 Barb
AL-R-16M16B-NN	1 in NPT by 1 in Barb	AL-R-6M5B-NN	3/8 NPT by 5/16 Barb
AL-R-2M532B-NN	1/8 NPT by 5/32 Barb	AL-R-6M6B-NN	3/8 NPT by 3/8 Barb
AL-R-2M2B-NN	1/8 NPT by 1/8 Barb	AL-R-6M8B-NN	1/2 NPT by 3/8 Barb
AL-R-2M4B-NN	1/8 NPT by 1/4 Barb	AL-R-8M10B-NN	1/2 NPT by 5/8 Barb
AL-R-2M5B-NN	1/8 NPT by 5/16 Barb	AL-R-8M12B-NN	1/2 NPT by 3/4 Barb
AL-R-2M6B-NN	1/8 NPT by 3/8 Barb	AL-R-8M4B-NN	1/2 NPT by 1/4 Barb
AL-R-4M532-NN	1/4 NPT by 5/32 Barb	AL-R-8M6B-NN	1/2 NPT by 3/8 Barb
AL-R-4M2B-NN	1/4 NPT by 1/8 Barb	AL-R-8M8B-NN	1/2 NPT by 1/2 Barb

**BSPT THREADS
AVAILABLE**

AL-W

Precision connector in Nylon and Polypropylene.



AL-W-332	3/32 Barb
AL-W-18	1/8 Barb
AL-W-1018-PP	10-32 by 1/8 Barb Elbow Polypropylene

AL-I

Industrial adapter elbow fitting made in natural Nylon and Polypropylene.



AL-I-2M2B	1/8 NPT by 1/8 Barb Elbow
AL-I-2M3B	1/8 NPT by 3/16 Barb Elbow
AL-I-2M4B	1/8 NPT by 1/4 Barb Elbow
AL-I-6M3B	3/8 NPT by 3/16 Barb Elbow
AL-I-8M4B	1/2 NPT by 1/4 Barb Elbow

**Low profile fittings available in 1/8, 1/4 and 3/8 NPT with 1/16 to 5/32 hose barbs.
Our LPM series. Great for cramped plumbing spaces.**

AML

Male thread by elbow with a standard triple barb hose. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material: natural Polypropylene (FDA listed), Black Polypropylene (FDA listed), and Black Nylon. Barbed fittings over 1 are not offered in Polyethylene.

** AVAILABLE IN PVDF MATERIAL**



AML-2M3B-N	1/8 MNPT 3/16 Barb Nylon**
AML-2M4B-N	1/8 MNPT 1/4 Barb Nylon**
AML-2M5B-N	1/8 MNPT 5/16 Barb Nylon**
AML-2M6B-N	1/8 MNPT 3/8 Barb Nylon**
AML-4M3B-N	1/4 MNPT 3/16 Barb Nylon
AML-4M4B-N	1/4 MNPT 1/4 Barb Nylon**
AML-4M5B-N	1/4 MNPT 5/16 Barb Nylon
AML-4M6B-N	1/4 MNPT 3/8 Barb Nylon**
AML-4M8B-N	1/4 MNPT 1/2 Barb Nylon
AML-6M4B-N	3/8 MNPT 1/4 Barb Nylon**
AML-6M6B-N	3/8 MNPT 3/8 Barb Nylon**
AML-6M8B-N	3/8 MNPT 1/2 Barb Nylon**
AML-6M10B-N	3/8 MNPT 5/8 Barb Nylon
AML-8M4B-N	1/2 MNPT 1/4 Barb Nylon
AML-8M6B-N	1/2 MNPT 3/8 Barb Nylon
AML-8M8B-N	1/2 MNPT 1/2 Barb Nylon*8
AML-8M10LB-N	1/2 MNPT 5/8 LONG Barb Nylon
AML-8M12LB-N	1/2 MNPT 3/4 LONG Barb Nylon**
AML-8M16B-N	1/2 MNPT 1 Barb Nylon
AML-12M4B-N	3/4 MNPT 1/4 Barb Nylon
AML-12M6LB-N	3/4 MNPT 3/8 LONG Barb Nylon**
AML-12M8LB-N	3/4 MNPT 1/2 LONG Barb Nylon**
AML-12M10B-N	3/4 MNPT 5/8 Barb Nylon
AML-12M12B-N	3/4 MNPT 3/4 Barb Nylon
AML-12M16B-N	3/4 MNPT 1 Barb Nylon
AML-16M8B-N	1 MNPT 1/2 Barb Nylon
AML-16M12B-N	1 MNPT 3/4 Barb Nylon
AML-16M16B-N	1 MNPT 1 Barb Nylon**
AML-20M12B-N	1-1/4 MNPT 3/4 Barb Nylon
AML-20M16B-N	1-1/4 MNPT 1 Barb Nylon
AML-20M20B-N	1-1/4 MNPT 1-1/4 IN Barb Nylon
AML-20M24B-N	1-1/4 MNPT 1-1/2 IN Barb Nylon
AML-24M12B-N	1-1/2 MNPT 3/4 Barb Nylon
AML-24M16B-N	1-1/2 MNPT 1 Barb Nylon
AML-24M20B-N	1-1/2 MNPT 1-1/4 IN Barb Nylon
AML-24M24B-N	1-1/2 MNPT 1-1/2 IN Barb Nylon

AML-S

standard single Barb adapters molded from Nylon or natural Polypropylene.



AML-S-1M1B-BN	1/16 NPT by 1/16	AML-S-2M2B	1/8 NPT by 1/8
AML-O-1M332B-BN	1/16 NPT by 3/32 Original	AML-O-2M3B	1/8 NPT by 3/16 Original
AML-S-1M2B-BN	1/16 NPT by 1/8	AML-S-2M3B	1/8 NPT by 3/16
AML-S-1M3B-BN	1/16 NPT by 3/16	AML-O-2M4B	1/8 NPT by 1/4 Original
AML-S-2M1B	1/8 NPT by 1/16	AML-S-2M3B-PP	1/8 NPT by 3/16 Polypropylene
AML-S-2M332B	1/8 NPT by 3/32		

AFL

Female thread by elbow with a standard triple barb hose. Molded of natural Nylon (NSF listed.) Optional materials: Black Polypropylene (FDA listed) and Black Nylon.



AFL-2F4B-N	1/8 FNPT 1/4 Barb	AFL-6F8B-N	3/8 FNPT 1/2 Barb
AFL-2F6B-N	1/8 FNPT 3/8 Barb	AFL-6F10B-N	3/8 FNPT 5/8 Barb
AFL-4F4B-N	1/4 FNPT 1/4 Barb	AFL-8F4B-N	1/2 FNPT 1/4 Barb
AFL-4F6B-N	1/4 FNPT 3/8 Barb	AFL-8F6B-N	1/2 FNPT 3/8 Barb
AFL-4F8B-N	1/4 FNPT 1/2 Barb	AFL-8F8B-N	1/2 FNPT 1/2 Barb
AFL-6F4B-N	3/8 FNPT 1/4 Barb	AFL-8F10B-N	1/2 FNPT 5/8 Barb
AFL-6F6B-N	3/8 FNPT 3/8 Barb		

AFLH

Female NPT elbow in Nylon or Black Polypropylene.



AFLH-2F3B-N	1/8 FNPT 3/16 Barb	AFLH-8F4B-N	1/2 FNPT 1/4 Barb
AFLH-2F4B-N	1/8 FNPT 1/4 Barb	AFLH-8F6B-N	1/2 FNPT 3/8 Barb
AFLH-2F6B-N	1/8 FNPT 3/8 Barb	AFLH-8F8B-N	1/2 FNPT 1/2 Barb
AFLH-4F3B-N	1/4 FNPT 3/16 Barb	AFLH-8F10B-N	1/2 FNPT 5/8 Barb
AFLH-4F4B-N	1/4 FNPT 1/4 Barb	AFLH-8F12B-N	1/2 FNPT 3/4 Barb
AFLH-4F6B-N	1/4 FNPT 3/8 Barb	ALFH-12F6B-N	3/4 FNPT 3/8 Barb
AFLH-6F4B-N	3/8 FNPT 1/4 Barb	ALFH-12F8B-N	3/4 FNPT 1/2 Barb
AFLH-6F6B-N	3/8 FNPT 3/8 Barb	ALFH-12F10B-N	3/4 FNPT 5/8 Barb
AFLH-6F8B-N	3/8 FNPT 1/2 Barb	ALFH-12F12B-N	3/4 FNPT 3/4 Barb

BREAKAWAY FITTINGS

Breakaway fittings made of ABS, for 1/8, 1/4 and 3/8 ID tubing . Simply snap off the breakable ends to create quick repairs to line. These can be combined with bondable units to make numerous configurations.



TEE ADAPTERS—PLASTICS

AT-S-UNF

10-32 threaded tee with no parting line on the barbs. Available in 1/16, 3/32, and 1/8 barbs. Available in White Nylon and Black Nylon, with optional 10-32 taper thread. Also 1/8 NPT connectors.



AT-S-332B-WN	10-32 by 3/32 Barb Tee
AT-S-101B-WN	10-32 by 1/16 Barb Tee
AT-S-10T332-WN	10-32 Taper by 3/32 Barb Tee
AT-S-10T1B-WN	10-32 Taper by 1/16 Barb Tee
AT-S-10T2B-WN	10-32 Taper by 1/8 Barb Tee
AT-S-2B-WN	10-32 by 1/8 Barb Tee
AT-S-2M3B	1/8 NPT 3/16 Barb
AT-S-2M4B	1/8 NPT by 1/4 Barb

AT-I

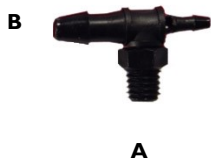
An industrial adapter tee fitting made in natural Nylon and Polypropylene.



AT-I-2M1B	1/8 NPT by 1/16 Barb Tee
AT-I-2M2B	1/8 NPT by 1/8 Barb Tee
AT-I-2M4B	1/8 NPT by 1/4 Barb Tee

GMT

Available 10-32, 10-32 taper or 1/4-28 thread with barbs of 1/16, 3/32, or 1/8 barbs can be asymmetrical rotating clockwise. Available in natural, Black or White Nylon, Polypropylene, or PVDF.



B	GMT-10-1B	10-32 by 1/16 Barb
C	GMT-10-1B2B	10-32 by 1/16 by 1/8 Barb
	GMT-10-3B2B	10-32 by 3/16 by 1/8 Barb
	GMT-14-2B	1/4-28 by 1/8 Barb
A	GMT-14-3B1B	1/4-28 by 3/16 Barb by 1/16 Barb

SDT

1/16 shrouded Barb tee in Polypropylene



SDT-10-1B

10-32 by 1/16 Barb

AT-W

Precision connectors in Nylon and polypro.



AT-W-332

10-32 by 3/32 Barb

AT-W-18

10-32 by 1/8 Barb

AT-R

standard adapter made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon.



AT-R-2M532B-NN 5/32 NPT by 1/8 Barb
 AT-R-2M4B-NN 1/4 NPT by 1/8 Barb
 AT-R-2M6B-NN 3/8 NPT by 1/8 Barb
 AT-R-4M532B-NN 5/32 NPT by 1/4 Barb
 AT-R-4M3B-NN 3/8 NPT by 1/4 Barb
 AT-R-4M4B-NN 1/4 NPT by 1/4 Barb
 AT-R-4M5B-NN 5/16 NPT by 1/4 Barb
 AT-R-4M6B-NN 3/8 NPT by 1/4 Barb
 AT-R-4M8B-NN 1/2 NPT by 1/4 Barb
 AT-R-6M6B-NN 3/8 NPT by 3/8 Barb

AT-R-6M8B-NN 1/2 NPT by 3/8 Barb
 AT-R-8M12B-NN 3/4 NPT by 1/2 Barb
 AT-R-8M4B-NN 1/4 NPT by 1/2 Barb
 AT-R-8M6B-NN 3/8 NPT by 1/2 Barb
 AT-R-8M8B-NN 1/2 NPT by 1/2 Barb
 AT-R-12M12B-NN 3/4 NPT by 3/4 Barb
 AT-R-12M16B-NN 1 NPT by 3/4 Barb
 AT-R-12M4B-NN 1-1/4 NPT by 3/4 Barb
 AT-R-12M8B-NN 1-1/2 NPT by 3/4 Barb
 AT-R-16M16M-NN 1 NPT by 1 Barb

BSPT Threads available**AT**

Male thread by tee with a standard triple barb hose. Molded of natural Nylon (NSF listed) or Black Polyethylene (NSF listed.) Optional material: natural Polypropylene (FDA listed), Black Polypropylene (FDA listed)

** AVAILABLE IN PVDF MATERIAL**



AT-2M3B-N 1/8 MNPT x 3/16 Barb**
 AT-2M4B-N 1/8 MNPT x 1/4 Barb
 AT-4M3B-N 1/4 MNPT x 3/16 Barb
 AT-4M4B-N 1/4 MNPT x 1/4 Barb
 AT-4M5B-N 1/4 MNPT x 5/16 Barb
 AT-4M6B-N 1/4 MNPT x 3/8 Barb
 AT-4M8B-N 1/4 MNPT x 1/2 Barb
 AT-6M4B-N 3/8 MNPT x 1/4 Barb
 AT-6M6B-N 3/8 MNPT x 3/8 Barb

AT-6M8B-N 3/8 MNPT x 1/2 Barb
 AT-8M6B-N 1/2 MNPT x 3/8 Barb
 AT-8M8B-N 1/2 MNPT x 1/2 Barb
 AT-8M16B-N 1/2 MNPT x 1 Barb
 AT-12M12B-N 3/4 MNPT x 3/4 Barb
 AT-12M16B-N 3/4 MNPT x 1 Barb
 AT-16M16B-N 1 MNPT x 1 Barb
 ATB-8M10B 1/2 NPT x 5/8 Barb
 ATB-12M10B 3/4 NPT x 5/8 Barb

FAT

Female tees of ABS, Polypropylene or Nylon



FAT-2F1B	1/8 FNPT 1/16 Barb
FAT-2F4B	1/8 FNPT 1/4 Barb ABS
FAT-2F6B	1/8 FNPT 3/8 Barb ABS
FATT-4F6B	1/4 FNPT 3/8 Barb Polypropylene
FATT-4F8B	1/4 FNPT 1/2 Barb Polypropylene
FATH-12F12B	3/4 FNPT 3/4 Barb Nylon or Poly
FATH-12F20B	3/4 FNPT 1 1/4 Barb Nylon or Poly

FACT

Female adapter tees of Polypropylene



FACT-4F6B	1/4 FNPT 3/8 Barb Polypro
FACT-4F8B	1/4 FNPT 1/2 Barb Polypro

WE CAN MAKE SPECIAL TEES for YOU

MRTT

Available in 10-32, 10-32 taper and 1/4-28 thread with barbs of 1/16, 3/32, or 1/8 on the through path and same options on the branch. Available in: natural, Black or White Nylon, Polypropylene, or PVDF.



MRTT-6M8B	3/8 MNPT by 1/2 Barb Polyethylene
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GMRT

Available in 10-32, 10-32 taper and 1/4-28 thread with barbs of 1/16, 3/32, or 1/8 on the through path and same options on the branch. Available in: natural, Black or White Nylon, Polypropylene, or PVDF.



GMRT-10-1B1B	10-32 UNF 1/16 Barb
GMRT-10-1B332B	10-32 UNF 1/16 by 3/32 Barb
GMRT-10T-1B2B	10-32 Taper UNF 1/16 by 1/8 Barb
GMRT-14-1B2B	1/4-28 1/16 by 1/8 Barb
GMRT-14-2B2B	1/4-28 1/8 by 1/8 Barb

MR-I

An industrial male run tee made in natural Nylon and Polypropylene.



MR-I-2M2B	1/8 Male Run by 1/8 Barb
MR-I-2M3B	1/8 Male Run by 3/16 Barb

PIPE FITTINGS—PLASTIC

RB-S

standard reducer pipe bushings made in natural Nylon or Black Polypropylene.



RB-S-4M2F	1/4 Male by 1/8 Female	RB-S-8M6F	1/2 Male by 3/8 Female
RB-S-6M2F	3/8 Male by 1/8 Female	RB-S-12M2F	3/4 Male by 1/8 Female
RB-S-6M4F	3/8 Male by 1/4 Female	RB-S-12M4F	3/4 Male by 1/4 Female
RB-S-8M2F	1/2 Male by 1/8 Female	RB-S-12M6F	3/4 Male by 3/8 Female
RB-S-8M4F	1/2 Male by 1/4 Female	RB-S-12M8F	3/4 Male by 1/2 Female

RB-B

Reducer bushing in Black polypro or Nylon. Available in PVDF, PTFE, PVC, and natural polypro.



RB-B4-2	1/4 by 1/8 F	RB-B16-12	1 by 3/4 F
RB-B6-2	3/8 by 1/8 F	RB-B114-12	1-1/4 by 3/4 F
RB-B6-4	3/8 by 1/4 F	RB-B114-16	1-1/4 by 1 F
RB-B8-2	1/2 by 1/8 F	RB-B112-12	1-1/2 by 3/4 F
RB-B8-4	1/2 by 1/4 F	RB-B112-16	1-1/2 by 1 F
RB-B8-6	1/2 by 3/8 F	RB-B112-114	1-1/2 by 1-1/4 F
RB-B12-2	3/4 by 1/8 F	RB-B2-16	2 by 1 F
RB-B12-4	3/4 by 1/4 F	RB-B2-114	2 by 1-1/4 F
RB-B12-6	3/4 by 3/8 F	RB-B2-112	2 by 1-1/2 F
RB-B12-8	3/4 by 1/2 F	RB-B3-2	3 by 2 F
RB-B16-8	1 by 1/2 F	RB-B-6M4F	3/8 Male to 1/4 Female

RB-I

Pipe reducer bushing 10-32, 1/4-28, or 1/16 female thread made in natural Nylon or Polypropylene.



RB-I-1014M	10-32 by 1/4-28 NPT Reducer
RB-I-101M	10-32 by 1/16 NPT Reducer
RB-I-102M	10-32 by 1/8 NPT Reducer
RB-I-10-4M	10-32 by 1/4 NPT Reducer
RB-I-142M	1/4-28 by 1/8 NPT Reducer
RB-I-144M	1/4-28 by 1/4 NPT Reducer
RB-I-14M	1/16 FNPT by 1/4 NPT

HN-S

A 10-32 hex nipple available in Nylon, colored Nylon, or polypro. Also optional: 10-32 Taper threads.



HN-S-10 Nipple 10-32 Threads

HN-R

standard pipe nipples made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, and Glass-Filled Black Nylon. Available in schedule 80.



HN-R-2M	1/8 Nipple	HN-R-6M4M	3/8 by 1/4 Reducer
HN-R-4M	1/4 Nipple	HN-R-6M2M	3/8 by 1/8 Reducer
HN-R-6M	3/8 Nipple	HN-R-8M2M	1/2 by 1/8 Reducer
HN-R-8M	1/2 Nipple	HN-R-8M4M	1/2 by 1/4 Reducer
HN-R-12M	3/4 Nipple	HN-R-8M6M	1/2 by 3/8 Reducer
HN-R-16M	1 Nipple	HN-R-16M12M	1 by 3/4 Reducer

HRN

standard reducing pipe adapters made in natural Nylon, Polypropylene, or Black Polyethylene. I sizes in Black Polypropylene only.



HRN-4M2M	1/4 by 1/8 Pipe	HRN-16M8M	1 by 1/2
HRN-6M2M	3/8 by 1/8 Pipe	HRN-16M12M	1 by 3/4
HRN-6M4M	3/8 by 1/4 Pipe	HRN-20M12M	1-1/4 by 3/4
HRN-8M2M	1/2 by 1/8 Pipe	HRN-20M16M	1-1/4 by 1 inch
HRN-8M4M	1/2 by 1/4 Pipe	HRN-24M16M	1-1/2 by 1 inch
HRN-8M6M	1/2 by 3/8 Pipe	HRN-24M20M	1-1/2 by 1-1/4 inch
HRN-12M6M	3/4 by 3/8 Pipe	HRN32M20M	2 by 1-1/4
HRN-12M8M	3/4 by 1/2 Pipe	HRN-32M24M	2 by 1-1/2 inch
		HRN-48M32M	3 by 2 inch

HN

standard pipe nipples made in natural Nylon or Black Polyethylene.



HN-2M	Hex Nipple 1/8 Pipe	HN-8M	Hex Nipple 1/2 Pipe
HN-4M	Hex Nipple 1/4 Pipe	HN-12M	Hex Nipple 3/4 Pipe
HN-6M	Hex Nipple 3/8 Pipe	HN-16M	Hex Nipple 1 Pipe

NPB

Black Polypropylene schedule 80.

1/2 NPT (8), 3/4 NPT(12), 1 NPT (16), 1-1/4 NPT (20), 1-1/2 NPT (24), 2 NPT (32).



NPB-8-CL	1/2 NPT Close Nipple	NPB-8-3	1/2 NPT by 3 Nipple
NPB-8-SH	1/2 NPT Short Nipple	NPB-8-4	1/2 NPT by 4 Nipple
NPB-8-2	1/2 NPT by 2 Nipple	NPB-8-6	1/2 NPT by 6 Nipple
		NPB-8-8	1/2 NPT by 8 Nipple

PVDF	1/2, 3/4, 1 and 2 NPT Up to 6 Lengths
PTFE	1/8 to 3 NPT IN Close or Short NIPPLES Only
PVC	1/8 to 6 NPT Close Nipple to 12 Lengths

FPC and FPRC

Couplers available in Nylon and Black Polypropylene.



FPC-2F	1/8 Coupler		
FPC-4F	1/4 Coupler	FPRC-6F4F	3/8 by 1/4 Coupler
FPC-6F	3/8 Coupler	FPRC-8F6F	1/2 by 3/8 Coupler
FPC-8F	1/2 Coupler	FPRC-12F6F	3/4 by 3/8 Coupler
FPRC-4F2F	1/4 by 1/8 Coupler	FPRC-12F8F	3/4 BY 1/2 Coupler
FPRC-6F2F	3/8 by 1/8 Coupler	FPRC-1810R2	1/8 by 10-32
RC-12F8F	3/4 to 1/2 Reducing Coupler	FPRC-181428R2	1/8 by 1/4-28

JBC

Couplers and reducing couplers made of Black 13% Glass-Filled Polypropylene schedule 80. Also available in PTFE, 1/8 to 3 in., and natural polypro.



JBC-6	3/8 FNPT	JBC-134	1 by 3/4 FNPT
JBC-8	1/2 FNPT	JBC-241	1-1/2 by 1 INPT
JBC-12	3/4 FNPT	JBC-2420	1-1/2 by 1-1/4 FNPT
JBC-16	1 FNPT	JBC-328	2 by 1/2 FNPT
JBC-20	1-1/4 FNPT	JBC-3216	2 by 1 FNPT
JBC-24	1-1/2 FNPT	JBC-3220	2 by 1-1/4 FNPT
JBC-32	2 FNPT	JBC-3224	2 by 1-1/2 FNPT
JBC-48	3 NPT	JBC-4832	3 by 2 FNPT

FFG

Female elbow made in natural Nylon or Black Polypropylene. Available in PVDF, PTFE, and Natural Polypropylene.



FFG-12	1/2 Female Elbow
FFG-34	3/4 Female Elbow
FFG-1	1 Female Elbow
FFG-20	1-1/4 Female Elbow
FFG-24	1-1/2 Female Elbow
FFG-32	2 Female Elbow

FFG5

Female by female 45. Available in natural PVDF, Nylon or Black polypropylene



FFG5- 8	1/2 inch
FFG5- 12	3/4
FFG5- 16	1 inch
FFG5- 24	1-1/2
FFG5- 32	2 inch

FMG

Elbow available in Black polypro or Nylon. PTFE, PVDF optional



FMG-4	1/4 MNPT by FPT
FMG-8	1/2 MNPT by FPT
FMG-12	3/4 MNPT by FPT
FMG-16	1 MNPT by FPT
FMG-20	1-1/4 MNPT by FPT
FMG-24	1-1/2 MNPT by FPT
FMG-32	2 MNPT by FPT
FMG-48	3 MNPT by FPT Poly Only

FMA

Available in Black polypro or Nylon.



FMA-18	1/8 MNPT by FPT
FMA-38	3/8 MNPT by FPT
FMA-12	1/2 MNPT by FPT
FMA-34	3/4 MNPT by FPT

FEP45

Black polypro is standard. * Nylon optional



FEP45-4M4F	1/4 MNPT by 1/4 FNPT *
FEP45-8M8F	1/2 MNPT by 1/2 FNPT
FEP45-8M12F	1/2 MNPT by 3/4 FNPT *
FEP45-12M12F	3/4 MNPT by 3/4 FNPT N
FEP45-16M16F	1 MNPT by 1 FNPT
FEP45-20M20F	1-1/4 MNPT by 1-1/4 FNPT
FEP45-24M24F	1-1/2 MNPT by 1-1/2 FNPT
FEP45-32M32F	2 MNPT by 2 FNPT
FEP45-48M48F	3 MNPT by 3 FNPT

FTGFemale tees of Nylon or Black Polypropylene with optional gauge port.
Available in PTFE or natural polypro. * Nylon only ** Polypropylene only

FTG-4	1/4
FTG-6	3/8 Poly Only
FTG-8	1/2
FTG-12	3/4
FTG-16	1 inch
FTG-20	1-1/4 *
FTG-24	1-1/2 *
FTG-32	2 inch
FTG-48	3 **
FTG-8-G2	1/2 with 1/8 GP
FTG-8-G4	1/2 with 1/4 GP
FTG-12-G4	3/4 with 1/4 GP
FTG-16-G4	1 with 1/4 GP
FTG-20-G4	1-1/4 with 1/4 GP
FTG-24-G4	1-1/2 with 1/4 GP

1-1/4 and 1-1/2 in Nylon only**JBX**

Female NPT crosses made of Black Polypropylene 13% Glass-Filled schedule 80.



JBX-8	1/2 Female
JBX-12	3/4 Female
JBX-16	1 Female
JBX-20	1-1/4 Female
JBX-24	1-1/2 Female
JBX-32	2 Female

FST

Black Glass-Filled Nylon male run street tees.



FST-18	1/8 MNPT by 1/8 FNPT
FST-14	1/4 MNPT by 1/4 FNPT
FST-38	3/8 MNPT by 3/8 FNPT
FST-14M 38	1/4 MNPT by 3/8 FNPT

HAE

Black 33% Glass-Filled Nylon.



HAE 2M4F	1/8 M by 1/4 F
HAE-4M4F	1/4 M by 1/4 F
HAE-4M6F	1/4 M by 3/8 F

PIPE PLUGS—PLASTIC

FC

Female caps made of Nylon or Black Polypropylene. Also available in PVDF, PTFE, and PVC.



FC-2F	1/8 Female Cap
FC-4F	1/4 Female Cap
FC-6F	3/8 Female Cap
FC-8F	1/2 Female Cap
FC-12F	3/4 Female Cap

RSP

Recessed Nylon hex plug industrial grade. 1/8, 1/4, 1/4-28, and 10-32



RSP-1032	10-32	RSP-2M	1/8
RSP-1428	14-28	RSP-4M	1/4

HP

standard pipe plugs made in natural Nylon or Black Polyethylene.



HP-S-2M	Hex Plug 1/8 NPT
HP-S-4M	Hex Plug 1/4 NPT
HP-S-6M	Hex Plug 3/8 NPT
HP-S-8M	Hex Plug 1/2 NPT
HP-S-12M	Hex Plug 3/4 NPT
HP-S-16M	Hex Plug 1 NPT
HP-S-20M	Hex Plug 1-1/4 NPT
HP-S-24M	Hex Plug 1-1/2 NPT

**Available swivel fittings of
Polypropylene 1 inch, 1-1/2
and 2 male by female**

RSD

Recessed hex plug made of Acetal. Slotted Acetal version available. RSDS



RSD-18	1/8 NPT
RSD-14	1/4 NPT

SPP

Slotted Nylon and Polypropylene pipe plug 1/8 to 3/4.



SPP-2M	1/8 MNPT
SPP-4M	1/4 MNPT
SPP-6M	3/8 MNPT
SPP-8M	1/2 MNPT
SPP-12M	3/4 MNPT

HP-R

standard pipe plugs made in natural Nylon, PVDF, and Polyethylene certified NSF 51/61. Also available in natural Polypropylene, White Polypropylene, Gray PVDF, Black Nylon, Glass-Filled Black Nylon, PTFE, and Black polypro.



HP-R-4M	1/4 Hex Plug
HP-R-6M	3/8 Hex Plug
HP-R-8M	1/2 Hex Plug
HP-R-12M	3/4 Hex Plug
HP-R-16M	1 Hex Plug

**Schedule 80
Available**

RHP

Recessed hex plug made from Black Polyethylene.



RHP-2	1/8 NPT
RHP-4	1/4 NPT
RHP-6	3/8 NPT
RHP-8	1/2 NPT
RHP-12	3/4 NPT
RHP-16	1 NPT
RHP-20	1-1/4 NPT
RHP-24	1-1/2 NPT

HPS

Pipe plugs solid from 10-32 to 1/4-NPT threads made in natural Nylon or Polypropylene.



HPS-10	10-32 Hex Plug
HPS-1428	1/4-28 Hex Plug
HPS-2M	1/8 Hex Plug
HPS-4M	1/4 Hex Plug

SP

Square head plug made from Black HDPE Polyethylene.



SP-4	1/4 NPT
SP-6	3/8 NPT
SP-8	1/2 NPT
SP-12	3/4 NPT
SP-16	1 NPT

P-W

A hex plug molded in Nylon or Polypropylene with 10-32 threads. Colored Nylon is optional.









P-W-10	Plug 10-32 Threads
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**WE CAN BUILD YOUR CUSTOM
PARTS: 1/8 Female Cross or 1/8
Male by 3-1/8 Female Ports**













GARDEN HOSE FITTINGS—PLASTIC

	<p>FPN 3/4 NPS female nut for use with hose Barb stems FHS. standard Nylon or Black Polypropylene.</p>	<p>FHS-B Designed for use with 3/4 FPN nut. Designed with blunt end and extra long stem.</p>		
	<p>FHVV Black vinyl washer for 3/4 FPN caps.</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 20%; text-align: center; vertical-align: middle;">  </td> <td style="padding: 2px;"> <p>FHS-B-4B-BPP Hose Stem 1/4 Barb</p> <p>FHS-B-6B-BPP Hose Stem 3/8 Barb</p> <p>FHS-B-8B-BPP Hose Stem 1/2 Barb</p> <p>FHS-B-10B-BPP Hose Stem 5/8 Barb</p> <p>FHS-B-12B-BPP Hose Stem 3/4 Barb</p> </td> </tr> </table>		<p>FHS-B-4B-BPP Hose Stem 1/4 Barb</p> <p>FHS-B-6B-BPP Hose Stem 3/8 Barb</p> <p>FHS-B-8B-BPP Hose Stem 1/2 Barb</p> <p>FHS-B-10B-BPP Hose Stem 5/8 Barb</p> <p>FHS-B-12B-BPP Hose Stem 3/4 Barb</p>
	<p>FHS-B-4B-BPP Hose Stem 1/4 Barb</p> <p>FHS-B-6B-BPP Hose Stem 3/8 Barb</p> <p>FHS-B-8B-BPP Hose Stem 1/2 Barb</p> <p>FHS-B-10B-BPP Hose Stem 5/8 Barb</p> <p>FHS-B-12B-BPP Hose Stem 3/4 Barb</p>			
<p>FPNS-16 1 FNPT cap and 1 hose Barb made of Nylon or Black polypro.</p>				
				

GHB-S
Hose Barb stems for use with GHN series nuts. standard Nylon or Black Polypropylene.

	<p>GHB-S-532B-N Garden Hose Stem 5/32</p> <p>GHB-S-3B-N Garden Hose Stem 3/16</p> <p>GHB-S-4B-N Garden Hose Stem 1/4</p> <p>GHB-S-6B-N Garden Hose Stem 3/8</p>	<p>GHB-S-8B-N Garden Hose Stem 1/2</p> <p>GHB-S-10B-N Garden Hose Stem 5/8</p> <p>GHB-S-11B-N Garden Hose Stem 1-1/16</p> <p>GHB-S-12B-N Garden Hose Stem 3/4</p>	
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<p>GHC-S Garden hose caps in Nylon or Black Polypropylene.</p>	<p>GHN-S 3/4 female garden hose nut for use with hose Barb stems. standard Nylon or Black Polypropylene.</p>	<p>GHP Garden hose plug in Nylon or Black Polypropylene.</p>	<p>GHW standard garden hose washer made of Uniprene or PVC</p> <p>GHWF standard garden hose filter</p>
			

<p>FGHF Female garden hose adapter by a female pipe thread. standard Nylon or Black Polypropylene.</p>	<p>MGHB-S Male garden hose by Barb. standard Nylon or Black Polypropylene.</p>				
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%; text-align: center; vertical-align: middle;">  </td> <td style="padding: 2px;"> <p>FGHF-8F Female GHT by 1/2 Female Pipe</p> <p>FGHF-12F Female GHT by 3/4 Female Pipe</p> </td> </tr> </table>		<p>FGHF-8F Female GHT by 1/2 Female Pipe</p> <p>FGHF-12F Female GHT by 3/4 Female Pipe</p>	<table style="width: 100%; border: none;"> <tr> <td style="width: 20%; text-align: center; vertical-align: middle;">  </td> <td style="padding: 2px;"> <p>MGHB-S-3B MGT by 3/16 Barb</p> <p>MGHB-S-4B MGT by 1/4 Barb</p> <p>MGHB-S-6B MGT by 3/8 Barb</p> <p>MGHB-S-8B MGT by 1/2 Barb</p> <p>MGHB-S-10B MGT by 5/8 Barb</p> <p>MGHB-S-12B MGT by 3/4 Barb</p> </td> </tr> </table>		<p>MGHB-S-3B MGT by 3/16 Barb</p> <p>MGHB-S-4B MGT by 1/4 Barb</p> <p>MGHB-S-6B MGT by 3/8 Barb</p> <p>MGHB-S-8B MGT by 1/2 Barb</p> <p>MGHB-S-10B MGT by 5/8 Barb</p> <p>MGHB-S-12B MGT by 3/4 Barb</p>
	<p>FGHF-8F Female GHT by 1/2 Female Pipe</p> <p>FGHF-12F Female GHT by 3/4 Female Pipe</p>				
	<p>MGHB-S-3B MGT by 3/16 Barb</p> <p>MGHB-S-4B MGT by 1/4 Barb</p> <p>MGHB-S-6B MGT by 3/8 Barb</p> <p>MGHB-S-8B MGT by 1/2 Barb</p> <p>MGHB-S-10B MGT by 5/8 Barb</p> <p>MGHB-S-12B MGT by 3/4 Barb</p>				

MGHM-S

Male garden hose by a male pipe thread. standard Nylon or Black Polypropylene.



MGHM-S-4M Male GHT by 1/4 Male Pipe
 MGHM-S-6M Male GHT by 3/8 Male Pipe
 MGHM-S-8M Male GHT by 1/2 Male Pipe
 MGHM-S-12M Male GHT by 3/4 Male Pipe
 MGHM-S-1M Male GHT by 1 Male Pipe

FGH

Female garden hose by a female garden hose. standard Nylon or Black Polypropylene .



FGHF-8F Female GHT Adapter to 1/2 Female Pipe
 FGHF-12F Female GHT Adapter to 3/4 Female Pipe

FGHM

Female garden hose by a male pipe thread. standard Nylon or Black Polypropylene.



FGHM-4M Female GHT by 1/4 Male Pipe
 FGHM-6M Female GHT by 3/8 Male Pipe
 FGHM-8M Female GHT by 1/2 Male NPT
 FGHM-12M Female GHT by 3/4 Male Pipe

GHE

Garden hose by Barb elbow Nylon



GHE-6B 3/8 Barb Elbow
 GHE-8B 1/2 Barb Elbow
 GHE-10B 5/8 Barb Elbow
 GHE-12B 3/4 Barb Elbow
 GHE-16B 1 Barb Elbow

GHME

Garden hose by male pipe elbow Nylon.



GHME-6M GHT by 3/8 NPT
 GHME-8M GHT by 1/2 NPT
 GHME-12M GHT by 3/4 NPT

GHBVS-F-S

Garden hose by slip. ABS with 650 or 850 socket.



GHBS-650 Garden hose by .650 slip

GTI

Garden hose cam lock.



GTI-FGH Plug by FGHT
 GTI-MGH Plug by MGHT

MGH

Male garden hose by a male garden hose. standard Nylon or Black Polypropylene.



MGH 3/4 MGHT by MGHT

MGHF-B and MGHF-S

Male garden hose by a female pipe thread. standard Nylon or Black Polypropylene.



MGHF-B-4F Male GHT by 1/4 Female Pipe
 MGHF-S-4F Male GHT by 1/4 Female Pipe
 MGHF-S-6F Male GHT by 3/8 Female Pipe
 MGHF-S-8F Male GHT by 1/2 Female Pipe
 MGHF-S-12F Male GHT by 3/4 Female Pipe

FGHMS

Female garden hose by a male pipe thread swivel. standard Nylon or Black Polypropylene.



FGHMS-2M FGH by 1/8 Male Pipe Swivel
 FGHMS-4M FGH by 1/4 Male Pipe Swivel
 FGHMS-6M FGH by 3/8 Male Pipe Swivel
 FGHMS-8M FGH by 1/2 Male Pipe Swivel

GHT

Garden hose by Barb tee Nylon or poly.



MGHT-6B 3/8 Barbed Tee
 MGHT-8B 1/2 Barbed Tee
 MGHT-12B 3/4 Barbed Tee

GHBV

Garden hose shut off. ABS Blue, green, or yellow. Available with swivel nut.



GHBV MGH by FGH Shut off

GTC

Garden hose cam lock socket.



GTC-FGH Socket by FGHT
 GTC-MGH Socket by MGHT

**CAM LOCKS AVAILABLE IN
 BR, SS, AL, and Plastic**

GARDEN HOSE FITTINGS—METAL

MGHB MGHT by hose Barb.		FGHBS FGHT by Barb swivel with rubber washer.	
	MGHB-38B MGHT by 3/8 Barb MGHB-12B MGHT by 1/2 Barb MGHB-58B MGHT by 5/8 Barb MGHB-34B MGHT by 3/4 Barb		FGHBS-38B FGHT by 3/8 Barb FGHBS-12B FGHT by 1/2 Barb FGHBS-58B FGHT by 5/8 Barb FGHBS-34B FGHT by 3/4 Barb
MGFP MGHT by FNPT.		MGMP MGHT by MNPT.	
	MGFP-14F MGHT by 1/4 FNPT MGFP-38F MGHT by 3/8 FNPT MGFP-12F MGHT by 1/2 FNPT		MGMP-38M MGHT by 3/8 MNPT MGMP-12M MGHT by 1/2 MNPT MGMP-34M MGHT by 3/4 MNPT
FGMPLS FGHT by MNPT long nipple.		FGFP FGHT by FNPT.	
	FGMPLS-14M FGHT by 1/4 NPT LONG FGMPLS-38M FGHT by 3/8 NPT LONG FGMPLS-12M FGHT by 1/2 NPT LONG		FGFP-12 FGHT by 1/2 FNPT FGFP-34 FGHT by 3/4 FNPT FGFP-12SW Swivel Optional
FGMP FGHT by 3/4 MNPT.	MGMG MGHT by MGHT.	FGMPS FGHT by 1/2 NPT Swivel.	FGHCP FGHT Cap
			
FGMP-34M		FGMPS-12	
MGFGS MGHT by FGHT swivel.	FGFGS FGHT by FGHT swivel. Non-swivel optional.	MGSP 3/4 MGHT square plug.	
			
MGFGS	FGFGS		
FGC FGHT by compression.		GSBV Brass Valve	
	FGC-14C FGHT by 1/4 OD Compression FGC-38C FGHT by 3/8 OD Compression		GSBV-12FMG 3/4 F by 3/4 MGHT GSBV-FMG 3/4 FGH by MGH REPAIR KITS ARE AVAILABLE: GSBV -R
SAFGB Machined 316 stainless steel female garden hose fittings.		SAMGB Machined 316 stainless steel male garden hose fittings.	
	SAFGB-8B FGH by 1/2 Barb SAFGB-10B FGH by 5/8 Barb SAFGB-12B FGH by 3/4 Barb		SAMGB-8B MGH by 1/2 Barb SAMGB-10B MGH by 5/8 Barb SAMGB-12B MGH by 3/4 Barb SAMGB-16B MGH by 1 Barb
			SAMGM-8M MGH by 1/2 NPT SAMGM-12M MGH by 3/4 NPT

ADAPTERS—BRASS

Brass pipe and connectors 1000 psi –56 to 250 CA360 barstock / CA377 forged larger sizes are cast brass. Barstock may be less expensive than forged units but is heavier. Fittings listed port size then Barb size. **F = Forged B = Barstock NP = Nickel plate**



BHM-2	1/8
BHM-3	3/16
BHM-4	1/4
BHM-5	5/16
BHM-6	3/8
BHM-8	1/2
BHM-10	5/8
BHM-12	3/4
BHM-16	1 inch



BBX-4	1/4
BBX-5	5/16
BBX-6	3/8



BHT-2	1/8
BHT-3	3/16
BHT-4	1/4
BHT-5	5/16
BHT-6	3/8
BHT-8	1/2
BHT-10	5/8
BHT-12	3/4



BHBE-4-2	1/4 by 1/8
BHBE-4-4	1/4 by 1/4
BHBE-5-5	5/16 by 5/16
BHBE-6-2	3/8 by 1/8
BHBE-6-4	3/8 by 1/4
BHBE-6-6	3/8 by 3/8
BHBE-8-4	1/2 by 1/4
BHBE-8-6	1/2 by 3/8
BHBE-8-8	1/2 by 1/2

BHMA

Male NPT by hose Barb brass.



BHMA-1M2B	1/16 NPT by 1/8	BHMA-8M4B	1/2 NPT by 1/4
BHMA-1M4B	1/16 NPT by 1/4	BHMA-8M5B	1/2 NPT by 5/16
BHMA-2M2B	1/8 NPT by 1/8	BHMA-8M6B	1/2 NPT by 3/8
BHMA-2M2BSH	1/8 NPT by 1/8 .475 Barb LGTH.	BHMA-8M8B	1/2 NPT by 1/2
BHMA-2M3B	1/8 NPT by 3/16	BHMA-8M10B	1/2 NPT by 5/8
BHMA-2M4B	1/8 NPT by 1/4	BHMA-8M12B	1/2 NPT by 3/4
BHMA-2M5B	1/8 NPT by 5/16	BHMA-8M16B	1/2 NPT by 1
BHMA-2M6B	1/8 NPT by 3/8	BHMA-12M6B	3/4 NPT by 3/8
BHMA-2M8B	1/8 NPT by 1/2	BHMA-12M8B	3/4 NPT by 1/2
BHMA-4M2B	1/4 NPT by 1/8	BHMA-12M10B	3/4 NPT by 5/8
BHMA-4M3B	1/4 NPT by 3/16	BHMA-12M12B	3/4 NPT by 3/4
BHMA-4M4B	1/4 NPT by 1/4	BHMA-12M16B	3/4 NPT by 1
BHMA-4M5B	1/4 NPT by 5/16	BHMA-16M12B	1 NPT by 3/4
BHMA-4M6B	1/4 NPT by 3/8	BHMA-16M16B	1 NPT by 1 inch
BHMA-4M7B	1/4 NPT by 7/16	BHMA-16M24B	1 NPT by 1-1/4
BHMA-4M8B	1/4 NPT by 1/2		
BHMA-6M4B	3/8 NPT by 1/4		
BHMA-6M5B	3/8 NPT by 5/16		
BHMA-6M6B	3/8 NPT by 3/8		
BHMA-6M8B	3/8 NPT by 1/2		
BHMA-6M10B	3/8 NPT by 5/8		

BHFA

Female NPT by Barb.



BHFA-2F2B	1/8 FPT by 1/8	BHFA-6F4B	3/8 FPT by 1/4
BHFA-2F3B	1/8 FPT by 3/16	BHFA-6F5B	3/8 FPT by 5/16
BHFA-2F4B	1/8 FPT by 1/4	BHFA-6F6B	3/8 FPT by 3/8
BHFA-2F5B	1/8 FPT by 5/16	BHFA-6F8B	3/8 FPT by 1/2
BHFA-2F6B	1/8 FPT by 3/8	BHFA-8F6B	1/2 FPT by 3/8
BHFA-4F2B	1/4 FPT by 1/8	BHFA-8F8B	1/2 FPT by 1/2
BHFA-4F3B	1/4 FPT by 3/16	BHFA-12F12B	3/4 FPT by 3/4
BHFA-4F4B	1/4 FPT by 1/4	BHFA-12F16B	3/4 FPT by 1 inch
BHFA-4F5B	1/4 FPT by 5/16		
BHFA-4F6B	1/4 FPT by 3/8		
BHFA-4F8B	1/4 FPT by 1/2		

BHME

MNPT by Barb 90° forged. Barstock optional.



BHME-2M3B	1/8 by 3/16	B
BHME-2M4B	1/8 by 1/4	B
BHME-2M5B	1/8 by 5/16	
BHME-2M6B	1/8 by 3/8	
BHME-4M3B	1/4 by 3/16	
BHME-4M4B	1/4 by 1/4	B
BHME-4M5B	1/4 by 5/16	
BHME-4M6B	1/4 by 3/8	B
BHME-4M8B	1/4 BY 1/2	
BHME-6M4B	3/8 BY 1/4	
BHME-6M5B	3/8 by 5/16	
BHME-6M6B	3/8 by 3/8	B
BHME-6M8B	3/8 by 1/2	B
BHME-6M10B	3/8 by 5/8	
BHME-8M6B	1/2 by 3/8	
BHME-8M8B	1/2 by 1/2	
BHME-8M10B	1/2 by 5/8	
BHME-8M12B	1/2 by 3/4	
BHME-12M10B	3/4 by 5/8	
BHME-12M12B	3/4 by 3/4	
BHME-12M16B	3/4 by 1 inch	
BHME-16M12B	1 by 3/4	

BHME45

MNPT by Barb 45°.



BHME45-2M4B	1/8M by 1/4
BHME45-2M6B	1/8M by 3/8
BHME45-4M4B	1/4M by 1/4
BHME45-4M6B	1/4M by 3/8
BHME45-4M8B	1/4M by 1/2
BHME45-6M6B	3/8M by 3/8
BHME-456M8B	3/8M by 1/2
BHME-456M10B	3/8M by 5/8

HRB and FBB

Hex bushings available 1/4 through 1 inch.

Face bushings 1/4 M through 3/4 M.



HRB-4M2F	1/4 M by 1/8 F
HRB-6M2F	3/8 M by 1/8 F
HRB-6M4F	3/8 M by 1/4 F
HRB-8M2F	1/2 M by 1/8 F
HRB-8M4F	1/2 M by 1/4 F
HRB-8M6F	1/2 M by 3/8 F
HRB-12M2F	3/4 M by 1/8 F
HRB-12M4F	3/4 M by 1/4 F
HRB-12M8F	3/4 M by 1/2 F
HRB-16M4F	1 M by 1/4 F
HRB-16M6F	1 M by 3/8 F
HRB-16M8F	1 M by 1/2 F
HRB-16M12F	1 M by 3/4 F

BHFE

Female NPT by Barb 90° brass.



BHFE-2F4B	1/8 F by 1/4
BHFE-2F5B	1/8 F by 5/16
BHFE-2F6B	1/8 F by 3/8
BHFE-4F4B	1/4 F by 1/4
BHFE-4F5B	1/4 F by 5/16
BHFE-4F6B	1/4 F by 3/8
BHFE-4F8B	1/4 F by 1/2
BHFE-6F4B	3/8 F by 1/4
BHFE-6F6B	3/8 F by 3/8
BHFE-6F8B	3/8 F by 1/2
BHFE-8F6B	1/2 F by 3/8
BHFE-8F8B	1/2 F by 1/2



BHMT-4M6B	1/4 M by 3/8 Barb
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BHFT

Female NPT by Barb tee. Barstock only.



BHFT-2F4B	1/8 F by 1/4 Barb
BHFT-2F5B	1/8 F by 5/16 Barb
BHFT-2F6B	1/8 F by 3/8 Barb
BHFT-4F4B	1/4 F by 1/4 Barb
BHFT-4F6B	1/4 F by 3/8 Barb
BHFT-6F6B	3/8 F by 3/8 Barb

MRBC

Brass reducer bushing. Nickel plate available (NP).



MRBC-2M1032F	1/8 M by 10-32 F
MRBC-2M1F	1/8 M by 1/16F
MRBC-4M1032F	1/4 M by 10-32 F
MRBC-4M1F	1/4 M by 1/16 F
MRBC-4M2F	1/4 M by 1/8 F
MRBC-6M1032F	3/8 M by 10-32 F
MRBC-6M1F	3/8 M by 1/16 F
MRBC-6M2F	3/8 M by 1/8 F
MRBC-6M4F	3/8 M by 1/4 F
MRBC-8M1032F	1/2 M by 10-32 F
MRBC-8M1F	1/2 M by 1/16 F
MRBC-8M2F	1/2 M by 1/8 F
MRBC-8M4F	1/2 M by 1/4 F
MRBC-8M6F	1/2 M by 3/8 F

**Additional
Reducer
Bushings
PAGE 46**

SFT

Ferrules tube fittings for use with polytube, polyurethane, or PVC tubing.

Chrome plated brass.



SFT-1018	10-32 UNF with 5/64 ID by 1/8
SFT-1014	10-32 UNF with .170 ID by 1/4
SFT-2M18	1/8 NPT with 5/64 ID by 1/8
SFT-2M14	1/8 NPT with .170 ID by 1/4
SFT-2M38	1/8 NPT with 1/4 ID by 3/8 OD
SFT-4M14	1/4 NPT with .170 ID by 1/4
SFT-4M38	1/4 NPT with 1/4 ID by 3/8

COUPLERS—BRASS

BFC

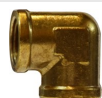
Brass couplers equal.



BFC-2	1/8 Female	NP
BFC-4	1/4 Female	NP
BFC-6	3/8 Female	NP
BFC-8	1/2 Female	NP
BFC-12	3/4 Female	
BFC-16	1 Female	

BFE

Female NPT 90° equal and reducers. Forged and barstock. Nickel plated available.



Forged



Barstock

BFE-1	1/16 Female	B		
BFE-2	1/8 Female	B F	NP	
BFE-4	1/4 Female	B F	NP	
BFE-6	3/8 Female	B F	NP	
BFE-8	1/2 Female	B F	NP	
BFE-12	3/4 Female	B		
BFE-4-2	1/4 by 1/8 Female	F		
BFE-6-4	3/8 by 1/4 Female	F		
BFE-8-6	1/2 by 1/4 Female	F		
BFE-8-6	1/2 by 3/8 Female			

BFCR

Brass coupler reducer.



BFCR-4-2	1/4-1/8 Female	NP
BFCR-6-2	3/8-1/8 Female	
BFCR-6-4	3/8-1/4 Female	NP
BFCR-8-2	1/2-1/8 Female	
BFCR-8-4	1/2-1/4 Female	
BFCR-8-6	1/2-3/8 Female	NP
BFCR-12-4	3/4-1/4 Female	
BFCR-12-6	3/4-3/8 Female	
BFCR-12-8	3/4-1/2 Female	
BFCR-16-12	1-3/4 Female	

BFE45

Female NPT 45° elbow. Barstock only.



BFE45-2	1/8 Female
BFE45-4	1/4 Female
BFE45-6	3/8 Female
BFE45-8	1/2 Female
BFE45-12	3/4 Female
BFE45-16	1 Female

BFT

Female brass tee forged or barstock. Nickel plated available.



Barstock



Forged

BFT-2	1/8 Female	B F	NP
BFT-4	1/4 Female	B F	NP
BFT-6	3/8 Female	B F	NP
BFT-8	1/2 Female	B F	NP
BFT-12	3/4 Female	B F	NP

BFCC

Female brass cross forged, barstock or cast, 1 size.



Barstock

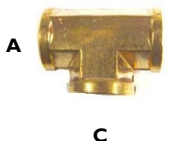


Forged

BFCC-2	1/8 Female	B F	NP
BFCC-4	1/4 Female	B F	NP
BFCC-6	3/8 Female	B F	NP
BFCC-8	1/2 Female	B F	NP
BFCC-12	3/4 Female	B	
BFCC-16	1 Female	C	

BBFTR

Female reducing tee. Forged only.



ITEM	A-B-C
BBFTR-2F-4F	1/8-1/4
BBFTR-4F-2F	1/4-1/8
BBFTR-4F-6F	1/4-3/8
BBFTR-6F-2F	3/8-1/8
BBFTR-6F-4F	3/8-1/4
BBFTR-8F-4F	1/2-1/4
BBFTR-8F-6F	1/2-3/8
BBFTR-12F-8F	3/4-1/2

Reducing Run Tee

ITEM	A-B-C
BBFTR-6F4F-6	3/8-1/4 by 3/8
BBFTR-12F8F-8	3/4-1/2 by 1/2
BBFTR-12F8F-12	3/4-1/2 by 3/4

BAE

Brass extensions and adapters MNPT by FNPT.



BAE-2	1/8 M by 1/8 F
BAE-6	3/8 M by 3/8 F
BAE-8	1/2 M by 1/2 F
BAE-12	3/4 M by 3/4 F

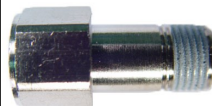


Male by
Female with
Barbs see page
46

BAE-4-2	1/4 M by 1/8 F
BAE-6-2	3/8 M by 1/8 F
BAE-6-4	3/8 M by 1/4 F
BAE-8-4	1/2 M by 1/4 F
BAE-8-6	1/2 M by 3/8 F
BAE-12-6	3/4 M by 3/8 F

BAE

Standard nickel plated adapter, extension, reducer bushing.



BAE-1032MF-N	10-32M	10-32F
BAE-1032M2F-N	10-32M	1/8F
BAE-2M2F-N	1/8 M	1/8F
BAE-2M4F-N	1/8M	1/4F
BAE-2M6F-N	1/8M	3/8F
BAE-4M4F-N	1/4M	1/4F
BAE-4M6F-N	1/4M	3/8F
BAE-4M8F-N	1/4M	1/2F
BAE-6M6F-N	3/8M	3/8F
BAE-6M8F-N	3/8M	1/2F
BAE-8M8F-N	1/2M	1/2F

PIPE FITTINGS—BRASS

BSE45

MNPT by FNPT 45°.



BSE45-2M2F	B F
BSE45-4M4F	B F
BSE45-6M6F	B F
BSE45-8M8F	B
BSE45-12M12F	B
BSE45-16M16F	C

Threads as small as 10-32 available

BSTE

Street elbow reducers. Forged only.



BSTE -4M2F	1/4 M by 1/8 F	NP
BSTE-2M4F	1/8 M by 1/4 F	
BSTE-6M2F	3/8 M by 1/8 F	Barstock only
BSTE-6M4F	3/8 M by 1/4 F	NP
BSTE-4M6F	1/4 M by 3/8 F	
BSTE-8M6F	1/2 M by 3/8 F	
BSTE-6M8F	3/8 M by 1/2 F	NP

BSTE

Street elbow barstock and forged.



BSTE-2	B F	NP
BSTE-4	B F	NP
BSTE-6	B F	NP
BSTE-8	B F	NP
BSTE-12	B F	NP
BSTE-16	C	NP

STM

Male run street tee barstock or forged.



STM-2M2FF	1/8 M by 1/8 F F	B F	NP
STM-4M4FF	1/4 M by 1/4 F F	B F	NP
STM-6M6FF	3/8 M by 3/8 F F	B F	NP
STM-8M8FF	1/2 M by 1/2 F F	B F	NP
STM-12M12FF	3/4 M by 3/4 F F	B F	NP

BME

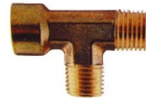
Male by male elbow. Forged only.



BME-2	1/8 by 1/8 M	NP
BME-4-2	1/4 by 1/8 M	
BME-4	1/4 by 1/4 M	NP
BME-6-2	3/8 by 1/8 M	
BME-6-4	3/8 by 1/4 M	
BME-6	3/8 by 3/8 M	NP
BME-8-6	1/2 by 3/8 M	
BME-8	1/2 by 1/2 M	NP

STF

Female run street tee. Forged only.



STF-2F2MM	1/8 F Inlet by 1/8 M by M
STF-4F4MM	1/4 F Inlet by 1/4 M by M

MBT

Male Branch Tee.



MBT-2F2M	1/8F by 1/8 M	B F
MBT-4F4M	1/4F by 1/4 M	B F
MBT-6F6M	3/8F by 3/8 M	B
MBT-8F8M	1/2F by 1/2 M	B

BMT

All male tee. Forged only.



BMT-2	1/8	NP
BMT-4	1/4	NP
BMT-6	3/8	NP
BMT-8	1/2	NP
BMT-12	3/4	

FXF

Female by female union. **NP Available**



FXF-2	1/8	NP
FXF-4	1/4	NP
FXF-6	3/8	NP
FXF-8	1/2	NP

BFBT

Female branch tee. Forged only.



BFBT-2M2F	1/8M by 1/8F
BFBT-4M4F	1/4M by 1/4F

Y-B

Brass "Y" block.



Y-B-14 1/4 Y Block

BXU Brass male union 1/8 to 1/2 NPT

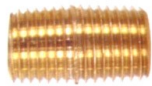


BXU-2	1/8 NPT
BXU-4	1/4 NPT
BXU-6	3/8 NPT

BRASS NIPPLES, PLUGS & CAPS

CNB

Close Nipple.



CNB-1	1/16 NPT	
CNB-2	1/8 NPT	NP
CNB-4	1/4 NPT	NP
CNB-6	3/8 NPT	NP
CNB-8	1/2 NPT	NP
CNB-12	3/4 NPT	
CNB-16	1 NPT	
CNB-20	1-1/4 NPT	
CNB-24	1-1/2 NPT	

LNB

Long Nipple

1-1/2, 2, 2 1/2, 3, 3 1/2, 4, 6, 8, 10, 12 Inches in length.

Example:: LNB-1-12 1/16 by 12 inches

(Nickel Plated 1/8 and 1/4 NPT up to 6 inches in length)



1	1/16 by 1 to 12 (except 3-1/2)	
2	1/8 by 1-1/2 Thru 12	NP
4	1/4 by 1-1/2 Thru 12	NP
6	3/8 by 1-1/2 Thru 8	
8	1/2 by 1-1/2 Thru 8	
12	3/4 by 1-1/2 Thru 3 1/2	
16	1 by 2, 3, 3 1/2	

BHN

Hex Nipple.



BHN-2	1/8 Hex Nipple	NP
BHN-4	1/4 Hex Nipple	NP
BHN-6	3/8 Hex Nipple	NP
BHN-8	1/2 Hex Nipple	NP
BHN-12	3/4 Hex Nipple	NP

HNR

Hex reducing nipple.



HNR-4-2	1/4 M by 1/8 M	NP
HNR-6-2	3/8 M by 1/8 M	NP
HNR-6-4	3/8 M by 1/4 M	NP
HNR-8-4	1/2 M by 1/4 M	NP
HNR-8-6	1/2 M by 3/8 M	NP
HNR-12-8	3/4 M by 1/2 M	

BHFC

Female brass cap



BHFC-2	1/8 FNPT Cap
BHFC-4	1/4 FNPT Cap
BHFC-6	3/8 FNPT Cap
BHFC-8	1/2 FNPT Cap
BHFC-12	3/4 FNPT Cap
BHFC-16	1 FNPT Cap

BHP

MNPT plug hex head hollow core.



BHP-2	1/8 MNPT Plug
BHP-4	1/4 MNPT Plug
BHP-6	3/8 MNPT Plug
BHP-8	1/2 MNPT Plug
BHP-12	3/4 MNPT Plug
BHP-16	1 MNPT Plug

BPC

Recessed hex plug.



BPC-1	1/16 MNPT
BPC-2	1/8 MNPT
BPC-4	1/4 MNPT
BPC-6	3/8 MNPT
BPC-8	1/2 MNPT
BPC-12	3/4 MNPT

BSQP

Square head plug.



BSQP-2	1/8 MNPT Plug
BSQP-4	1/4 MNPT Plug
BSQP-6	3/8 MNPT Plug
BSQP-8	1/2 MNPT Plug
BSQP-12	3/4 MNPT Plug

MP

Slotted head male plug.



MP-10	10-32 Male Plug	CG
MP-14	1/4-28 Male Plug	CG
MP-1	1/16 NPT Male Plug	
MP-2	1/8 NPT Male Plug	
MP-3	3/16 NPT Male Plug	
MP-4	1/4 NPT Male Plug	
MP-5	5/16 NPT Male Plug	
MP-6	3/8 NPT Male Plug	
MP-8	1/2 NPT Male Plug	

Nickel Plate or
303 SS optional

BSLP

Slotted head male plug. Nickel plated and 303 Stainless.



BSLP-2	1/8 MNPT Slotted Plug	NP
BSLP-4	1/4 MNPT Slotted Plug	NP
BSLP-6	3/8 MNPT Slotted Plug	NP
BSLP-8	1/2 MNPT Slotted Plug	NP
BSLP-12	3/4 MNPT Slotted Plug	

MFC

Brass female caps. (also available in nickel-plated)



MFC-10F	10-32 Female Cap
MFC-14F	1/4-28 Female Cap
MFC-1F	1/16 Female Cap
MFC-2F	1/8 Female Cap
MFC-4F	1/4 Female Cap
MFC-6F	3/8 Female Cap

SWIVELS—BRASS

SSWS

Brass 1000 psi swivel with bronze thrust bearing EPDM or FKM seals. Available as Barb or FNPT by MNPT.



SSWS-4M4B	1/4 NPT by 1/4 Barb
SSWS-6M6B	3/8 NPT by 3/8 Barb
SSWS-4F4M	1/4 FNPT by 1/4 MNPT
SSWS-6F6M	3/8 FNPT by 3/8 MNPT
SSWS-8F8M	1/2 FNPT by 1/2 MNPT

SMWS

Male swivel standard.



SMWS-4M4B	1/4 M by 1/4
SMWS-4M6MH	1/4 M by 3/8 High Flow
SMWS-4M6B	3/8 M by 3/8
SMWS-8M8B	1/2 M by 1/2

BHFS

Brass long connect female swivel



BHFS-4F4B	1/4 NPT by 1/4 Barb
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SFWS

FNPS swivel flat seat with gasket.



SFWS-2F4B	1/8 F by 1/4
SFWS-4F4B	1/4 F by 1/4
SFWS-4F5B	1/4 F by 5/16
SFWS-4F6B	1/4 F by 3/8
SFWS-6F4B	3/8 F by 1/4
SFWS-6F6B	3/8 F by 3/8
SFWS-6F8B	3/8 F by 1/2
SFWS-8F6B	1/2 F by 3/8
SFWS-8F8B	1/2 F by 1/2
SFWS-12F8B	3/4 F by 1/2
SFWS-12F10B	3/4 F by 5/8
SFWS-12F12B	3/4 F by 3/4

BHAS

Brass long connection swivel.



BHAS-4M4B	1/4 M by 1/4
BHAS-4M6B	1/4 M by 3/8
BHAS-6M6B	3/8 M by 3/8
BHAS-6M8B	3/8 M by 1/2
BHAS-8M8B	1/2 M by 1/2
BHAS-12M12B	3/4 M by 3/4

BSR

Male by female or hose Barb swivel.



BSR-4M4F	1/4 MNPT by 1/4 FPT
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BSR-4M4B	1/4 MNPT by 1/4 Barb
BSR-4M5B	1/4 MNPT by 5/16 Barb
BSR-4M6B	1/4 MNPT by 3/8 Barb

BHES

Brass long connection swivel.



BHES-2M4B	1/8 M by 1/4
BHES-2M6B	1/8 M by 3/8
BHES-4M4B	1/4 M by 1/4
BHES-4M6B	1/4 M by 3/8
BHES-4M8B	1/4 M by 1/2
BHES-6M6B	3/8 M by 3/8
BHES-6M8B	3/8 M by 1/2
BHES-8M8B	1/2 M by 1/2

ESMM 90 degree swivels of brass



ESMM-4	1/4 Male by 1/4 Male Swivel
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SNPW

Nickel plated 1500 psi. Buna or FKM O-rings. Glass filled polyphenylene thrust bearing.



SNPW-4F4M	1/4 F by 1/4 NP
SNPW-4F6M	3/8 F by 1/4 NP
SNPW-6F4M	3/8 F by 1/4 NP
SNPW-6F6M	3/8 F by 3/8 NP

MSMW Inline swivels of brass



MSMW-4M4F	1/4 M by 1/4 F
MSMW-6M6F	3/8 M by 3/8 F

ESMF

Male by female 90.



ESMF-2	1/8 Male by Female Swivel
ESMF-4	1/4 Male by Female Swivel

KNK

Knuckles 1/4 male, 1/4 female, and 1/4 male by female nickel plated. 360 de-



KNK-14M
KNK-14MF
KNK-14FF

ADAPTERS—BRASS BARBED

DMA

Male adapters



DMA-18332	Male 1/8 by 3/32
DMA-18170	Male 1/8 by .170
DMA-18250	Male 1/8 by .1/4
DMA-14170	Male 1/4 by .170
DMA-14375	Male 1/4 by 3/8
DMA-38375	Male 3/8 by 3/8
DMA-12375	Male 1/2 by 3/8

DME

Male elbows



DME-16170	Male 1/16 by .170
DME-18332	Male 1/8 by 3/32
DME-18170	Male 1/8 by .170
DME-18250	Male 1/8 by .250
DME-14250	Male 1/4 by .250
DME-14375	Male 1/4 by .375
DME-38375	Male 3/8 by .375

DMT

Male tees



DMT-16170	Male 1/16 by .170
DMT-18170	Male 1/8 by .170
DMT-18250	Male 1/8 by .250
DMT-14250	Male 1/4 by .250

DMR

Male run tee



DMR-18170	Male Run Tee 1/8 by .170
DMR-18250	Male Run Tee 1/8 by .250
DMR-14250	Male Run Tee 1/4 by .250

DC Coupler



DC-332	Coupler 3/32
DC-170	Coupler .170
DC-250	Coupler 1/4
DC-375	Coupler 3/8
DC-170332	Coupler .170 by 3/32
DC-250170	Coupler .250 by .170
DC-375170	Coupler .375 by .170
DC-375250	Coupler .375 by .250

DFA

Female NPT adapter by dual Barb.



DFA-18332	1/8 by 3/32
DFA-18170	1/8 by .170
DFA-18250	1/8 by .250

DFE

Female NPT elbow by dual Barb.



DFE-18170	1/8 by .170
DFE-14250	1/4 by .250

DFT

Female NPT by dual Barb tee.



DFT-18332	Tee 1/8 by 3/32
DFT-18170	Tee 1/8 by .170

DT

Barbed tee dual Barb and reducers.



DT-332	Tee 3/32
DT-170	Tee .170
DT-250	Tee .250
DT-375	Tee .375
DT-170332	Tee .170 by .3/32
DT-250332	Tee .250 by .170
DT-250170	Tee .250 by .170
DT-375170	Tee .375 by .170
DT-375250	Tee .375 by .250

DTP

Dual Barb plug.



DTP-170	Tube Plug .170
DTP-250	Tube Plug .250
DTP-375	Tube Plug .375
DTP-33214	Tube Plug 3/32 and 1/4


DE

Elbow dual Barb.



DE-332	Elbow 3/32
DE-170	Elbow .170
DE-14	Elbow 1/4
DE-375	Elbow 3/8
DE-170332	Elbow .170 by 3/32

Bite style fittings have a single sharp Barb to securely hold the tubing from pull-off or slipping. An excellent fitting for use with polyurethane or Polyethylene tubing. Made in brass, nickel plated brass, or 303 stainless.





BNC
BNC-170B

1B	564B	332B	2B	532B	170B	3B	4B	5B	6B	1B	564B	332B	2B	532B	170B	3B	4B	5B	6B
1/16	5/64	3/32	1/8	5/32	.17	3/16	1/4	5/16	3/8	1/16	5/64	3/32	1/8	5/32	.17	3/16	1/4	5/16	3/8

BNCR
BNCR-3B-2B

Slim Line Connectors
AVAILABLE

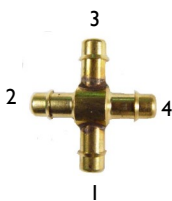
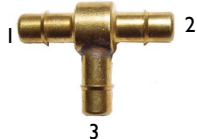
AVAILABLE with
Orifice

BCX
Equal Cross

Crosses, Tees, and Reducers




BT
Equal Tee


Cross	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X

BCXR
Reducer Cross

BRT
Reducer Tees


Sweep Elbow




BCE-1B	1/16 Brass Elbow
BCE-564B	.078 Brass Elbow
BCE-2B	1/8 Brass Elbow
BCE-170B	.170 Brass Elbow



**CUSTOM
CONFIGURATIONS
AVAILABLE**



FAU-10X1B	10-32 UNF Female 1/16
FAU-10X564	10-32 UNF Female .564
FAU-10X332B	10-32 UNF Female 3/32
FAU-10X2B	10-32 UNF Female 1/8
FAU-10X532B	10-32 UNF Female 5/32
FAU-10X170B	10-32 UNF Female .170
FAU-10X3B	10-32 UNF Female 3/16
FAU-10X4B	10-32 UNF Female 1/4
FAU-10X732B	10-32 UNF Female 7/32



FEU-10X1B	10-32 Female Elbow 1/16
FEU-10X564	10-32 Female Elbow .564
FEU-10X332B	10-32 Female Elbow 3/32
FEU-10X2B	10-32 Female Elbow 1/8
FEU-10X532B	10-32 Female Elbow 5/32
FEU-10X170B	10-32 Female Elbow .170

CBT Brass 1/16 and 1/8 OD compression fitting by 10-32, also available in elbow and tee. 1/4-28 and 1/8 NPT available in adapters



CBT-1610 1/16 by 10-32

I86-2

1/16 Barb designed to fit .073 hole using Loctite adhesive.



P10



P10-102B 10-32 with 1/16 and 1/8 Barb

DCP

10-32 by Multi-Barb brass.



DCP-10-2DB 10-32 by DUAL 1/8 Barb
DCP-10-2TB 10-32 by TRIPLE 1/8 Barb
DCP-10-2Q 10-32 by QUAD 1/8 Barb

AED

Adjustable fitting with **DIQ** Barb style.



AED-10-1B Adjustable Elbow 1032 by 1/16 Barb
AED-10-2B Adjustable Elbow 1032 by 1/8 Barb

ATD

Adjustable fitting with **DIQ** Barb style.



ATD-10-1B Adjustable Tee 1032 by 1/16 Barb
ATD-10-2B Adjustable Tee 1032 by 1/8 Barb

ILA

ILA-10 10-32 NP adapter adjustable. 303 SS Optional.
(available as a swivel nickel-plated **ILAS-10**)



SWFA

Swivel adapters brass.



SWFA-2F10M 1/8F by 10-32M
SWFA-10F10M 10-32F by 10-32 M NP optional
SWFA-10F2M 10-32F by 1/8 M

PN, PN-C, PN-E, & PN-T

standard nickel plated brass 1/16 multi Barb. 1/8 and larger are dual barbs.



PN-1B 1/16 Barb
PN-2B 1/8 Barb
PN-2B1B 1/8 by 1/16



PN-C-2B 1/8 Barb Cross



PN-E-2B 1/8 Barb Elbow



PN-T-1B 1/16 Tee
PN-T-2B 1/8 Tee
PN-T-17B .170 Tee
PN-T-532-2B 5/32 by 1/8 Tee
PN-T-17-1B .170 by 1/16 Tee
PN-T-17-2B .170 by 1/8 Tee

DIQ

1/16 and 1/8 single Barb connector brass.



DIQ-2M2B 1/8 MNPT by 1/8 Barb
DIQ-2M1B 1/8 MNPT by 1/16 Barb



DIQ-1B 1/16 Barb
DIQ-2B 1/8 Barb

DIQT

1/16 and 1/8 single Barb connector brass.



DIQT-16 1/16 Barb Tee
DIQT-18 1/8 Barb Tee

CAE

Adjustable fitting with slotted adjustment flush to the surface. Elbows and tee configuration. Brass and Nickel plate



CAE-101B 10-32 by 1/16 Barb
CAE-10332B 10-32 by 3/32 Barb
CAE-102B 10-32 by 1/8 Barb
CAE-10170B 10-32 by 170 Barb

NPRT

NP rotary fitting can be used in constant motion or adjustable. Listed stationary by rotating.



NPRT-18M18M 1/8 M 1/8 M NPRT-18M18F 1/8 M 1/8 F
NPRT-18M14M 1/8 M 1/4 M NPRT-18M14F 1/8 M 1/4 F
NPRT-14M14M 1/4 M 1/4 M NPRT-14M14F 1/4 M 1/4 F
NPRT-38M38M 3/8 M 3/8 M NPRT-38M38F 3/8 M 3/8 F
NPRT-38M12M 3/8 M 1/2 M NPRT-38M38F 3/8 M 1/2 F
NPRT-12M12M 1/2 M 1/2 M NPRT-12M12F 1/2 M 1/2 F

ADAPTERS—BRASS BITE STYLE



BE and BER - 90° Elbows Equals and Reducers
 Order Example:
BE-3B2B or BER-3B2B



ELBOWS/Reducers	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B
1B	X	-	-	-	-	-	-	-	-	-	-
564B	X	X	-	-	-	-	-	-	-	-	-
332B	X	X	X	-	-	-	-	-	-	-	-
2B	X	X	X	X	-	-	-	-	-	-	-
532B	X	X	X	X	X	-	-	-	-	-	-
170B	X	X	X	X	X	X	-	-	-	-	-
3B	X	X	X	X	X	X	X	-	-	-	-
732B	X	X	X	X	X	X	X	X	-	-	-
4B	X	X	X	X	X	X	X	X	X	-	-
5B	X	X	X	X	X	X	X	X	X	X	-
6B	X	X	X	X	X	X	X	X	X	X	X

Bite Style UNF Threads

Available in: 3-56 6-32 8-32 10-32 1/4-20 1/4-28 5/16-24

Metric sizes of: M3X.5 M5X.8 M6X1 M10X1 M8X1.25

Barb Sizes .045(364B) .062(1B) 078(78B) 3/32(332B) 1/8(2B) 5/32(532B) .170(170B) 3/16(3B) 7/32(732B) 1/4(4B) 5/16(5B)

Furnished with fiber gasket.

Also available with O-ring (O) or captive gasket (CG). standard O-ring is Buna.

All units can be nickel plated. 303 stainless is available. Orifices available in all fitting combinations

Order Example: **MAU-10X1B (Metric Prefix is MAM)**

FIBER Only →



ALUMINUM
Fittings ARE
AVAILABLE
ALSO
316 SS
and
303 SS

Straight	132B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
3-56	X	-	X	X	X	X	X	-	-	-	-	-	-	X	X
6-32	-	-	X	X	X	X	X	X	X	X	X	-	-	X	X
8-32	-	-	X	X	X	X	X	X	X	X	X	X	-	X	X
10-24	-	-	X	X	X	X	X	X	X	X	X	X	-	X	X
10-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12-32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1/4-20	-	-	X	X	X	X	X	X	-	-	-	-	-	-	-
1/4-28	-	-	X	X	X	X	X	X	X	X	X	-	-	-	-
5/16-24	-	-	X	X	X	X	X	X	X	X	X	-	-	X	X
M3	-	-	X	X	X	X	X	X	X	X	X	-	-	X	X
M5X.8	-	-	X	X	X	X	X	X	X	X	X	-	-	X	-
M6X1	-	X	X	X	X	X	X	X	X	X	X	-	-	-	-
M10X1	-	X	X	X	X	X	X	X	X	X	X	-	-	-	-



MEU

Brass male elbow. Available in 303 Stainless Steel.
Order Example : **MEU-10X2B**



Elbows	132B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
3-56	-	-	X	X	X	X	-	-	-	-	-	-	-	-	-
4-40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6-32	-	-	X	X	X	-	-	-	-	-	-	-	-	-	-
10-32	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X
1/4-20	-	-	X	X	X	X	X	X	X	X	X	-	-	X	X
5/16-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3X.5	X	-	X	X	X	X	X	X	-	-	-	-	-	-	-
M5	-	-	X	X	X	X	X	X	X	X	X	-	-	-	-
M6	-	X	X	X	X	X	X	X	X	X	X	X	-	-	-

Bite Style Adapters

Available in 1/8, 1/4, and 3/8 male NPT. NP and 303 stainless available
Order Example: **MEV60-4M2B**

MEV60



60 DEGREE Adapters	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B
2M	X	X	X	X	X	X	X	-	-	-	-	-
4M	X	X	X	X	X	X	X	X	X	X	X	X
6M	X	X	X	X	X	X	X	-	-	-	-	-

MEV90



90 DEGREE Adapters	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B
2M	X	X	X	X	X	X	X	-	-	-	-	-
4M	X	X	X	X	X	X	X	X	X	X	X	X
6M	X	X	X	X	X	X	X	-	-	-	-	-

MEV120

120 DEGREE Adapters	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B
2M	X	X	X	X	X	X	X	-	-	-	-	-
4M	X	X	X	X	X	X	X	X	X	X	X	X
6M	X	X	X	X	X	X	X	-	-	-	-	-



MA - Multiport

Brass male adapter manifolds of 2, 3, 4, 5, 6, and 7
 Order Example: **MA-4M5X1B** (with 5 ports)



Male MANIFOLDS	164B	364B	1B	564B	332B	2B	532B	170B	3B
1/16	-	-	-	-	-	-	-	-	-
1/8	-	-	2-4	2-4	2-3	2-3	2	-	-
1/4	-	-	2-7	2-7	2-6	2-4	-	-	-
3/8	-	-	2-7	2-7	2-7	2-6	2-5	2-5	2-4



ME and MA

Bite style brass male adapters and elbows, available in all configurations.
 Order Example: **ME-4M6B** or **MA-4M6B**



ME & MA	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B
1/16	X	X	X	X	X	X	X	X	X	X	X
1/8	X	X	X	X	X	X	X	X	X	X	X
1/4	X	X	X	X	X	X	X	X	X	X	X
3/8	X	X	X	X	X	X	X	X	X	X	X
1/2	X	X	X	X	X	X	X	X	X	X	X

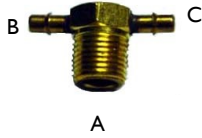


ME45

Brass male 45 degree adapter.
 Order Example: **ME45-2M532B**



Male 45	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B
10-32	X	X	X	-	-	-	-	-	-	-	-	-
1/4-28	X	X	X	X	X	X	X	X	X	-	-	-
5/16-24	-	-	-	-	-	-	-	-	-	-	-	-
1/16 NPT	X	X	X	X	X	X	X	X	X	-	-	-
1/8 NPT	X	X	X	X	X	X	X	X	X	X	X	X
1/4 NPT	X	X	X	X	X	X	X	X	X	X	X	X
3/8 NPT	X	X	X	X	X	X	X	X	X	X	X	X

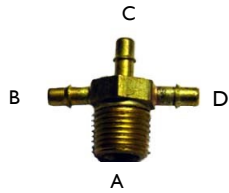


MT
Brass male tee. Order Example: **MT-2X332B**

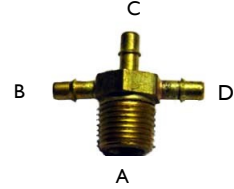
1/8, 1/4, 3/8 and 1/2
NPT available with
any Barb size 1/16 to
1/2

**WE CAN INSTALL 304
Stainless Filters into
numerous
Fittings.**

Male Tee	1B	564B	332B	2B	170B	3B
1/16	X	X	X	X	X	X
1/8	X	X	X	X	X	X
1/4	X	X	X	X	X	X



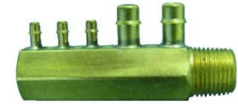
MAT
Brass male adapter tee. Any different Barb sizes can be placed on any hex.
Order Example: **MAT-4M3B**



Male Adapter Tee	1B	564B	2B	3B
1/8	X	X	X	X
1/4	X	X	X	X



MAE
Brass male adapter elbows.
Order Example: **MAE-2M564B**



Brass Manifolds in 1/8 or 1/4 NPT

Male Adapter Elbows	1B	564B	2B	3B
1/16	X	X	X	X
1/8	X	X	X	X
1/4	X	X	X	X



FA and FE
Brass female adapter and female elbow.
Order Example: **FA-6F170B or FE-6F170B**



**AVAILABLE IN
303 Stainless**

Female Adapter	1B	564B	332B	2B	532B	170B	3B	4B	5B	6B
1/8	X	X	X	X	X	X	X	X	X	X
1/4	X	X	-	X	-	X	X	X	-	X
3/8	X	X	X	X	X	X	X	X	X	X



FT
Brass female adapter tees.
Order Example: **FT-2F3B**



Female Adapter Tees	1B	564B	332B	2B	170B	3B	4B	6B
1/8	X	X	-	X	X	X	X	-
1/4	X	X	X	X	X	X	X	X



Female Manifolds

Available with 2 to 8 outlets

Order Example: **FA-2F2X332B**



Female MANI-FOLDS	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
1/16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/8	-	-	2-7	2-7	2-4	2-4	2-3	-	-	-	-	-	-	-	-
1/4	-	-	2-8	2-8	2-6	2-6	2-5	2-4	-	-	-	-	-	-	-
3/8	-	-	2-8	2-8	2-6	2-6	2-5	2-3	-	-	-	-	-	-	-



FEV60, FE90, and FE120

Female Adapters 60°, 90°, and 120°

Order Example: **FE60-2M2B**



Female 60, 90, 120	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B
1/8 - 60	-	-	X	X	X	X	X	X	-	-	-	-	-	-
1/8 - 90	-	-	X	X	X	X	X	X	-	-	-	-	-	-
1/8 - 120	-	-	X	X	X	X	X	X	-	-	-	-	-	-
1/4 - 60	-	-	X	X	X	X	X	X	-	-	-	-	-	-
1/4 - 90	-	-	X	X	X	X	X	X	-	-	-	-	-	-
1/4 - 120	-	-	X	X	X	X	X	X	-	-	-	-	-	-
3/8 - 60	-	-	X	X	X	X	X	X	-	-	-	-	-	-
3/8 - 90	-	-	X	X	X	X	X	X	-	-	-	-	-	-
3/8 - 120	-	-	X	X	X	X	X	X	-	-	-	-	-	-

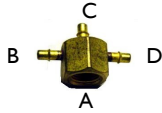


FE-45

Female Adapter 45° Order Example: **FE-45-4F4B**

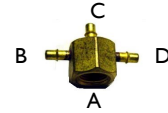


Female 45°	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	8B	O	CG
1/16 NPT	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-
1/8 NPT	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-
1/4 NPT	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-
3/8 NPT	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-



FAT

Brass female adapter tee. Any different Barb sizes can be placed on any hex. Order Example: **FAT-2F2B**



Female Adapter Tee	1B	564B	2B	170B	6B
1/8	X	X	X	X	X
1/4	X	X	X	X	X



FAE

Brass female adapter elbow. Order Example: **FAE-4F3B**



Female Adapter Elbow	1B	564B	332B	2B	170B	3B	4B
1/8	X	X	X	X	X	X	-
1/4	X	X	X	X	X	X	X

HLB

Hexless Barb series.



- HLB-16 10-32 by 1/16 Hexless Barb
- HLB-18 10-32 BY 1/8 Hexless Barb
- HLB-170 10-32 by 170 Hexless Barb



End Threads available in any configuration

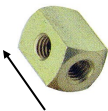
Solder barbs for manifold applications.



Hex Nipples
1/16 NPT to 3/8 NPT with any solder Barb

- BI-1B Brass Insert 1/16
- BI-78B Brass Insert .078
- BI-332B Brass Insert 3/32
- BI-2B Brass Insert 1/8
- BI-532B Brass Insert 5/32
- BI-3B Brass Insert 3/16
- BI-4B Brass Insert 1/4
- BI-5B Brass Insert 5/16
- BI-6B Brass Insert 3/8

- MHN-2M1032M 1/8 Male by 10-32 Male Adapter
- MHN-1032 10-32 by 10-32 NP optional
- MHN-1428 1/4-28 by 1/4-28
- MHN-1MM M1 by M1
- MHN-2MM M2 by M2
- MHN-3MM M3 by M3
- MHN-5MM M5 by M5
- MHN-6MM M6 by M6
- MHN-8MM M8 by M8



- CMFE 10-32 bottom by 10-32 One Side
- CMFT 10-32 bottom by 10-32 Two Sides
- CMFT14 1/4-28 bottom by 1/4-28 Two Sides
- CMFX 10-32 bottom by 10-32 Two Sides and Top

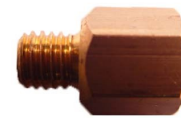


- CMMFE10 10-32 M by 10-32 F One Side
- CMMFT10 10-32 M by 10-32 F Two Sides
- CMMFX10 10-32 M by F Two Sides and End
- CMMFEA10 10-32 M by F One Side and the End
- CMMFT14 1/4-28 M by 1/4-28 F Two Sides



FAM

Brass female to male adapter. 10-32 is available in different lengths. Order Example: **FAM-2M4F**



Female Adapter to Male	10-32	1/4-28	1/16	1/8	1/4	M3	M5	M6	M8
10-32	-	-	X	X	X	-	-	-	-
1/16	-	-	-	X	X	-	-	-	-
1/8	-	-	-	-	X	-	-	-	-
1/4	-	-	-	X	X	X	X	X	-
M3	X	X	X	X	X	X	X	X	X
M5	X	X	X	X	X	X	X	X	-
M6	X	X	X	-	X	X	X	X	X
M8	X	-	X	-	X	X	-	-	-
1/8 BSPT	X	-	-	-	X	X	-	-	-
1/4 BSPT	X	-	-	-	X	-	-	-	-



MBFC
Female to female brass adapter. Order Example : **MBFC-1428-4F**

Female to Female	3-56	6-32	10-32	1/4-28	1/16 NPT	1/8	1/4	M3	M5	M6	M8
3-56	-	-	X	-	-	X	X	-	-	-	-
4-20	-	-	-	-	-	-	-	-	-	-	-
6-32	-	-	-	-	-	X	X	-	-	-	-
10-32	-	-	X	X	X	X	X	X	X	X	X
1/4-28	X	X	X	X	X	X	X	X	X	X	X
1/8 NPT	X	X	X	X	X	X	X	X	X	X	X
1/4 NPT	X	X	X	X	X	X	X	X	X	X	X
M3	-	-	-	-	-	-	-	X	X	X	X
M5	-	-	X	X	X	X	X	X	X	X	X



MRB
Brass reducer Bushings. 10-32 available in different lengths.
Order Example: **MRB-14M10F**



**Male to Female
Adapters with Barbs**

Male to Female	3-56	6-32	8-32	10-32	1/4-28	5/16-28	3/8-24	1/16	1/8	1/4	M3	M5	M6	M8
1/4-28	X	X	X	X	-	-	-	-	-	-	-	-	-	-
1/16	X	X	X	X	X	-	-	-	-	-	-	-	-	-
1/8	X	X	X	X	X	-	-	X	-	-	-	-	-	-
1/4	X	X	X	X	X	X	X	X	-	-	-	-	-	-
M5	-	-	-	-	-	-	-	-	-	-	X	-	-	-
M6	-	-	-	-	-	-	-	-	-	-	X	-	-	-
M8	-	-	-	X	-	-	-	-	-	-	X	X	-	-



MEF and FEF
Brass male and female elbow to female adapters.
Order Example: **MEF-1428X1M or FEF-1428X1M**



45° AVAILABLE

Male to Female 90°	10-32	1/4-28	1/16 NPT	1/8	1/4	M3	M5	M6	M8
10-32	-	X	X	X	X	X	X	X	X
1/4-28	X	-	X	X	X	X	X	X	X
1/16 NPT	X	X	X	X	X	X	X	X	X
1/8 NPT	X	X	X	X	X	X	X	X	X
1/4 NPT	X	X	X	X	X	X	X	X	X
M3	X	X	X	X	X	X	X	X	X
M5	X	X	X	X	X	X	X	X	X
M6	X	X	X	X	X	X	X	X	X
M8	X	X	X	X	X	X	X	X	X

NSE and NST

Swivels can rotate into the desired position after tightening. Fiber gasket. Order Example: **NSE-10M532B** and **NST-14M564B**



Swivel Elbow	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
10-32	-	-	X	X	X	X	X	X	X	X	X	-	-	X	X
12-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-28	-	-	X	X	X	X	X	X	X	X	X	-	-	X	-
5/16-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/8 NPT	-	-	X	X	X	X	X	X	X	X	X	-	-	-	-



Swivel Tees	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
10-32	-	-	X	X	X	X	X	X	X	X	X	-	-	X	X
12-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-28	-	-	X	X	X	X	X	X	X	X	X	-	-	X	-
5/16-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/8 NPT	-	-	X	X	X	X	X	X	X	X	X	-	-	-	-

NAE and NAT

Adjustable fittings with bite style Barb. Order Example: **NAE-14M3B** and **NAT-14M1B**



Gaskets and O-Rings
For 10-32 threads or 1/4-28 threads Nylon, Fiber, Brass and Stainless Gaskets. Buna and EPDM O-rings.

Adjustable	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
10-32	-	X	X	X	X	X	X	-	-	-	-	-	-	-	-
12-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-28	-	X	X	X	X	X	X	X	X	X	X	-	-	-	X
5/16-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3	-	X	X	X	X	X	X	X	-	-	-	-	-	-	X
M4	-	-	X	X	X	X	X	X	X	X	X	-	-	-	X
M5	-	X	X	X	X	X	X	X	X	X	-	-	-	-	X

Adjustable Tees	164B	364B	1B	564B	332B	2B	532B	170B	3B	732B	4B	5B	6B	O	CG
10-32	-	X	X	X	X	X	X	X	X	X	X	-	-	-	X
12-32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4-28	-	-	X	X	X	X	X	X	-	-	-	-	-	-	X
5/16-24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M3	-	X	X	X	X	X	X	X	-	-	-	-	-	-	X
M4	-	X	X	X	X	X	X	X	X	X	X	-	-	-	X
M5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ADAPTERS—STAINLESS STEEL

LST

Connectors made of 316 stainless steel.



LST-2B	1/8
LST-532B	5/32
LST-3B	3/16
LST-4B	1/4
LST-5B	5/16
LST-6B	3/8
LST-8B	1/2
LST-10B	5/8
LST-12B	3/4
LSTR-2B532B	1/8-5/32
LSTR-3B5B	3/8-5/16
LSTR-8B5B	1/2-5/16
LSTR-10B5B	5/8-5/16
LSTR-10B6B	5/8-3/8

LS-EW

Connectors made of 316 stainless steel.



LSEW-2B	1/8
LSEW-532B	5/32
LSEW-3B	3/16
LSEW-4B	1/4
LSEW-5B	5/16
LSEW-6B	3/8
LSEW-8B	1/2
LSEW-10B	5/8
LSEW-12B	3/4

LS-C

Connectors made of 316 stainless steel.



LSC-2B	1/8
LSC-532B	5/32
LSC-3B	3/16
LSC-4B	1/4
LSC-5B	5/16
LSC-6B	3/8
LSC-8B	1/2
LSC-10B	5/8
LSC-12B	3/4

LS-Y

Connectors made of 316 stainless steel.



LSY-532B	5/32
LSY-3B	3/16
LSY-5B	5/16
LSY-6B	3/8

LS-CR

Connectors made of 316 stainless steel.



LSCR2B332B	1/8-3/32
LSCR-532B332B	5/32-3/32
LSCR-4B2B	1/4-1/8
LSCR-4B532B	1/4-5/32
LSCR-4B3B	1/4-3/16
LSCR-5B4B	5/16-1/4
LSCR-8B4B	1/2-1/4
LSCR-12B8B	3/4-1/2

SKB

316 stainless steel adapters.



SKB-2M2B	1/8 M by 1/8 Barb	
SKB-2M3B	1/8 M by 3/16 Barb	
SKB-4M3B	1/4 M by 3/16 Barb	
SKB-2M4B	1/8 M by 1/4 Barb	BSPT
SKB-4M4B	1/4 M by 1/4 Barb	BSPT
SKB-6M4B	3/8 M by 1/4 Barb	
SKB-2M5B	1/8 M by 5/16 Barb	
SKB-4M5B	1/4 M by 5/16 Barb	
SKB-6M5B	3/8 M by 5/16 Barb	
SKB-2M6B	1/8 M by 3/8 Barb	
SKB-4M6B	1/4 M by 3/8 Barb	BSPT
SKB-6M6B	3/8 M by 3/8 Barb	BSPT
SKB-8M6B	1/2 M by 3/8 Barb	BSPT
SKB-4M8B	1/4 M by 1/2 Barb	
SKB-6M8B	3/8 M by 1/2 Barb	BSPT
SKB-8M8B	1/2 M by 1/2 Barb	BSPT
SKB-12M8B	3/4 M by 1/2 Barb	
SKB-6M10B	3/8 M by 5/8 Barb	
SKB-8M10B	1/2 M by 5/8 Barb	
SKB-12M10B	3/4 M by 5/8 Barb	
SKB-8M12BARB	1/2 M by 3/4 Barb	BSPT
SKB-12M12BARB	3/4 M by 3/4 Barb	

**BSPT
AVAILABLE**

SCHB

316 stainless steel NPTF threaded adapters.



SCHB-4M2B	1/4 M by 1/8 Barb
SCHB-4M4B	1/4 M by 1/4 Barb
SCHB-4M6B	1/4 M by 3/8 Barb
SCHB-6M2B	3/8 M by 1/8 Barb
SCHB-6M4B	3/8 M by 1/4 Barb
SCHB-6M6B	3/8 M by 3/8 Barb
SCHB-6M8B	3/8 M by 1/2 Barb
SCHB-8M8B	1/2 M by 1/2 Barb
SCHB-8M12B	1/2 M by 3/4 Barb

SKHB

Machined 304 and 316 stainless equal adapters.



SKHB-4M4B	1/4 M by 1/4 Barb
SKHB-6M6B	3/8 M by 3/8 Barb
SKHB-8M8B	1/2 M by 1/2 Barb
SKHB-12M12B	3/4 M by 3/4 Barb
SKHB-16M16B	1 M by 1 Barb
SKHB-20M20B	1-1/4 by 1-1/4 Barb
SKHB-24M24B	1-1/2 by 1-1/2 Barb
SKHB-32M32B	2 by 2 Barb
SKHB-40M40B	2-1/2 by 2-1/2 Barb
SKHB-48M48B	3 by 3 Barb
SKHB-64M64B	4 by 4 Barb

SSES

Stainless Steel Elbow by Barb.



SSES-4B4B	1/4 Barb by 1/4 Barb
SSES-6B6B	3/8 Barb by 3/8 Barb

SBHE

Stainless Steel Elbow Thread by Barb



SBHE-4M2B	1/4 M by 1/8 Barb
SBHE-4M4B	1/4 M by 1/4 Barb
SBHE-6M4B	3/8 M by 1/4 Barb
SBHE-6M6B	3/8 M by 3/8 Barb
SBHE-8M8B	1/2 M by 1/2 Barb

SSBM

Stainless Steel Hose Splicer Straight by Barb.



SSBM-4B4B	1/4 Barb by 1/4 Barb
SSBM-6B6B	3/8 Barb by 3/8 Barb
SSBM-6B4B	3/8 Barb by 1/4 Barb

HNS

304 or 316 stainless hex nipples.



HNS-2M	1/8
HNS-4M	1/4
HNS-6M	3/8
HNS-8M	1/2
HNS-12M	3/4
HNS-16M	1 inch
HNS-20M	1-1/4
HNS-24M	1-1/2 inch
HNS-32M	2 inch

SSBT

Stainless Steel Hose Tee by Barb



SSBT-4B	1/4 by 1/4 by 1/4 Barb
SSBT-6B	3/8 by 3/8 by 3/8 Barb

Stainless steel fittings of 304 or 316 material.



SSRC-4-2	1/4 by 1/8 Reducer		SSRC-16	1 Coupler
SSRC-6-2	3/8 by 1/8 Reducer	NA 316	SSRC-20-12	1- 1/4BY 3/4 Reducer
SSRC-6-4	3/8 by 1/4 Reducer		SSRC-20-16	1-1/4 by 1 Reducer
SSRC-8-2	1/2 by 1/8 Reducer	NA 316	SSRC-20	1-1/4 Coupler
SSRC-8-4	1/2 by 1/4 Reducer		SSRC-24-8	1-1/2 by 1/2 Reducer
SSRC-8-6	1/2 by 3/8 Reducer		SSRC-24-12	1-1/2 by 3/4 Reducer
SSRC-8	1/2 Coupler		SSRC-24-16	1-1/2 by 1 Reducer
SSRC-12-2	3/4 by 1/8 Reducer	NA 316	SSRC-24-20	1-1/2 by 1-1/4 Reducer
SSRC-12-4	3/4 by 1/4 Reducer		SSRC-24	1-1/2 Coupler
SSRC-12-6	3/4 by 3/8 Reducer		SSRC-32-16	2 by 1 Reducer
SSRC-12-8	3/4 by 1/2 Reducer		SSRC-32-20	2 by 1-1/4 Reducer
SSRC-12	3/4 Coupler		SSRC-32-24	2 by 1-1/2 Reducer
SSRC-16-6	1 by 3/8 Reducer	NA 316	SSRC--32	2 Coupler
SSRC-16-8	1 by 1/2 Reducer			
SSRC-16-12	1 by 3/4 Reducer			



SSTE-2F	1/8 F/M Elbow
SSTE-4F	1/4 F/M Elbow
SSTE-6F	3/8 F/M Elbow
SSTE-8F	1/2 F/M Elbow
SSTE-12F	3/4 F/M Elbow
SSTE-16F	1 F/M Elbow
SSTE-20F	1-1/4 F/M Elbow
SSTE-24F	1-1/2 F/M Elbow
SSTE-32F	2 F/M Elbow



SBE-2F	1/8 Female Elbow	
SBE-4F	1/4 Female Elbow	
SBE-6F	3/8 Female Elbow	
SBE-8F	1/2 Female Elbow	
SBE-12F	3/4 Female Elbow	
SBE-16F	1 Female Elbow	
SBE-20F	1-1/4 Female Elbow	
SBE-24F	1-1/2 Female Elbow	
SBE-32F	2 Female Elbow	
SBE-40F	2 1/2 Female Elbow	NA 316
SBE-48F	3 Female Elbow	NA 316
SBE-64F	4 Female Elbow	NA 316

303 Stainless



SQSTE-1818	1/8 M 1/8 F
SQSTE-1814	1/8 M 1/4 F
SQSTE-1418	1/4 M 1/8 F
SQSTE-1414	1/4 M 1/4 F
SQSTE-3814	3/8 M 1/4 F
SQSTE-3838	3/8 M 3/8 F
SQSTE-1238	1/2 M 3/8 F
SQSTE-1212	1/2 M 1/2 F
SQSTE-3434	3/4 M 3/4 F



MTS-2M	1/8 Male Tee
MTS-4M	1/4 Male Tee
MTS-6M	3/8 Male Tee
MTS-8M	1/2 Male Tee
MTS-12M	3/4 Male Tee
MTS-16M	1 Male Tee
MTS-20M	1-1/4 Male Tee
MTS-24M	1-1/2 Male Tee



SBE45-2F	1/8 Female 45
SBE45-4F	1/4 Female 45
SBE45-6F	3/8 Female 45
SBE45-8F	1/2 Female 45
SBE45-12F	3/4 Female 45
SBE45-16F	1 Female 45
SBE45-20F	1-1/4 Female 45
SBE45-24F	1-1/2 Female 45
SBE45-32F	2 Female 45



304 and 316

SSFX-2	1/8 Union
SSFX-4	1/4 Union
SSFX-6	3/8 Union
SSFX-8	1/2 Union
SSFX-12	3/4 Union
SSFX-16	1 Union
SSFX-20	1-1/4 Union
SSFX-24	1-1/2 Union
SSFX-32	2 Union

Reducers 304 and 316



RBSS-4M2F	1/4 M by 1/8 F	
RBSS-6M2F	3/8 M by 1/8 F	NA 304
RBSS-6M4F	3/8 M by 1/4 F	
RBSS-8M2F	1/2 M by 1/8 F	NA 316
RBSS-8M4F	1/2 M by 1/4 F	
RBSS-8M6F	1/2 M by 3/8 F	
RBSS-12M4F	3/4 M by 1/4 F	NA 304
RBSS-12M8F	3/4 M by 1/2 F	
RBSS-16M8F	1 M by 1/2 F	
RBSS-16M12F	1 M by 3/4 F	
RBSS-20M8F	1-1/4 M by 1/2 F	
RBSS-20M12F	1-1/4 M by 3/4 F	
RBSS-20M16F	1-1/4 M by 1 F	
RBSS-24M8F	1-1/2 M by 1/2 F	
RBSS-24M12F	1-1/2 M by 3/4 F	
RBSS-24M16F	1-1/2 M by 1 F	
RBSS-24M20F	1-1/2 M by 1-1/4 F	
RBSS-32M8F	2 M by 1/2 F	NA 316
RBSS-32M12F	2 M by 3/4 F	
RBSS-32M16F	2 M by 1 F	
RBSS-32M20F	2 M by 1-1/4 F	
RBSS-32M24F	2 M by 1-1/2 F	
RBSS-40M24F	2-1/2 M by 1-1/2 F	
RBSS-40M32F	2-1/2 M by 2 F	
RBSS-48M32F	3 M by 2 F	
RBSS-48M40F	3 M by 2-1/2 F	NA 316
RBSS-64M48F	4 M by 3 F	NA 316

Adapters and Expanders 316 SS



SAE-2M2F	1/8 M by 1/8 F
SAE2M4F	1/8 M by 1/4 F
SAE-2M6F	1/8 M by 3/8 F
SAE-2M8F	1/8 M by 1/2 F
SAE-4M4F	1/4 M by 1/4 F
SAE-4M6F	1/4 M by 3/8 F
SAE-4M8F	1/4 M by 1/2 F
SAE-4M12F	1/4 M by 3/4 F
SAE-6M6F	3/8 M by 3/8 F
SAE-6M8F	3/8 M by 1/2 F
SAE-6M12F	3/8 M by 3/4 F
SAE-8M8F	1/2 M by 1/2 F
SAE-8M12F	1/2 M by 3/4 F
SAE-8M16F	1/2 M by 1 F
SAE-12M12F	3/4 M by 3/4 F
SAE-12M16F	3/4 M by 1 F
SAE-12M20F	3/4 M by 1-1/4 F
SAE-16M16F	1 M by 1 F
SAE-16M20F	1 M by 1-1/4 F
SAE-20M20F	1-1/4 M by 1-1/4 F
SAE-20M24F	1-1/4 M by 1-1/2 F
SAE-20M32F	1-1/4 M by 2 F
SAE-24M24F	1-1/2 M by 1-1/2 F
SAE-24M32F	1-1/2 M by 2 F
SAE-32M32F	2 M by 2 F

304 and 316



SSCX-2F	1/8 Female Cross
SSCX-4F	1/4 Female Cross
SSCX-6F	3/8 Female Cross
SSCX-8F	1/2 Female Cross
SSCX-12F	3/4 Female Cross
SSCX-16F	1 Female Cross
SSCX-20F	1-1/4 Female Cross
SSCX-24F	1-1/2 Female Cross
SSCX-32F	2 Female Cross

304 and 316



SST-2F	1/8 Female Tee
SST-4F	1/4 Female Tee
SST-6F	3/8 Female Tee
SST-8F	1/2 Female Tee
SST-12F	3/4 Female Tee
SST-16F	1 IN. Female Tee
SST-20F	1-1/4 Female Tee
SST-24F	1-1/2 Female Tee
SST-32F	2 IN. Female Tee
SST-48F	3 IN. Female Tee
	NA 316

316 SS Only

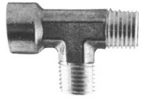
MBTSS-2F2M	1/8 F 1/8 F 1/8 M
MBTSS-4F4M	1/4 F 1/4 F 1/4 M
MBTSS-6F6M	3/8 F 3/8 F 3/8 M
MBTSS-8F8M	1/2 F 1/2 F 1/2 M
MBTSS-12F12M	3/4 F 3/4 F 3/4 M
MBTSS-16F16M	1 F 1 F 1 M

316 SS Only



FBTSS-2M2F	1/8 M 1/8 M 1/8 F
FBTSS-4M4F	1/4 M 1/4 M 1/4 F
FBTSS-6M6F	3/8 M 3/8 M 3/8 F
FBTSS-8M8F	1/2 M 1/2 M 1/2 F
FBTSS-12M12F	3/4 M 3/4 M 3/4 F
FBTSS-16M16F	1 M 1 M 1 F

316 SS Only



FTRSS-2F2M	1/8 F 1/8 M 1/8 M
FTRSS-4F4M	1/4 F 1/4 M 1/4 M
FTRSS-6F6M	3/8 F 3/8 M 3/8 M
FTRSS-8F8M	1/2 F 1/2 M 1/2 M
FTRSS-12F12M	3/4 F 3/4 M 3/4 M
FTRSS-16F16M	1 F 1 M 1 M

316 SS Only



MTRSS-2M2F	1/8 M 1/8 F 1/8 F
MTRSS-4M4F	1/4 M 1/4 F 1/4 F
MTRSS-6M6F	3/8 M 3/8 F 3/8 F
MTRSS-8M8F	1/2 M 1/2 F 1/2 F
MTRSS-12M12F	3/4 M 3/4 F 3/4 F
MTRSS-16M16F	1 M 1 F 1 F
MTRSS-20M20F	1-1/4 M 1-1/4 F 1-1/4 F

304 or 316 SS



HCSS-2M	1/8 Socket Plug
HCSS-4M	1/4 Socket Plug
HCSS-6M	3/8 Socket Plug
HCSS-8M	1/2 Socket Plug
HCSS-12M	3/4 Socket Plug

304 or 316 SS



HPSS-2M	1/8 Male Plug
HPSS-4M	1/4 Male Plug
HPSS-6M	3/8 Male Plug
HPSS-8M	1/2 Male Plug
HPSS-12M	3/4 Male Plug
HPSS-16M	1 Male Plug
HPSS-20M	1-1/4 Male Plug
HPSS-24M	1-1/2 Male Plug
HPSS-32M	2 Male Plug
HPSS-48M	3 Male Plug NA 316



SCSS-2F	1/8 Female Cap	
SCSS-4F	1/4 Female Cap	
SCSS-6F	3/8 Female Cap	
SCSS-8F	1/2 Female Cap	
SCSS-12F	3/4 Female Cap	
SCSS-16F	1 Female Cap	
SCSS-20F	1-1/4 Female Cap	
SCSS-24F	1-1/2 Female Cap	
SCSS-32F	2 Female Cap	
SCSS-48F	3 Female Cap	NA 316













SQSS-2M	1/8 Male Plug Square
SQSS-4M	1/4 Male Plug Square
SQSS-6M	3/8 Male Plug Square
SQSS-8M	1/2 Male Plug Square
SQSS-12M	3/4 Male Plug Square
SQSS-16M	1 Male Plug Square
SQSS-20M	1-1/4 Male Plug Square
SQSS-24M	1-1/2 Male Plug Square
SQSS-32M	2 Male Plug Square
SQSS-48M	3 Male Plug Square NA 316

COMPRESSION FITTINGS—PLASTIC

Compression Fittings (plastic)

Plastic compression fittings molded of Glass-filled White Polypropylene (NSF). POM for use with hot water applications (FDA and NSF.) Nylon (FDA and NSF), and PVDF (FDA, NSF, and UV resistant). Provided with poly gripper for use up to 220 psi. 1/8 units do not have poly gripper.

<p>CA Series Plastic compression OD by MNPT</p>  <table style="width: 100%; border-collapse: collapse;"> <tr><td>CA-1818-PG</td><td>1/8 by 1/8</td></tr> <tr><td>CA-1814-PG</td><td>1/8 by 1/4</td></tr> <tr><td>CA-1838-PG</td><td>3/8 by 1/8</td></tr> <tr><td>CA-1812-PG</td><td>1/2 by 1/8</td></tr> <tr><td>CA-1414-PG</td><td>1/4 by 1/4</td></tr> <tr><td>CA-14516-PG</td><td>5/16 by 1/4</td></tr> <tr><td>CA-1438-PG</td><td>3/8 by 1/4</td></tr> <tr><td>CA-1412-PG</td><td>1/2 by 1/4</td></tr> <tr><td>CA-3814-PG</td><td>1/4 by 3/8</td></tr> <tr><td>CA-38516-PG</td><td>5/16 by 3/8</td></tr> <tr><td>CA-3838-PG</td><td>3/8 by 3/8</td></tr> <tr><td>CA-3812-PG</td><td>1/2 by 3/8</td></tr> <tr><td>CA-3858-PG</td><td>5/8 by 3/8</td></tr> <tr><td>CA-1238-PG</td><td>3/8 by 1/2</td></tr> <tr><td>CA-1212-PG</td><td>1/2 by 1/2</td></tr> <tr><td>CA-1258-PG</td><td>5/8 by 1/2</td></tr> <tr><td>CA-1234-PG</td><td>3/4 by 1/2</td></tr> <tr><td>CA-3434-PG</td><td>3/4 by 3/4</td></tr> <tr><td>CA-3478-PG</td><td>7/8 by 3/4</td></tr> </table>	CA-1818-PG	1/8 by 1/8	CA-1814-PG	1/8 by 1/4	CA-1838-PG	3/8 by 1/8	CA-1812-PG	1/2 by 1/8	CA-1414-PG	1/4 by 1/4	CA-14516-PG	5/16 by 1/4	CA-1438-PG	3/8 by 1/4	CA-1412-PG	1/2 by 1/4	CA-3814-PG	1/4 by 3/8	CA-38516-PG	5/16 by 3/8	CA-3838-PG	3/8 by 3/8	CA-3812-PG	1/2 by 3/8	CA-3858-PG	5/8 by 3/8	CA-1238-PG	3/8 by 1/2	CA-1212-PG	1/2 by 1/2	CA-1258-PG	5/8 by 1/2	CA-1234-PG	3/4 by 1/2	CA-3434-PG	3/4 by 3/4	CA-3478-PG	7/8 by 3/4	<p>CC Series Plastic compression OD by OD (RC=Reducing Coupling)</p>  <table style="width: 100%; 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PFA compression fittings with gripper ring up to 3/4 of an inch. Optional units with integral ferrule available. Larger sizes available up to 1 NPT and 1 OD. Metric sizes available in ferrule units.



TGU-2	1/8 OD Connector
TGU-4	1/4 OD Connector
TGU-6	3/8 OD Connector
TGU-8	1/2 OD Connector
TGU-12	3/4 OD Connector
TGU-4-2	1/4 OD by 1/8 Connector
TGU-6-4	3/8 OD by 1/4 Connector
TGU-8-4	1/2 OD by 1/4 Connector
TGU-8-6	1/2 OD by 3/8 Connector
TGU-12-8	3/4 OD by 1/2 Connector



TGT-4	1/4 OD Tee
TGT-6	3/8 OD Tee
TGT-8	1/2 OD Tee
TGT-12	3/4 OD Tee
TGT-6-4	3/8 by 1/4 Leg
TGT-8-6	1/2 by 3/8 Leg
TGT-8-4	1/2 by 1/4 Leg



TGE-2	1/8 OD Elbow
TGE-4	1/4 OD Elbow
TGE-6	3/8 OD Elbow
TGE-8	1/2 OD Elbow
TGE-12	3/4 OD Elbow
TGE-4-2	1/4 by 1/8 Elbow
TGE-6-4	3/8 by 1/4 Elbow
TGE-8-4	1/2 by 1/4 Elbow
TGE-8-6	1/2 by 3/8 Elbow
TGE-12-8	3/4 by 1/2 Elbow

TGA

PFA MNPT by compression.



TGA-2M-2	1/8 MNPT by 1/8 OD
TGA-2M-4	1/8 MNPT by 1/4 OD
TGA-2M-6	1/8 MNPT by 3/8 OD
TGA-4M-2	1/4 MNPT by 1/8 OD
TGA-4M-4	1/4 MNPT by 1/4 OD
TGA-4M-6	1/4 MNPT by 3/8 OD
TGA-4M-8	1/4 MNPT by 1/2 OD
TGA-6M-4	3/8 MNPT by 1/4 OD
TGA-6M-6	3/8 MNPT by 3/8 OD
TGA-6M-8	3/8 MNPT by 1/2 OD
TGA-8M-4	1/2 MNPT by 1/4 OD
TGA-8M-6	1/2 MNPT by 3/8 OD
TGA-8M-8	1/2 MNPT by 1/2 OD
TGA-8M-12	1/2 MNPT by 3/4 OD
TGA-12M-8	3/4 MNPT by 1/2 OD
TGA-12M-12	3/4 MNPT by 3/4 OD

I AVAILABLE on REQUEST



TGF-2F-2	1/8 FNPT by 1/8 OD
TGF-2F-4	1/8 FNPT by 1/4 OD
TGF-4F-2	1/4 FNPT by 1/8 OD
TGF-4F-4	1/4 FNPT by 1/4 OD
TGF-4F-6	1/4 FNPT by 3/8 OD
TGF-4F-8	1/4 FNPT by 1/2 OD
TGF-6F-4	3/8 FNPT by 1/4 OD
TGF-6F-6	3/8 FNPT by 3/8 OD
TGF-6F-8	3/8 FNPT by 1/2 OD
TGF-8F-4	1/2 FNPT by 1/4 OD
TGF-8F-6	1/2 FNPT by 3/8 OD
TGF-8F-8	1/2 FNPT by 1/2 OD
TGF-8F-12	1/2 FNPT by 3/4 OD
TGF-12F-8	3/4 FNPT by 1/2 OD
TGF-12F-12	3/4 FNPT by 3/4 OD

PFA Adapters AVAILABLE

TGAE Series

PFA Compression Bulkheads NPT by OD



TGAE-2M-2	1/8 NPT by 1/8 OD
TGAE-2M-4	1/8 NPT by 1/4 OD
TGAE-2M-6	1/8 NPT by 3/8 OD
TGAE-4M-2	1/4 NPT by 1/8 OD
TGAE-4M-4	1/4 NPT by 1/4 OD
TGAE-4M-6	1/4 NPT by 3/8 OD
TGAE-4M-8	1/4 NPT by 1/2 OD
TGAE-6M-4	3/8 NPT by 1/4 OD
TGAE-6M-6	3/8 NPT by 3/8 OD
TGAE-6M-8	3/8 NPT by 1/2 OD
TGAE-8M-4	1/2 NPT by 1/4 OD
TGAE-8M-6	1/2 NPT by 3/8 OD
TGAE-8M-8	1/2 NPT by 1/2 OD
TGAE-8M-12	1/2 NPT by 3/4 OD
TGAE-12M-12	3/4 NPT by 3/4 OD

TGFE Series

PFA Compression Bulkheads FNPT by OD



TGFE-2F-2	1/8 FNPT by 1/8 OD
TGFE-2F-4	1/8 FNPT by 1/4 OD
TGFE-4F-2	1/4 FNPT by 1/8 OD
TGFE-4F-4	1/4 FNPT by 1/4 OD
TGFE-4F-6	1/4 FNPT by 3/8 OD
TGFE-4F-8	1/4 FNPT by 1/2 OD
TGFE-6F-6	3/8 FNPT by 3/8 OD
TGFE-8F-4	1/2 FNPT by 1/4 OD
TGFE-8F-6	1/2 FNPT by 3/8 OD
TGFE-8F-8	1/2 FNPT by 1/2 OD
TGFE-12F-12	3/4 FNPT by 3/4 OD

TGAT Series

PFA Compression Bulkheads NPT by OD



TGAT-2M-2	1/8 NPT by 1/8 OD
TGAT-2M-4	1/8 NPT by 1/4 OD
TGAT-2M-6	1/8 NPT by 3/8 OD
TGAT-4M-2	1/4 NPT by 1/8 OD
TGAT-4M-4	1/4 NPT by 1/4 OD
TGAT-4M-6	1/4 NPT by 3/8 OD
TGAT-4M-8	1/4 NPT by 1/2 OD
TGAT-6M-4	3/8 NPT by 1/4 OD
TGAT-6M-6	3/8 NPT by 3/8 OD
TGAT-6M-8	3/8 NPT by 1/2 OD
TGAT-8M-6	1/2 NPT by 3/8 OD
TGAT-8M-8	1/2 NPT by 1/2 OD
TGAT-12M-12	3/4 NPT by 3/4 OD

TGMR Series

PFA Compression Bulkheads FNPT by OD



TGMR-2M-2	1/8 NPT by 1/8 OD
TGMR-2M-4	1/8 NPT by 1/4 OD
TGMR-4M-2	1/4 NPT by 1/8 OD
TGMR-4M-4	1/4 NPT by 1/4 OD
TGMR-4M-6	1/4 NPT by 3/8 OD
TGMR-4M-8	1/4 NPT by 1/2 OD
TGMR-6M-4	3/8 NPT by 1/4 OD
TGMR-6M-6	3/8 NPT by 3/8 OD
TGMR-8M-6	1/2 NPT by 3/8 OD
TGMR-8M-8	1/2 NPT by 1/2 OD
TGMR-12M-12	3/4 NPT by 3/4 OD

TGB Series

PFA Compression Bulkheads



TGB-2	1/8
TGB-4	1/4
TGB-6	3/8
TGB-8	1/2
TGB-12	3/4
TGB-4-2	1/4 by 1/8
TGB-6-4	3/8 by 1/4
TGB-8-4	1/2 by 1/4
TGB-12-8	3/4 by 1/2

TGBE Series

PFA Compression Bulkheads Elbows



TGBE-2	1/8 by 1/8
TGBE-4	1/4 by 1/4
TGBE-6	3/8 by 3/8
TGBE-8	1/2 by 1/2
TGBE-12	3/4 by 3/4
TGBE-4-2	1/4 by 1/8
TGBE-6-4	3/8 by 1/4
TGBE-8-4	1/2 by 1/4

TGBP Series

PFA Compression Bulkheads NPT by OD



TGBP-4M4	1/4 by 1/4
TGBP-6M6	3/8 by 3/8
TGBP-8M8	1/2 by 1/2
TGBP-12M12	3/4 by 3/4

PUSH-TO-CONNECT FITTINGS

Plastic push-in connectors made of PBT (Polybutylene terephthalate) Male threads, female threads, wye, and elbow stems are made of nickel plated brass. Stem connectors and stem reducers are made of PBT. Working pressure is Vacuum to 150 psi for air using polyurethane, Polyethylene, or Nylon tubing. All Connectors are also available in Nickel Plate.

Thread chart for PBT fittings	
10U	10-32 Male UNF
1M	1/16 NPT
2M	1/8 NPT
4M	1/4 NPT
6M	3/8 NPT
8M	1/2 NPT
10UF	10-32 Female UNF
2F	1/8 FNPT
4F	1/4 FNPT
6F	3/8 FNPT
8F	1/2 FNPT
METRIC AVAILABLE	

Tube chart for PBT fittings	
18	1/8 OD
532	5/32 OD
316	3/16 OD
14	1/4 OD
516	5/16 OD
38	3/8 OD
12	1/2 OD
58	5/8 OD
34	3/4 OD

Male

Female






**Push-ins AVAILABLE
IN Brass, NICKEL-
PLATE, and Nylon.**

PAM-10U18P PAM-10U532P PAM-10U316P PAM-10U14P PAM-1M18P PAM-1M532P PAM-1M14P PAM-2M18P PAM-2M532P PAM-2M316P PAM-2M14P PAM-2M516P PAM-2M38P PAM-8M12	PAM-2M12P PAM-4M18P PAM-4M532P PAM-4M316P PAM-4M14P PAM-4M516P PAM-6M316 PAM-6M14 PAM-6M516 PAM-6M38 PAM-6M12 PAM-8M38
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PFC-10UF18P
PFC-10UF532P
PFC-10UF14P
PFC-2F18P
PFC-2F532P
PFC-2F316P
PFC-2F14P
PFC-2F516P
PFC-2F38P
PFC-2F12P
PFC-4F18P
PFC-4F532P
PFC-4F316P
PFC-4F14P
PFC-4F516P
PFC-6F316
PFC-6F516
PFC-6F38
PFC-6F12

Male Swivel Elbows


PEM-10U18P PEM-10U532P PEM-10U316P PEM-10U14P PEM-1M18P PEM-1M532P PEM-1M14P PEM-2M18P PEM-2M532P PEM-2M316P	PEM-2M14P PEM-2M516P PEM-2M38P PEM-4M18P PEM-4M532P PEM-4M316P PEM-4M14P PEM-4M516P PEM-6M316 PEM-6M14 PEM-6M516 PEM-6M38
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Female Elbow




PEFC10U18P
PEFC-10U532P
PEFC-10U316P
PEFC-10U14P
PEFC-2F18P
PEFC-2F532P
PEFC-2F316P
PEFC-2F14P
PEFC-2F516P
PEFC-2F38P
PEFC-4F18P
PEFC-4F532P
PEFC-4F316P
PEFC-4F14P
PEFC-4F516P
PEFC-6F316P
PEFC-6F14P
PEFC-6F516P
PEFC-6F38P
PEFC-6F12P
PEFC-8F38P
PEFC-8F12P

Male Run



PEMR-10U18P	PEMR-2M38P
PEMR-10U532P	PEMR-2M12P
PEMR-10U316P	PEMR-4M18P
PEMR-10U14P	PEMR-4M532P
PEMR-1M18P	PEMR-4M316P
PEMR-1M532P	PEMR-4M14P
PEMR-1M14P	PEMR-4M516P
PEMR-2M18P	PEMR-6M316P
PEMR-2M532P	PEMR-6M14P
PEMR-2M316P	PEMR-6M516P
PEMR-2M14P	PEMR-6M38P
	PEMR-6M12P
	PEMR-8M38P
	PEMR-8M12P

Male 45



PEM45-10U18P
PEM45-10U532P
PEM45-10U316P
PEM45-10U14P
PEM45-2M18P
PEM45-2M532P
PEM45-2M316P
PEM45-2M14P
PEM45-2M516P
PEM45-2M38P
PEM45-4M14P
PEM45-4M516P
PEM45-4M38P
PEM45-4M12P
PEM45-6M14P
PEM45-6M516P
PEM45-6M38P
PEM45-6M12P
PEM45-8M14P
PEM45-8M38P
PEM45-8M12P

Male Tee

- PEMT-10U18P
- PEMT-10U532P
- PEMT-10U316P
- PEMT-10U14P
- PEMT-1M18P
- PEMT-1M532P
- PEMT-1M14P
- PEMT-2M18P
- PEMT-2M532P
- PEMT-2M316P
- PEMT-2M14P
- PEMT-2M516P
- PEMT-2M38P
- PEMT-4M18P
- PEMT-4M532P
- PEMT-4M316P
- PEMT-4M14P
- PEMT-4M516P
- PEMT-6M316
- PEMT-6M14
- PEMT-6M516
- PEMT-6M38
- PEMT-6M12
- PEMT-8M38
- PEMT-8M12



Male/Female Adjustable Elbows



- PEMF-10U18P
- PEMF-10U532P
- PEMF-10U316P
- PEMF-10U14P
- PEMF-2M18P
- PEMF-2M532P
- PEMF-2M316P
- PEMF-2M14P
- PEMF-2M516P
- PEMF-2M38P
- PEMF-4M316P
- PEMF-4M14P
- PEMF-4M516P
- PEMF-6M516
- PEMF-6M38
- PEMF-8M38
- PEMF-8M12

Male Adjustable Elbows

- PEA-10U18P
- PEA-10U532P
- PEA-10U316P
- PEA-10U14P
- PEA-2M18P
- PEA-2M532P
- PEA-2M316P
- PEA-2M14P
- PEA-2M516P
- PEA-4M316P
- PEA-4M14P
- PEA-4M516P
- PEA-6M316P
- PEA-6M14P
- PEA-6M516P
- PEA-6M38P
- PEA-6M12P
- PEA-8M38P
- PEA-8M12P

10-32 to 1/8 adjustable



Male WYE

- PMY-10U18P
- PMY-10U532P
- PMY-10U14P
- PMY-1M18P
- PMY-1M532P
- PMY-2M18P
- PMY-2M532P
- PMY-2M316P
- PMY-2M14P
- PMY-2M516P
- PMY-4M18P
- PMY-4M532P
- PMY-4M316P
- PMY-4M14P
- PMY-4M516P
- PMY-4M38P
- PMY-4M12P
- PMY-6M14
- PMY-6M516
- PMY-6M38
- PMY-6M12
- PMY-8M38
- PMY-8M12



WYE



- PUY-18P 1/8 OD Y
- PUY-532P 5/32 OD Y
- PUY-316P 3/16 OD Y
- PUY-14P 1/4 OD Y
- PUY-38P 3/8 OD Y
- PUY-12P 1/2 OD Y

Reducer WYE



- PUYR-532-18 5/32 by 1/8 Y Reducer
- PUYR-316-532
- PUYR-14-18
- PUYR-14-532
- PUYR-14-316
- PUYR-516-14
- PUYR-38-516
- PUYR-12-516
- PUYR-12-38

Connectors



- PUC-18P 1/8 OD Connector
- PUC-532P 5/32 OD Connector
- PUC-316P 3/16 OD Connector
- PUC-14P 1/4 OD Connector
- PUC-38P 3/8 OD Connector
- PUC-12P 1/2 OD Connector
- PUC-58P 5/8 OD Connector



- PSC-18S 1/8 OD by 1/8 OD
- PSC-316S
- PSC-14S
- PSC-38S
- PSC-12S
- PSC-532-18S
- PSC-316-18S
- PSC-316-532S
- PSC-14-532S
- PSC-14-316S
- PSC-516-316S
- PSC-516-14S
- PSC-38-14S
- PSC-38-516S

Reducing Connectors



- PUCR-532-18P
- PUCR-316-532P
- PUCR-14-18P
- PUCR-14-532P
- PUCR-14-316P
- PUCR-516-14P
- PUCR-38-516P
- PUCR-12-38P
- PUCR-58-12P

Tees














- PUT-18P 1/8 OD Tee
- PUT-532P 5/32 OD Tee
- PUT-316P 3/16 OD Tee
- PUT-14P 1/4 OD Tee
- PUT-38P 3/8 OD Tee

Reducing Tees



- PUTR-532-18
- PUTR-316-532
- PUTR-14-18
- PUTR-14-532
- PUTR-14-316
- PUTR-516-532
- PUTR-516-14
- PUTR-38-14
- PUTR-38-516
- PUTR-12-516
- PUTR-12-38

<div style="text-align: center; border: 1px solid black; padding: 2px;">Plugs</div>  <p>PP-532 PP-316 PP-14 PP-516 PP-38 PP-12</p> <div style="text-align: center; border: 1px solid black; padding: 2px;">PESP</div>	<div style="text-align: center; border: 1px solid black; padding: 2px;">Elbow</div>  <p>PUE-18P 1/8 P PUE-532P 5/32P PUE-316P 3/16 P PUE-14P 1/4 P PUE-38P 3/8 P PUE-12P 1/2 P</p>		
<div style="text-align: center; border: 1px solid black; padding: 2px;">Cross</div>  <p>PUCX-18P 1/8 OD Cross PUCX-532P 5/32 OD Cross PUCX-316P 3/16 OD Cross PUCX-14P 1/4 OD Cross PUCX-38P 3/8 OD Cross PUCX-12P 1/2 OD Cross PUCX-51614P 1/4 by 5/16 OD Cross PUCX-38516P 5/16 by 3/8 OD Cross PUCX-1238P 3/8 by 1/2 OD Cross</p>	<div style="text-align: center; border: 1px solid black; padding: 2px;">Stem Reducer</div>  <p>PSR-532S-18P PSR-516S-316P PSR-316S-18P PSR-516S-14P PSR-316S-532P PSR-38S-14P PSR-14S-18P PSR-12S-516P PSR-14S-532P PSR-12S-38P PSR-14S-316P</p>		
<div style="border: 1px solid black; padding: 5px;">PBFC Female NPT by push-in bulkhead. Nickel-plated brass.</div>  <p>PBFC-2F-532P PBFC-4F-516P PBFC-2F-316P PBFC-4F-38P PBFC-2F-14P PBFC-6F-516P PBFC-2F-516P PBFC-6F-6P PBFC-4F-316P PBFC-6F-8P PBFC-4F-14P</p>	<div style="text-align: center; border: 1px solid black; padding: 2px;">Push-in Bulkheads Both nuts are adjustable</div>  <p>PUB-18P 1/8 OD Bulkhead PUB-532P 5/32 OD Bulkhead PUB-316P 3/16 OD Bulkhead PUB-14P 1/4 OD Bulkhead PUB-38P 3/8 OD Bulkhead PUB-12P 1/2 OD Bulkhead</p> <p style="text-align: right;"><i>Plastic PBT optional</i></p>		
	<div style="text-align: center; border: 1px solid black; padding: 2px;">PSY Stem by double push-in.</div>  <p>PSY-18S-18 PSYR-532S-18 PSY-532S-532 PSYR-316S-532 PSY-316S-316 PSYR-14S-532 PSY-14S-14 PSYR-516S-14 PSY516S-516 PSYR-38S-14 PSYR-38S-516 PSYR-12S-38</p>		
<div style="text-align: center; border: 1px solid black; padding: 2px;">PSE Stem by Elbow</div>  <p>PSE-18S-18 PSE-316S-532 PSE-523S-532 PSE-14S-532 PSE-316S-316 PSE-14S-316 PSE-14S-14 PSE-516S316 PSE-516S-516 PSE-516S-14 PSE-38S-38 PSE-38S-14 PSE-12S-12 PSE-38S-516 PSE-532-18 PSE-12S-516 PSE-316S-18 PSE-12S-38</p>	<div style="text-align: center; border: 1px solid black; padding: 2px;">PBFC-R2 Special bulkheads. Nickel-plated brass</div>  <p>PBFC-R210F14P PBFC-R21428-14P</p>		
		<div style="text-align: center; border: 1px solid black; padding: 2px;">Brass</div>  <p>Male 10-32 to Stem AC-10U-532S AC-10U-14S AC-10U-38S</p> <p>Female 10-32 to Stem AC-10F-532S AC-10F-14S AC-10F-38S</p>	<div style="text-align: center; border: 1px solid black; padding: 2px;">Nickel-Plated Brass</div>  <p>NAC-10U-532S NAC-2M-532S NAC-2M-316S NAC-2M-14S NAC-2M-516S NAC-4M-14S NAC-4M-516S NAC-4M-38S NAC-4M-12S NAC-6M-38S NAC-6M-12S NAC-8M-12S</p>

316 Stainless with FKM O-Rings or EPDM O-Rings

Male Straight



TCM-10-532P	10-32 by 5/32 OD
TCM-2M-532P	1/8 by 5/32 OD
TCM-2M-316P	1/8 by 3/16 OD
TCM-2M-14P	1/8 by 1/4 OD
TCM-2M-516P	1/8 by 5/16 OD
TCM-4M-316P	1/4 by 3/16 OD
TCM-4M-4P	1/4 by 1/4 OD
TCM-4M-5P	1/4 by 5/16 OD
TCM-4M-6P	1/4 by 3/8 OD
TCM-4M-8P	1/4 by 1/2 OD
TCM-6M-6P	3/8 by 3/8 OD
TCM-6M-8P	3/8 by 1/2 OD
TCM-8M-6P	1/2 by 3/8 OD
TCM-8M-8P	1/2 by 1/2 OD

Male Swivel Elbow



TCME-10-532P-S	10-32 by 5/32 OD
TCME-2M-532P-S	1/8 by 5/32 OD
TCME-2M-316P-S	1/8 by 3/16 OD
TCME-2M-14P-S	1/8 by 1/4 OD
TCME-2M-516P-S	1/8 by 5/16 OD
TCME-4M-516P-S	1/4 by 5/16 OD
TCME-4M-4P-S	1/4 by 1/4 OD
TCME-6M-6P-S	3/8 by 3/8 OD
TCME-6M-8P-S	3/8 by 1/2 OD
TCME-8M-6P-S	1/2 by 3/8 OD
TCME-8M-8P-S	1/2 by 1/2 OD

Union



TCU-2P	1/8
TCU-3P	3/16
TCU-4P	1/4
TCU-5P	5/16
TCU-6P	3/8
TCU-8P	1/2

Union Elbow



TCE-2P	1/8
TCE-3P	3/16
TCE-4P	1/4
TCE-5P	5/16
TCE-6P	3/8
TCE-8P	1/2

Union Tee



TCT-2P	1/8
TCT-3P	3/16
TCT-4P	1/4
TCT-5P	5/16
TCT-6P	3/8
TCT-8P	1/2

Bulkhead Union



TCB-2P	1/8
TCB-3P	3/16
TCB-4P	1/4
TCB-5P	5/16
TCB-6P	3/8
TCB-8P	1/2

Male to Stem



SAC-2M-532S
SAC-2M-316S
SAC-2M-14S
SAC-2M-516S
SAC-4M-14S
SAC-4M-516S
SAC-4M-38S
SAC-4M-12S
SAC-6M-38S
SAC-6M-12S
SAC-8M-12S

Male Run



TCLR-2M-532P	1/8 M by 532
TCLR-2M-516P	1/8 M by 516
TCLR-4M-516P	1/4 M by 516









Male Tee



TCLM-2M-532P-S
TCLM-2M-516P-S
TCLM-4M-516P-S
TCLM-2M-14P-S
TCLM-4M-4P-S
TCLM-4M-6P-S
TCLM-6M-6P-S
TCLM-6M-8P-S
TCLM-8M-8P-S










PUSH-TO-CONNECT

Push-to-Connect fittings of Gray and White Acetal are NSF and FDA approved, and have Buna seals for use with air, gases, and potable water. Maximum temperature 140F @ 60 psi for Polypropylene. Available in White Polypropylene (PP) with EPDM seals or PVDF (PVDF) with FKM seals. Double O-ring fittings in polypro with EPDM or FKM seals.

 <ul style="list-style-type: none"> PC-532 5/32 Connector PC-3 3/16 Connector PC-4 1/4 Connector PC-5 5/16 Connector PC-6 3/8 Connector PC-8 1/2 Connector PC-4-3 1/4 by 3/16 Connector PP PC-5-532 5/16 by 5/32 Connector PC-5-3 5/16 by 3/16 Connector PC-5-4 5/16 by 1/4 Connector PC-6-3 3/8 by 3/16 Connector PC-6-4 3/8 by 1/4 Connector PP PVDF PC-6-5 3/8 by 5/16 Connector PC-8-5 1/2 by 5/16 Connector PC-8-6 1/2 by 3/8 Connector 	 <ul style="list-style-type: none"> PE-532 5/32 Elbow PE-3 3/16 Elbow PE-4 1/4 Elbow PP PVDF PE-5 5/16 Elbow PP PVDF PE-6 3/8 Elbow PP PE-8 1/2 Elbow PP PE-5-532 5/16 by 5/32 PE-5-3 5/16 by 3/16 Elbow PE-5-4 5/16 by 1/4 Elbow PE-6-3 3/8 by 3/16 Elbow PP PE-6-4 3/8 by 1/4 Elbow PP PVDF PE-6-5 3/8 by 5/16 Elbow PE-8-6 1/2 by 3/8 Elbow
 <ul style="list-style-type: none"> PSE-532 5/32 Stem by 5/32 OD Elbow PSE-3 3/16 Stem by 3/16 OD Elbow PSE-4 1/4 Stem by 1/4 OD Elbow PSE-4-6 1/4 Stem by 3/8 OD Elbow PSE-5 5/16 Stem by 5/16 OD Elbow PSE-6 3/8 Stem by 3/8 OD Elbow PSE-6-3 3/8 Stem by 3/16 OD Elbow PSE-6-4 3/8 Stem by 1/4 OD Elbow PSE-6-5 3/8 Stem by 5/16 OD Elbow PSE-8 1/2 Stem by 1/2 OD Elbow 	 <ul style="list-style-type: none"> PB-532 5/32 Bulkhead PB-3 3/16 Bulkhead PB-4 1/4 Bulkhead P K PB-5 5/16 Bulkhead PB-6 3/8 Bulkhead P K PB-8 1/2 Bulkhead P PB-6-4 3/8 by 1/4 Bulkhead P
 <ul style="list-style-type: none"> PSB-4 1/4 Stem by 1/4 Barb PSB-5 5/16 Stem by 5/16 Barb PSB-6 3/8 Stem by 3/8 Barb PSB-8 1/2 Stem by 1/2 Barb PSB-4S3 1/4 Stem by 3/16 Barb PSB-4S5 1/4 Stem by 5/16 Barb PSB-5S3 5/16 Stem by 3/16 Barb PSB-5S4 5/16 Stem by 1/4 Barb PSB-5S6 5/16 Stem by 3/8 Barb PSB-6S4 3/8 Stem by 1/4 Barb PSB-6S5 3/8 Stem by 5/16 Barb PSB-6S8 3/8 Stem by 1/2 Barb PSB-8S6 1/2 Stem by 3/8 Barb 	 <ul style="list-style-type: none"> PSM-2M532 1/8 Male by 5/32 OD Stem PSM-2M3 1/8 Male by 3/16 OD Stem PSM-2M4 1/8 Male by 1/4 OD Stem P K PSM-2M5 1/8 Male by 5/16 OD Stem PSM-4M532 1/4 Male by 5/32 OD Stem PSM-4M4 1/4 Male by 1/4 OD Stem P K PSM-4M5 1/4 Male by 5/16 OD Stem PSM-4M6 1/4 Male by 3/8 OD Stem P K PSM-4M8 1/4 Male by 1/2 OD Stem PSM-6M5 3/8 Male by 5/16 OD Stem PSM-6M6 3/8 Male by 3/8 OD Stem P K PSM-6M8 3/8 Male by 1/2 OD Stem PSM-8M8 1/2 Male by 1/2 OD Stem
 <ul style="list-style-type: none"> PEB-4 1/4 Stem by 1/4 Barb Elbow PEB-4S5 1/4 Stem by 5/16 Barb Elbow PEB-5 5/16 Stem by 5/16 Barb Elbow PEB-6 3/8 Stem by 3/8 Barb Elbow PEB-6S5 3/8 Stem by 5/16 Barb Elbow PEB-8 1/2 Stem by 1/2 Barb Elbow PEB-5S4 5/16 Stem by 1/4 Barb Elbow PEB-6S4 3/8 Stem by 1/4 Barb Elbow 	 <ul style="list-style-type: none"> PSP-3-532 3/16 Stem by 5/32 PSP-5-3 5/16 Stem by 3/16 PSP-5-4 5/16 Stem by 1/4 P PSP-6-3 3/8 Stem by 3/16 PSP-6-4 3/8 Stem by 1/4 P PSP-6-5 3/8 Stem by 5/16 PSP-8-4 1/2 Stem by 1/4 PSP-8-5 1/2 Stem by 5/16 PSP-8-6 1/2 Stem by 3/8 P

Push-in Fittings

Push-in fittings of Acetal (A) are NSF and FDA approved, and have Buna seals. Some models available in Polypropylene (P) with EPDM seals or PVDF (K) with FKM seals. Also available with Double O-ring EPDM seals

<p>PACX Series Push-in fittings in Acetal</p>  <p>PACX-6</p>	<p>PY Series Push-in Divider Fittings</p>  <table border="0"> <tr> <td>PY-4</td> <td>1/4</td> <td>P A</td> </tr> <tr> <td>PY-5</td> <td>5/16</td> <td>A</td> </tr> <tr> <td>PY-6</td> <td>3/8 P</td> <td>A</td> </tr> <tr> <td>PY-6-5</td> <td>3/8 to 5/16</td> <td>A</td> </tr> </table>	PY-4	1/4	P A	PY-5	5/16	A	PY-6	3/8 P	A	PY-6-5	3/8 to 5/16	A	<p>PME Series Push-in fittings Male by OD Elbows</p>  <table border="0"> <tr> <td>PME-2M4</td> <td>1/8 Male by 1/4 OD Elbow</td> <td>P K</td> </tr> <tr> <td>PME-4M4</td> <td>1/4 Male by 1/4 OD Elbow</td> <td>P K</td> </tr> <tr> <td>PME-4M5</td> <td>1/4 Male by 5/16 OD Elbow</td> <td></td> </tr> <tr> <td>PME-4M6</td> <td>1/4 Male by 3/8 OD Elbow</td> <td>P</td> </tr> <tr> <td>PME-6M4</td> <td>3/8 Male by 1/4 OD Elbow</td> <td>P K</td> </tr> <tr> <td>PME-6M5</td> <td>3/8 Male by 5/16 OD Elbow</td> <td></td> </tr> <tr> <td>PME-6M6</td> <td>3/8 Male by 3/8 OD Elbow</td> <td></td> </tr> <tr> <td>PME-8M10</td> <td>1/2 Male by 5/8 OD Elbow</td> <td></td> </tr> </table>	PME-2M4	1/8 Male by 1/4 OD Elbow	P K	PME-4M4	1/4 Male by 1/4 OD Elbow	P K	PME-4M5	1/4 Male by 5/16 OD Elbow		PME-4M6	1/4 Male by 3/8 OD Elbow	P	PME-6M4	3/8 Male by 1/4 OD Elbow	P K	PME-6M5	3/8 Male by 5/16 OD Elbow		PME-6M6	3/8 Male by 3/8 OD Elbow		PME-8M10	1/2 Male by 5/8 OD Elbow																															
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PMT Series

Push-in fittings MNPT by OD Tees



PMT-2M532	1/8 by 5/32	
PMT-2M3	1/8 by 3/16	
PMT-2M4	1/8 by 1/4	P K
PMT-2M5	1/8 by 5/16	
PMT-2M6	1/8 by 3/8	P K
PMT-4M532	1/4 by 5/32	
PMT-4M4	1/4 by 1/4	P K
PMT-4M5	1/4 by 5/16	
PMT-4M6	1/4 by 3/8	P K
PMT-4M8	1/4 by 1/2	
PMT-6M5	3/8 by 5/16	
PMT-6M6	3/8 by 3/8	P K
PMT-6M8	3/8 by 1/2	
PMT-8M8	1/2 by 1/2	

PT Series

Push-in fittings OD Tee



PT-4	1/4 OD Tee	P
PT-5	5/16 OD Tee	P
PT-6	3/8 OD Tee	P
PT-8	1/2 OD Tee	P
PT-6-4	3/8 by 1/4 OD Tee	P
PT-8-6	1/2 by 3/8 OD Tee	P

LOCKING CLIPS



LTC-3B	3/16 OD
LTC-4B	1/4 OD
LTC-5B	5/16 OD
LTC-6B	3/8 OD
LTC-8B	1/2 OD
LTC-10B	5/8 OD
LTC-12B	7/8 OD

LTC-5M	5 MM
LTC-6M	6 MM
LTC-8M	8 MM
LTC-10M	10 MM
LTC-12M	12 MM
LTC-15M	15 MM
LTC-16M	16 MM
LTC-18M	18 MM
LTC-22M	22 MM
LTC-28M	28 MM



COUPLERS

MMC

Medical couplers for disposable applications. 1/4 flow available in Polycarbonate (PC), Polysulphone (PS), and ABS (not available in 1/2 Barb). Silicone O-ring.



MMC-B-4B
MMC-B-6B
MMC-B-8B



MMC-I-4B
MMC-I-6B
MMC-I-8B

CS Coupler






Consists of 3/32 nominal flow White Acetal with a twist coupler and insert. These units are available as barbed fittings as small as 1/16 or with a 1/8 male pipe thread coupler. Coupler bodies and inserts are open flow as a standard, with optional shutoff units for the Acetal bodies. These couplers are also available in Polypropylene with EPDM O-rings, or Polycarbonate. Can be ordered as NSF units.

-40° F to 180° F for Acetal.

32° F to 180° F for Polypropylene.



CS-B-2B	3/32 Coupler Body 1/8 Barb
CS-B-1B	3/32 Coupler Body 1/16 Barb
CS-B-1B-PP	3/32 Coupler Body 1/16 Barb Polypropylene
CS-B-1B-PC	3/32 Coupler Body 1/16 Barb Polycarbonate
CS-B-1B-S	3/32 Coupler Body 1/16 Barb Shutoff
CS-B-2B-PP	3/32 Coupler Body 1/8 Barb Polypropylene
CS-B-2B-PC	3/32 Coupler Body 1/8 Barb Polycarbonate
CS-B-2B-S	3/32 Coupler Body 1/8 Barb Shutoff

	CS-B-1B-PM	3/32 Coupler Body 1/16 Barb Panel Mount
	CS-B-1B-PM-PP	3/32 Coupler Body 1/16 Barb Polypro Panel Mount
	CS-B-1B-S-PM	3/32 Coupler Body 1/16 Barb Shutoff Panel Mount
	CS-B-2B-PM	3/32 Coupler Body 1/8 Barb Panel Mount
	CS-B-2B-PM-PP	3/32 Coupler Body 1/8 Barb Polypro Panel Mount
CS-B-2B-S-PM	3/32 Coupler Body 1/8 Barb Shutoff Panel Mount	
	CS-B-2M-S	3/32 Coupler Body 1/8 Male Shutoff
	CS-B-2M	3/32 Coupler Body 1/8 Male
	CS-B-2M-PP	3/32 Coupler Body 1/8 Male Polypropylene
	CS-I-1B	3/32 Coupler Insert 1/16 Barb
	CS-I-1B-PP	3/32 Coupler Insert 1/16 Barb Polypropylene
	CS-I-2B-PP	3/32 Coupler Insert 1/8 Barb Polypropylene
	CS-I-2B-C	3/32 Coupler Insert 1/8 Barbed Chrome
	CS-I-1B-PM	3/32 Coupler Insert 1/16 Barb Panel Mount
	CS-I-1B-PM-PP	3/32 Coupler Insert 1/16 Barb Polypro Panel Mount
	CS-I-2B-PM	3/32 Coupler Insert 1/8 Barb Panel Mount
	CS-I-2B-PM-PP	3/32 Coupler Insert 1/8 Barb Polypro Panel Mount
	CS-I-2B-PM-C	3/32 Coupler Insert 1/8 Barb Chrome Panel Mount
	CS-2B2B	1/8 ID Coupler Body and Insert Complete
	CS-1B1B	1/16 ID Coupler Body and Insert Complete
	CS-1B1B-PP	1/16 ID Coupler Body and Insert COMPELTE Polypropylene
	CS-1B1B-PC	1/16 ID Coupler Body and Insert Complete Polycarbonate

20 Series Couplers

Consist of 1/8 nominal flow. White Acetal, Polypropylene, and chrome. Stainless steel thumbnail latch coupler and a Buna O-ring insert. These units are available in male pipe thread, Barb and ferruleless polytube connectors (PFT). Coupler bodies and inserts are open flow as a standard, with optional shutoff units. Color coded chrome in 1/8 or 1/4 NPT bodies and 1/8 or 1/4 barbed inserts. Plastics can be ordered for NSF applications. Temp ranges are -40° F to 180° F for Acetal. 32° F to 160° F for Polypropylene. Vacuum to 120 psi.

ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-1B-*	1/16	*	*	*	*	-	-
20-S-2B-*	1/8	*	*	*	*	*	*
20-S-3B-*	3/16	*	*	*	*	*	*
20-S-4B-PM	1/4	*	*	*	*	*	*



ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-1B	1/16	*	*	*	*	*	*
20-S-2B	1/8	*	*	*	*	*	*
20-S-3B	3/16	*	*	*	*	*	*
20-S-4B	1/4	*	*	*	*	*	*

ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-1032F-PM	10-32	*	*	*	*	*	*
20-S-1428F-PM	1/4-28	-	-	-	*	-	-



ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-532PFT-PM	5/32	*	*	-	-	*	-
20-S-4PFT-PM	1/4	*	*	*	*	*	-

ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-1032F	10-32	*	*	-	-	-	-
20-S-1428F	1/4-28	-	-	-	*	-	-



ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-L-2BS	1/8	*	*	-	-	-	-
20-S-L-4BS	1/4	*	*	-	-	-	-

ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-2M	1/8	*	*	*	*	*	*
20-S-4M	1/4	*	*	*	*	*	*



ITEM #	size	AC	VAC	PP	VPP	C	VC
20-S-532PFT	5/32	*	*	-	-	*	-
20-S-4PFT	1/4	*	*	*	*	-	*

*AC = Acetal

*PP = Polypropylene

*C = Chrome

*V = Valved

*PM = Panel Mount

Order example boxes highlighted above in gray
1/8 inch Coupler Body with 1/8 inch Barbed Acetal with Valve
the SKU would be: **20-S-2B-VAC**

AC- Acetal		PP-Polypropylene						C- Chrome		V- Valved		PM- Panel Mount							
ITEM #	size	AC	VAC	PP	VPP	C	VC				ITEM #	size	AC	VAC	PP	VPP	C	VC	
2P-L-4PFT	1/4	X	X	X	X	-	X				2P-L-2B	1/8	X	X	X	X	X	-	
2P-L-532PFT	5/32	X	X	X	X	-	X				2P-L-4B	1/4	X	X	X	X	X	-	
ITEM #	size	AC	VAC	PP	VPP	C	VC				ITEM #	size	AC	VAC	PP	VPP	C	VC	
2P-1B	1/16	X	X	X	X	X	-				2P-2M	1/8	X	X	X	X	X	X	
2P-2B	1/8	X	X	X	X	X	-				2P-4M	1/4	X	X	-	-	X	X	
2P-3B	3/16	X	X	-	-	X	-				ITEM #	size	AC	VAC	PP	VPP	C	VC	
2P-4B	1/4	X	X	-	-	X	-				2P-4PFT-PM	1/4	X	X	-	-	X	-	
ITEM #	size	AC	VAC	C	VC			ITEM #	size	AC	VAC	PP	VPP	C	VC				
2P-1B-PM	1/16	X	X	-	-			2P-1032F	10-32	X	X	-	-	X	X				
2P-2B-PM	1/8	X	-	X	-			2P-1428F	1/4-28	-	-	X	X	-	-				
2P-3B-PM	3/16	X	X	X	-			ITEM #	size	AC	VAC	PP	VPP	C	VC				
2P-4B-PM	1/4	X	X	X	-			2P-2F	1/8	-	-	-	-	X	-				
ITEM #	size	AC	VAC	PP	VPP	C	VC				2P-4F	1/4	-	-	-	-	X	-	
2P-4PFT	1/4	X	-	X	X	X	-												
2P-532PFT	5/32	X	X	-	-	X	-												
2P-6PFT	3/8	X	X	-	-	X	-												

1/4" Coupler SERIES

Consist of 1/4 nominal flow. White Acetal, Polypropylene, and chrome. Stainless steel thumbnail latch coupler and a Buna O-ring insert. These units are available in male pipe thread, Barb, and ferrule-less polytube connectors. Coupler bodies and inserts are open flow as a standard, with optional shutoff units. Plastic can be ordered for NSF applications.
 -40° F to 180° F for Acetal.
 32° F to 160° F for Polypropylene.
 Vacuum to 120 psi.

Order example highlighted below. To order a 3/8" Panel Mount Hose Barb with Valve the code would be **4S-6B-PM-VPP**

ITEM #	size	AC	VAC	PP	VPP	C	VC			ITEM #	size	AC	VAC	PP	VPP	C	VC	
4S-4B	1/4	X	X	-	-	X	X			4S-4B-PM	1/4	X	X	-	X	X	X	
4S-5B	5/16	X	X	-	-	X	X			4S-5B-PM	5/16	X	X	-	-	X	X	
4S-6B	3/8	X	X	X	X	X	X			4S-6B-PM	3/8	X	X	X	X	X	X	
ITEM #	size	AC	VAC	PP	VPP	C	VC			ITEM #	size	AC	VAC	PP	VPP	C	VC	
4S-4PFT	1/4	X	X	-	-	X	X			4S-4M	1/4	X	X	X	X	X	X	
4S-6PFT	3/8	X	X	X	X	X	X			4S-6M	3/8	X	X	X	X	X	X	
ITEM #	size	AC	VAC	PP	VPP	C	VC			ITEM #	size	AC	VAC	PP	VPP	C	VC	
4P-L-4PFT	1/4	X	X	-	-	X	X			4S-4PFT-PM	1/4	X	X	-	-	X	X	
4P-L-6PFT	3/8	X	X	X	X	X	X			4S-6PFT-PM	3/8	X	X	X	X	X	X	
ITEM #	size	AC	VAC	PP	VPP	C	VC			ITEM #	size	AC	VAC	PP	VPP	C	VC	
4P-4B	1/4	X	X	X	X	X	X			4P-4F	1/4	-	-	-	-	X	X	
4P-5B	5/16	X	X	-	-	X	X			ITEM #	size	AC	VAC	PP	VPP	C	VC	
4P-6B	3/8	X	X	X	X	X	X			4P-4M	1/4	X	X	X	X	X	X	
ITEM #	size	AC	VAC	PP	VPP	C	VC			4P-6M	3/8	X	X	-	-	X	X	
4P-L-4M	1/4	X	X	-	-	-	-			ITEM #	size	AC	VAC	PP	VPP	C	VC	
										4P-4PFT-PM	1/4	X	X	-	-	X	X	
										4P-6PFT-PM	3/8	X	X	-	-	X	X	
										ITEM #	size	AC	VAC	PP	VPP	C	VC	
										4P-4PFT	1/4	X	X	-	-	X	-	
										4P-6PFT	3/8	X	X	X	X	X	-	

AC- Acetal	PP-Polypropylene	C- Chrome	V- Valved	PM- Panel Mount
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1/4" ALL Plastic Coupler SERIES

Consists of 1/4" nominal flow. White Acetal and Polypropylene. Acetal thumb latch coupler and a Buna O-ring insert. These units are available in male pipe thread, Barb, and ferrule-less connectors. Coupler bodies and inserts are open flow standard, with optional shut off units. Plastic can be ordered for NSF applications. Available as a breakaway.

-40° F to 180° F for Acetal.
32° F to 160° F for Polypropylene.
Vacuum to 120 psi.





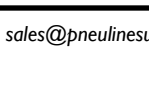





Order example highlighted below.
To order a
1/8 Coupler Body with 5/16 Barb Acetal with Valve
the code would be
4SP-5B-VAC

<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ITEM #</th> <th>size</th> <th>AC</th> <th>VAC</th> <th>PP</th> <th>VPP</th> </tr> </thead> <tbody> <tr> <td>4SP-4M</td> <td>1/4</td> <td>X</td> <td>X</td> <td>X</td> <td>-</td> </tr> <tr> <td>4SP-6M</td> <td>3/8</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> </tbody> </table> 	ITEM #	size	AC	VAC	PP	VPP	4SP-4M	1/4	X	X	X	-	4SP-6M	3/8	X	X	-	-	<p style="text-align:center; border: 1px solid black; padding: 2px;">Short Body AVAILABLE</p> 	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ITEM #</th> <th>size</th> <th>AC</th> <th>VAC</th> <th>PP</th> <th>VPP</th> </tr> </thead> <tbody> <tr> <td>4SP-4B</td> <td>1/4</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> <tr> <td>4SP-5B</td> <td>5/16</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> <tr> <td>4SP-6B</td> <td>3/8</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>	ITEM #	size	AC	VAC	PP	VPP	4SP-4B	1/4	X	X	-	-	4SP-5B	5/16	X	X	-	-	4SP-6B	3/8	X	X	X	X	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ITEM #</th> <th>size</th> <th>AC</th> <th>VAC</th> <th>PP</th> <th>VPP</th> </tr> </thead> <tbody> <tr> <td>4SP-4PTF</td> <td>1/4</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> <tr> <td>4SP-6PTF</td> <td>3/8</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> </tbody> </table> 	ITEM #	size	AC	VAC	PP	VPP	4SP-4PTF	1/4	X	X	-	-	4SP-6PTF	3/8	X	X	-	-	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ITEM #</th> <th>size</th> <th>AC</th> <th>VAC</th> <th>PP</th> <th>VPP</th> </tr> </thead> <tbody> <tr> <td>4SP-4PTF-PM</td> <td>1/4</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> <tr> <td>4SP-6PTF-PM</td> <td>3/8</td> <td>X</td> <td>X</td> <td>-</td> <td>-</td> </tr> </tbody> </table> 	ITEM #	size	AC	VAC	PP	VPP	4SP-4PTF-PM	1/4	X	X	-	-	4SP-6PTF-PM	3/8	X	X	-	-
ITEM #	size	AC	VAC	PP	VPP																																																																													
4SP-4M	1/4	X	X	X	-																																																																													
4SP-6M	3/8	X	X	-	-																																																																													
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4SP-4B	1/4	X	X	-	-																																																																													
4SP-5B	5/16	X	X	-	-																																																																													
4SP-6B	3/8	X	X	X	X																																																																													
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4SP-4PTF	1/4	X	X	-	-																																																																													
4SP-6PTF	3/8	X	X	-	-																																																																													
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4SP-4PTF-PM	1/4	X	X	-	-																																																																													
4SP-6PTF-PM	3/8	X	X	-	-																																																																													
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4PP-4PTF	1/4	X	X	-	-																																						
4PP-6PTF	3/8	X	X	-	-																																						
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4PP-L-4B	1/4	X	X	-	-																																						
4PP-L-6B	3/8	X	X	X	-																																						
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4PP-L-4M	1/4	X	X	-	-																																						
ITEM #	size	AC	VAC	PP	VPP																																						
4PP-L-6PTF	3/8	X	X	-	-																																						

1/4" Couplers- (Polypropylene Only)

1/4" Flow Polypropylene Couplers, 120 psi, -40F to 180F with EPDM O-RING. Non-valved with shrouded latch

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">SOCKETS</div>  50GS-1/4 NPT  50GS-B1/4  50GS-B3/8  50GS-B3/8 Valve  50GS-IB3/8	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">Plugs</div>  50GP-.04 NPT  50GP-B1/4  50GP-B3/8  50GP-B3/8  50GP-P3/8 Plug
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1/4 stem to PCM series for use with Acetal Push-in
PCM-4S
AVAILABLE IN A BREAKAWAY SERIES

CH Couplers

3/8 flow couplers made of Polypropylene or Polysulfone. standard couplers are available with shutoff using 316 stainless steel spring and EPDM O-ring. -40° to 250° F. Hastelloy spring optional.

	CH-B-6M-PP	3/8 Coupler Body 3/8 MNPT Polypro
	CH-B-6M-PS	3/8 Coupler Body 3/8 MNPT Polysulfone
	CH-B-8M-PP	3/8 Coupler Body 1/2 MNPT Polypro
	CH-B-12M-PS	3/8 Coupler Body 1/2 MNPT Polysulfone
	CH-B-MG-PS	3/8 Coupler Body 3/4 MGHT Polysulfone
	CH-B-FG-PS	3/8 Coupler Body 3/4 FGHT Polysulfone
	CH-B-6B-PP	3/8 Coupler Body 3/8 Barb Polypro
	CH-B-6B-PS	3/8 Coupler Body 3/8 Barb Polysulfone
	CH-B-8B-PP	3/8 Coupler Body 1/2 Barb Polypro
	CH-B-8B-PS	3/8 Coupler Body 1/2 Barb Polysulfone
	CH-B-10B-PP	3/8 Coupler Body 5/8 Barb Polypro
	CH-B-10B-PS	3/8 Coupler Body 5/8 Barb Polysulfone
	CH-B-12B-PP	3/8 Coupler Body 3/4 Barb Polypro
	CH-B-12B-PS	3/8 Coupler Body 3/4 Barb Polysulfone
	CH-B-6B-PP-PM	3/8 Coupler Body 3/8 Barb Polypro PM
	CH-B-6B-PS-PM	3/8 Coupler Body 3/8 Barb Polysulfone PM
	CH-B-8B-PP-PM	3/8 Coupler Body 1/2 Barb Polypro PM
	CH-B-8B-PS-PM	3/8 Coupler Body 1/2 Barb Polysulfone PM
	CH-B-10B-PP-PM	3/8 Coupler Body 5/8 Barb Polypro PM
	CH-B-10B-PS-PM	3/8 Coupler Body 5/8 Barb Polysulfone PM
	CH-B-12B-PP-PM	3/8 Coupler Body 3/4 Barb Polypro PM
	CH-B-12B-PS-PM	3/8 Coupler Body 3/4 Barb Polysulfone PM
	CH-B-6C-PP	3/8 Coupler Body 3/8 Compression Polypro
	CH-B-8C-PP	3/8 Coupler Body 1/2 Compression Polypro
	CH-B-6C-PP-PM	3/8 Coupler Body 3/8 Compression Polypro PM
	CH-B-8C-PP-PM	3/8 Coupler Body 1/2 Compression Polypro PM
	CH-I-6M-PP	3/8 Coupler Insert 3/8 MNPT Polypro
	CH-I-6M-PS	3/8 Coupler Insert 3/8 MNPT Polysulfone
	CH-I-8M-PP	3/8 Coupler Insert 3/8 MNPT Polypro
	CH-I-8M-PS	3/8 Coupler Insert 3/8 MNPT Polysulfone
	CH-I-12M-PS	3/8 Coupler Insert 1/2 MNPT Polysulfone
	CH-I-MG-PS	3/8 Coupler Insert 3/4 MGHT Polysulfone
	CH-I-FG-PS	3/8 Coupler Insert 3/4 FGHT Polysulfone
		CH-I-1-6B-PP
CH-I-6B-PS		3/8 Coupler Insert 3/8 Barb Polysulfone
CH-I-8B-PP		3/8 Coupler Insert 1/2 Barb Polypro
CH-I-8B-PS		3/8 Coupler Insert 1/2 Barb Polysulfone
CH-I-10B-PP		3/8 Coupler Insert 5/8 Barb Polypro
CH-I-10B-PS		3/8 Coupler Insert 5/8 Barb Polysulfone
CH-I-12B-PP		3/8 Coupler Insert 3/4 Barb Polypro
CH-I-12B-PS		3/8 Coupler Insert 3/4 Barb Polysulfone
	CH-I-6BL-PP	3/8 Coupler Insert 3/8 Barb Elbow Polypro
	CH-I-6BL-PS	3/8 Coupler Insert 3/8 Barb Elbow Polysulfone
	CH-I-8BL-PP	3/8 Coupler Insert 1/2 Barb Elbow Polypro
	CH-I-8BL-PS	3/8 Coupler Insert 1/2 Barb Elbow Polysulfone
	CH-I-6C-PP	3/8 Coupler Insert 3/8 Compression Polypro
	CH-I-8C-PP	3/8 Coupler Insert 1/2 Compression Polypro

CFT-B & CFT-I

Open Flow 1/2 inch flow coupler made of Polysulphone, chemically resistant., and autoclavable EPDM seal. 0 to 60 psi, 32° to 160°F.



CFT-B-FGHT	1/2 Flow Body 3/4 FGHT	
CFT-B-I2B	1/2 Flow Body 3/4 Hose Barb	PP
CFT-B-I2B-PM	1/2 Flow Body 3/4 Hose Barb Panel Mount	
CFT-B-MGHT	1/2 Flow Body 3/4 MGHT	
CFT-B-8M	1/2 Flow Body 1/2 MNPT	
CFT-B-I2M	1/2 Flow Body 3/4 MNPT	



CFT-I-8M	1/2 Flow Insert 1/2 MNPT	PP
CFT-I-I2M	1/2 Flow Insert 3/4 MNPT	
CFT-I-MGHT	1/2 Flow Insert 3/4 MGHT	
CFT-I-FGHT	1/2 Flow Insert 3/4 FGHT	
CFT-I-I2B	1/2 Flow Insert 3/4 Barb	
CFT-I-8B-PP	1/2 Flow Insert 1/2 Barb	PP Only

CNSA-B & CNSA-I

Non-spill, less than .10cc on disconnect, with .6 CV flow. Polypropylene, 316 stainless steel spring, with EPDM or FKM seals. Red or blue color code optional. 0 to 45 psi, 32° to 160° F.



CNSA-B-4M	Body 1/4 MNPT
CNSA-B-38FPT	Body 1/4 by 3/8 FPT
CNSA-B-2B	Body 1/8 Barb
CNSA-B-4B	Body 1/4 Barb
CNSA-B-6B	Body 3/8 Barb



CNSA-I-4M	Insert 1/4 MNPT
CNSA-I-38FPT	Insert 1/4 by 3/8 FPT
CNSA-I-38FPT-PM	Insert 1/4 by 3/8 FPT Panel Mount
CNSA-I-2B	Insert 1/8 Barb
CNSA-I-4B	Insert 1/4 Barb
CNSA-I-6B	Insert 3/8 Barb



CNSA-I-2B-PM	Insert 1/8 Barb Panel Mount
CNSA-I-4B-PM	Insert 1/4 Barb Panel Mount
CNSA-I-6B-PM	Insert 3/8 Barb Panel Mount

CNSB-B & CNSB-I

Non-spill, less than .30cc at 120 psi, on disconnect, with 2.2 CV flow. Polypropylene, 316 stainless steel spring, with EPDM or FKM seals. Red or blue color code optional. 0 to 120 psi, 32° to 160° F.



CNSB-B-8M	Body 1/2 MNPT
CNSB-B-8C	Body 1/2 Compression
CNSB-B-6B	Body 3/8 Barb
CNSB-B-8B	Body 1/2 Barb



CNSB-I-8M	Insert 1/2 MNPT
CNSB-I-8C	Insert 1/2 Compression
CNSB-I-8C-PM	Insert 1/2 Compression Panel Mount
CNSB-I-6B	Insert 3/8 Barb
CNSB-I-8B	Insert 1/2 Barb
CNSB-I-6B-PM	Insert 3/8 Barb

CNSC

Non-spill, less than .10cc at 120 psi, on disconnect, with 3 CV flow. Polypropylene, 316 stainless steel spring, with EPDM or FKM seals. Red or blue color code optional. A panel mount kit is usable for all sizes

—See CNSC-PM-K 0 to 120 psi, 32° to 160° F.

	CNSC-B-6M	Body 3/8 MNPT		CNSC-I-6M	Insert 3/8 MNPT
	CNSC-B-8M	Body 1/2 MNPT		CNSC-I-8M	Insert 1/2 MNPT
	CNSC-B-12M	Body 3/4 MNPT		CNSC-I-6C	Insert 3/8 Compression
	CNSC-B-6C	Body 3/8 Compression		CNSC-I-8C	Insert 1/2 Compression
	CNSC-B-8C	Body 1/2 Compression		CNSC-I-6B	Insert 3/8 Barb
	CNSC-B-6B	Body 3/8 Barb		CNSC-I-8B	Insert 1/2 Barb
	CNSC-B-8B	Body 1/2 Barb		CNSC-I-10B	Insert 5/8 Barb
	CNSC-B-10B	Body 5/8 Barb		CNSC-I-12B	Insert 3/4 Barb
	CNSC-B-12B	Body 3/4 Barb			



CNSC-PM-K Panel Mount Kit

High volume zinc coupler in 1/4 or 3/8 Barb
250 psi at 150F optional 400 F is available



Breakaway - simply pull on tubing to pull apart. Coupler has valve, insert has valve but open flow is available in 1/4 inch Barb unit only. standard color is Black, White is available 20 psi Maximum

1/4 Barb		1/4 Barb
1/4 Barb Shutoff		1/4 Barb PM
3/8 Barb		3/8 Barb
3/8 Barb Shutoff		3/8 Barb Panel Mount

SBLF Series
Latch Connectors



SBLF-18	Female 1/8 Latch
SBLF-316	Female 3/16 Latch
SBLM-18	Male 1/8 Latch
SBLM-316	Male 3/16 Latch

TL Series
Latch Connectors



TL-532B	5/32 Thumb Latch
---------	------------------

LTD Series

10-32 Acetal (POM) quick disconnect. Available with 1/16, 1/8 or 1/70 Barb. Straight, elbow or tee inserts available. Buna O-rings. Stainless Steel spring. Max psi 125. Operating temperatures 40° to 120° F



LTD-10-1B	10-32 Male by 1/16 Barb
LTD-10-2B	10-32 Male by 1/8 Barb
LTD-10-170	10-32 Male by .170 Barb

DISCONNECTS—BRASS

XMCC and XMCI

Brass disconnect, nickel-plated with shutoff on coupler, Buna seals standard, 302 balls and springs.
Available without shutoff on coupler side.



XMCC-1032M
XMCC-1032F
XMCC-18M



XMCI-1032M
XMCI-1032F
XMCI-18M

SMRC and SMRI Series

Brass, Nickel-Plated open flow disconnect with optional shut-off in coupler, Buna seals 500 psi Nickel plate optional. Panel mounts available with Barb fittings only.



SMRC-1032 M 10-32 Male
SMRC-1032 F 10-32 Female
SMRC-18 M 1/8 Male
SMRC-18B 1/8 Barb
SMRC-532B 5/32 Barb



SMRI-1032M 10-32 Male
SMRI-1032F 10-32 Female
SMRI-18B 1/8 Barb
SMRI-532B 5/32 Barb
SMRI-3B 3/16 Barb

LUER & LUER LOCK CONNECTORS

MLL-MG

Medical grade luers molded in White Nylon (N), Polypropylene (PP), Polycarbonate (PC), radiation stable Polycarbonate (RSPC), PVC, Styrene (STY), and Black Polypropylene (PPBK). Lot traceable certifications provided. Optional material PVDF, colored Nylon, and colored Polypropylene. See the chart on page 155 for details. Large bore luers available with 3/16, 1/4 and 5/16 barbs.



FLL-MG-132 1/32 ID Tubing
FLL-MG-116 1/16 ID Tubing
FLL-MG-332 3/32 ID Tubing
FLL-MG-18 1/8 ID Tubing
FLL-MG-532 5/32 ID Tubing
FLL-MG-316 3/16 ID Tubing
FLL-MG-14 1/4 ID Tubing



MLL-MG-116 1/16 ID Tubing
MLL-MG-332 3/32 ID Tubing
MLL-MG-18 1/8 ID Tubing
MLL-MG-532 5/32 ID Tubing
MLL-MG-316 3/16 ID Tubing
MLL-MG-14 1/4 ID Tubing

MSL

Male slip luer barbs in lipid resistant PC, Polypropylene, or ABS.



MSL-MG-116 1/16 Barb
MSL-MG-332 3/32 Barb
MSL-MG-18 1/8 Barb
MSL-S-532 5/32 Barb
MSL-U-316 3/16 Barb

FSL

Female slip luer barbs in lipid resistant PC, Polypropylene, or ABS.



FSL-MG-116 1/16 Barb
FSL-MG-332 3/32 Barb
FSL-MG-18 1/8 Barb
FSL-S-532 5/32 Barb

FLL - Luer by Thread

Female luer lock by thread adapters. Available threads are 10-32, 1/4-28, 1/8 NPT, and 1/4 NPT Elbow. standard Nylon and Polypropylene,. Others resin materials available.



- FLL-14-PP Female Luer Lock by 1/4-28 Thread Polypro
- FLL-14-WN Female Luer Lock by 1/4-28 UNF
- FLL-10-WN Female Luer Lock by 10-32 UNF
- FLL-18 Female Luer Lock by 1/8 NPT

FLLE-18

Female luer lock by 1/8 NPT Nylon, Polypropylene, and Black polypro.



MSLE

Male slip luer by 3/32 Barb elbow.



MSLE-2B 3/32 Barb

MLL

Male luer lock by thread adapters. Available threads are 10-32, 1/4-28, 1/8 NPT, and 1/4 NPT. Available in Nylon and Polypropylene. Others resin materials available.



- MLL-4M-WN Male Luer Lock by 1/4 MNPT Black Polypro available
- MLL-2M-WN Male Luer Lock by 1/8 NPT
- MLL-14-WN Male Luer Lock by 1/4-28 Thread
- MLL-10-WN Male Luer Lock by 10-32 Thread

MLLC

Male luer lock to a female luer lock available in Nylon, Polypropylene, or Polycarbonate.



Available with Orifice

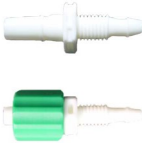





FLLPC

Panel mounted female luer lock by standard hose Barb with no parting line on the Barb. Luer is on the outside of the panel with 1/16, 3/32, and 1/8, Barb on the inside. 1/4-28 mounting thread with White Nylon nut. Optional color coded panel rings and nuts available.



- FLLPC-S-1B-WN FLL by 1/16 Barb Bulkhead
- FLLPC-S-332B-WN FLL by 3/32 Barb Bulkhead
- FLLPC-S-2B-WN FLL by 1/8 Barb Bulkhead

Color coded rings and collets available for panel connectors.

<p>MLLPC Male slip luer lock. Panel mount, 10-32 thread by Barb.</p>  <p>MLLPC-S-1B Male Luer by 1/16 Barb MLLPC-S-332B Male Luer by 3/32 Barb MLLPC-S-2B Male Luer by 1/8 Barb</p>	<p>FLL-MSL Male slip luer lock. Panel mount, 10-32 thread with Nylon nut.</p> 
<p>FLLC - MG Female luer lock coupler in Nylon, Polypropylene, Polycarbonate, and PVDF.</p> 	<p>MSSC Male by male slip luer available in Nylon and Polypropylene. Rotating collars available.</p> 
<p>FLLE Female luer lock elbow is available in Nylon, Polypropylene, Polycarbonate, or PVDF material.</p> 	<p>FLLT Female luer lock tee is available in Nylon, Polypropylene, Polycarbonate, or PVDF material.</p> 
<p>MFT and MFMT Male luer to female luer lock street tee.</p> 	<p>MLLP-MG and FLLP-MG Male and female lock cap made in White Nylon or Polypropylene.</p> 
<p>ML, MLEF, MLLRF, MLLRM, MLLFMTR, MLLFFTER Rotating male luers made of Nylon, Polypropylene, or Polycarbonate. Nut colors include Black, red, and blue.</p>	
	<p>MLLRF Male Luer Swivel by Female Luer</p>
	<p>MLLRM Male Luer Swivel Connector</p>
	<p>MLEF Male Luer Swivel by Female Luer MLEM Male Luer Swivel by Male Luer Swivel</p>
	<p>MLLFMTR Male Luer Swivel/Female Luer/Male Luer Swivel</p>
	<p>MLLFFTR Male Luer SWIVEL/ Female LUER/ Female Luer</p>

Filtered Luers see Page 110



MLLR-1428

Male luer swivel by 1/4-28 bottom seal thread in Nylon or Polypropylene. 10-32 or 1/4-18 NPT

MLLR-MG

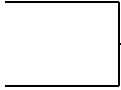
Male swivel by ultimate Barb. Color coded ring. Available White, Black, blue, green, red, or yellow. Large bore luers 3/16, 1/4 and 5/16 barbs.


















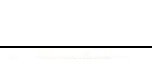







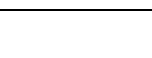
















MLLR-16	Male Luer Swivel by 1/16 Barb
MLLR-332	Male Luer Swivel by 3/32 Barb
MLLR-125	Male Luer Swivel by 1/8 Barb
MLLR-532	Male Luer Swivel by 5/32 Barb
MLLR-316	Male Luer Swivel by 3/16 Barb
MLLR-250	Male Luer Swivel by 1/4 Barb

J Luers

Nickel plated brass standard with 303, 316 stainless steel optional (SS). Pre-tested at 45 psi, passivated. Knurled hub is standard. For use with flexible and rigid tubing.

standard Barb OD	
FOR 1/16 ID Tubing the Barb size IS .085 with .03 Thru Hole	 <p>Barb size CHANGES BUT the Thru Hole IS the SAME</p>
FOR 3/32 ID Tubing the Barb size IS .125 with .062 Thru Hole	
FOR 1/8 ID Tubing the Barb size IS .175 with .093 Thru Hole	
For .170 ID Tubing the Barb size IS .218 with .093 Thru Hole	
FOR 3/16 ID Tubing the Barb size IS .240 with .093 Thru Hole	
FOR 1/4 ID Tubing the Barb size IS .272 with .093 Thru Hole	
FOR 5/16 ID Tubing the Barb size IS .343 with .101 Thru Hole	

      	JMLLB-1 MLL by 1/16 Barb JMLLB-332 MLL by 3/32 Barb SS JMLLB-2 MLL by 1/8 Barb JMLLB-170 MLL by .170 Barb SS JMLLB-3 MLL by 3/16 Barb JMLLB-4 MLL by 1/4 Barb JMLLB-5 MLL by 5/16 Barb SS	      	JFLB-1 1/16 .085 JFLB-332 3/32 .125 SS JFLB-2 1/8 .175 JFLB-170 .170 .218 SS JFLB-3 3/16 .240 JFLB-4 1/4 .272 JFLB-5 5/16 .343 SS Stainless Steel IS Square HUB
      	JMMLM-1032 MLL by 10-32 SS JMMLM-14-28 MLL by 1/4-28 SS JMMLM-14-32 MLL by 1/4-32 SS JMMLM-51628 MLL by 5/16-28 NP Only JMMLM-1M MLL by 1/16 NPT NP Only JMMLM-2M MLL by 1/8 NPT SS JMMLM-4M MLL by 1/4 NPT SS		JMMLM-1032 ML by 10-32 SS JMMLM-2M ML by 1/8 NPT SS JMMLM-4M ML by 1/4 NPT SS
    	JFLLM-1032 FLL by 10-32 SS JFLLM-14-32 FLL by 1/4-32 SS JFLLM-14-28 FLL by 1/4-28 SS JFLLM-2M FLL by 1/8 NPT SS JFLLM-4M FLL by 1/4 NPT NP Only	 	JMMLF-1032 MLL by 10-32F SS JMMLF-2F MLL by 1/8 FNPT NP Only
 	JFLLF-10-32 FLL by 10-32F NP Only JFLLF-14-32 FLL by 1/4-32F NP Only	 	JFLL MLL FLL by MLL SS JFL LML FLL by ML NP Only


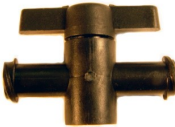
	JML	Male Luer	SS		JFLL	Female Luer Lock	SS
	JMLL	Male Luer Lock	SS				
	JMLP	KNURLED or PLAIN			JMLLP		
	JBMLL-16	MLL Bulkhead by .085 Barb	SS				
	JBMLL-332	MLL Bulkhead by .125 Barb	SS				
	JBMLL-18	MLL Bulkhead by .195 Barb	SS				
	JBML-16	ML Bulkhead by .085 Barb	SS				
	JBML-332	ML Bulkhead by .125 Barb	SS				
	JBML-18	ML Bulkhead by .195 Barb	SS				

STOPCOCKS

PSC Series
Polyethylene stopcocks for low pressure applications.



PSC-6B 3/8 PE Stopcock
PSC-8B 1/2 PE Stopcock

Polycarbonate High Flow 4-Way Luer Stop Cocks		  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> 2 way and 4 way luer locks PC, and PVDF </div>	Polycarbonate High Flow 2-Way Luer Stop Cocks	
AVAILABLE IN PVDF				
HFSC-4-MFF-PC	M x F x F		HFSC-2-MM-PC	M x M
HFSC-4-MMM-PC	M x M x M		HFSC-2-MF-PC	M x F
HFSC-4-FMF-PC	F x M x F		HFSC-2-FF-PC	F x F
HFSC-4-FFF-PC	F x F x F		HFSC-2-MSM	M Slip x M
HFSC-4-MMF-PC	M x M x M			
HFSC-4-MSFF-PC	M Slip x F x F			

NPSC Series
Stop cocks Available in barbs and luers.



NPSC-2M2M 1/8 Male x 1/8 Male Connection

DISS Fittings AVAILABLE IN Plastic, Brass, and NICKEL PLATED Brass: 9/16-18 Thread with BALL SEAT for USE with AIR or GAS LINES: COLOR CODED for USE with NITROUS OXIDE and NITROGEN. Check Valves AVAILABLE IN NICKEL PLATED Brass. ALSO 3/4-16 and 7/8-18 PLATED Brass.

	9/16-18 Male to 1/4 NPT		9/16-18 Female by 1/4 or 3/8 Barb Nylon DF-91614B DF-91638B
	9/16-18 Male to 1/4 or 3/8 Barb DM-91614B ALSO AVAILABLE with A 3/16 Barb Elbow		ALSO AVAILABLE 9/16-18 Female by 1/4 or 3/8 Barb Elbow 9/16-18 Female to 9/16 Male

BULKHEADS

**All bulkheads are listed showing the outside panel first then the inside panel.
ie. The retaining nut resides on the inside of the panel for standard safety.**

BHUCD

The BHUCD Series Bulkheads are Manufactured by Pneuline Supply, Inc. in-house and offer a unique flattened side for a Greenlee D punch, thus avoiding the possibility for the Bulkhead to turn. Bulkheads are assigned sizes from the outside of the panel to the inside. Available in 1/8", 1/4", 3/8" and 1/2" Hose Barb sizes, or any combination. The 3/8" panel fitting does not have a flattened side. Materials available are Nylon, Polypropylene, Polyethylene, and PVDF. Thread sizes are 1/2-24" with Zinc plated nuts for Nylon fittings and on the 1/2" sizes a 1 1/16-24" with Nylon nuts for Polypropylene, or PVDF fittings.



BHUCD-2B2B-BN	1/8 inch Barb by 1/8 inch Barb Black Nylon Bulkhead
BHUCD-2B2B-N	1/8 inch Barb by 1/8 inch Barb Nylon Bulkhead
BHUCD-2B4B-BN	1/8 inch Barb by 1/4 inch Barb Black Nylon Bulkhead
BHUCD-2B4B-N	1/8 inch Barb by 1/4 inch Barb Nylon Bulkhead
BHUCD-2B4B-NK	1/8 inch Barb by 1/4 inch Barb PVDF Bulkhead
BHUCD-3BR-PP	3/16 inch Modified Polypropylene Bulkhead
BHUCD-4B170-PP	1/4 inch Barb by .170 Barb Nylon Bulkhead
BHUCD-4B2B-PP	1/4 inch by 1/8 inch Polypropylene Bulkhead
BHUCD-4B4B-BK-PP	1/4 inch by 1/4 inch Black Polypropylene Bulkhead
BHUCD-4B4B-BN	1/4 inch by 1/4 inch Black Nylon Bulkhead
BHUCD-4B4B-BNK-N	1/4 inch ID by 1/4 inch ID Black Nylon Bulkhead
BHUCD-4B4B-N	1/4 inch Barb by 1/4 inch Barb Nylon Bulkhead
BHUCD-4B4B-NK	1/4 inch Barb by 1/4 inch Barb PVDF Bulkhead
BHUCD-4B4B-NKZ	1/4 inch Barb PVDF Bulkhead with Zinc Nut
BHUCD-4B4B-PP	1/4 inch Barb Natural Polypropylene Bulkhead
BHUCD-4B6B-BN	1/4 inch Barb by 3/8 inch Barb Black Nylon Bulkhead
BHUCD-4B6B-N	1/4 inch Barb by 3/8 inch Barb Nylon Bulkhead
BHUCD-4B6B-PP	1/4 inch Barb by 3/8 inch Barb Polypropylene Bulkhead
BHUCD-6B170B	3/8 inch Barb by .170 Barb Bulkhead
BHUCD-6B170B-N	3/8 inch Barb by .170 Barb Nylon Bulkhead
BHUCD-6B2B	3/8 inch Barb by inch 1/8 Nylon Bulkhead
BHUCD-6B2B-N	3/8 inch Barb by 1/8 inch Barb Nylon Bulkhead
BHUCD-6B2B-PP	3/8 inch Barb by 1/8 inch Barb Black Polypropylene Bulkhead
BHUCD-6B4B-N	3/8 inch Barb by 1/4 inch Barb Nylon Bulkhead
BHUCD-6B6B-AC	3/8 inch Barb by 3/8 inch Barb Acetal Bulkhead
BHUCD-6B6B-BN	3/8 inch Barb by 3/8 inch Barb Black Nylon Bulkhead
BHUCD-6B6B-N	3/8 inch Barb Nylon Bulkhead
BHUCD-6B6B-PP	3/8 inch Barb by 3/8 inch Barb Polypropylene Bulkhead
BHUCD-8B170B	1/2 inch Barb by .170 Barb Bulkhead
BHUCD-8B170B-N	1/2 inch Barb by .170 Barb Nylon Bulkhead



**Custom Bulkheads,
Tees, Male Luers, and
Female Luers**

BHUC

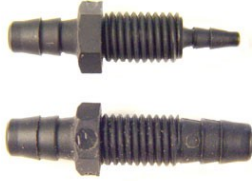
This is a panel mountable bulkhead with both ends barbed. The barb sizes are 1/8", 1/4" and 3/8". The panel mounting threads are 1/2-24". The bulkheads are made of Acetal and have a temperature range of -10°F to 150°F.

BHUC-2B	Bulkhead Union 1/8 Barb Acetal
BHUC-4B	Bulkhead Union 1/4 Barb Acetal
BHUC-6B	Bulkhead Union 3/8 Barb Acetal
BHUC-8B	Bulkhead Union 1/2 Barb Acetal
BHUC-8B-NK	Bulkhead Union 1/2 Barb PVDF
BHUC-8B-PP	Bulkhead Union 1/2 Barb Polypropylene



PC-IG

Reducing and straight bulkheads made of Black and White Nylon and Gray Polypropylene. Barb sizes are 1/16", 1/8" and .170" ID tubing. The external threads for panel mounting are 1/4-28" and a nut is supplied. The maximum supply pressure is 125 psi and the working temperature ranges are: -50°F to 180°F for Nylon and -40°F to 200°F for Polypropylene.



PC-IG-170B-BN	.170 Barb Black Nylon Bulkhead
PC-IG-170B-GYP	.170 Barb Gray Polypropylene Bulkhead
PC-IG-170B-WN	.170 Barb White Nylon Bulkhead
PC-IG-170BX1B-BN	.170 BY .062 Barb Black Nylon Bulkhead
PC-IG-170BX1B-GYP	.170 BY .062 Barb Gray Polypropylene Bulkhead
PC-IG-170X1B-WN	.170 BY .062 Barb White Nylon Bulkhead
PC-IG-1B-BN	.062 Barb Black Nylon Bulkhead
PC-IG-1B-GYP	.062 Barb Gray Polypropylene Bulkhead
PC-IG-1B-WN	.062 Barb White Nylon Bulkhead
PC-IG-2B-BN	.125 Barb Black Nylon Bulkhead
PC-IG-2B-GYP	.125 Barb Gray Polypropylene Bulkhead
PC-IG-2B-WN	.125 Barb White Nylon Bulkhead
PC-IG-2BX1B-BN	.125 BY .062 Barb Black Nylon Bulkhead
PC-IG-2BX1B-GYP	.125 BY .062 Barb Gray Polypropylene Bulkhead
PC-IG-2BX1B-WN	.125 BY .062 Barb White Nylon Bulkhead

PC-S

This panel mount reduction Bulkhead is made of Animal Free Natural Polypropylene and White Nylon. The barb sizes are 1/16", 3/32", and 1/8". The panel mount connector sizes are: 10-32" and 1/4-28". A Nylon nut is standard but a Stainless Steel nut is optional.

PC-IG-170B-BN	.170 Barb Black Nylon Bulkhead
PC-IG-170B-GYP	.170 Barb Gray Polypropylene Bulkhead
PC-IG-170B-WN	.170 Barb White Nylon Bulkhead
PC-IG-170BX1B-BN	.170 BY .062 Barb Black Nylon Bulkhead
PC-IG-170BX1B-GYP	.170 BY .062 Barb Gray Polypropylene Bulkhead
PC-IG-170X1B-WN	.170 BY .062 Barb White Nylon Bulkhead
PC-IG-1B-BN	.062 Barb Black Nylon Bulkhead
PC-IG-1B-GYP	.062 Barb Gray Polypropylene Bulkhead
PC-IG-1B-WN	.062 Barb White Nylon Bulkhead
PC-IG-2B-BN	.125 Barb Black Nylon Bulkhead
PC-IG-2B-GYP	.125 Barb Gray Polypropylene Bulkhead
PC-IG-2B-WN	.125 Barb White Nylon Bulkhead
PC-IG-2BX1B-BN	.125 BY .062 Barb Black Nylon Bulkhead
PC-IG-2BX1B-GYP	.125 BY .062 Barb Gray Polypropylene Bulkhead
PC-IG-2BX1B-WN	.125 BY .062 Barb White Nylon Bulkhead



MBR

This is a bulkhead with panel mounting UNF threads of 10-32 or 1/4-28. The first barb size is outside the panel, the second is on the inside. Barb sizes are 1/16", 3/32" and 1/8". Available materials are black Nylon, white Nylon, Polypropylene and PVDF. (order as BN, WN, PP, PVDF)



MBR10-1B332B	10-32 1/16 Barb by 3/32 Barb Bulkhead
MBR10-1B	10-32 1/16 Barb by 1/16 Barb Bulkhead
MBR10-332B	10-32 3/32 Barb by 3/32 Barb Bulkhead
MBR14-1B2B	1/4-28 1/16 Barb by 1/8 Barb Bulkhead
MBR14-2B	1/4-28 1/8 Barb by 1/8 Barb Bulkhead
MBR14-332B2B	1/4-28 3/32 Barb by 1/8 Barb Bulkhead

**BUNA WASHERS
AVAILABLE**

MBRL

Reduction Bulkheads with panel mountings of 10-32 and 1/4-28 UNF threads. The first barb size is the elbow on the outside of the panel. The second is on the inside of the panel. Available in Black Nylon and White Nylon, Polypropylene and PVDF. Barb sizes are 1/16", 3/32" and 1/8". (order as BN, WN, PP, PVDF)



MBRL-10-1B332B	10-32-1/16 L by 3/32 Bulkhead Elbow
MBRL-10-332B	10-32-3/32 L by 3/32 Bulkhead Elbow
MBRL-14-1B2B	1/4-28-1/16 L by 1/8 Bulkhead Elbow
MBRL-14-2B	1/4-28-1/8 L by 1/8 Bulkhead Elbow
MBRL-14-332B2B	1/4-28-3/32 L by 1/8 Bulkhead Elbow

**BUNA WASHERS
AVAILABLE**

MBF

These are bulkheads with panel mountings of 5/16-24 UNF threads, 1/8" and 1/4" NPS threads and a mounting flange. The first barb size is outside the panel, the second on the inside. Available in Black Nylon, Natural Nylon, Polypropylene and PVDF. Barb sizes are 1/16", 3/32", 1/8", 3/16", 5/32" and 1/4". (order as BN, NN, PP, PVDF)

MBF2-1B3B	1/8 NPS-1/16 by 3/16 Bulkhead
MBF2-1B4B	1/8 NPS-1/16 by 1/4 Bulkhead
MBF2-2B3B	1/8 NPS-1/8 by 3/16 Bulkhead
MBF2-2B4B	1/8 NPS-1/8 by 1/4 Bulkhead
MBF2-3323B	1/8 NPS-3/32 by 3/16 Bulkhead
MBF2-3B	1/8 NPS-3/16 by 3/16 Bulkhead
MBF2-3B4B	1/8 NPS-3/16 by 1/4 Bulkhead
MBF2-4B	1/8 NPS-1/4 by 1/4 Bulkhead
MBF2-532B3B	1/8 NPS-5/32 by 3/16 Bulkhead
MBF2-532B4B	1/8 NPS-5/32 by 1/4 Bulkhead
MBF4-1B3B	1/4 NPS-1/16 by 3/16 Bulkhead
MBF4-1B4B	1/4 NPS-1/16 by 1/4 Bulkhead
MBF4-2B3B	1/4 NPS-1/8 by 3/16 Bulkhead
MBF4-2B4B	1/4 NPS-1/8 by 1/4 Bulkhead
MBF4-332B3B	1/4 NPS-3/32 by 3/16 Bulkhead
MBF4-332B4B	1/4 NPS-3/32 by 1/4 Bulkhead
MBF4-3B4B	1/4 NPS-3/16 by 1/4 Bulkhead
MBF4-3B	1/4 NPS-3/16 by 3/16 Bulkhead
MBF4-4B4B	1/4 NPS-1/4 by 1/4 Bulkhead
MBF4-4B516B	1/4 NPS-1/4 by 5/16 Bulkhead
MBF4-4B6B	1/4 NPS-1/4 by 3/8 Bulkhead
MBF4-516B6B	1/4 NPS-5/16 by 3/8 Bulkhead
MBF4-532B3B	1/4 NPS-5/32 by 3/16 Bulkhead
MBF4-532B4B	1/4 NPS-5/32 by 1/4 Bulkhead
MBF4-5B5B	1/4 NPS-5/16 by 5/16 Bulkhead
MBF4-6B6B	1/4 NPS-3/8 by 3/8 Bulkhead
MBF516-1B332B	5/16-24 UNF 1/16 by 3/32 Bulkhead
MBF516-1B3B	5/16-24 UNF 1/16 by 3/16 Bulkhead
MBF516-2B3B	5/16-24 UNF 1/8 by 3/16 Bulkhead
MBF516-2B532B	5/16-24 UNF 1/8 by 3/32 Bulkhead
MBF516-332B3B	5/16-24 UNF 3/32 by 3/16 Bulkhead
MBF516-332B532B	5/16-24 UNF 3/32 by 5/32 Bulkhead
MBF516-3B	5/16-24 UNF 3/16 by 3/16 Bulkhead
MBF516-532	5/16-24 UNF 5/32 by 5/32 Bulkhead
MBF516L-316	5/16-24 Long Bulkhead 3/16 Bulkhead
MBF516L-532	5/16-24 Long Bulkhead 5/32 Bulkhead



APBH

This barbed Bulkhead is made of Polypropylene and is autoclavable. The sizes available are 1/4" and 1/2". They are supplied with an EPDM gasket and Nylon nut.

APBH-12B	1/2 Barbed White Polypropylene Bulkhead
APBH-14B	1/4 Barbed White Polypropylene Bulkhead



MBFL

These are equal and reducing Bulkhead elbows with a flange. Panel mounting of UNF or NPS threads. First Barb size is on the outside of the panel. The second is inside the panel. Available in Nylon, Polypropylene and PVDF. Thread sizes available are: UNF 10-32, 1/4-28 and 5/16-24. NPS thread sizes are: 1/8" and 1/4". Barb sizes are: 3/32", 1/16", 3/16" 1/8", 5/32" and 1/4". (order as NN, PP, PVDF)



MBFL-10-332B332B	10-32 3/32 Barb by 3/32 Barb Bulkhead Elbow
MBFL-14-2B2B	1/4-28 1/8 Barb by 1/8 Barb Bulkhead Elbow
MBFL-2M-4B	1/8 NPS 1/4 by 1/4 Bulkhead Elbow
MBFL-4M-4B	1/4 NPS 1/4 by 1/4 Bulkhead Elbow
MBFL-516-2B	5/16-24 1/8 Bulkhead Elbow
MBFL-516-532	5/16-24 5/32 by 5/32 Bulkhead Elbow
MBFL-2M-3B4B	1/8 NPS 3/16 by 1/4 Bulkhead Elbow Reducer
MBFL-2M-532B4B	1/8 NPS 5/32 by 1/4 Bulkhead Elbow Reducer
MBFL-4M-2B4B	1/4 NPS 1/8 by 1/4 Bulkhead Elbow Reducer
MBFL-4M-332B4B	1/4 NPS 3/32 by 1/4 Bulkhead Elbow Reducer
MBFL-4M-532B4B	1/4 NPS 5/32 by 1/4 Bulkhead Elbow Reducer
MBFL-516-332B532B	5/16-24 3/32 by 5/32 Bulkhead Elbow Reducer

MPM

This is a tank mount Bulkhead adapter made of Nylon, Polypropylene, HDPE and PVDF. O-rings are available. Threads available are UNF 10-32 and 1/4-28. Barb sizes are 1/16", 3/32", 1/8" and 5/32". (order as NN, PP, HDPE, PVDF)

MPM-10-1	10-32 by 1/16 Bulkhead
MPM-10-2	10-32 by 1/8 Bulkhead
MPM-10-332	10-32 by 3/32 Bulkhead
MPM-10-532	10-32 by 5/32 Bulkhead
MPM-14-1	1/4-28 by 1/16 Bulkhead
MPM-14-2	1/4-28 by 1/8 Bulkhead
MPM-14-3	1/4-28 by 3/16 Bulkhead
MPM-14-332	1/4-28 by 3/32 Bulkhead
MPM-14-532	1/4-28 by 5/32 Bulkhead



MPML Elbow

This is a tank mount Bulkhead elbow adapter made of Nylon, Polypropylene, HDPE and PVDF. O-rings are available. Threads available are UNF 10-32 and 1/4-28. Barb sizes are 1/16", 3/32", 1/8" and 5/32". (order as NN, PP, HDPE and PVDF)



MPML10-1	10-32 by 1/16 inch Bulkhead Elbow
MPML10-2	10-32 by 1/8 inch Bulkhead Elbow
MPML10-332	10-32 by 3/32 inch Bulkhead Elbow
MPML-14-1	1/4-28 by 1/16 inch Bulkhead Elbow
MPML-14-2	1/4-28 by 1/8 inch Bulkhead Elbow
MPML-14-332	1/4-28 by 3/32 inch Bulkhead Elbow
MPML-14-532	1/4-28 by 5/32 inch Bulkhead Elbow

PMF

This Bulkhead is tank mountable with a flange. It is available in Nylon, Black Nylon, Polypropylene, HDPE and PVDF. UNF thread sizes are: 5/16-24, 10-32 and 1/4-28. The NPS sizes are 1/8" and 1/4". Barb sizes are: 5/32", 3/16", 1/4", 1/16" and 1/8". (order as NN, BN, PP, HDPE, PVDF) O-Rings available.



PMF1428-2B	1/4-28 1/8 Barb Bulkhead Tank Flange
PMF2M-1	1/8 NPS-1/16 Bulkhead Tank Flange
PMF2M-2	1/8 NPS-1/8 Bulkhead Tank Flange
PMF2M-332	1/8 NPS-3/32 Bulkhead Tank Flange
PMF2M-3	1/8 NPS-3/16 Bulkhead Tank Flange
PMF2M-4	1/8 NPS-1/4 Bulkhead Tank Flange
PMF4M-1	1/4 NPS-1/16 Bulkhead Tank Flange
PMF4M-2	1/4 NPS-1/8 Bulkhead Tank Flange
PMF4M-332	1/4 NPS-3/32 Bulkhead Tank Flange
PMF4M-3	1/4 NPS-3/16 Bulkhead Tank Flange
PMF4M-4	1/4 NPS-1/4 Bulkhead Tank Flange
PMF4M-532	1/4 NPS-5/32 Bulkhead Tank Flange
PMF4M-5	1/4 NPS-5/16 Bulkhead Tank Flange
PMF4M-6	1/4 NPS-3/8 Bulkhead Tank Flange
PMF4M-8	1/4 NPS-1/2 Bulkhead Tank Flange
PMF516-1	5/16-24 by 1/16 Bulkhead Tank Flange
PMF516-2	5/16-24 by 1/8 Barb Bulkhead Tank Flange
PMF516-332	5/16-24 by 3/32 Bulkhead Tank Flange
PMF516-3	5/16-24 by 3/16 Bulkhead Tank Flange
PMF516-4	5/16-24 by 1/4 Bulkhead Tank Flange
PMF516-532	5/16-24 by 5/32 Bulkhead Tank Flange

PMFL

This Bulkhead elbow is tank mountable with a flange. It is available in Nylon, Black Nylon, Polypropylene, HDPE and PVDF. UNF thread size is 5/16-24. The NPS sizes are 1/8" and 1/4". Barb sizes are: 5/32", 3/32", 3/16", 1/4", 1/16" and 1/8". (order as NN, BN, PP, HDPE, PVDF)

PMFL2M-1	1/8 NPS-L 1/16 Tank Flange Elbow
PMFL2M-2	1/8 NPS-L 1/8 Tank Flange Elbow
PMFL2M-332	1/8 NPS-L 3/32 Tank Flange Elbow
PMFL2M-3	1/8 NPS-L 3/16 Tank Flange Elbow
PMFL2M-4	1/8 NPS-L 1/4 Tank Flange Elbow
PMFL4M-1	1/4 NPS-L 1/16 Tank Flange Elbow
PMFL4M-2	1/4 NPS-L 1/8 Tank Flange Elbow
PMFL4M-332	1/4 NPS-L 3/32 Tank Flange Elbow
PMFL4M-3	1/4 NPS-L 3/16 Tank Flange Elbow
PMFL4M-4	1/4 NPS-L 1/4 Tank Flange Elbow
PMFL4M-532	1/4 NPS-L 5/32 Tank Flange Elbow
PMFL516-1	5/16-24L 1/16 Tank Flange Elbow
PMFL516-2	5/16-24L 1/8 Tank Flange Elbow
PMFL516-332	5/16-24L 3/32 Tank Flange Elbow



**O-Rings and Washers
Available**

Need a Custom Bulkhead?



1/8 MNPT by 1/16 to 1/4 Barb

NBBH

This Bulkhead is made in Nylon, Black Nylon or Black Polypropylene. It is available as a straight connector or as elbows, tees and crosses. Round, square or hex nuts are available. The thread size is 1 1/16 and the barb sizes are: 3/8", 1/2", 3/4", 1/4", 5/16" and 5/8". (order as NN, BN, BP)



NBBH-12	1 1/16 Thread by 1/2 Barb Bulkhead
NBBH-12C	1 1/16 Thread by 1/2 Barb Bulkhead Cross
NBBH-12L	1 1/16 Thread by 1/2 Barb Bulkhead Elbow
NBBH-12T	1 1/16 Thread by 1/2 Barb Bulkhead Tee
NBBH-14L	1 1/16 Thread by 1/4 Barb Bulkhead Elbow
NBBH-34	1 1/16 Thread by 3/4 Barb Bulkhead
NBBH-34C	1 1/16 Thread by 3/4 Barb Bulkhead Cross
NBBH-34L	1 1/16 Thread by 3/4 Barb Bulkhead Elbow
NBBH-34T	1 1/16 Thread by 3/4 Barb Bulkhead Tee
NBBH-38	1 1/16 Thread by 3/8 Barb Bulkhead
NBBH-38C	1 1/16 Thread by 3/8 Barb Bulkhead Cross
NBBH-38L	1 1/16 Thread by 3/8 Barb Bulkhead Elbow
NBBH-38T	1 1/16 Thread by 3/8 Barb Bulkhead Tee
NBBH-516L	1 1/16 Thread by 5/16 Barb Bulkhead Elbow
NBBH-58L	1 1/16 Thread by 5/8 Barb Bulkhead Elbow

BHF

This Bulkhead is made of Black Polypropylene – 20% Glass Filled Polypropylene with Santoprene gasket. Female threads are 1/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 3" and 4". Replacement gaskets are available.

BHF-1	1 inch FNPT Polypropylene Bulkhead
BHF-1 1/2	1-1/2 inch FNPT Polypropylene Bulkhead
BHF-1 1/4	1-1/4 inch FNPT Polypropylene Bulkhead
BHF-12	1/2 FNPT Polypropylene Bulkhead
BHF-2	1/8 FNPT Polypropylene Bulkhead
BHF-3	3 inch FNPT Polypropylene Bulkhead
BHF-34	3/4 FNPT Polypropylene Bulkhead
BHF-4	4 inch FNPT Polypropylene Bulkhead



PBHI

These Bulkheads are made of Nylon and Black Polypropylene Buna-N or EPDM gaskets and Polyethylene friction washers. Female NPT available sizes in Black Polypropylene are: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3" and 4". In Nylon the available sizes are: 1/2" and 3/4". All materials are FDA approved.



PBHI-1 1/2-PP-E	1-1/2 inch FNPT Black Polypropylene Bulkhead EPDM
PBHI-1 1/4-PP-E	1-1/4 inch FNPT Black Polypropylene Bulkhead EPDM
PBHI-12NN-B	1/2 inch FNPT Nylon Bulkhead Buna-N
PBHI-12NN-E	1/2 inch FNPT Nylon Bulkhead EPDM
PBHI-12PP-B	1/2 inch FNPT Black Polypropylene Bulkhead Buna-N
PBHI-12PP-E	1/2 inch FNPT Black Polypropylene Bulkhead EPDM
PBHI-1PP-E	1 inch FNPT Black Polypropylene Bulkhead EPDM
PBHI-2-PP-E	2 inch FNPT Black Polypropylene Bulkhead EPDM
PBHI-34-NN-B	3/4 inch FNPT Natural Nylon Bulkhead Buna-N
PBHI-34-NN-E	3/4 inch FNPT Natural Nylon Bulkhead EPDM
PBHI-34PP-B	3/4 inch FNPT Black Polypropylene Bulkhead Buna-N
PBHI-34PP-E	3/4 inch FNPT Black Polypropylene Bulkhead EPDM
PBHI-3-PP-E	3 inch FNPT Black Polypropylene Bulkhead EPDM

FPBH

These Bulkheads are made of Polypropylene with EPDM gaskets. Female NPT by Female NPT available sizes are: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3" and 4". These have an extra-long design for thicker tank walls. They have left-hand threads, an oversized flange base and full-buttress threads. The maximum pressure is 150 psi and the temperature range is 40°F to 200°F. The through hole size is 1.38".



- FPBH-12F 3/4 inch Female Natural Polypropylene Bulkhead
- FPBH-16F 1 inch Female Natural Polypropylene Bulkhead
- FPBH-20F 1-1/4 inch Female Natural Polypropylene Bulkhead
- FPBH-24F 1 1/2 inch Female Natural Polypropylene Bulkhead
- FPBH-32F 2 inch Female Natural Polypropylene Bulkhead
- FPBH-48F 3 inch Female Natural Polypropylene Bulkhead
- FPBH-64F 4 inch Female Natural Polypropylene Bulkhead
- FPBH-8F 1/2 inch Female Natural Polypropylene Bulkhead

FTBH

These Bulkheads are made of PTFE with PFA encapsulated O-Rings. Female NPT by Female NPT available sizes are: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3" and 4". They may be used on tank walls up to 1/2" and the 4" can be used on walls up to 1" thick. The maximum temperature is 500°F. Buttress threads prevent leakage.

- FTBH-12F 3/4 inch Female Bulkhead PTFE
- FTBH-16F 1 inch Female Bulkhead PTFE
- FTBH-20F 1-1/4 inch Female Bulkhead PTFE
- FTBH-24F 1-1/2 inch Female Bulkhead PTFE
- FTBH-32F 2 inch Female Bulkhead PTFE
- FTBH-48F 3 inch Female Bulkhead PTFE
- FTBH-4F 1/4 inch Female Bulkhead PTFE
- FTBH-64F 4 inch Female Bulkhead PTFE



DBH

This Bulkhead is made of brass with barbed connectors. The barb sizes are 1/4" and 3/8". This tube fitting is low-pressure and for use with air and water. The maximum pressure is 100 psi at 72°F.



- DBH-170 .170 Brass Bulkhead
- DBH-250 .250 Brass Bulkhead

EBH

This Bulkhead is made of brass with single barbed connectors. The Barb sizes are 3/8", 5/16" and 1/4".

- EBH-4F5B 1/4 inch Female NPT by 1/16 inch Barbed Brass Bulkhead
- EBH-5B 5/16 Barbed Brass Bulkhead
- EBH-5B6B 5/16 inch by 3/8 inch Barbed Brass Bulkhead
- EBH-6B 3/8 inch Barbed Bulkhead Brass Bulkhead



BB

These equal and reducing Bulkheads are made of Brass with bite style barbed connectors. The UNF thread sizes are: 10-32", 1/4-28", 5/16-24" and 3/8-24". The barb sizes are: .170", 3/32", 1/16", .078", 1/8", 3/8", 3/16". There are also NPT sizes 1/8" and 1/16". FKM O-rings are available as well as Stainless Steel bulkheads.



BB-10-170B078B	10-32 by .170 by .078 Barb Brass Reducing Bulkhead
BB-10-170B332B	10-32 by .170 by 3/32 Barb Brass Reducing Bulkhead
BB-10-1B	10-32 by 1/16 Barb Brass Bulkhead
BB-10-2B1B	10-32 by 1/8 by 1/16 Barb Brass Reducing Bulkhead
BB-10-332B	10-32 by 3/32 Barb Brass Bulkhead
BB-10-332B1B	10-32 by 3/32 by 1/16 Barb Brass Reducing Bulkhead
BB-10-332B1B-NP	10-32 by 3/32 by 1/16 Barb Nickel Plated Bulkhead
BB-14-2B	1/4-28 by 1/8 Barb Brass Bulkhead
BB-14-6B1B	1/4-28 by 3/8 by 1/16 Barb Brass Reducing Bulkhead
BB-14-O-2B	1/4-28 by 1/8 Barb Brass Reducing Bulkhead O-ring
BB-1M-5B332B	1/16 NPT 5/16 by 3/32 Barb Brass Reducing Bulkhead
BB-2M-5B332B	1/8 NPT 5/16 by 3/32 Barb Brass Reducing Bulkhead
BB-2M-6B4B	1/8 NPT 3/8 by 1/4 Barb Brass Reducing Bulkhead
BB-38-3B-SS	3/8-24 3/16 Barb 303 Stainless Bulkhead
BB-38-4B	3/8-24 1/4 Barb Brass Bulkhead
BB-38-4B-170B	3/8-24 by 1/4 by .170 Barb Brass Reducing Bulkhead
BB-38-4B-170B-SS	3/8-24 by 1/4 by .170 Barb Stainless Steel Bulkhead
BB-38-4B-3B	3/8-24 by 1/4 by 3/16 Barb Brass Reducing Bulkhead
BB-38-4B-NP	3/8-24 by 1/4 Barb Brass Nickel Plated Bulkhead
BB-38-4B-SS	3/8-24 by 1/4 Barb 303 Stainless Bulkhead
BB-38-6B1B	3/8-24 by 3/8 by 1/16 Barb Brass Reducing Bulkhead
BB-38-6B2DB	3/8-24 by 3/8 by 1/8 Double Barb Brass Reducing Bulkhead
BB-38-6B2DB-020	3/8-24 by 3/8 by 1/8 Double Barb, 020 Orifice Brass Reducing Bulkhead
BB-38-6B4B	3/8-24 by 3/8 by 1/4 Barb Brass Reducing Bulkhead
BB-516-170532	5/16-24 by .170 by 5/32 Barb Brass Reducing Bulkhead
BB-516-170732	5/16-24 by .170 by .732 Barb Brass Reducing Bulkhead
BB-516-170B	5/16-24 by .170 Barb Bulkhead
BB-516-3B1B	5/16-24 by 3/16 by 1/16 Barb Brass Reducing Bulkhead
BB-516-532B	5/16-24 by 5/32 Barb Bulkhead

BBE

These Bulkhead elbows are made of Brass with bite style barbed connectors. The UNF thread sizes are: 10-32", 1/4-28", 5/16-24" and 3/8-24". The barb sizes are: .170", 3/32", 1/16", .078", 1/8", 3/8", 3/16" and 5/32."

BBE10-1B	10-32 by 1/16 inch Barbed Elbow Bulkhead
BBE10-332B	10-32 by 3/32 inch Barbed Elbow Bulkhead
BBE10-78B	10-32 by .078 inch Barbed Elbow Bulkhead
BBE14-170B	1/4-28 by .170 inch Barbed Elbow Bulkhead
BBE14-2B	1/4-28 by 1/8 inch Barbed Elbow Bulkhead
BBE14-532B	1/4-28 by 5/32 inch Barbed Elbow Bulkhead
BBE38-4B	3/8-24 by 1/4 inch Barbed Elbow Bulkhead
BBE516-170B	5/16-24 by .170 inch Barbed Elbow Bulkhead
BBE516-2B	5/16-24 by 1/8 inch Barbed Elbow Bulkhead
BBE516-532B	5/16-24 by 5/32 inch Barbed Elbow Bulkhead



FCBH

These Bulkhead fittings are made of Brass with internal mounting threads of 1/8" NPT to 3/4-20 and 1/4" NPT to 3/4-20. With the furnished 7/8" locking nut and 2 steel lock washers, this fitting provides a rigid connection through panels or bulkheads up to 1/2" thick. The 10-32 to 15/32-32 fitting can connect thru panels or bulkheads up to 1/4" thick. The furnished nut and lock washers are 9/16". The 1/4" and 1/8" fittings measure 1" in length, the 10-32 measures 1/2".



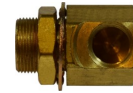
- FCBH-1032 10-32 Female UNF by 15/32-32 Brass Bulkhead Fitting
- FCBH-14 1/4 FNPT by 3/4-20 Brass Bulkhead Fitting
- FCBH-18 1/8 FNPT by 3/4-20 Brass Bulkhead Fitting

FBH

These male, female and combination Bulkhead fittings and elbows are made of Brass and Steel. The straight fitting sizes are: FNPT 1/8", 1/4", 3/8", 1/2" and 1" by UNS 1/4", 3/8", 1/2", 5/8" and 3/4". The elbow is a 90° angle with 3/8" NPFT Male and 3/8" NPFT Female threads.



- FBH-12F 1/2 Female NPT 1-1/8-14 UNS
- FBH-12F12M 1/2 Female by 1/2 Male
- FBH-12M 1/2 Male by 1/2 Male
- FBH-12M14F 1/2 Male 1/4 Female
- FBH-12M38F 1/2 Male 3/8 Female
- FBH-14F 1/4 Female 3/4-16 UNF
- FBH-14X 1/4 Female 3/4-16 UNF 1-1/2 length
- FBH-18F 1/8 Female 5/8-18 UNF
- FBH-38F 3/8 Female 1/14 UNF
- FBH-38F12M 3/8 Female by 1/2 Male
- FBH-38F-E 3/8 Female by 3/8 Female Elbow



**ALSO AVAILABLE IN
ZINC PLATED
STEEL.**

DBN

This is a Brass Bulkhead with 10-32 UNF female threads and the hex nut has 1/8" NPT female threads. The overall size of the square body is 1/2".



- DBN-2F10F 1/8 FNPT by 10-32 Brass Bulkhead

LSSB

These Bulkheads are made of 316 Stainless Steel. The pieces are forged for mechanical strength and are suitable for low to high pressure. They are also suitable for corrosive and non-corrosive environments. The maximum working pressure is 150 psi, the temperature range is -20°F to 180°F. Available FNPT sizes are 1/8", 1/4", 3/8" and 1/2".

- LSSB-2 1/8 FNPT 316 Stainless Steel Bulkhead
- LSSB-4 1/4 FNPT 316 Stainless Steel Bulkhead
- LSSB-6 3/8 FNPT 316 Stainless Steel Bulkhead
- LSSB-8 1/2 FNPT 316 Stainless Steel Bulkhead



BLSS

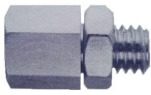
This is a 316 Stainless Steel tank flange body with nut. The double sided female sizes are 3/4", 1-1/2", 2", 2-1/2" and 3" NPT. They have a standard EPDM gasket but FKM are also available.



- BLSS-12 3/4 inch FNPT 316 Stainless Steel Bulkhead
- BLSS-24 1 1/2 inch FNPT 316 Stainless Steel Bulkhead with EPDM Gasket
- BLSS-32 2 inch FNPT 316 Stainless Steel Bulkhead with EPDM Gasket
- BLSS-40 1-1/2 inch FNPT 316 Stainless Steel Bulkhead
- BLSS-48 3 inch FNPT 316 Stainless Steel Bulkhead with EPDM Gasket

CTBH

These Bulkheads are made of 303 Stainless Steel. The inlet sizes are Female 10-32 UNF and 1/8" and 1/4" MNPT. The outlet sizes are 1/8", 1/4" FNPT and 10-32 Female UNF. The maximum operating pressure for the 10-32 by 1/8", 1/8" by 1/4" and the 10-32 by 10-32 is 125 psi and for the 1/4" MNPT by 1/4" FNPT it is 4000 psi.



CTBH-10F18F	10-32 Female by 1/8 FNPT 303 Stainless Steel
CTBH-18M14F	1/8 MNPT by 1/4 FNPT 303 Stainless Steel Bulkhead
CTBH-10F10F	10-32 Female by 10/32 Female 303 Stainless Steel Bulkhead
CTBH-14M14F	1/4 MNPT by 1/4 FNPT 303 Stainless Steel Bulkhead

MSSB

This is a 303 Stainless Steel Bulkhead bushing with Male 3/8-24 UNF threads, a 10-32 through hole, a 7/16" hex and is 1/2" in length. A lock nut and washer is included.

MSSB-6F-303

3/8-24 UNF Female 303 Stainless Steel Bulkhead



CHECK VALVES

VC-IG

These miniature Check Valves for low pressure applications are made of Polypropylene and Polysulfone. The Polypropylene has only a Silicone disc while the Polysulfone can have Silicone and Celcon discs. They have straight ports for 1/16" ID tubing, 10-32 UNF female threads and barbs for 1/16" and 1/8" ID tubing.

Reverse flow at 1 psi is as follows:

Polypropylene with silicone: .20 SCIM

Polysulfone with POM: 2.98 SCIM

Polysulfone with POM: 1.00 SCIM R2

Polysulfone with silicone: .20 SCIM

Polysulfone with silicone: .06 SCIM 10-32 female ports only

Maximum pressure is 10 psi, except for the 10-32 port which is rated for 75 psi



VC-IG-1032F-PSS	1032 Female PS Silicon Check Valve
VC-IG-1B-PPS	1/16 Barb PP Silicone Check Valve
VC-IG-1B-PSC R2	1/16 Barb PS Celcon Check Valve
VC-IG-1B-PSS	1/16 Barb PS Silicone Check Valve
VC-IG-1S-PPS	1/16 Shaft PP Silicone Check Valve
VC-IG-1S-PSC	1/16 Shaft PS Celcon Check Valve
VC-IG-1S-PSC R2	1/16 Shaft PS Celcon Check Valve
VC-IG-1S-PSS	1/16 Shaft PS Silicone Check Valve
VC-IG-2B-PPS	1/8 Barb PP Silicone Check Valve
VC-IG-2B-PSC R2	1/8 Barb PS Celcon Check Valve
VC-IG-2B-PSS	1/8 Barb PS Silicone Check Valve

CMKV

These Check Valves are 1/8" MNPT to Barb sizes 1/8", 3/16", 1/4" and 3/8". The flow is thread to barb. They are available in PVDF and Polypropylene with FKM discs, Polycarbonate with Neoprene and Silicone discs and Nylon with Silicone and Neoprene discs.



CMKV-18B	1/8 MNPT by 1/8 Barb PVDF/FKM Check Valve
CMKV-14B-NS	1/8 MNPT by 1/4 Barb Nylon/Silicone Check Valve
CMKV-316B	1/8 MNPT by 3/16 Barb PVDF/FKM Check Valve
CMKV-316B-PV	1/8 MNPT by 3/16 Barb Poly/FKM Check Valve

LD Series

Pneuline Supply, Inc. manufactures these low pressure Lab Disconnects made from either Polyethylene or Polypropylene which are used in laboratories for vacuum applications, low pressure lines, water lines and inert gases. They connect various tubing sizes from 1/8 inch, 7/32 inch, 1/4 inch, and .170 ID tube lines. They can be purchased with a Viton® or EPDM disc Check Valve, or with a porous Polyethylene filter. A unique pick-up tube line assembly for use in drawing air or water from containers is also available.



LDCV-PP-E	Polypropylene with EPDM Lab Disconnect Check Valve
LDCV-PP-V	Polypropylene with Viton® Lab Disconnect Check Valve
LDCV-PE-E	Polyethylene with EPDM Lab Disconnect Check Valve
LDCV-PE-V	Polyethylene with Viton® Lab Disconnect Check Valve

CSP

These Check Valves are made of Polyethylene with a Neoprene disc for the 1/4" size and a Polyethylene disc for the 3/8" size. Maximum pressure is 20 psi.



CSP-14	1/4 Barb by 3/8 Barb ID Polypropylene Check Valve
CSP-38	3/8 Barb by 9/16 Barb ID Polypropylene Check Valve

CLV

Designed for laboratory use, these Check Valves are made of Polypropylene with a Buna-N disc. Maximum temperature is 212°F. Sizes available are 1/4" by 3/8" and 3/8" by 9/16".



CLV-38	1/4 Barb by 3/8 Barb ID Check Valve
CLV-916	3/8 Barb by 9/16 Barb ID Check Valve

MCV

These Check Valves are made of Black and White Nylon, Black PVDF and Black and White Polypropylene. Seal materials are Buna-N, EPDM, Viton®, Fluoroelastomer and Silicone with a 302 Stainless Steel spring and 316 Stainless Steel ball. The maximum operating pressure is 125 psi. and the maximum operating temperature is 140° F.

The barb inlet and outlet sizes are 1/8", 3/16" and 1/4". Outlets are also available with MNPT sizes 1/8" and 1/4" threads.



MCV-2B2M-PPV-2	1/8 Barb by 1/8 MNPT Polypro / Viton® 2 psi Check Valve
MCV-2B4B-PPE-1/2	1/8 Barb by 1/4 Barb Polypro / EPDM 1/2 psi Check Valve
MCV-2B4B-PPV-2	1/8 Barb by 1/4 MNPT Polypro / Viton® 2 psi Check Valve
MCV-2B-NB	1/8 Barb Nylon / Buna 1psi Check Valve
MCV-2B-NB-1	1/8 Barb Nylon / Buna 1psi Check Valve
MCV-2B-NB-1/2	1/8 Barb Nylon / Buna 1/2 psi Check Valve
MCV-2B-NV-1	1/8 Barb Nylon / FKM 1 psi Check Valve
MCV-2B-NV-1/2	1/8 Barb Nylon / FKM 1/2 psi Check Valve
MCV-2B-NV-O	1/8 Barb Nylon /FKM 1 psi Check Valve (No Spring)
MCV-2B-PPB-2	1/8 Barb Polypropylene / Buna 2 psi Check Valve
MCV-2B-PPE-1	1/8 Barb Polypropylene / EPDM 1 psi Check Valve
MCV-2BPPE-1/2	1/8 Barb Polypropylene / EPDM 1/2 psi Check Valve
MCV-2B-PPE-2	1/8 Barb Polypropylene / EPDM 2 psi Check Valve
MCV-2B-PPE-3	1/8 Barb Polypropylene / EPDM 3 psi Check Valve
MCV-2B-PPV-1/2	1/8 Barb Polypropylene / FKM 1/2 psi Check Valve
MCV-2B-PPV-2	1/8 Barb Polypropylene / FKM 2 psi Check Valve
MCV-2B-PPV-5	1/8 Barb Polypropylene / FKM 5 psi Check Valve
MCV-2B-PPV-H1	1/8 Barb Polypropylene / FKM 1 psi Hastelloy® Check Valve
MCV-2B-PPV-H-1/2	1/8 Barb Polypropylene / FKM 1/2 psi Hastelloy® Check Valve
MCV-3B-PPV-1/2	3/16 Barb Polypropylene / FKM 1/2 psi Check Valve
MCV-3B4B-PPE-3	3/16 Barb by 1/4 Barb Polypropylene / EPDM 3 psi Check Valve
MCV-3B4B-PPV-3	3/16 Barb by 1/4 Barb Polypropylene / FKM 3 psi Check Valve
MCV-3BNV3/16	Barb Nylon / FKM O-Ring Check Valve
MCV-3B-NV-1	3/16 Barb Nylon / FKM 1 psi Check Valve
MCV-3B-NV-1/2	3/16 Barb Nylon / FKM 1/2 psi Check Valve
MCV-3B-PPE	3/16 Barb Polypropylene / EPDM Check Valve
MCV-3B-PPE-1	3/16 Barb Polypropylene / EPDM 1 psi Check Valve
MCV-3B-PPE-1/2	3/16 Barb Polypropylene / EPDM .5 psi Check Valve
MCV-3B-PPE-2	3/16 Barb Polypropylene / EPDM 2 psi Check Valve
MCV-3B-PPV- H-1/2	3/16 Barb Polypropylene / FKM 1/2 psi Check Valve
MCV-3B-PPV-1	3/16 Barb Polypropylene / FKM 1 psi Check Valve
MCV-3B-PPV-3	3/16 Barb Polypropylene / FKM 3 psi Check Valve
MCV-4B3B-NB-2	1/4 Barb by 3/16 Barb Nylon / Buna 2 psi Check Valve
MCV-4B4B-PPV-1	1/4 Barb Polypropylene / FKM 1 psi Check Valve
MCV-4B-NV-1	1/4 Barb Nylon / FKM Seals 1 psi Check Valve
MCV-4B-NV-1/2	1/4 Barb Nylon / FKM Seals 1/2 psi Check Valve
MCV-4B-PPE	1/4 Barb Polypropylene / EPDM 1 psi Check Valve
MCV-4B-PPE-1/2	1/4 Barb Polypropylene / EPDM 1/2 psi Check Valve
MCV-4B-PPV-1/2	1/4 Barb Polypropylene / FKM 1/2 psi Check Valve

CVK

This is a natural PVDF male-by-male Check Valve. It has a 316 Stainless Steel spring and ball with an Viton® O-Ring. It has a 1 – 2.5 psi cracking pressure with a maximum operating pressure of 220 psi at 180° F. They are available with a Hastelloy spring and PTFE ball. Male NPT thread sizes are: 1/8", 1/4", 3/8" and 1/2".



CVK-2M	1/8 MNPT Check Valve PVDF
CVK-4M	1/4 MNPT Check Valve PVDF
CVK-6M	3/8 MNPT Check Valve PVDF
CVK-6M-HPTFE	3/8 MNPT Check Valve PVDF, Hastelloy®/PTFE/FKM
CVK-8M	1/2 MNPT Check Valve PVDF
CVK-8M-HPTFE	1/2 MNPT Check Valve PVDF, Hastelloy®/PTFE/FKM

SPC





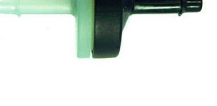

Check Valves made of PVC with 302 Stainless Steel spring and 306 Stainless Steel ball with EPDM seals. Nylon or Polypropylene materials are available. 1 psi spring is standard with optional 1/3, 3, 5, 7, 10 or 12 pound springs. Additionally available with Hastelloy spring, PTFE ball and FKM O-Rings for aggressive environments. 1 psi standard cracking pressure with 1/3, 1, 3, 5 or 12 pound Hastelloy springs available.



SPC-2B2B-PB-12	1/8 Barb Polypropylene / Buna 12 psi Check Valve
SPC-2B-PP-E-10	1/8 Barb Polypropylene / EPDM 10 psi Check Valve
SPC-2B-V-12	1/8 Barb Viton® with 12 Spring Check Valve
SPC-2C2C	1/8 Comp by 1/8 Comp Check Valve
SPC-2C2M-H-V	1/8 Comp by 1/8 MNPT Hastelloy® FKM Check Valve
SPC-2F2F	1/8 FNPT by 1/8 FNPT Check Valve
SPC-2F2F-HV	1/8 FNPT by 1/8 FNPT with Hastelloy® FKM Seals Check Valve
SPC-2M2M	1/8 MNPT by 1/8 MNPT Check Valve
SPC-2M4F-E	1/8 MNPT by 1/4 FNPT EPDM Seals Check Valve
SPC-4B2M-HV-12	1/4 Barb by 1/8 MNPT Hastelloy® FKM 12 psi Check Valve
SPC-4B2M-HV-3	1/4 Barb by 1/8 MNPT Hastelloy® FKM 3psi Check Valve
SPC-4B4B	1/4 Barb by 1/4 Barb Check Valve
SPC-4B4B-HV	1/4 Barb Hastelloy® FKM .5 psi Check Valve
SPC-4B4B-V-12	1/4 Barb FKM with 12 spring Check Valve
SPC-4B4M-VH	1/4 Barb by 1/4 MNPT FKM / Hastelloy® Check Valve
SPC-4B-V-12	1/4 Barb Viton® with 12 psi Spring Check Valve
SPC-4B-V-H-1	1/4 Barb PVC FKM PTFE / Hastelloy® 1 psi Check Valve
SPC-4C2M-H-V	1/4 Comp by 1/8 MNPT Hastelloy® FKM Check Valve
SPC-4C4C	1/4 Comp by 1/4 Comp Check Valve
SPC-4C4M-K-H-V	1/4 Comp 1/4 MNPT PVDF Hastelloy® FKM Check Valve
SPC-4F4F	1/4 FNPT by 1/4 FNPT Check Valve
SPC-4F4F-H-V	1/4 FNPT by 1/4 FNPT Hastelloy® FKM Check Valve
SPC-4F4F-K-H-V	1/4 FNPT by 1/4 FNPT PVDF Hastelloy® FKM Check Valve
SPC-4F4FPP-H-V-3	1/4 FNPT by 1/4 FNPT Polypropylene Hastelloy® FKM 3 psi Check Valve
SPC-4F4M-H-V-90PP	1/4 FNPT by 1/4 MNPT Polypropylene Hastelloy®/ FKM 90 Micron Check Valve
SPC-4F4M-K-H-V	1/4 FNPT by 1/4 MNPT PVDF Hastelloy® FKM Check Valve
SPC-4M4B-HV	1/4 MNPT by 1/4 Barb FKM Hastelloy® Check Valve
SPC-4M4F-H-V	1/4 MNPT by 1/4 FNPT Hastelloy® FKM 1 psi Check Valve
SPC-4M4F-K-H-V	1/4 MNPT by 1/4 FNPT PVDF Hastelloy® FKM Check Valve
SPC-4M4M	1/4 MNPT by 1/4 MNPT Check Valve
SPC-4M4M-H-V	1/4 MNPT by 1/4 MNPT Hastelloy® FKM 1 psi Check Valve
SPC-4M4P	1/4 MNPT by 1/4 Push-in Check Valve
SPC-4M6B	1/4 MNPT by 3/8 Barb Check Valve
SPC-4P2M-H-V	1/4 Push-in by 1/8 MNPT Hastelloy® Check Valve
SPC-4P4P	1/4 Push-in by 1/4 Push-in Check Valve
SPC-4P4P-HV	1/4 Push-in Hastelloy® FKM Check Valve
SPC-4P4P-SS-HV	1/4 Push-in Stainless Steel Ball Hastelloy® FKM Check Valve
SPC-4P6B-H-V-7	1/4 Push-in 3/8 Barb Hastelloy® FKM 7 psi Check Valve
SPC-4PI2M-H-V	1/4 Push-in by 1/8 MNPT Hastelloy®/ FKM Check Valve
SPC-4S4P	1/4 Stem by 1/4 Push-in Check Valve
SPC-6B6B	3/8 Barb by 3/8 Barb Check Valve
SPC-6B-F-1/3	3/8 Barb Fluoroelastomer 1/3 psi Check Valve
SPC-6P4F-H-V	3/8 Push-in by 1/4 FNPT Hastelloy®/ Viton® Check Valve
SPC-6P4M-H-V	3/8 Push-in by 1/4 MNPT Hastelloy®/ Viton® Check Valve
SPC-6P-6B-H-V	3/8 Push-in 3/8 Barb Hastelloy® FKM 7 psi Check Valve
SPC-6P-6B-H-V-R	3/8 Push-in 3/8 Barb Hastelloy® FKM 7 psi Check Valve
SPC-6P6M-H-V RVI	3/8 Push-in by 3/8 MNPT Hastelloy®/ Viton® Check Valve
SPC-6S6P	3/8 Stem by 3/8 Push-in Check Valve
SPC-8B8B	1/8 MNPT by 1/8 MNPT Check Valve

MPV Series

This series of Check Valves is manufactured at our Greeley location They are made of Nylon, Glass-Filled Nylon, Polypropylene, Polycarbonate, Radiation-Stable Polycarbonate, PVDF, Acetal. Diaphragms are made of either Silicone USP class VI, Fluorosilicone, EPDM, Viton®, FDA Viton®, or Kalrez®. Barbed or straight shaft connectors are available in 1/8", 3/16" and 1/4" standard flow or 1/4", 5/16" and 3/8" high flow.

	MPV-2B-GFPF	1/8 Barb GF Polypropylene/Fluorosilicone Check Valve
	MPV-2B-GFPV	1/8 Barb Glass Fill Polypropylene/ FKM Check Valve
	MPV-2B-KK	1/8 Barb PVDF / Kalrez® Check Valve
	MPV-2B-KV	1/8 Barb PVDF / FKM Check Valve
	MPV-2B-NE	1/8 Barb Nylon / EPDM Check Valve
	MPV-2B-NF	1/8 Barb Nylon / Fluorosilicone Check Valve
	MPV-2B-NS	1/8 Barb Nylon / FDA Silicone Check Valve
	MPV-2B-NV	1/8 Barb Nylon / FKM Check Valve
	MPV-2B-PCS	1/8 Barb Polycarbonate / Natural FDA Silicone Check Valve
	MPV-3B-AF	3/16 Barb Acetal / Fluorosilicone Check Valve
	MPV-3B-GFPE	3/16 Barb Glass Filled Polypropylene / EPDM Check Valve
	MPV-3B-GFPV	3/16 Barb Glass Filled Polypropylene / FKM Check Valve
	MPV-3B-KV	3/16 Barb PVDF / FKM Check Valve
	MPV-3B-NE	3/16 Barb Nylon / EPDM Check Valve
	MPV-3B-NF	3/16 Barb Nylon / Fluorosilicone Check Valve
	MPV-3B-NV	3/16 Barb Nylon / FKM Check Valve
	MPV-3B-PCRx-S	3/16 Barb Polycarbonate Rx2530 / Silicone .025 VI Check Valve
	MPV-3B-PCS	3/16 Barb Polycarbonate / Silicone .020 VI Check Valve
	MPV-3B-PE	3/16 Barb Polypropylene / EPDM Check Valve
	MPV-3B-PF	3/16 Barb Polypropylene / Fluorosilicone Check Valve
	MPV-3B-PV	3/16 Barb Polypropylene / FKM Check Valve
	MPV-4B-GFE	1/4 Barb Glass Filled Polypropylene / EPDM Check Valve
	MPV-4B-GFPV	1/4 Barb Glass Filled Polypropylene / FKM Check Valve
	MPV-4B-HKE	1/4 Barb Hi-Flow PVDF / EPDM Check Valve
	MPV-4B-HKK	1/4 Barb Hi-Flow PVDF / Kalrez Check Valve
	MPV-4B-HKV	1/4 Barb Hi-Flow PVDF / FKM Check Valve
	MPV-4B-HNF	1/4 Barb Hi-Flow Nylon / Fluorosilicone Check Valve
	MPV-4B-HNV	1/4 Barb Hi-Flow PVDF / FKM Check Valve
	MPV-4B-KS	1/4 Barb Standard PVDF/ Silicone Check Valve
	MPV-4B-KV	1/4 Barb Standard Flow PVDF / FKM Check Valve
	MPV-4B-NE	1/4 Barb Nylon / EPDM Check Valve
	MPV-4B-NF	1/4 Barb Nylon / Fluorosilicone
	MPV-4B-NV	1/4 Barb Nylon / FKM Check Valve
	MPV-4B-PF	1/4 Barb Polypropylene / Fluorosilicone Check Valve
	MPV-4B-PV	1/4 Barb Polypropylene / FKM Check Valve
	MPV-5B-AF	5/16 Barb Acetal / Fluorosilicone Check Valve
	MPV-5B-KK	5/16 Barb PVDF / Kalrez® Check Valve
	MPV-5B-KV	5/16 Barb PVDF / FKM Check Valve
	MPV-5B-NE	5/16 Barb Nylon / EPDM Check Valve
	MPV-5B-NF	5/16 Barb Nylon / Fluorosilicone Check Valve
	MPV-5B-NV	5/16 Barb Nylon / FKM Check Valve
	MPV-5B-PCRx-S	5/16 Barb Polycarbonate Rx2530 / Silicone .025 VI Check Valve
	MPV-6B-GFPV	3/8 Barb Glass-Filled Polypropylene / FKM Disk Check Valve
	MPV-6B-KS	3/8 Barb PVDF / USP Class VI Silicone Check Valve
	MPV-6B-KV	3/8 Barb PVDF /FKM Check Valve
	MPV-6B-NE	3/8 Barb Nylon / EPDM Check Valve
	MPV-6B-NF	3/8 Barb Nylon / Fluorosilicone Check Valve
	MPV-6B-NV	3/8 Barb Nylon / FKM Check Valve
	MPV-6B-PCRS	3/8 Barb Polycarbonate / Silicone USP class VI Check Valve
	MPV-6B-PCRx-S	3/8 Barb Polycarbonate Rx2530 / Silicone .025 VI Check Valve

DCE

This is a rigid male Check Valve Elbow made of Acetal that is NSF 51® certified and it meets NSF 61® requirements. The male threads available are: 1/8", 1/4" and 3/8". OD tubing sizes are 5/32", 3/16", 1/4", 5/16", 3/8" and 1/2". It can be used for compressed air, inert gases, water and fluids. The working pressure at 77° F is 232 psi, at 158° F it is 145 psi. The working temperature range is 32° F to 158° F.



- DCE-2M-141/8 inch MNPT by 1/4 inch OD Push-in Elbow Spring-loaded Check Valve
- DCE-4M-141/4 MNPT by 1/4 OD Push-to Connect Elbow Check Valve
- DCE-6M-143/8 MNPT by 1/4 OD Push-to Connect Elbow Check Valve

CAS

This is a high-flow Check Valve with barbed, straight ends and luer fittings. They are produced with medical grade Acrylic and Silicone. The valve is barbed for 1/8" to 3/8" tubing or bondable for 1/8" and 1/4" OD tubing. The valves have a low opening pressure and there is a positive seal against backflow even at very low back pressure. Can be used for food and beverage. These valves can be ethylene oxide or radiation sterilized.



- CAS-14 1/4 Barb Acrylic Check Valve
- CAS-18 1/8 Barb Acrylic Check Valve
- CAS-316 3/16 Barb Acrylic Check Valve
- CAS-38 3/8 Barbed Acrylic Check Valve
- CAS-516 5/16 Barbed Acrylic Check Valve



LC

These are miniature Check Valves available with Barb to Barb, Luer to Luer or Luer to Barb configurations. They are made of Polypropylene, PVDF and Polycarbonate. The O-Rings are Buna-N, EPDM, Viton®, Silicone or Fluorosilicone. Barb sizes are 1/8" or 1/16". Spring pressure is 0.09 to 20 psi.



- LC-1B1B-1/10-PPB 1/16 Barb by 1/16 Barb Polypropylene / Buna .10 psi
- LC-1B1B-1/2-PPB 1/16 Barb by 1/16 Barb Polypropylene / Buna .5 psi
- LC-1B-FL-PPE-16 1/16 Barb by Female Luer Polypropylene / EPDM 16.56 psi
- LC-2B2B-1/2-PPB 1/8 Barb Polypropylene / Buna .5 psi
- LC-2B2B-10-PPE 1/8 Barb by 1/8 Barb Polypropylene / EPDM 10 psi
- LC-2BF-3-PPE 1/8 Barb by Female Luer Polypropylene / EPDM 3 psi
- LC-F1B-1/10-PPE Female Luer by 1/16 Barb Polypropylene / EPDM .10 psi
- LC-F2B-1-PPE Female Luer by 1/8 Barb Polypropylene / EPDM 1 psi
- LC-FF-4-PPE Female Luer by Female Luer Polypropylene / EPDM 4 psi

DCV

This is a bi-directional double Check Valve made of Radiation-Stable Polycarbonate with a Silicone disc. It has 2 available inlet ports connecting to a female luer aspiration and male luer discharge port. It is USP Class VI certified. It has a low cracking pressure of 2 – 5 psi and a high flow rate.



- DCV-114 Tubing Pocket Chimney Port PCS Double Check Valve
- DCV-115 Tubing Pocket Chimney Port / Rotating LL PCS Double Check Valve
- DCV-118 FL Chimney Port PCS Double Check Valve



ARL

This Check Valve is made of Polycarbonate with a Silicone disc. It is available with Male and Female Luer Locks. It can be used for air or liquids, including potable water. Approximately 1/2 to 1 psi crack pressure. Color coded swivel lock rings are available.



- | | | | |
|------------|------------|------------|------------|
| ARL-MLLFLL | MLL by MLL | ARL-FLL | FLL by FLL |
| ARL-MLLFL | MLL by FL | ARL-FLMLL | FL by MLL |
| ARL-MLL | MLL by MLL | ARL-FLLMLL | FLL by MLL |

BBCV

This Check Valve has a Male Slip Luer with 30 psi back pressure and 1/4 psi inlet cracking pressure. The materials available are ABS or Polycarbonate both with Silicone Discs.



BBCV-MLFL-ABS	Male Luer by Female Luer ABS Check Valve .25 psi Crack
BBCV-MLFL-01-ABS	Male Luer by Female Luer ABS Check Valve .01 psi Crack
BBCV-MLML-ABS	Male Luer by Male Luer ABS Check Valve .25 psi Crack

FSPV

This Poppet Check Valve comes in Black PVDF, Black Polypropylene and White Polypropylene with a choice of Buna-N, EPDM, Viton® or Kalrez® seal. Standard spring is 302 Stainless Steel with a cracking pressure of 1/3 psi. Optional springs of 1 or 7 psi are available. These high-flow valves can be used in pressures up to 125 psi. Hastelloy spring is optional. The inlet and outlet sizes are FNPT 1/4", 3/8", 1/2" and 3/4"; MNPT 1/2".



FSPV-12F	1/2 FNPT Poly Poppet Check Valve
FSPV-12F12M	1/2 FNPT by 1/2 MNPT Poly Poppet Check Valve
FSPV-12M12M	1/2 MNPT by 1/2 MNPT Poly Poppet Check Valve
FSPV-12M-HV	1/2 MNPT Valve Hastelloy® FKM Poppet Check Valve
FSPV-14F	1/4 FNPT Poly FKM 302 1 psi Poppet Check Valve
FSPV-14F-.3E-WP	1/4 FNPT White Poly EPDM Seals 1/3 psi Poppet Check Valve
FSPV-14F-HV-1	1/4 FNPT Poly FKM Hastelloy® 1 psi Poppet Check Valve
FSPV-34F	3/4 FNPT Poly FKM Disk 1/3 psi Poppet Check Valve
FSPV-34F-11WC	3/4 FNPT Poly FKM 11" C 1/3 psi Poppet Check Valve
FSPV-34F-5WC	3/4 FNPT Poly FKM 5" WC Poppet Check Valve
FSPV-34F-HV	3/4 FNPT Poly FKM Disk Hastelloy® 1/3 psi Poppet Check Valve
FSPV-34F-HV-.7	3/4 FNPT Poly FKM O-Ring Hastelloy® .7 psi Poppet Check Valve
FSPV-34F-HV-1.5	3/4 FNPT Poly FKM O-Ring Hastelloy® 1.5 psi Poppet Check Valve
FSPV-34F-HV-11WC	3/4 FNPT Poly FKM O-Ring Hastelloy 11 WC Poppet Check Valve
FSPV-38F	3/8 FNPT Poly FKM 302 1/3 psi Poppet Check Valve
FSPV-38F-E-9	3/8 FNPT Poly FKM 302 1 psi Poppet Check Valve
FSPV-38F-HV-2	3/8 FNPT Poly Hastelloy® FKM #2 O-Ring Poppet Check Valve
FSPV-38F-V-9	3/8 FNPT Poly FKM O-Ring #9 Poppet Check Valve

Poppet

MSV

This Poppet Check Valve comes in Acetal, Nylon, PVDF and Polycarbonate with Buna-N, EPDM and FKM seals. Springs are 302 Stainless Steel. Barb sizes are 1/8", 3/16", 1/4", 5/16" and 3/8". Available psi's are .5, 1, 1.5, 2.5 and 6; 3" of W.C. and 6" of W.C. Pistons are optional.



MSV-2B	1/8 Barb Poppet Check Valve
MSV-3B	3/16 Barb Poppet Check Valve
MSV-3B3B-AC	3/16 Barb by 3/16 Barb Acetal Poppet Check Valve
MSV-3BAC-.75V-41	3/16 Barb .75 Viton with 41 micron Acetal Poppet Check Valve
MSV-3B-AC-B-1	3/16 Barb EPDM 1 Acetal Poppet Check Valve
MSV-3B-AC-E-1	3/16 Barb Valve Acetal EPDM 1 Poppet Check Valve
MSV-4B	1/4 Barb Poppet Check Valve
MSV-4B-PC-S-.22PI	1/4 Barb Polycarbonate Silicone .22 Poppet Check Valve
MSV-4B-PC-S-.5	1/4 Barb Polycarbonate Silicone .5 Poppet Check Valve
MSV-5B	5/16 Barb Poppet Check Valve
MSV-5B5B-PC	5/16 Barb by 5/16 Barb in Polycarbonate Poppet Check Valve
MSV-6B	3/8 Barb Poppet Check Valve
MSV-6B-AC-.22 E	3/8 Barb Acetal .22 EPDM Poppet Check Valve
MSV-6B-AC-E-1	3/8 Barb Acetal EPDM 1 psi Poppet Check Valve

Poppet

CCV

These are miniature Poppet Check Valves and Pressure Release Valves available with 1/8" Male NPT threads and 1/4" Compression fittings. The NPT fittings are made of Polypropylene, Nylon and ABS with O-Rings made of Buna-N, EPDM, Viton®, Silicone or Fluorosilicone. The spring pressure is 20 psi. The Compression fittings are made of Polypropylene with a .713 OD size.



CCV-2M14C-1	1/8 MNPT by 1/4 Comp Polypropylene / EPDM 1 psi
CCV-2M14C-1.5	1/8 MNPT by 1/4 Comp Polypropylene / EPDM 1.5 psi
CCV-2M14C-3	1/8 MNPT by 1/4 Comp Polypropylene / EPDM 3 psi
CCV-2M14C-3-PPS	1/8 MNPT by 1/4 Comp Polypropylene / Silicone 3 psi
CCV-2M-3	1/8 MNPT by 1/8 MNPT Polypropylene / EPDM 3 psi
CCV-4C6M-3	1/4 Comp by 3/8 MNPT Polypropylene / EPDM 3 psi
CCV-4M14C-1	1/4 MNPT by 1/4 Comp Polypropylene / EPDM 1 psi
CCV-4M-4	1/4 MNPT by 1/4 MNPT Polypropylene / EPDM 4 psi
CCV-4M6C-KV-4	1/4 MNPT by 3/8 Comp PVDF / FKM 4 psi

Poppet

CRV

These Cartridge Insert Valves can be installed into tubing lines or glued into manifolds. The optional housing materials are Nylon, Polypropylene, Acrylic, Acetal, PVDF and Polycarbonate. Springs are 316 Stainless Steel or Hastelloy (1/2 psi). O-Rings are of Buna-N, EPDM, FKM, Silicone and Kalrez. Available sizes are 1/4", 5/16", 3/8", 1/2", 5/8" and 3/4" OD. Standard crack pressure for all valves except 3/4" OD is 3" H₂O 0.1 psi, 5 psi or 1.5 psi.

Additionally:

1/4" and 5/16" are available in 3, 4, 6, 10 and 20 psi

3/8", 1/2" and 5/8" are available in 2, 5, 6.5, 11, 13, 15 and 17 psi

3/4" OD in 5.5" H₂O is 0.5 psi or 3 psi

Spring tolerance is ± 20%.

These valves can be used for air or liquid and any low pressure manifold or tubing applications.



CRV-12-11-PPB	1/2" Polypropylene / Buna Seals 11 psi Insert Valve
CRV-14-10PPE	1/4" Polypropylene / EPDM 10 psi Insert Valve
CRV-14-3-PPE	1/4" Polypropylene / EPDM 3 psi Insert Valve
CRV-14-PB-.5	1/4" Polypropylene / Buna .5 psi Insert Valve
CRV-14-PB-1	1/4" Polypropylene / Buna 1 psi Insert Valve
CRV-14-PB-1.5	1/4" Polypropylene / Buna 1.5 psi Insert Valve
CRV-14-PB-2	1/4" Polypropylene / Buna 2 psi Insert Valve
CRV-14-PE-.1	1/4" Polypropylene / EPDM .1 psi Insert Valve
CRV-14-PV-.1	1/4" Polypropylene / FKM .1 psi Insert Valve
CRV-14-PV-.5	1/4" Polypropylene / FKM .5 psi Insert Valve
CRV-14-PV-1	1/4" Polypropylene / FKM 1 psi Insert Valve
CRV-14-PV-10	1/4" Polypropylene / FKM 10 psi Insert Valve
CRV-14-PV-2	1/4" Polypropylene / FKM 2 psi Insert Valve
CRV-14-PV-5	1/4" Polypropylene / FKM 5 psi Insert Valve
CRV-38-2-PPV	3/8" Polypropylene / FKM 2 psi Insert Valve
CRV-38-PB-7.5 WC	3/8" Polypropylene / Buna 7.5 WC Insert Valve
CRV-38-PPB-1	3/8" Polypropylene / Buna 1 psi Insert Valve
CRV4-1/10-NB	1/4" 1/10 Nylon / Buna Insert Valve
CRV4-1/2H-PPV	1/4" 1/2# Hastelloy Polypropylene / FKM O-Ring Insert Valve
CRV4-10PPE	1/4" 10# Polypropylene / EPDM Insert Valve
CRV4-4PPB	1/4" 4# Polypropylene / Buna Insert Valve
CRV-4-P-V-.5	1/4" Polypropylene / FKM .50 psi Insert Valve
CRV-4-P-V-1	1/4" Polypropylene / FKM 1 psi Insert Valve
CRV-4-PV-6WC	1/4" Polypropylene / FKM 6 inch WC Insert Valve
CRV-4-WP-V-.25	1/4" Polypropylene / FKM .25 psi Insert Valve
CRV-4-WP-V-.5	1/4" Polypropylene / FKM .50 psi Insert Valve
CRV532-14PC	5/32" 14# Polycarbonate Insert Valve
CRV-532-2.5PC	5/32" 2.5# Polycarbonate Insert Valve
CRV-532-2PC	5/32" 2# Polycarbonate Insert Valve
CRV532-4 P	5/32" 4# Polycarbonate Insert Valve
CRV-58-1-NB	5/8" Nylon / Buna 1 psi Insert Valve
CRV-58-PPB-1	5/8" Polypropylene / Buna 1 psi Insert Valve

Cartridge

PCV

This is a Push-to-Connect Acetal Check Valve designed for use with liquids and is not suitable for air and vacuum applications. The working pressures and temperatures are 10 Bar at 68° F and 7 Bar at 149° F. The minimum temperature is 33° F and the typical crack pressure is 0.02 Bar. The port sizes are 1/4" OD, 5/16" OD and 3/8" OD.



PCV-4	1/4 Push-to-Connect Acetal Check Valve .3 psi
PCV-5	5/16 Push-to-Connect Acetal Check Valve
PCV-6	3/8 Push-to-Connect Acetal Check Valve

PCVM

This is a Polypropylene Push-to-Connect Check Valve with an Acetal poppet insert. They have Leak resistant dual EPDM O-Rings and 301 Stainless Steel springs. Flow is allowed in only one direction and is designed for clear water only. Temperature and pressure are 33° to 70° F at 150 psi and 140° F at 60 psi. Port sizes are 1/4", 3/8" and 1/2" and 1/8" NPT with a .75 psi.



PCVM-4	1/4 Push-to-Connect Polypropylene Check Valve 2.75 psi
PCVM-4-2M	1/4 Push-to-Connect by 1/8 MNPT Check Valve .75 psi
PCVM-4-3	1/4 Push-to-Connect Polypropylene 2.75 psi
PCVM-4-5	1/4 Push-to-Connect Polypropylene Check Valve 5 psi
PCVM-4PP	1/4 Push-to-Connect Polypropylene Check Valve .3 psi
PCVM-6	3/8 Push-to-Connect Polypropylene Check Valve .3 psi
PCVM-8	1/2 Push-to-Connect Polypropylene Check Valve .3 psi

CIS

This is a non-barbed Duckbill Check Valve with a white tubing port inlet and clear tubing outlet port. It is made of Acrylic and Silicone. It has a low cracking pressure of 0 - .29 psi. The port sizes are both 1/8".



CIS-18 1/8 Acrylic Duck-Bill Check Valve

Duckbill

QCD

This Check Valve is made of Polycarbonate with a Silicone duck bill. The low cracking pressure is 0.433 psi which determines when the component starts to open. The OD sizes are: 5/64", 7/64" and 9/64". Also available with female and male Luer Locks.



QCD-564	5/64 OD Tubing Polycarbonate Check Valve
QCD-764	7/64 OD Tubing Polycarbonate Check Valve
QCD-964	9/64 OD Tubing Polycarbonate Check Valve
QCD-FM	Female by Male Luer Lock Polycarbonate Check Valve

Duckbill

CDV

This is a non-barbed Acrylic or Polycarbonate Check Valve that has a Silicone duck bill. This is a normally open, one-way check valve. It prevents back flow leakage with minimal pressure. The ports measure 1/8". These are also available with male and female Luer Locks.



CDV-125	1/8 ID Acrylic Luer Duckbill Check Valve
CDV-125MLL	1/8 ID to Male Luer Lock Acrylic Duckbill Check Valve
CDV-125-PC	1/8 ID Polycarbonate Duckbill Check Valve
CDV-18	1/8 ID Acrylic Duckbill Check Valve
CDV-FL-125	Female Luer by .125 Acrylic Duckbill Check Valve
CDV-FLL125	Female Luer Lock by .125 Acrylic Duckbill Check Valve
CDV-FLLML	Female Luer Lock to Male Slip Luer Acrylic Duckbill Check Valve
CDV-FLLMLL	Female Luer Lock to Male Luer Lock Acrylic Duckbill Check Valve
CDV-ML	1/8 ID to Male Luer Acrylic Duckbill Check Valve

Duckbill

CNV

This Check Valve is made of Polypropylene with either an EPDM or ECH duckbill. They will fit 1/16", 5/32" or 1/8" ID tubing. Cracking pressure is 8" water column for the 1/16" ID with an ECH duckbill or 3" water column for the ECH or EPDM duckbill material. 30 psi is the maximum working pressure.



CNV-16S-PPEP-3	1/16 EPDM Duckbill Check Valve 3" water column
CNV-16S-PPEP-8	1/16 EPDM Duckbill Check Valve 8" water column
CNV-16S-PPEPC-8	1/16 ECH Duckbill Check Valve 8" water column
CNV-18S-PPEP	1/8 EPDM Duckbill Check Valve 3" water column
CNV-18S-PPEP-3	1/8 EPDM Duckbill Check Valve 3" water column
CNV-532S-PPEP-3	5/32 EPDM Duckbill Check Valve 3" water column

Duckbill

ASD

This series of single barbed enlarging duckbill Check Valves is made of Nylon, Polypropylene and Polycarbonate and have a Silicone diaphragm. The barb sizes are 1/8" and 3/16".



ASD-2B	1/8 Barb
ASD-2B3B	1/8 Barb by 3/16 Barb
ASD-3B	3/16 Barb
ASD-3B2B	3/16 Barb by 1/8 Barb

Duckbill

BCV

This Brass Check Valve is available with inlet and outlet sizes of 1/4" and 3/8" Male and Female NPT threads, and 1/4" Male Flare.

This Check Valve has no elastomer to create a seal. It will have a positive seal only at high back pressure, so there may be some leakage past the seat in low pressure applications. The cracking pressure on the 302 Stainless Steel spring is 1 psi (standard), 3.7, 5, 10, 14 and 18 psi. Maximum operating pressure is 2500 psi and the maximum operating temperature is 180° F.



BCV-14F	1/4 inch FNPT 1/4 inch FNPT Ball Check Valve
BCV-14FM	1/4 inch FNPT 1/4 inch MNPT Ball Check Valve
BCV-14M	1/4 inch MNPT 1/4 inch MNPT Ball Check Valve
BCV-14MF	1/4 inch MNPT 1/4 inch FNPT Ball Check Valve
BCV-38F	3/8 inch FNPT 3/8 inch FNPT Ball Check Valve
BCV-38M	3/8 inch MNPT 3/8 inch MNPT Ball Check Valve
BCV-38MF	3/8 inch MNPT 3/8 inch FNPT Ball Check Valve

CLCV

This Brass Check Valve has 10-32 ports, a Nitrile seal and Stainless Steel spring. It permits flow in only one direction and is used for air and hydraulics. The input psi is 300 maximum. The crack pressure is 1/2 psi and the temperature range is 32° F to 230° F.

The 1/8" valve has a maximum input pressure of 1000 psi. Otherwise all other attributes are the same as the 10-32 valve.

CLCV-10F10F	10-32 Female to Female Brass Check Valve
CLCV-10F10M	10-32 Female to Male Brass Check Valve
CLCV-10M10M	10-32 Male to Male Brass Check Valve
CLCV-10M10F	10-32 Male to Female Brass Check Valve
CLCV-18F	1/8 inch FNPT to FNPT Brass Check Valve



BLC

This Check Valve is available in Brass and 303 Stainless Steel and comes in 3 sizes: 10-32 Female UNF, 1/8" and 1/4" Female NPT threads. It is a high pressure valve suitable for liquids and gases. This valve will flow in one direction only, back flow is prohibited. There is no seal in this valve, all seats are metal to metal. Maximum operating pressure is 125 psi, the cracking pressure is 10 psi and the maximum temperature is 150° F.



BLC-1032-10	10-32 Female UNF 10 psi Brass Check Valve
BLC-18M14M-B-15	1/8 MNPT to 1/4 MNPT Brass Check Valve 15 psi
BLC-18M18F-SS	1/8 MNPT to 1/8 FNPT Stainless Steel Check Valve
BLC-18M-B-2	1/8 MNPT to 1/8 MNPT Brass 2 psi Check Valve
BLC-18F18M-B	1/8 FNPT to 1/8 MNPT Brass Check Valve
BLC-18M18F-SS-10	1/8 MNPT to 1/8 FNPT 303 Stainless Steel 10 psi Check Valve

CMCV

This Brass Ball Check Valve is a compression fitting with 1/8", 1/4" and 3/8" Tube OD and 1/8" and 1/4" Male NPT threads. The working pressure for the 1/8" tube OD is 400 psi, for the 1/4" it is 300 psi and for the 3/8" it is 200 psi. The temperature range is -65° F to 250° F at maximum operating pressures.



CMCV-14C2M	1/4 inch Comp by 1/8 inch NPT 3 psi Brass Check Valve
CMCV-18C2M	1/8 inch Comp by 1/8 inch NPT 3 psi Brass Check Valve
CMCV-2M14C	1/8 inch NPT by 1/4 inch Comp 3 psi Brass Check Valve
CMCV-2M18C	1/8 inch NPT by 1/8 inch Comp 3 psi Brass Check Valve
CMCV-38C4M	3/8 inch Comp by 1/4 inch NPT 3 psi Brass Check Valve
CMCV-4M38C	1/4 inch NPT by 3/8 inch Comp 3 psi Brass Check Valve

PPCV

This Brass Poppet Check Valve is available with inlet sizes of 1/4", 3/8", 1/2" and 3/4" Female NPT threads and 3/8" and 1/2" Male NPT threads. Outlet sizes are 1/4", 3/8", 1/2" and 3/4" Female NPT threads. End body options are 1/4" and 3/8" Male Flare, and 1/4" Female Flare. Seal options are Buna-N, EPDM and Viton®. Cracking pressure on the 302 Stainless Steel spring is 1 psi (standard). Maximum operating pressure is 1200 psi and the maximum operating temperature is 180° F.



PPCV-12F	1/2 inch FNPT Brass Poppet Check Valve
PPCV-12MF	1/2 inch MNPT 1/2 inch FNPT Brass Poppet Check Valve
PPCV-14	1/4 inch FNPT Brass Poppet Check Valve
PPCV-14F	1/4 inch FNPT Brass Poppet Check Valve
PPCV-14F-V	1/4 inch FNPT Brass Poppet Check Valve 1 psi FKM
PPCV-34F	3/4 inch FNPT Brass Poppet Check Valve
PPCV-34MF	3/4 inch MNPT 3/4 inch FNPT Brass Poppet Check Valve
PPCV-38F	3/8 inch FNPT Brass Poppet Check Valve
PPCV-38MF	3/8 inch MNPT 3/8 inch FNPT Brass Poppet Check Valve

Poppet

NCV

This Nickel-Plated Brass Poppet Check Valve has Buna-N, EPDM or FKM seals. The operating pressure is 0 to 125 psi and the flow rate ranges from 2.5 to 9.5 scfm. Input and output port sizes are 10-32 UNF and 1/16" Barb.



NCV-10F10F	10-32 Female to Female Nickel-Plated Poppet Check Valves
NCV-10F10M	10-32 Female to Male Nickel-Plated Poppet Check Valves
NCV-10F1B	10-32 Female 1/16 Barb Nickel-Plated Poppet Check Valves
NCV-10M10F	10-32 Male to Female Nickel-Plated Poppet Check Valves
NCV-10M1B	10-32 Male 1/16 Barb Nickel-Plated Poppet Check Valves
NCV-1B1B	1/16 Barb to 1/16 Barb Nickel-Plated Poppet Check Valves

Poppet

MFPC

This Nickel-Plated Brass Poppet Check Valve has an inlet of 1/8" Male NPT threads and an outlet of 1/4" Male Flare. Seal options are Buna-N, EPDM, Viton® and Neoprene, the spring is Stainless Steel. The maximum operating pressure is 500 psi.



MFPC-2M4FL	1/8 MNPT by 1/4 Flare Brass Poppet Check Valve
MFPC-2M2M	1/8 MNPT by 1/8 MNPT Brass Poppet Check Valve
MFPC-4FL2M	1/4 Flare by 1/8 MNPT Brass Poppet Check Valve
MFPC-4FL4M	1/4 Flare by 1/4 MNPT Brass Poppet Check Valve

Poppet

MKCC

This is a Forged Brass Check Valve with a 304 Stainless Steel spring loaded Bronze Poppet. The pressure rating is 200 psi for water, oil and gas. The temperature range is -14° F to 248° F. The Female NPT sizes available are: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2". This valve can be used horizontally or vertically. ****This Check Valve is not lead free.****



MKCC-4F	1/4 FNPT Forged Brass Check Valve
MKCC-6F	3/8 FNPT Forged Brass Check Valve
MKCC-8F I	1/2 FNPT Forged Brass Check Valve
MKCC-12F	3/4 FNPT Forged Brass Check Valve
MKCC-16F	1 FNPT Forged Brass Check Valve
MKCC-20F	1 1/4 FNPT Forged Brass Check Valve
MKCC-24F	1 1/2 FNPT Forged Brass Check Valve
MKCC-32F	2 FNPT Forged Brass Check Valve

Poppet

BPCV

This Brass Piston Check Valve is available in inlet and outlet sizes of 1/4", 1/8" and 3/16" barbs. Seal options are Buna-N, EPDM and Viton®. Spring materials are Hastelloy and Stainless Steel but the valve is also available without a spring. The maximum operating pressure is 125 psi. Flow rate is 2.5 SCFM at 50 psi.



BPCV-2	1/8 inch Barb Brass Piston Check Valve
BPCV-2B-EI	1/8 inch Barb EPDM Piston Check Valve 1 psi
BPCV-3	3/16 inch Barb Piston Check Valve
BPCV-4	1/4 inch Barb Piston Check Valve

Piston

PSCV

These Piston Check Valves assure a positive bubble tight seal. Standard unit is Brass with a 302 Stainless Steel spring and Steel retainer. They have a cracking pressure of 1 psi, a maximum pressure of 500 psi and a maximum temperature of 250° F. Also available in 316 Stainless Steel with a Hastelloy spring. Seals available are Buna-N, EPDM and FKM.



PSCV-12F	1/2 FNPT Brass Piston Check Valve with Buna Seal
PSCV-14F	1/4 FNPT Brass Piston Check Valve with Buna Seal
PSCV-14FM	1/4 FNPT 1/4 MNPT Brass Piston Check Valve
PSCV-14M	1/4 MNPT Brass Piston Check Valve
PSCV-18F	1/8 FNPT Brass Piston Check Valve
PSCV-18FM	1/8 FNPT 1/8 MNPT Brass Piston Check Valve
PSCV-18M	1/8 MNPT Brass Piston Check Valve
PSCV-34F	3/4 FNPT Brass Piston Check Valve
PSCV-38F	3/8 FNPT Brass Piston Check Valve
PSCV-38FM	3/8 FNPT 3/8 MNPT Brass Piston Check Valve
PSCV-18F-SS	1/8 FNPT 316 Stainless Steel Piston Check Valve
PSCV-18FM-SS	1/8 FNPT 1/8 MNPT 316 Stainless Steel Piston Check Valve
PSCV-34F-SS	3/4 FNPT 316 Stainless Steel Piston Check Valve
PSCV-38F-SS	3/8 FNPT 316 Stainless Steel Piston Check Valve

Piston

TCV

This is an in-line Check Valve in either Brass or Stainless Steel. It has 10-32 threads on each end and is clearly marked as to the flow direction. The crack-



TCV-10-BR-2	10-32 Brass .2 psi
TCV-10-BR-5	10-32 Brass .5 psi

WNV

This is an Aluminum Check Valve with Buna-N seals, and 150 psi at -40° to 220°. It has a 2 psi crack pressure. It comes with 1/8", 1/4" and 3/8" FNPT threads.



WNV-2F	1/8 FNPT Aluminum Check Valve
WNV-4F	1/4 FNPT Aluminum Check Valve
WNV-6F	3/8 FNPT Aluminum Check Valve

EVCK

This series of Anti-Siphon Ball Check Valves features 3 different flow rates to accommodate your specific need. You would get 30, 50 and 75 GPH at -1.5 psi. These valves have Male and Female 1/4", 3/8" and 1/2" NPT threads and 1/4", 5/16", 1/2" and 5/8" hose barbs. The anti-siphon Check Valves are available in Aluminum and Brass with 300 Stainless Steel ball seat, ball and spring.

EVCK-4M	1/4 MNPT by 1/4 MNPT Ball Check Valve	EVCK-6M6B	3/8 MNPT by 3/8 Barb Ball Check Valve
EVCK-4M4B	1/4 MNPT by 1/4 Barb Ball Check Valve	EVCK-6M6F	3/8 MNPT by 3/8 FNPT Ball Check Valve
EVCK-4M4F	1/4 MNPT by 1/4 FNPT Ball Check Valve	EVCK-6M8B	3/8 MNPT by 1/2 Barb Ball Check Valve
EVCK-4M5B	1/4 MNPT by 5/16 Barb Ball Check Valve	EVCK-8M	1/2 MNPT by 1/2 MNPT Ball Check Valve
EVCK-4M6B	1/4 MNPT by 3/8 Barb Ball Check Valve	EVCK-8M6B	1/2 MNPT by 3/8 Barb Ball Check Valve
EVCK-6M	3/8 MNPT by 3/8 MNPT Ball Check Valve	EVCK-8M8B	1/2 MNPT by 1/2 Barb Ball Check Valve
EVCK-6M10B	3/8 MNPT by 5/8 Barb Ball Check Valve		



RELIEF VALVES

HRV

Manual relief valve of Polypropylene available with 1/16, 3/32, 1/8, 1/4, 3/8, and 1/2 barbs or with 1/8, 1/4, or 3/8 NPT. Unit is also panel-mountable. Available as panel mount, 3/8-18 NPS.

HRV-2M-PP	1/8 MNPT Polypropylene
HRV-16B-PP	1/16 Barb Polypropylene
HRV-2M-PP-PN	1/8 MNPT with Panel Nut



SRV

Relief valve of Polypropylene with 1/8 or 1/4 NPT threads or with 1/8, 1/4, 3/8, 1/2 inch barbs. Available in 1/10 psi, .5 psi, 1, 1.5, 2, 3, 4, 10, 20 psi



SRV-2B	1/8 Barb	SRV-2M	1/8 MNPT
SRV-4B	1/4 Barb	SRV-4M	1/4 MNPT
SRV-6B	3/8 Barb	SRV-6M	3/8 MNPT
SRV-8B	1/2 Barb	SRV-8M	1/2 MNPT

GRV

Relief valve in brass, Nickel plated or 316 stainless body 302 stainless spring .5 to 150 psi plus or minus 5. Units are for venting 1/8 to 1 inch NPT. Male to female in-lines available 1/4 to 1 inch.



GRV-14-10 NP	Relief valve 1/4 NPT 10 psi Nickel plated
GRV-38-30-303	Relief valve 3/8 NPT 30 psi 303 Stainless
GRV-12-90	Relief valve 1/2 NPT 90 psi Brass

BBLR-2M 1/8 NPT Relief valve (10, 50, 130, 175, 200, 270) Relieving to atmosphere

JTDV

Relief valve Nylon 1/8 or 1/4 NPT 10 psi standard available 2, 8, 10, 15, 20, and 30 psi.



JTDV-18-10 1/8 NPT Inline 10 psi Relief
 JTDVE-14-10 1/4 NPT Angle Relief Valve 10 psi



PPBN

Push button bleed valve nickel plated, Buna seals.



PPBN-10-32 10-32 NPT
 PPBN-2 1/8 NPT

TBVA

Brass threaded bleed valve side exhaust



TBVA-2 1/8 NPT

MRV

Miniature, diaphragm relief valve. 3 position knob, removable for tamper resistance. Max 150 psi. Max 40° F to 120° F



MRV-2M 1/8" Thread
 MRV-4M 1/4" Thread

REGULATORS

RA

Precision relieving regulator made of polysulfone with EPDM Seals. Threads of 10-32 female or 1/8 NPT Available as 3.5, 10, 30, 60 or 90 psi range. Optional screwdriver slot, non-relieving (NR). This unit is available as a Vacuum regulator 0-10" HG or 0-30" HG



RA-1032-10P-SL-R
 10-32 female, 10 psi with screwdriver slot, relieving.

RAAW

Non-relieving Nylon panel-mount regulator with Buna seals. Tamper proof. 250 psi inlet with 5-125 psi outlets standard. 1/8" FNPT or 1/4" FNPT with 1/8" gauge port. 20 or 60 psi outlet optional. Additional seals of FKM or EPDM. Available with 316 Stainless Steel spring for water/liquid applications. Relieving unit available for air.

RAAW-2F-60 Nylon REG 1/8 F 3-60 psi Non-Relieving
 RAAW-2F-20 Nylon REG 1/8 F 3-20 psi Non-Relieving
 RAAW-2F-125 Nylon REG 1/8 F 3-125 psi Non-Relieving



NRM

1/4 Female Inlet/Outlet with 1/8 gauge port. Adjustable Knob NSF Acetal/EPDM for non potable water. Non-Relieving. Air 0-20. For water only.



NRM-10 0-10 Preset 3 psi
 NRM-25 0-25 Preset 15 psi
 NRM-50 5-50 Preset 40 psi
 NRM-125 5-125 Preset 50 psi

RAL

This precision, panel-mount pressure regulator is made of glass-filled Acetal. It has a Buna-N or Polyurethane diaphragm and Stainless Steel spring. The valve seat is PVC. There are 5 pressure ranges – 10, 30, 60, 100 and 150 psi. Ports available are 10-32, 1/8" NPT, 1/4" NPT. 1/8" NPT gauge port is optional.

RAL-2-10 1/8 with 10 psi maximum out



NBR Series

Nickel plated brass regulator 10-32 female outlet , non-exhausting for air or liquids. Inlet ports of 10-32, 1/4-20, or 1/8 FNPT. An exhausting unit is available for air oil with 10-32 ports.



NBR-10-E 10-32 Regulator Exhausting Air only

NBR-10 10-32 Regulator Non-Exhausting

RWL

Glass filled Nylon in 2-1/4 ports and 4-1/4 ports. Available 25, 60, or 125 psi Non relieving. For water only.



- RWL-2-14-25 Plastic water regulator 2 1/4 ports 25 psi
- RWL-2-14-60 Plastic water regulator 2 1/4 ports 60 psi
- RWL-2-14-125 Plastic water regulator 2 1/4 ports 125 psi
- RWL-4-14-25 Plastic water regulator 4 1/4 ports 25 psi
- RWL-4-14-60 Plastic water regulator 4 1/4 ports 60 psi
- RWL-4-14-125 Plastic water regulator 4 1/4 ports 125 psi

RP

N.S.F. and F.D.A. approved material. Available in sizes 1/8, 1/4 and 3/8. Push to lock adjusting knob. Relieving (R) and Non-Relieving (NR) - for water service. 0-25 psi, 0-60 psi, and 0-125 psi.



- RP-2F-NR-0-25
- RP-2F-R-0-25
- RP-2F-NR-0-60
- RP-2F-R-0-60
- RP-2F-NR-0-125
- RP-2F-R-0-125
- RP-6F-NR-0-25
- RP-6F-R-0-25
- RP-6F-NR-0-60
- RP-6F-R-0-60
- RP-6F-NR-0-125
- RP-6F-R-0-125

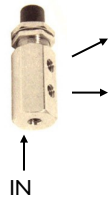
TOGGLE & ROUTING VALVES

MV Series

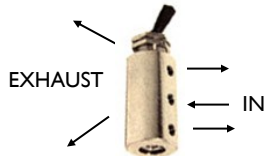
Miniature toggle panel mount nickel-plated brass two-way Normally Closed (C) or Normally Open (O) - Exhausting (E) or Non-Exhausting (NE) Standard is 10-32 female UNF outlet with 10-32 female UNF inlet, 1/8 MNPT, or 1/8 FNPT inlet at the base. Seals are Buna, EPDM or optional FKM. 1/8 ported and 1/16 barbed air pilot valves with 35 psi activation are also available. Valves can be equipped with an actuator of either: Toggle Momentary (TM), or Toggle Detent (TD), a Push Button, (PB), Ball (B), Roller (RC), or Long Cam (LC)



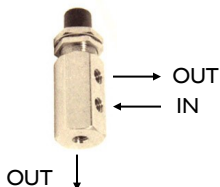
- MV-TD-1010-C-E Toggle Detent 10-32 In/Out normally Closed Exhausting
- MV-TM-1010-O-NE Toggle Momentary 10-32 In/Out normally Open Non-Exhausting
- MV-PB-2M10-O-NE Toggle Push Button 1/8 FNPT Inlet 10-32 Female UNF Outlet Open Non-Exhausting



Three-way valve is a two-way with an exhaust port of 10-32. Use for single action cylinders. Use mufflers and orifices to control the bleed off time. 10-32 female UNF out with 10-32 female UNF inlet, or 1/8 MNPT inlet A 10-32 female UNF stainless steel unit is available. NC or NO 1/8 FNPT units available.



4-way has one inlet and two control ports, plus two exhaust ports, used to control two-way cylinders.



Routing inlet / select outlet

Actuators

- Toggle Momentary
- Toggle Detent (*stays in position*)
- Push Button
- Ball
- Roller Cam
- Long Cam



BALL VALVES

PBV5

This is a Two-way and Three-way Ball Valve with a 5/16 flow. It has an operating pressure of 125 psi and an operating temperature of 140° F. There is a .312 thru hole. The Ball Valve ports come in multiple configurations of Barb, Push-in, Male and Female Threads or Compression. PVC with EPDM seals are standard. Other seal options are Buna-N and Viton®.

Other materials available are: Black and White Filled Polypropylene, MakroBlend®, Black and White Nylon and Black PVDF. MakroBlend® is a Polycarbonate and PBT blend and is an NSF Standard 51 certified material. PVC and White Filled Polypropylene are used for chemical resistance applications and are NSF Standard 42 Certified.

On the Two-Way valve, the Flag Handle comes standard with an optional round Knurled Handle. The maximum panel thickness is .125.

An optional Panel Mount requires a .750 thru hole and comes with a Brass knurled nut or Electroless Nickel-plated Hex mount nut.



PBV5-2F-PP-E	5/16 Flow 1/8 FNPT Black Polypropylene EPDM 2-Way Ball Valve
PBV5-2W-2C	5/16 Flow 1/8 Compression PVC 2-Way Ball Valve
PBV5-2W-2F	5/16 Flow 1/8 FNPT PVC 2-Way Ball Valve
PBV5-2W-2FPP-V	5/16 Flow 1/8 FNPT Polypropylene / FKM 2-Way Ball Valve
PBV5-2W-2M	5/16 Flow 1/8 MNPT PVC 2-Way Ball Valve
PBV5-2W-4B	5/16 Flow 1/4 Barb PVC 2-Way Ball Valve
PBV5-2W-4BN-B	5/16 Flow 1/4 Barb Nylon / Buna 2-Way Ball Valve
PBV5-2W-4B-PP-E	5/16 Flow 1/4 Barb Polypropylene EPDM Seals 2-Way Ball Valve
PBV5-2W-4C	5/16 Flow 1/4 Compression PVC 2-Way Ball Valve
PBV5-2W-4F	5/16 Flow 1/4 FNPT PVC 2-Way Ball Valve
PBV5-2W-4F-PP-E	5/16 Flow 1/4 FNPT Polypropylene EPDM 2-Way Ball Valve
PBV5-2W-4M	5/16 Flow 1/4 MNPT PVC 2-Way Ball Valve
PBV5-2W-4M-PPE	5/16 Flow 1/4 MNPT Black Polypropylene EPDM 2-Way Ball Valve
PBV5-2W-4P	5/16 Flow 1/4 Push-to-Connect PVC 2-Way Ball Valve
PBV5-2W-5P	5/16 Flow 5/16 Push-to-Connect PVC 2-Way Ball Valve
PBV5-2W-6B	5/16 Flow 3/8 Barb PVC 2-Way Ball Valve
PBV5-2W-6P	5/16 Flow 3/8 Push-to-Connect PVC 2-Way Ball Valve
PBV5-2W-8B	5/16 Flow 1/2 Barb PVC 2-Way Ball Valve



PBV5-3W-2B	5/16 Flow 1/8 Barb PVC 3-Way Ball Valve
PBV5-3W-2C	5/16 Flow 1/8 Compression PVC 3-Way Ball Valve
PBV5-3W-2F	5/16 Flow 1/8 FNPT PVC 3-Way Ball Valve
PBV5-3W-2M	5/16 Flow 1/8 MNPT PVC 3-Way Ball Valve
PBV5-3W-4B	5/16 Flow 1/4 Barb PVC 3-Way Ball Valve
PBV5-3W-4C	5/16 Flow 1/4 Compression PVC 3-Way Ball Valve
PBV5-3W-4F	5/16 Flow 1/4 FNPT PVC 3-Way Ball Valve
PBV5-3W-4F-PVCE	5/16 Flow 1/4 FNPT PVC EPDM 3-Way Ball Valve
PBV5-3W-4F-PVCV	5/16 Flow 1/4 FNPT PVC FKM 3-Way Ball Valve
PBV5-3W-4M	5/16 Flow 1/4 MNPT PVC 3-Way Ball Valve
PBV5-3W-4PE-PM JG	5/16 Flow 1/4 Barb EPDM PM JG 3-Way Ball Valve
PBV5-3W-4PI	5/16 Flow 1/4 Push-to-Connect PVC 3-Way Ball Valve
PBV5-3W-5B	5/16 Flow 5/16 Barb PVC 3-Way Ball Valve
PBV5-3W-5F	5/16 Flow 5/16 FNPT PVC 3-Way Ball Valve
PBV5-3W-5M	5/16 Flow 5/16 MNPT PVC 3-Way Ball Valve
PBV5-3W-5PI	5/16 Flow 5/16 Push-to-Connect PVC 3-Way Ball Valve
PBV5-3W-6B	5/16 Flow 3/8 Barb PVC 3-Way Ball Valve
PBV5-3W-6F	5/16 Flow 3/8 FNPT PVC 3-Way Ball Valve
PBV5-3W-6M	5/16 Flow 3/8 MNPT PVC 3-Way Ball Valve
PBV5-3W-6PI	5/16 Flow 3/8 Push-to-Connect PVC 3-Way Ball Valve
PBV5-3W-8B	5/16 Flow 1/2 Barb PVC 3-Way Ball Valve
PBV5-3W-8F	5/16 Flow 1/2 FNPT PVC 3-Way Ball Valve
PBV5-3W-8M	5/16 Flow 1/2 MNPT PVC 3-Way Ball Valve

HV

These hand valves are made with a PBT body, Nickel Plated threads and Buna-N O-Rings. The valves can stop or reduce flow. The working pressure is 150 psi and the temperature range is 32°F to 140°F. They can be used for compressed air or inert gases.



HV-2M4P 1/8 MNPT by 1/4 PBT
 HV-2M5P 1/8 MNPT by 5/16 PBT
 HV-4M4P 1/4 MNPT by 1/4 PBT
 HV-4M5P 1/4 MNPT by 5/16 PBT
 HV-6M4P 3/8 MNPT by 1/4 PBT
 HV-6M5P 3/8 MNPT by 5/16 PBT



HV-2M 1/8 MNPT
 HV-4M2M 1/4 MNPT by 1/8 MNPT
 HV-4M 1/4 MNPT
 HV-4M6M 1/4 MNPT by 3/8 MNPT
 HV-6M 3/8 MNPT
 HV-8M 1/2 MNPT
 HV-8M6M 1/2 MNPT by 3/8 MNPT



HV-4P 1/4 PBT
 HV-5P 5/16 PBT
 HV-5P4P 5/16 PBT by 1/4 PBT

EBV and EBVA

The EBV Series is a Two-way Ball Valve available with a 7/16 inch flow, an operating pressure of 125 psi and a maximum temperature 140°F. It has a .4375 thru hole and is available in multiple configurations of Barb, Push-in, Compression or Male and Female Thread. PVC with EPDM are standard. Other seals are FKM and Buna-N. This Ball Valve is available in Nylon, Polypropylene and PVDF. PVC and White Filled Polypropylene materials are used for chemical resistance applications and are NSF Standard 42 Certified.

The EBVA Series is a Two-way Ball Valve Elbow with all the above attributes of the straight Ball Valve.

Not suitable for vacuum



EBV-4B 1/4 Barb Ball Valve
 EBV-6B 3/8 Barb Ball Valve
 EBV-8B 1/2 Barb Ball Valve
 EBV-4F 1/4 FNPT Ball Valve
 EBV-6F 3/8 FNPT Ball Valve
 EBV-8F 1/2 FNPT Ball Valve
 EBV-4F-4B 1/4 FNPT by 1/4 Barb Ball Valve
 EBV-6F-6B 3/8 FNPT by 3/8 Barb Ball Valve
 EBV-8F-8B 1/2 FNPT by 1/2 Barb Ball Valve
 EBV-4M 1/4 MNPT Ball Valve
 EBV-6M 3/8 MNPT Ball Valve
 EBV-8M 1/2 MNPT Ball Valve
 EBV-4M-4B 1/4 MNPT by 1/4 Barb Ball Valve
 EBV-6M-6B 3/8 MNPT by 3/8 Barb Ball Valve
 EBV-8M-8B 1/2 MNPT by 1/2 Barb Ball Valve
 EBV-4P-4B 1/4 Push-to-Connect by 1/4 Barb Ball Valve
 EBV-6P-6B 3/8 Push-to-Connect by 3/8 Barb Ball Valve
 EBV-8P-8B 1/2 Push-to-Connect by 1/2 Barb Ball Valve
 EBV-4C-4B 1/4 Comp by 1/4 Barb Ball Valve
 EBV-6C-6B 3/8 Comp by 3/8 Barb Ball Valve
 EBV-8C-8B 1/2 Comp by 1/2 Barb Ball Valve



EBVA-4B 1/4 Barb Ball Valve
 EBVA-6B 3/8 Barb Ball Valve
 EBVA-8B 1/2 Barb Ball Valve
 EBVA-4F 1/4 MNPT Ball Valve
 EBVA-6F 3/8 FNPT Ball Valve
 EBVA-8F 1/2 FNPT Ball Valve
 EBVA-4F-4B 1/4 FNPT by 1/4 Barb Ball Valve
 EBVA-6F-6B 3/8 FNPT by 3/8 Barb Ball Valve
 EBVA-8F-8B 1/2 FNPT by 1/2 Barb Ball Valve
 EBVA-4M 1/4 MNPT Ball Valve
 EBVA-6M 3/8 MNPT Ball Valve
 EBVA-8M 1/2 MNPT Ball Valve
 EBVA-4M-4B 1/4 MNPT by 1/4 Barb Ball Valve
 EBVA-6M-6B 3/8 MNPT by 3/8 Barb Ball Valve
 EBVA-8M-8B 1/2 MNPT by 1/2 Barb Ball Valve
 EBVA-4P-4B 1/4 Push-to-Connect by 1/4 Barb Ball Valve
 EBVA-6P-6B 3/8 Push-to-Connect by 3/8 Barb Ball Valve
 EBVA-8P-8B 1/2 Push-to-Connect by 1/2 Barb Ball Valve
 EBVA-4C-4B 1/4 Compression by 1/4 Barb Ball Valve
 EBVA-6C-6B 3/8 Compression by 3/8 Barb Ball Valve
 EBVA-8C-8B 1/2 Compression by 1/2 Barb Ball Valve

LGH

The LGH Series is a Two-way Ball Valve available with an operating pressure of 150 psi, 140° F, with a .625 thru hole in multiple configurations of Barb, Male and Female Threads and Male and Female Garden Hose Threads—3/4" MNPT and FNPT. Materials available are Gray PVC and Polypropylene. The PVC and Polypropylene materials are used for chemical resistance applications and are NSF Standard 61 Certified. PVC with EPDM seals are standard. Other seal options are Buna-N and Viton®.



LGH-34F12M	3/4 FNPT by 1/2 MNPT Ball Valve
LGH-34F34MGH	3/4 FNPT by 3/4 MGH Ball Valve
LGH-34F6B	3/4 FNPT by 3/8 Barb Ball Valve
LGH-34F-B	3/4 FNPT by 3/4 FNPT PVC/Buna Ball Valve
LGH-34FF	3/4 FNPT by 3/4 FNPT Ball Valve
LGH-34FGH34F	3/4 FGH by 3/4 FNPT Ball Valve
LGH-34FGH34M	3/4 FGH by 3/4 MNPT Ball Valve
LGH-34FGH6B	3/4 FGH by 3/8 Barb Ball Valve
LGH-34FGH8M	3/4 FGH by 1/2 MNPT Ball Valve
LGH-34FGHMGH	3/4 FGH by 3/4 MGH Ball Valve
LGH-34FM	3/4 FNPT by 3/4 MNPT Ball Valve
LGH-34FM-E	3/4 FNPT to 3/4 MNPT PVC/EPDM Ball Valve
LGH-34FM-PP-E	3/4 FNPT to 3/4 MNPT Bk Polypropylene/EPDM Ball Valve

PJV

This Polypropylene Two-Way Micro Ball Valve is reinforced with fiberglass, has a 90° rotating handle and Viton® O-rings. The maximum pressure rating is 300 psi at 70° F. The maximum temperature is 150° F. They are available with hose barb and female NPT ports. Port sizes are 1/4", 1/2" and 3/8".



PJV-38B	3/8 Barbed Polypropylene FKM Seals Micro Ball Valve
PJV-38F	3/8 FNPT Polypropylene FKM Seals Micro Ball Valve
PJV-4F4M	1/4 FNPT by 1/4 MNPT Polypropylene Micro Ball Valve
PJV-4B	1/4 Barbed Polypropylene Micro Ball Valve
PJV-6F6M	3/8 FNPT by 3/8 MNPT Polypropylene Micro Ball Valve
PJV-6B	3/8 Barbed Polypropylene Micro Ball Valve
PJV-8F8M	1/2 FNPT by 1/2 MNPT Polypropylene Micro Ball Valve
PJV-8B	1/2 Barbed Polypropylene Micro Ball Valve
PJV-12B	1/2 Barbed Polypropylene Micro Ball Valve

BRS

PVC Ball Valves with quarter turn shut-off are one-piece valves that cannot be taken apart. They are typically used in on-off applications rather than to control flow. They are excellent for a wide variety of fluids. They block in 2 directions. The seals are EPDM. Sizes range from 1/2 inch to 2 inches. One end is female threaded, the other is a socket.



BRS-12F	1/2 FNPT PVC Ball Valve
BRS-34F	3/4 FNPT PVC Ball Valve
BRS-1F	1 FNPT PVC Ball Valve
BRS-114F	1-1/4 FNPT PVC Ball Valve
BRS-112F	1-1/2 FNPT PVC Ball Valve
BRS-2F	2 FNPT PVC Ball Valve

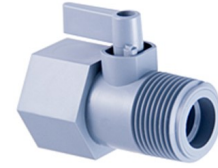
LRH

The LRH Series is a Two-way Ball Valve made from Gray Polyvinylchloride or Black ABS. The maximum working pressure is 125 psi and the maximum working temperature is 140° F. 7 CV flow. Standard is Buna-N seals. One-way valve is optional.

Inlet sizes are 1/2 inch and 3/4 inch. Available with male and female NPT threads and male garden hose threads.



LRH-MGH8M	3/4 Male GHT by 1/2 NPT Ball Valve
LRH-MGMG	3/4 MGHT by Male GHT Ball Valve
LRH-8F8M	1/2 Female NPT by 1/2 Male NPT Ball Valve
LRH-12F12M	3/4 Female NPT by 3/4 Male NPT Ball Valve
LRH-8SMG	1/2 Socket by MGH Ball Valve
LRH-12SMG	3/4 Socket by MGH Ball Valve



PBV6

This is a Three-way Ball Valve with a 3/8 flow. It is available with an operating pressure of 125 psi, 140° F operating temperature and a .312 thru hole in multiple configurations of Barb, Push-in, Compression or male and female Threads. Materials available are Gray and White PVC, Black and White Polypropylene, Black and White Nylon, MakroBlend® and Black PVDF. The PVC and Polypropylene materials are used for chemical resistance applications and are NSF Standard 61 Certified. MakroBlend® (a Polycarbonate and PBT blend) is an NSF Standard 51 certified material.

PVC with EPDM seals are standard. Other seal options are Buna-N and Viton®. The handle has a 180° rotation and lies over the open port. When the flange handle is rotated 90° from either port the flow is shut off.



PBV6-4F	3/8 Flow 1/4 FNPT PVC Ball Valve
PBV6-6F	3/8 Flow 3/8 FNPT PVC Ball Valve
PBV6-8F	3/8 Flow 1/2 FNPT PVC Ball Valve
PBV6-2M	3/8 Flow 1/8 MNPT PVC Ball Valve
PBV6-4M	3/8 Flow 1/4 MNPT PVC Ball Valve
PBV6-6M	3/8 Flow 3/8 MNPT PVC Ball Valve
PBV6-8M	3/8 Flow 1/2 MNPT PVC Ball Valve
PBV6-2B	3/8 Flow 1/8 Barb PVC Ball Valve
PBV6-4B	3/8 Flow 1/4 Barb PVC Ball Valve
PBV6-6B	3/8 Flow 3/8 Barb PVC Ball Valve
PBV6-8B	3/8 Flow 1/2 Barb PVC Ball Valve
PBV6-4PI	3/8 Flow 1/4 Push-to-Connect PVC Ball Valve
PBV6-6PI	3/8 Flow 3/8 Push-to-Connect PVC Ball Valve
PBV6-8PI	3/8 Flow 1/2 Push-to-Connect PVC Ball Valve
PBV6-4C	3/8 Flow 1/4 Compression PVC Ball Valve
PBV6-6C	3/8 Flow 3/8 Compression PVC Ball Valve

PKV

This is a push-to-connect Polypropylene Ball Valve. The material makes it highly chemical resistant. It is fitted with EPDM seals. There is 1/4 turn from open to closed. This Ball Valve is not suitable for air or inert gases. The tube OD sizes range from 1/4" to 12MM. 90° elbows are also available with the same OD sizes and push-to-connect to female NPT.



PKV-14	1/4 OD Push-in Shut-off Ball Valve
PKV-38	3/8 OD Push-in Shut-off Ball Valve
PKV-4M14	1/4 MNPT by 1/4 OD Ball Valve
PKV-4F14E	1/4 FNPT by 1/4 OD Elbow Ball Valve
PKV-4F38E	1/4 FNPT by 3/8 OD Elbow Ball Valve

TBV

This series of two- and three-way T-Handle Ball Valves are made of White and Gray PVC. Seal options are Buna-N, EPDM and Viton®. They are not panel mountable. Inlet and outlet sizes are: 1/4" and 3/8" Male and Female NPT threads. The maximum operating pressure is 125 psi and the maximum temperature is 140° F. The ball flow pattern on the three-way valve is 180° ball.



- TBV-4M4F-2 1/4 MNPT by 1/4 FNPT Two-Way Ball Valve
- TBV-6M6F-2 3/8 MNPT by 3/8 FNPT Two-Way Ball Valve
- TBV-4M4F-4F3 1/4 MNPT by 1/4 FNPT by 1/4 FNPT Three-Way Ball Valve
- TBV-6M6F-6F3 3/8 MNPT by 3/8 FNPT by 3/8 FNPT Three-Way Ball Valve



GEV

This is an Aluminum or Brass shut-off valve. Sizes are 1/4" Male threads to 3/8" barb, 3/8" Male threads to 3/8" barb and 1/2" Male threads by 1/2" Barb.



- GEV-4M6B 1/4 inch Male NPT by 3/8 inch Barb Ball Valve
- GEV-6M6B 3/8 inch Male NPT by 3/8 inch Barb Ball Valve
- GEV-8M8B 1/2 inch Male NPT by 1/2 inch Barb Ball Valve

BBV

This inline Two-Way Brass Ball Valve has a maximum operating pressure of 500 psi and maximum operating temperature of 180° F. Inlet sizes are 1/4", 5/16" and 3/8" Barb, 1/4" Compression fitting, 1/4" female threads, 1/8" and 1/4" male threads and 1 1/16" male nozzle. The outlet sizes are 1/4" and 3/8" barb, 1/4" and 3/8" Compression, 1/4" female threads and 1/8" and 1/4" male threads. These valves are not panel mountable. The handle rests over the inlet side but the reverse configuration is available. The standard through hole is .218



- | | |
|-------------------------------------|--|
| BBV-12F12F 3/4 FNPT by 3/4 FNPT | BBV-4FL4M 1/4 Flare by 1/4 MNPT |
| BBV-2F2F 1/8 FNPT by 1/8 FNPT | BBV-4M1116F 1/4 MNPT 1 1/16 FNPT |
| BBV-2F2M 1/8 FNPT by 1/8 MNPT | BBV-4M4F 1/4 MNPT by 1/4 FNPT |
| BBV-4B4M 1/4 Barb by 1/4 MNPT | BBV-4M4M 1/4 MNPT by 1/4 MNPT |
| BBV-4C4C 1/4 Comp by 1/4 Comp | BBV-4M6C 1/4 MNPT by 1/4 Comp |
| BBV-4C4M 1/4 inch Comp by 1/4 MNPT | BBV-4PC4M 1/4 Plastic Comp by 1/4 MNPT |
| BBV-4F1116M 1/4 FNPT by 1 1/16 MNPT | BBV-5PC4M 5/16 Plastic Comp by 1/4 MNPT |
| BBV-4F2M 1/4 FNPT by 1/8 MNPT | BBV-6B6M 3/8 Barb by 3/8 MNPT |
| BBV-4F4B 1/4 FNPT by 1/4 Barb | BBV-6C6C 3/8 Comp by 3/8 Comp |
| BBV-4F4F 1/4 FNPT by 1/4 FNPT | BBV-6F4M 3/8 FNPT by 1/4 MNPT with .312 through hole |
| BBV-4F4M 1/4 FNPT by 1/4 MNPT | BBV-6F6F 3/8 FNPT by 3/8 FNPT with .312 through hole |
| BBV-4F6C 1/4 FNPT by 3/8 Comp | BBV-6F6M 3/8 FNPT by 3/8 MNPT with .312 through hole |

BTW

This Nickel-Plated Three-Way Ball Valve has a Zinc die cast lever handle. The maximum pressure is 500 psi and the maximum working temperature 180°. The ball through hole measures .218". The seal options are Buna-N, Ethylene Propylene, Viton® and Neoprene. Sizes available are 1/8" and 1/4" NPT.



- BTW-2M2F2F 1/8 MNPT by 1/8 FNPT by 1/8 FNPT
- BTW-4M4F4F1/4 MNPT by 1/4 FNPT by 1/4 FNPT

MASV

These forged mini Brass Two-Way Ball Valves have a 180° operational handle and a blow-out proof stem which have double O-rings. Temperature rating is -20° to 250° F. Available thread sizes are: 1/8", 1/4", 3/8" and 1/2" Male and Female NPT and 3/8" and 1/2" Barbs. 200 WOG.



MASV-2M2F	1/8 MNPT by 1/8 FNPT Forged Mini Ball Valve
MASV-2M4F	1/8 MNPT by 1/4 FNPT Forged Mini Ball Valve
MASV-4M4F	1/4 MNPT by 1/4 FNPT Forged Mini Ball Valve
MASV-6M6F	3/8 MNPT by 3/8 FNPT Forged Mini Ball Valve
MASV-4M6F	1/4 MNPT by 3/8 FNPT Forged Mini Ball Valve
MASV-8M8F	1/2 MNPT by 1/2 FNPT Forged Mini Ball Valve
MASV-2M	1/8 MNPT by 1/8 MNPT Forged Mini Ball Valve
MASV-4M	1/4 MNPT by 1/4 MNPT Forged Mini Ball Valve
MASV-6M	3/8 MNPT by 3/8 MNPT Forged Mini Ball Valve
MASV-8M	1/2 MNPT by 1/2 MNPT Forged Mini Ball Valve
MASV-4B8M	1/4 Barb by 1/8 MNPT Forged Mini Ball Valve
MASV-4B4M	1/4 Barb by 1/4 MNPT Forged Mini Ball Valve
MASV-6B4M	3/8 Barb by 1/4 MNPT Forged Mini Ball Valve
MASV-6B6M	3/8 Barb by 3/8 MNPT Forged Mini Ball Valve
MASV-8B8M	1/2 Barb by 1/2 MNPT Forged Mini Ball Valve



VBW

This Brass Ball Valve has a pressure rating of 600 psi, 150 psi is the working steam pressure. The maximum temperature is 366° F. The stem is blow-out proof, the ball is Chrome-plated Brass and the seat is PTFE. There is an adjustable screw packing nut. Both ports are equal size and Female NPT threaded.

Also available in 316 Stainless Steel. It has an internal entry blow-out proof stem. The pressure rating is 2000 psi with a pressure test of API 598 psi. The ball seat and body seal are PTFE. Both ports are equal size and Female NPT threaded.



VBW-4F	1/4 inch Female Two Way Ball Valve Full Port
VBW-6F	3/8 inch Female Two Way Ball Valve Full Port
VBW-8F	1/2 inch Female Two Way Ball Valve Full Port
VBW-12F	3/4 inch Female Two Way Ball Valve Full Port
VBW-16F	1 inch Female Two Way Ball Valve Full Port
VBW-20F	1-1/4 inch Female Two Way Ball Valve Full Port
VBW-24F	1-1/2 inch Female Two Way Ball Valve Full Port
VBW-32F	2 inch Female Two Way Ball Valve Full Port

SSPV

This is a Two-Way Inline Brass Ball Valve. It has an operating pressure of 500 psi and a maximum operating temperature of 180° F. The seal is Viton® and the ball seat is PTFE. The handle is die cast Zinc. The through hole diameter is .312". This Ball Valve supports flow and pressure in either direction.

The inlet sizes available are: 3/8" Barb, 3/8" Compression, 1/4" and 3/8" Female NPT and 1/4" and 3/8" NPT. The outlet sizes are: 1/4" and 3/8" Female NPT and 3/8" Male NPT. ***These valves are not panel mountable.***



SSPV-6B4F	3/8 Barb by 1/4 FNPT Inline Ball Valve
SSPV-6B6F	3/8 Barb by 3/8 FNPT Inline Ball Valve
SSPV-6B6M	3/8 Barb by 3/8 MNPT Inline Ball Valve
SSPV-6C4F	3/8 Compression by 1/4 FNPT Inline Ball Valve
SSPV-6C6F	3/8 Compression by 3/8 FNPT Inline Ball Valve
SSPV-6C6M	3/8 Compression by 3/8 MNPT Inline Ball Valve
SSPV-4F4F	1/4 FNPT by 1/4 FNPT Inline Ball Valve
SSPV-4F6M	1/4 FNPT by 3/8 MNPT Inline Ball Valve
SSPV-6F6F	3/8 FNPT by 3/8 FNPT Inline Ball Valve
SSPV-6F6M	3/8 FNPT by 3/8 MNPT Inline Ball Valve

VAMS

These Ball Valves, available in inline, elbows and 3-way tee configurations, are Chrome Plated Brass with Female NPT, Male NPT and Push-to-Connect ports. They all have a temperature range of 0° F to 175° F and are recommended for use with Air, Oil, Water and Gas.

The thread sizes for the Female to Female and Female to Male valves are: 1/8", 1/4", 3/8" and 1/2".

The tube sizes for the Push-to-Connect valves are 1/8" by 1/8", 1/4" by 1/4" and 3/8" by 3/8".

On the Male NPT by Push-to-Connect the sizes are 5/32" tube by 1/8" MNPT, 1/4" tube by 1/8" MNPT, 1/4" tube by 1/4" MNPT and 3/8" tube by 3/8" MNPT.

The elbow and tee sizes are: 1/8", 1/4" and 3/8". The elbows and tees are panel-mountable and the tees are available with open or closed centers.

Formerly AMS & AMS-L



VAMS-2-2F 1/8 FNPT Valve Closed Center 2-Way Ball Valve

VAMS-2-4F 1/4 FNPT Chrome-Plated 2-Way Ball Valve

VAMS-2-6F 3/8 FNPT Chrome-Plated 2-Way Ball Valve

VAMS-2F 1/8 FNPT by 1/8 FNPT 2-Way Ball Valve

VAMS-2FOC 1/8 FNPT by 1/8 FNPT Open Center 2-Way Ball Valve

VAMS-2M532PI 1/8 FNPT by 5/32 OD Push-In 2-Way Ball Valve

VAMS-2MF 1/8 MNPT by 1/8 FNPT 2-Way Ball Valve



VAMS-3-2F 1/8 FNPT Open Center 3-Way Ball Valve

VAMS-3-4F 1/4 FNPT 3-Way Ball Valve

VAMS-3-6F 3/8 FNPT 3-Way Ball Valve

VAMS-L-2F 1/8 FNPT 90 degree Elbow Ball Valve PM

VAMS-L-4F 1/4 FNPT 90 degree Elbow Ball Valve PM

VAMS-L-6F 3/8 FNPT 90 degree Elbow Ball Valve PM



MBBV

This Two-Way Brass Ball Valve is suitable for a full range of liquids and gases with minimal pressure drop due to large full size ports. Pressure rated for 1/4" to 2" at 600 psi and 2-1/2" to 4" at 400 psi WOG and 150 psi WSP saturated steam. Fast 1/4 turn open or close. Maximum operating temperature is 302° F. Hard chromium plated solid ball. Available Female NPT sizes are: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3" and 4". The Male / Female sizes are: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2".

This is not lead free.

MBBV-6M6F 3/8 MNPT by 3/8 FNPT Brass Ball Valve

MBBV-4M4F 1/4 MNPT 1/4 FNPT Brass Ball

MBBV-8M8F 1/2 MNPT 1/2 FNPT Brass Ball Valve

MBBV-12M12F 3/4 MNPT 3/4 FNPT Brass Ball Valve

MBBV-16M16F 1 inch MNPT 1 inch FNPT Brass Ball Valve

MBBV-20M20F 1-1/4 MNPT by 1-1/4 FNPT Brass Ball Valve

MBBV-24M24F 1-1/2 MNPT by 1-1/2 FNPT Brass Ball Valve

MBBV-32M32F 2 inch MNPT by 2 inch FNPT Brass Ball Valve

MBBV-8F 1/2 FNPT Brass Ball Valve

MBBV-4F 1/4 FNPT Brass Ball Valve

MBBV-6F 3/8 FNPT Brass Ball Valve

MBBV-12F 3/4 FNPT Brass Ball Valve

MBBV-16F 1 inch FNPT Brass Ball Valve

MBBV-20F 1-1/4 FNPT Brass Ball Valve

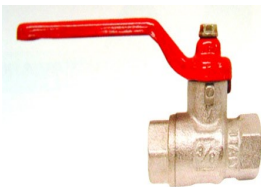
MBBV-24F 1-1/2 FNPT Brass Ball Valve

MBBV-32F 2 inch FNPT Brass Ball Valve

MBBV-40F 2-1/2 FNPT Brass Ball Valve

MBBV-48F 3 inch FNPT Brass Ball Valve

MBBV-64F 4 inch FNPT Brass Ball Valve



RV2

This is a solid Chrome plated Brass mini ball valve. This valve works in both directions because of a double seal system. It has a blow-out proof brass stem. The 1/4 turn handle has a mechanical stop. The maximum working pressure is 235 psi but will handle 300 psi at 75°F. The temperature range is 32° F to 176° F. Available in Female by Female and Male by Female. ***This product is not lead free.***



RV2-2F	1/8 FNPT Taper Ball Valve
RV2-2M2F	1/8 MNPT Taper by 1/8 FNPT Taper Ball Valve
RV2-4F	1/4 FNPT Taper Ball Valve
RV2-6F	3/8 FNPT Taper Ball Valve
RV2-8F	1/2 FNPT Taper Ball Valve
RV2-2F2M	1/8 FNPT Taper by 1/8 MNPT Taper Ball Valve
RV2-4F4M	1/4 FNPT Taper by 1/4 MNPT Taper Ball Valve
RV2-6F6M	3/8 FNPT Taper by 3/8 MNPT Taper Ball Valve

NSF Approved Valves in Female by Female Configuration supplied with green handle used for potable water.

RV5

This is a Chrome plated forged Brass mini Ball Valve has a Chrome plated Brass ball. The maximum working pressure is 450 psi, 142 psi at 356°F and 355 psi at 212° F. Available in Female by Female and Male by Female. Available with a flag handle, a lever handle, a tee handle or can be adjusted with a screw-



RV5-2F	1/8 FNPT Taper Ball Valve
RV5-4F	1/4 FNPT Taper Ball Valve
RV5-4M4F	1/4 MNPT Taper by FNPT Taper Ball Valve
RV5-6M6F	3/8 MNPT Taper by FNPT Taper Full Port Ball Valve
RV5-6F	3/8 FNPT Taper Ball Valve
RV5-8F	1/2 FNPT Taper Ball Valve
RV5-2F2M	1/8 FNPT Taper 1/8 MNPT Taper Ball Valve
RV5-4F4M	1/4 FNPT Taper 1/4 MNPT Taper Ball Valve
RV5-6F6M	3/8 FNPT Taper 3/8 MNPT Taper Ball Valve
RV5-8F8M	1/2 FNPT Taper 1/2 MNPT Taper Ball Valve

BVP

These Brass Two-Way and Three-Way Ball Valves have a pressure rating of 500 psi and maximum operating temperature of 180° F. The ball through hole diameter is .375". These valves are panel mountable and come with one Knurled and one Hex Brass nut. and require a mounting hole of .812 inch. The maximum mount thickness is .150 inch. The standard handle has 180° rotation and lies over the open port. When the handle is rotated 90° from either port, the flow is shut off. Size options are 3/8" Compression, 1/8", 1/4", 3/8" and 1/2" Female threads and 1/4" Male Flare.



BVP-2F2F	1/8 FNPT by 1/8 FNPT 2-Way Ball Valve
BVP-2F4F	1/8 FNPT by 1/4 FNPT 2-Way Ball Valve
BVP-2F4MF	1/8 FNPT by 1/4 Male Flare 2-Way Ball Valve
BVP-2F6C	1/8 FNPT by 3/8 Comp 2-Way Ball Valve
BVP-2F6F	1/8 FNPT by 3/8 FNPT 2-Way Ball Valve
BVP-2F8F	1/8 FNPT by 1/2 FNPT 2-Way Ball Valve
BVP-6C2F	3/8 Comp by 1/8 FNPT 2-Way Ball Valve
BVP-6C4F 3	3/8 Comp by 1/4 FNPT 2-Way Ball Valve
BVP-6C4MF	3/8 Comp by 1/4 Male Flare 2-Way Ball Valve
BVP-6C6C	3/8 Comp by 3/8 Comp 2-Way Ball Valve
BVP-6C6F	3/8 Comp by 3/8 FNPT 2-Way Ball Valve
BVP-6C8F	3/8 Comp by 1/2 FNPT 2-Way Ball Valve



BVP-2F2F2F	1/8 FNPT by 1/8 FNPT by 1/8 FNPT 3-Way Ball Valve
BVP-4F4F4F	1/4 FNPT by 1/4 FNPT by 1/4 FNPT 3-Way Ball Valve
BVP-4M4M4M	1/4 MNPT by 1/4 MNPT by 1/4 MNPT 3-Way Ball Valve
BVP-6C6C6C	3/8 by 3/8 by 3/8 Comp 3-Way Ball Valve
BVP-6F6F6F	3/8 FNPT by 3/8 FNPT by 3/8 FNPT 3-Way Ball Valve
BVP-8F8F8F	1/2 FNPT by 1/2 FNPT by 1/2 FNPT 3-Way Ball Valve

BV

This One-Way Brass Ball Valve has an Electroless Nickel plated Brass ball with a PTFE seat and Stainless Steel handle. This valve allows flow and pressure only in the direction of the flow arrows. The maximum operating pressure is 500 psi and the operating temperature is 180° F. Thread sizes are: 1/4", 1/8", 7/16", 3/8" and 1/2" Female NPT, 1/4", 1 1/16" and 3/8" Male NPT. Handle options are Zinc Die Cast, Steel Lever, Nylon, Screw Slot and Zinc Flag style.



BV-4F2F	1/4 FNPT by 1/8 FNPT Ball Valve	BV-6F6M	3/8 FNPT by 3/8 MNPT Ball Valve
BV-4F4F	1/4 FNPT by 1/4 FNPT Ball Valve	BV-6F6F	3/8 FNPT by 3/8 FNPT Ball Valve
BV-4F4M	1/4 FNPT by 1/4 MNPT Ball Valve	BV-6F4M	3/8 FNPT by 1/4 MNPT Ball Valve
BV-4F4B	1/4 FNPT by 1/4 Barb Ball Valve	BV-8F8F	1/2 FNPT by 1/2 FNPT Ball Valve
BV-4F1116M	1/4 FNPT by 1 1/16 MNPT Ball Valve	BV-12F12F	3/4 FNPT by 3/4 FNPT Ball Valve
BV-4F6C	1/4 FNPT by 3/8 Comp Ball Valve	BV-4M1116F	1/4 MNPT by 1 1/16 FNPT Ball Valve
BV-4F71620F	1/4 FNPT by 7/16-20 FNPT Ball		

BSL

This Five-Way Brass Ball Valve has an operating pressure of 500 psi and working temperature of 180°F. The handle is Black or Blue Nylon and the seal options are Buna-N, EPDM, Viton® and Neoprene. All five ports can be: 1/4", 1/8", 10-32 and 10-32 plugged Female.

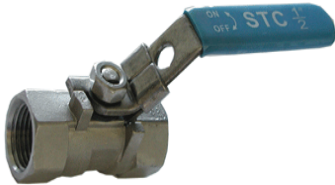
This unit is panel mountable.



BSL-1032F	10-32 Panel Mount 5-Way Ball Valve
BSL-2F	1/8 FNPT Panel Mount 5-Way Ball Valve
BSL-4F	1/4 FNPT Panel Mount 5-Way Ball Valve
BSL-2M	1/8 MNPT Panel Mount 5-Way Ball Valve
BSL-4M	1/4 MNPT Panel Mount 5-Way Ball Valve

MSBV

This 316 Stainless Steel Ball Valve is designed for harsh environments and has Female NPT threads at both ports. The handle will lock for greater security and will accept a pad-lock. Standard port has restricted flow. The internal entry has a blow-out proof stem. The pressure rating for this valve is 1000 psi. Sizes available are: 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2".



MSBV-4F	1/4 FNPT 316 Stainless Ball Valve
MSBV-6F	3/8 FNPT 316 Stainless Ball Valve
MSBV-8F	1/2 FNPT 316 Stainless Ball Valve
MSBV-12F	3/4 FNPT 316 Stainless Ball Valve
MSBV-16F	1 inch FNPT 316 Stainless Ball Valve
MSBV-20F	1-1/4 FNPT 316 Stainless Ball Valve
MSBV-24F	1-1/2 FNPT 316 Stainless Ball Valve

NEEDLE VALVES

VN-IG Series

Needle valves molded of 40% Glass-Filled Nylon or 20% Glass-Filled Polypropylene. The needle and adjustment knob are nickel plated brass with an optional 303 stainless. Fine threads (10-64) with a 6° angle for precise adjustment. Polypropylene is available with 1/16 straight shafts only. Nylon is available with 1/16 and 1/8 barbs.



VN-IG-1B-K	NEEDLE Valve 1/16 Barbs Black w/ Knob
VN-IG-1B-KSS	NEEDLE Valve 1/16 Barbs Black Nylon SS Knob
VN-IG-1S-K	NEEDLE Valve 1/16 SHAFTS Black Nylon
VN-IG-1S-K-P	NEEDLE Valve 1/16 SHAFTS Poly SS Knob
VN-IG-1S-KSS	NEEDLE Valve 1/16 SHAFTS Black Nylon SS Knob
VN-IG-2B-K	NEEDLE Valve 1/8 Barbs Black Nylon
VN-IG-2B-KSS	NEEDLE Valve 1/8 Barbs Black Nylon SS Knob

VNAT Series

Nickel plated panel mount needle valve with 3° pin angle, 64 threads for fine adjustment. Buna seals. Available with screwdriver slot.



VNAT-116	1/16
VNAT-18	1/8

PAC Series

Precision regulator with 10-32 ports. Aluminum, brass or stainless. 0-5 0-15 0-30 0-60 0-100

PAC5-AL	0-5 Aluminum
PAC30-BR	0-30 Brass
PAC15-SS	0-15 Stainless Steel
PAC10-A	10-32 Aluminum

PNFC Series

Brass needle valve with inlets of 10-32 tapered or 1/8 NPT. 10-32 outlet with .1 CV. Non-panel mount PNFC-10 available. Optional flow control. PNFC-10-FC



PNFC-10M10F	10-32 M by 10-32 F
PNFC-18M10F	1/8 M by 10-32 F

FANV Series

Fine pitch needle valve 10 turns to go from bubble tight to full flow of 100 SCFH AT 80 psi. Brass body with Buna seals 10-32 female in and out used for pneumatic or hydraulic applications.



FANV-10F	10-32 F
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FNV Series

Brass needle valve with 10-32 taper male threads or 1/8 NPT and 10-32 female port. 10-32 is available with a knurled knob. Buna seals, FKM optional. 150 psi service. 1/8 NPT is panel mountable.



FNV-10F10F	10-32 F by 10-32 F
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MNV Series

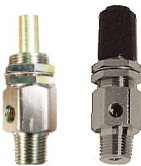
Brass with nickel plated needle valve, 10-32 female, 10-32 male, or 1/8 NPT panel mount .1 CV. 5 turn adjustment Buna seals 303 stainless needle is optional.



MNV-10M10F	10-32 M by 10-32 F
MNV-10F10M	10-32 F by 10-32 M

SPNV Series

Brass with nickel plated needle valve, 10-32 female, 10-32 male, or 1/8 NPT panel mount .1 CV. 3 turn adjustment 150 psi operating pressure. Buna seals 303 stainless needle is optional.



SPNV-10F10F	10-32 F IN/Out
SPNV-10F10F-SP	10-32 F IN/Out Side Port
SPNV-2M10F	1/8 M IN/10-32 F Out

NVC

Acetal needle valve push in with nickel plated needle. Elbow configuration available.



NVC-4 OD
NVC-6 OD

NVSC

Brass needle valve 125 psi with SS needle. Optional valves for 1000 psi available



NVSC-2M2M 1/8 Male by 1/8 Male
NVSC-2F2F 1/8 Female by 1/8 Female
NVSC-4F4F 1/4 Female by 1/4 Female
NVSC-4M4M 1/4 Male by 1/4 Male
NVSC-4F4M 1/4 Female by 1/4 Male
NVSC-6M6M 3/8 Male by 3/8 Male

NVS Brass needle valve 500 psi with brass or stainless needle 1/4 FNPT in line, right angle **NVSA** also available with 1/4 compression



NVS-4F 1/4 FNPT Inline
NVSA-4F 1/4 FNPT Right Angle
NVSA-2M 1/8 MNPT Right Angle
NVSA-4F4M 1/4 M Inlet 1/4 F Outlet

DFV

Flow control valves made with nickel plated threads and stem with a PBT body. standard unit controls flow out but checks the flow back.



Inserts: DFV-18 1/8 by 1/8
DFV-532 5/32 by 5/32
DFV-316 3/16 by 3/16
DFV-14 1/4 by 1/4
DFV-38 3/8 by 3/8
DFV-12 3/4 by 3/4
Female :
DFV-1032F 10-32 by 10-32
DFV-18F 1/8 by 1/8
DFV-14F 1/4 by 1/4

ANV

Aluminum needle valves, panel mount, Buna seals, or FKM optional. 150 psi pressure. Standard is small knob, large knob is shown. Slotted version is available. Available as flow controls.



ANV-2F 1/8 F
ANV-4F 1/4 F
ANV-6F 3/8 F

PNV

Needle valve made of PVC with EPDM seals, Polypropylene with FKM seals, or PVDF with PTFE seals. Maximum pressure 125 psi. standard 2.5 degree needle, others are available.



PNV-2F 1/8 Female
PNV-4F 1/4 Female
PNV-2M 1/8 Male
PNV-4M 1/4 Male
PNV-4B 1/4 Barb
PNV-5B 5/16 Barb
PNV-6B 3/8 Barb
PNV-8B 1/2 Barb
PNV-4P 1/4 Push in
PNV-6P 3/8 Push in
PNV-2C 1/8 Compression
PNV-4C 1/4 Compression
PNV-4F-PPE 1/4 Female Polypro EPDM Seals
PNV-4M-PPV 1/4 Male Polypro FKM Seals
PNV-6B-PPV 3/8 Barb Polypro FKM Seals

CONTROL VALVES

DEFV

Flow control valves made with nickel plated threads and stem with a PBT body. standard unit controls flow out but checks the flow back. Flow control valves available needing the flow in from the tube and checking the flow back through the tubing line. Metal flow controls available.



DEFV-10U18P	10-32 by 1/8 OD	DEFV-4M14P	1/4 M by 1/4 OD
DEFV-10U532P	10-32 by 5/32 OD	DEFV-4M516P	1/4 M by 5/16 OD
DEFV-10U316P	10-32 by 3/16 OD	DEFV-4M38P	1/4 M by 3/8 OD
DEFV-10U14P	10-32 by 1/4 OD	DEFV-4M12P	1/4 M by 1/2 OD
DEFV-10U516P	10-32 by 5/16 OD	DEFV-6M316P	3/8 M by 3/16 OD
DEFV-2M18P	1/8 M by 1/8 OD	DEFV-6M14P	3/8 M by 1/4 OD
DEFV-2M532P	1/8 M by 5/32 OD	DEFV-6M516P	3/8 M by 5/16 OD
DEFV-2M316P	1/8 M by 3/16 OD	DEFV-6M38P	3/8 M by 3/8 OD
DEFV-2M14P	1/8 M by 1/4 OD	DEFV-6M12P	3/8 M by 1/2 OD
DEFV-2M516P	1/8 M by 5/16 OD	DEFV-8M516P	1/2 M by 5/16 OD
DEFV-4M532P	1/4 M by 5/32 OD	DEFV-8M38P	1/2 M by 3/8 OD

DMF

Inline aluminum flow control for air or oil to 250 psi. Equal flow control in both directions.



DMF-2N	1/8 FNPT Aluminum
DMF-4N	1/4 FNPT Aluminum
DMF-6N	3/8 FNPT Aluminum
DMF-8N	1/2 FNPT Aluminum

ORIFICES

AO-IG

10-32 threaded orifices adapters with 1/16 or 1/8 barbs. Molded of polysulfone.



AO-IG-10X1B-004	10-32 by 1/16, .004	AO-IG-10X2B-004	10-32 by 1/8, .004
AO-IG-10X1B-005	10-32 by 1/16, .005	AO-IG-10X2B-005	10-32 by 1/8, .005
AO-IG-10X1B-006	10-32 by 1/16, .006	AO-IG-10X2B-006	10-32 by 1/8, .006
AO-IG-10X1B-007	10-32 by 1/16, .007	AO-IG-10X2B-007	10-32 by 1/8, .007
AO-IG-10X1B-010	10-32 by 1/16, .010	AO-IG-10X2B-010	10-32 by 1/8, .010
AO-IG-10X1B-012	10-32 by 1/16, .012	AO-IG-10X2B-012	10-32 by 1/8, .012
AO-IG-10X1B-016	10-32 by 1/16, .016	AO-IG-10X2B-016	10-32 by 1/8, .016
AO-IG-10X1B-020	10-32 by 1/16, .020	AO-IG-10X2B-020	10-32 by 1/8, .020
AO-IG-10X1B-025	10-32 by 1/16, .025	AO-IG-10X2B-025	10-32 by 1/8, .025
AO-IG-10X1B-030	10-32 by 1/16, .030	AO-IG-10X2B-030	10-32 by 1/8, .030
AO-IG-10X1B-040	10-32 by 1/16, .040	AO-IG-10X2B-040	10-32 by 1/8, .040

RESO

These Nylon fittings are available with the sapphire orifices shown above. .004 to .043



RESO-142B-004	1/4-28 IN Adapters, .004
RESO-1M1B-004	1/16 NPT IN Adapters, .004
RESO-2M2B-004	1/8 NPT IN Adapters, .004
RESOE-142B-004	1/4-28 IN Elbows, .004
RESOE-2M2B-004	1/8 NPT IN Elbows, .004

IR-IG

Molded of Polysulphone material, these orifices are available with 1/16 straight shafts or barbs for 1/16 or 1/8 I.D. tubing. Flow tolerance is plus or minus 4%. Maximum pressure is 100 psi.

	IR-IG-1S-004	1/8 Shaft .004 Purple	IR-IG-1B-016	1/16 Barb .016 Gray
	IR-IG-1S-005	1/8 Shaft .005 Lime Green	IR-IG-1B-020	1/16 Barb .020 Blue
	IR-IG-1S-006	1/8 Shaft .006 Red	IR-IG-1B-025	1/16 Barb .025 Brown
	IR-IG-1S-007	1/8 Shaft .007 Aqua	IR-IG-1B-030	1/16 Barb .030 Beige
	IR-IG-1S-010	1/8 Shaft .010 Yellow	IR-IG-1B-040	1/16 Barb .040 Rust
	IR-IG-1S-012	1/8 Shaft .012 Black	IR-IG-2B-004	1/8 Barb .004 Purple
	IR-IG-1S-016	1/8 Shaft .016 Gray	IR-IG-2B-005	1/8 Barb .005 Lime Green
	IR-IG-1S-020	1/8 Shaft .020 Blue	IR-IG-2B-006	1/8 Barb .006 Red
	IR-IG-1S-025	1/8 Shaft .030 Beige	IR-IG-2B-007	1/8 Barb .007 Aqua
	IR-IG-1S-040	1/8 Shaft .040 Rust	IR-IG-2B-010	1/8 Barb .010 Yellow
	IR-IG-1B-004	1/16 Barb .004 Purple	IR-IG-2B-012	1/8 Barb .012 Black
	IR-IG-1B-005	1/16 Barb .005 Lime Green	IR-IG-2B-016	1/8 Barb .016 Gray
	IR-IG-1B-006	1/16 Barb .006 Red	IR-IG-2B-020	1/8 Barb .020 Blue
	IR-IG-1B-007	1/16 Barb .007 Aqua	IR-IG-2B-025	1/8 Barb .025 Brown
IR-IG-1B-010	1/16 Barb .010 Yellow	IR-IG-2B-030	1/8 Barb .030 Beige	
IR-IG-1B-012	1/16 Barb .012 Black	IR-IG-2B-040	1/8 Barb .040 Rust	

IRT

Made of Polycarbonate with straight shafts (S) for 1/16 ID tubing, or 1/16 and 1/8 barbs. Barbed orifices have a pre-filter installed, 5micron up to .010 and 100 micron above .010. 100 psi. Flow tolerance is ± 3% or .0002. Body for the barbed fittings is .300 diameter. Straight shafts may be used for 5/64 ID. Can be made without filter.

	IRT-S-003	1/8 Shaft .003	IRT-S-014	1/8 Shaft .014
	IRT-S-005	1/8 Shaft .005	IRT-S-016	1/8 Shaft .016
	IRT-S-007	1/8 Shaft .007	IRT-S-017	1/8 Shaft .017
	IRT-S-008	1/8 Shaft .008	IRT-S-019	1/8 Shaft .019
	IRT-S-009	1/8 Shaft .009	IRT-S-020	1/8 Shaft .020
	IRT-S-010	1/8 Shaft .010	IRT-S-025	1/8 Shaft .025
	IRT-S-012	1/8 Shaft .012	IRT-S-030	1/8 Shaft .030

PFR

1/4 Female, 3/8 Female, 1/2 female, male, or 1/2 female/male or 3/4 female. .125 psi made from NSF approved Polypropylene materials. Restricts flow from .13 to 3.96 GPM. 20 different flow rates available.

	PFR-4F-13	1/4 F .13 Gallons	PFR-8F	1/2 F	PFR-8F8M	1/2 F by 1/2 M
	PFR-6F	3/8 F	PFR-8M8F	1/2 M by 1/2 F	PFR-12F	3/4 F .396 Gallons

POP

Plastic plug orifice made of Nylon or Polypropylene with a 10-32 or 1/4-28 thread. .010 is the minimum orifice size.

	POP-10-10	10-32 Thread .010
	POP-1428-10	1/4-28 Thread .010

COS

Plastic connectors with a 316 stainless orifice .010 , .015, or .020



BNCO

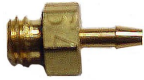
Brass bite style fitting 1/16, 1/8, .170, 3/16, or 1/4 Barb. With orifice available in tees and crosses.

	BNCO-170B-005	.005	.009	.013	.017	.025
	BNCO-1B-005	.006	.010	.014	.018	.030
	BNCO-2B-005	.007	.011	.015	.019	.040
	BNCO-4B-005	.008	.012	.016	.020	
	BNCO-3B-005					

The following parts have a sapphire orifice:



NSS
A synthetic sapphire orifice pressed in a Nylon housing of .125 or .134 OD. Sapphire orifice chart 3-64. This sapphire type is housed in the following metal fittings.



SHO
Sapphire orifice in a brass 10-32 by 1/16 Barb. Sapphire 3-64.

SHO-10-1B-3 10-32 by 1/16 Barb .0012



SHB
1/8 NPT with 1/16 or 1/8 Barb brass or 303 stainless. Available with filter.

SHB-2B-3 1/8 NPT by 1/8 Barb .0012



SHN
A 1/8 brass or stainless hex nipple with 3-64 sapphire orifice. Available with filter.

SHN-3 1/8 NPT .0012



BSO
A 1/16 or 3/32 Barb with a 3-64 sapphire orifice.

BSO-332-3 3/32 Barb .0012



USO
A 10-32 brass bleed plug with 3-64 sapphire orifice.

USO-3 10-32 Brass .0012

Sapphire Orifice		
Size Orifice Diameter		
Number	mm	Inches
3	.03	.0012
4	.04	.0016
5	.05	.0020
6	.06	.0024
7	.07	.0028
8	.08	.0031
9	.09	.0035
10	.10	.0039
11	.11	.0043
12	.12	.0047
13	.13	.0051
14	.14	.0055
15	.15	.0059
16	.16	.0063
17	.17	.0067
18	.18	.0071
20	.20	.0079
22	.22	.0087
24	.24	.0094
26	.26	.0102
28	.28	.0110
30	.30	.0118
32	.32	.0126
34	.34	.0134
36	.36	.0142
40	.40	.0157
44	.44	.0173
48	.48	.0189
52	.52	.0205
54	.54	.0213
58	.58	.0228
64	.64	.0252

Filters of 304 stainless available in the afore mentioned units:					
3-26 orifice size	15 Micron	28-40 orifice size	25 Micron	44-64 orifice size	100 Micron

The following parts have a sapphire orifice:

Use the chart on the right for the following orifice units:



TOB
10-32 by 1/16 Barb Sapphire Orifice

TOB-6 10-32 by 1/16 .0024

TOB-64 10-32 by 1/16 .0252



TCO
10-32 Female Connector Sapphire Orifice

TCO-6 10-32 Female .0024



TPO
10-32 Plug Sapphire Orifice

TPO-6 10-32 Plug .0024

TPO-64 10-32 Plug .0252



TBB
1/16 Barbed Sapphire Orifice

TBB-6 1/16 Barb .0024

TBB-64 1/16 Barb .0252

06MM	.0024
07MM	.0028
08MM	.0031
09MM	.0035
10MM	.0039
11MM	.0043
12MM	.0047
13MM	.0051
14MM	.0055
15MM	.0059
16MM	.0063
17MM	.0067
18MM	.0071
20MM	.0079
22MM	.0087
24MM	.0094
26MM	.0102
28MM	.0110
30MM	.0118
32MM	.0126
34MM	.0134
36MM	.0142
40MM	.0157
44MM	.0173
48MM	.0189
52MM	.0205
54MM	.0213
58MM	.0228
64MM	.0252

NAR

Push-in connector for 1/8, 5/32 and 1/4 OD tubing with 10-32 threads 1/8 and 1/4 NPT. Available in the following orifice sizes:
(Example: NAR-18-003)



NAR-1018-004	10-32 by 1/8 OD with .004 Orifice	.003	.014
NAR-1018-030	10-32 by 1/8 OD with .030 Orifice	.004	.016
NAR-1018-016	10-32 by 1/8 OD with .016 Orifice	.005	.017
		.006	.018
		.007	.019
		.008	.020
		.009	.025
		.010	.030
		.012	.040

ATO

Threaded orifices made of brass, 303 or 316 stainless. 6-32, 8-32, 10-32, 1/4-28, 1/4-20, 5/16-18, or 3/8-16.



ATO-632SS-020	6-32 Stainless Steel, .020
ATO-632SS-015	6-32 Stainless Steel, .015

The following parts have a metal orifice:

Use the chart on the right for the following orifice units:



DMO

Brass or 303 stainless orifice with a 10-32 thread by a 1/16 or 1/8 Barb. Brass orifice sizes 4-35, Stainless 6-35. **DMO-1B-35-BR**



BMO

A 1/16 or 1/8 Barb fitting in brass or 303 stainless. The 1/16 is available in sizes 4-35 for brass or 6-35 for stainless. The 1/8 Barb is available to size 63. **BMO-1B-BR-6**

BMO-18-35 1/8 Barb w/ .035

BMO-16-35 1/16 Brass w/ .035

BMO-16-4 1/16 Barb w/ .0039



UMO

10-32 bleed plug of brass or 303 stainless. 4-35 for the brass and 6-35 for the stainless. FKM sealing O-ring. Available with filter on the top.

UMO-10-BR-6

UMO-4 10-32 Brass BLEED Plug .0039 Orifice

UMO-35 10-32 SS BLEED Plug .035 Orifice



HPO

Brass or 303 stainless bleed plug orifices with 1/8 or 1/4 NPT threads. Brass sizes 4-125, Stainless 6-125. 1/8 NPT available with filter.

HPO-2M-BR-28



MHO

Brass or 303 stainless hex nipple of 1/8 NPT or 1/4 NPT. Orifice sizes 4-125 for the brass and 6-125 for the stainless. Available with filter.

MHO-2M-BR-16.



AMO

10-32, 1/8, 1/4 or 1/2 NPT adapter made of brass or 303 stainless. Brass sizes are 4-125 stainless is 6-125. Available with filter. Opposite flow.

AMO-10-4 10-32 M by F w/ .0039

AMO-12-4 1/2 M by F w/ .0039

AMO-18-4 1/8 M by F w/ .0039

AMO-12-109 1/2 M by F w/ .109

AMO-14-4 1/4 M by F w/ .0039

AMO-14-109 1/4 M by F w/ .109



NAOR

10-32 by 1/8 OD	1/8 NPT by 1/8 OD	1/4 NPT by 1/8 OD
10-32 by 5/32 OD	1/8 NPT by 5/32 OD	1/4 NPT by 5/32 OD
10-32 by 3/16 OD	1/8 NPT by 3/16	1/4 NPT by 3/16
10-32 by 1/4 OD	1/8 NPT by 1/4	1/4 NPT by 1/4

Filters of 304 stainless are available in the above products above except for DMO, BMO, and NAOR.

4-10 orifice size 15 Micron 11-16 orifice size 25 Micron 17-35 orifice size 100 Micron

Metal Orifice

Size	Inches
4	.0039
5	.0051
6	.0059
7	.0071
8	.0079
9	.0091
10	.0102
11	.0110
12	.0122
13	.0130
14	.0142
15	.0150
16	.016
17	.017
18	.018
19	.019
20	.020
21	.021
22	.022
23	.023
24	.024
25	.025
26	.026
27	.027
28	.028
29	.029
31	.031
32	.032
33	.033
35	.035
37	.037
38	.038
39	.039
40	.040
41	.041
42	.042
43	.043
47	.047
52	.052
55	.055
60	.060
63	.063
67	.067
70	.070
73	.073
76	.076
79	.079
81	.081
86	.086
89	.089
94	.094
96	.096
100	.100
104	.104
109	.109
113	.113
120	.120
125	.125

Metal Orifice	
Size	Inches
80	.0135
79	.0145
1/64	.0156
78	.016
77	.018
76	.02
75	.021
74	.0225
73	.024
72	.025
71	.026
70	.028
69	.0292
68	.031
1/32	.0313
67	.032
66	.033
65	.035
64	.036
63	.037
62	.038
61	.039
60	.04
59	.041
58	.042
57	.043
56	.0465
3/64	.0469
55	.052
54	.055
53	.0595
1/16	.0625
52	.0635
51	.0637
50	.07

The following parts have a metal orifice:
Use the chart on the right for the following orifice units:



NPO
Brass 2M 1/8 Male
4M 1/4 Male



BOE - Brass 1/8 NPT Brass Adapter
BOE-2M 15/16 length
BOLE - Brass
Long version (1 3/16) Long



Aluminum
A186 .186 diameter Barrel Shape
A187 .187 diameter Cone Shape
A832 8-32 hex



ISR
Brass Thread Insert
10-32 .375 3/32 recessed hex
1/4-28 .375 1/8 recessed hex



RAO
Round Head NPT
1/8-27 2M
1/4-18 4M
3/8-18 6M
1/2-14 8M



FAOH
Flat Tip Hex
1/8 NPT 2M
5/16-24 516
1/4-28 14
10-32 10
8-32 8
6-32 6
Example: FAOH-14-54
For fractions use orifice size

Continued:

49	.073
48	.076
5/64	.0781
47	.0785
46	.081
45	.082
44	.086
43	.089
42	.0935
3/32	.0938
41	.096
40	.098
39	.0995
38	.1015
37	.104
36	.1065
7/64	.1094
35	.11
34	.111
33	.113
32	.116
31	.12
1/8	.125
30	.1285
29	.136
28	.1405
9/64	.1406
27	.144
26	.147
25	.1495
24	.152
23	.154
5/32	.1563
22	.157
21	.159
20	.161
19	.166

FILTERS

MHF

This Inline filter is made of Nylon or Polypropylene with 30, 70 or 150 micron Polyethylene filter.



MHF-2B-30	1/8 Barb 30 Micron Filter
MHF-3B-PP-70	3/16 Barb Polypropylene 70 Micron Mesh
MHF-4B-PP-150	1/4 Barb Nylon, 150 Micron Filter
MHF-4B2M-150	1/4 Barb by 1/8 NPT Polypropylene 150 Micron Mesh
MHF-4B-150	1/4 Barb Nylon 150 Micron Filter

IF-IG

This Filter is made of Polysulfone with 316 Stainless Steel Filter screen. It is resistant to high pressure. 5, 25, 43 or 75 micron filters are available for these units. Filters are just over 1 inch in length. The maximum operating pressure is 125 psi. Filters can be passivated.



IF-IG-1B-25	1/16 Barb Polysulfone, 25 Micron
IF-IG-1B-43	1/16 Barb Polysulfone, 43 Micron
IF-IG-1B-5	1/16 Barb Polysulfone, 5 Micron
IF-IG-1B-73	1/16 Barb Polysulfone, 73 Micron
IF-IG-2B-25	1/8 Barb Polysulfone, 25 Micron
IF-IG-2B-43	1/8 Barb Polysulfone, 43 Micron
IF-IG-2B-5	1/8 Barb Polysulfone, 5 Micron
IF-IG-2B-73	1/8 Barb Polysulfone, 73 Micron

IFA

These molded gray FDA approved Polycarbonate filters have 1/16 barbs and a 304 Stainless Steel screen. 100 micron is optional. Maximum operating



IFA-1B-40	1/16 Barb Gray Filter 40 Micron Polycarbonate
IFA-1B-5	1/16 Barb Gray Filter 5 Micron Polycarbonate
IFA-1B-80	1/16 Barb 304 Stainless Steel Filter 80 Micron
IFA-2B-40	1/8 Barb Gray Filter 40 Micron Polycarbonate
IFA-2B-5	1/8 Barb 304 Stainless Steel Filter 5 Micron
IFA-2B-80	1/8 Barb 304 Stainless Steel Filter 80 Micron

FV and FV-ML

This Inline Filter is for compressed air or vacuum. These units have a Polypropylene housing with a porous Polyethylene filter. Units are available with a 1/8" barb or with a male luer fitting on each end, measuring 2.4" in length and .75" in diameter. Filters are available with 10 or 25 micron filters. The recommended working pressure is 65 psi.



FV-2B-10	1/8 inch Barb 10 Micron Vacuum Filter
FV-2B-25	1/8 inch Barb 25 Micron Vacuum Filter
FV-ML-10	Male Luer 10 Micron Vacuum Filter
FV-ML-25	Male Luer 25 Micron Vacuum Filter



CUSTOM FILTERS AVAILABLE



AF-IG

This precision in-line Filter is made of Polysulfone with 10-32 UNF mounting threads and 1/16" and 1/8" barbs for ID tubing. The maximum supply pressure is 125 psi and the operating temperature range is 40° F to 120° F. The filter is a 316 Stainless Steel screen available in 5, 25, 43, or 73 microns.



AF-IG-101B-43	10-32 by 1/16 Barb 43 Micron 316 Stainless Steel
AF-IG-102B-5	10-32 by 1/8 Barb 5 Micron 316 Stainless Steel
AF-IG-1B-5	10-32 by 1/16 Barb 5 Micron 316 Stainless Steel
AF-IG-1B-25	10-32 by 1/16 Barb 25 Micron 316 Stainless Steel
AF-IG-1B-43	10-32 by 1/16 Barb 43 Micron 316 Stainless Steel
AF-IG-1B-73	10-32 by 1/16 Barb 73 Micron 316 Stainless Steel
AF-IG-2B-5	10-32 by 1/8 Barb 5 Micron 316 Stainless Steel
AF-IG-2B-25	10-32 by 1/8 Barb 25 Micron 316 Stainless Steel
AF-IG-2B-43	10-32 by 1/8 Barb 43 Micron 316 Stainless Steel
AF-IG-2B-73	10-32 by 1/8 Barb 73 Micron 316 Stainless Steel

FIF

This precision in-line Filter is made of Polysulfone with 10-32 UNF threads. It is also available with 1/16", 1/8" and .170" barbs for ID tubing. The maximum supply pressure is 125 psi and the operating temperature range is 40° F to 120° F. The filter is a 316 Stainless Steel screen available in 5, 25, 43, or 73 microns.



FIF-1032-5	10-32 Female Filter 5 Micron
FIF-1032-73	10-32 Female Filter 73 Micron
FIF-1032F-25	10-32 Female Filter 25 Micron
FIF-1032F-43	10-32 Female Filter 43 Micron

FLL-MLL Luer Filter

This is a female luer by male luer with filter installed. Nylon bodies with Nylon filters of 10, 30, 48, 70, 100, 140 or 190 micron. Polypropylene bodies with Polypropylene filters of 105 or 150 micron. PVDF bodies with PTFE filters of 70 or 150 micron. Orifices available.



FLL-MLL-K-150	FLL X MLL PVDF 150 Micron PTFE
FLL-MLL-N-10	FLL X MLL Nylon 10 Micron
FLL-MLL-N-30	FLL X MLL Nylon 30 Micron
FLL-MLL-N-48	FLL X MLL Nylon 48 Micron
FLL-MLL-PP-105	FLL X MLL Polypropylene 105 Micron

FLL 10-32 and 1/4-28 Filters

These are female luers with a filter installed. Nylon bodies with Nylon filters with 10, 30, 48, 70, 100, 140 or 190 micron. Polypropylene bodies with Polypropylene filters of 105 or 150 micron. PVDF bodies with PTFE filters with 70 or 150 micron.



FLL-1032-N-10	FLL X 1032 Nylon 10 Micron Filter
FLL-1032-PP-105	FLL X 1032 Polypropylene 105 Micron Filter
FLL-1428-70N	Female Luer Lock 1/4-28 UNF 70 Micron Nylon

FLLB Luer Filter

These female luers have 1/16", 3/32" and 1/8" barbed fittings. Nylon fittings with Nylon filters have 10, 30, 48, 70, 100, 140 or 190 micron. Polypropylene bodies with Polypropylene filters have 105 or 150 micron. PVDF bodies with PTFE filters have 70 or 150 micron.



FLLB-332-PP-150N	FLL by 3/32 Barb Polypropylene, 150 micron Nylon
FLLB-18-K-70T	FLL by 1/8 Barb PVDF, 70 micron PTFE
FLLB-18-N-70N	FLL by 1/8 Barb Nylon, 70 micron Nylon

FPD

This is a push-to-connect Filter with Polycarbonate housing, nickel plated connectors, and Buna-N seals. The Filter comes in two sizes: 2.4" and 3.15". The push-to-connect ports are on the 2.4" body are: 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2", on the 3.15" body the port sizes are: 1/4", 5/16", 3/8" and 1/2". The available screens are Sintered Bronze and Porous Polypropylene with 5, 10, 20, 40, 60 and 90 microns.



FPD-25-18	2.4" Inline Filter 1/8 Push-to-Connect	FPD-50-14	3.15" Inline Filter 1/4 Push-to-Connect
FPD-25-316	2.4" Inline Filter 3/16 Push-to-Connect	FPD-50-516	3.15" Inline Filter 5/16 Push-to-Connect
FPD-25-14	2.4" Inline Filter 1/4 Push-to-Connect	FPD-50-38	3.15" Inline Filter 3/8 Push-to-Connect
FPD-25-516	2.4" Inline Filter 5/16 Push-to-Connect	FPD-50-12	3.15" Inline Filter 1/2 Push-to-Connect
FPD-25-38	2.4" Inline Filter 3/8 Push-to-Connect		

FACL

These large 4" in-line Filters are made of Acetal housings with barbed ports measuring 1/4", 5/16", 3/8" and 1/2". Available with Polyester or Nylon screens, the filter can withstand higher pressures. The Polyester screens are 20, 60, 65 and 105. The Nylon screens are 150 and 250 microns. These filters are resistant to alcohol and fuel.



FACL-14-150	1/4 Barb Filter with 150 Micron Screen
FACL-14-250	1/4 Barb Filter with 250 Micron Screen
FACL-14-65	1/4 Barb Filter with 65 Micron Screen
FACL-38-150	3/8 Barb Filter with 150 Micron Screen
FACL-38-20	3/8 Barb Filter with 20 Micron Screen
FACL-38-250	3/8 Barb Filter with 250 Micron Screen
FACL-38-65	3/8 Barb Filter with 65 Micron Screen

FTNIL

This is a small inline-Filter with a 2 inch body made primarily of Nylon but Acetal is available. It has 1/8" or 1/4" barbed ports and the directional flow is clearly marked on the side of the body. The screens are either Nylon: 6, 10, 48 and 250 microns or Polyester: 65 and 130 microns.



FTNIL-14-10	1/4 Barb Nylon Filter 10 Micron Nylon
FTNIL-14-250	1/4 Barb Nylon Filter 250 Micron Nylon
FTNIL-14-6	1/4 Barb Nylon Filter 6 Micron Nylon
FTNIL-18-10	1/8 Barb Nylon Filter 10 Micron Nylon
FTNIL-18-250	1/8 Barb Nylon Filter 250 Micron Nylon
FTNIL-18-5	1/8 Barb Nylon Filter 5 Micron Nylon
FTNIL-18-6	1/8 Barb Nylon Filter 6 Micron Nylon
TNIL-18-65	1/8 Barb Nylon Filter 65 Micron Polyester

FTAIL

This is a small, 2 inch, in-line Filter made of Acetal housings with barbed ports and Polyester or Nylon screens. The barbs measure 1/8" and 1/4". The Polyester screens are 65 and 130 microns.



FTAIL-14-130	1/4 Barb Acetal Housing 130 Micron Polyester Screen
FTAIL-14-65	1/4 Barb Acetal Housing 65 Micron Polyester



FTAIL-18-10	1/8 Barb Acetal Housing 10 Micron Nylon Rev B
FTAIL-18-48	1/8 Barb Acetal Housing 48 Micron Nylon
FTAIL-18-65	1/8 Barb Acetal Housing 65 Micron Polyester

WPF Filters

This is an inline Filter made of Acetal, Black Acetal, Nylon, Polycarbonate, Polypropylene or PVDF with filters of those same materials and HDPE, Polyethylene and Stainless Steel. Available in barbs of 1/8", 3/16" and 1/4". Available with 10, 30, 48, 65, 105, 130, 149, 177 and 250 microns.



WPF-2B-BKAC-45 HDPE	1/8 Barb BK Acetal 45 HDPE In-Line Filter
WPF-2B-BKAC-80SS	1/8 Barb BK Acetal 80 304 Stainless Steel In-Line Filter
WPF-2B-N	1/8 Barb Nylon In-Line Filter
WPF-2B-N-10	1/8 Barb 10 Micron Nylon Filter
WPF-2B-P-105	1/8 Barb 105 Micron Polypropylene Filter
WPF-2B-PC-45PE	1/8 Barb Polycarbonate with 5/200 micron PE In-Line Filter
WPF-2B-PC-5	1/8 Barb Polycarbonate with 5/200 Micron PE In-Line Filter
WPF-2B-PCN-20/200	1/8 Barb Polycarbonate with 20/200 Micron Nylon In-Line Filter
WPF-2B-PCN-30/200	1/8 Barb Polycarbonate with 30/200 Micron Nylon In-Line Filter
WPF-2B-PVDF-250	1/8 Barb 250 Micron PVDF Filter
WPF-3B-GFP-177	3/16 Barb Polypropylene with 177M Polypropylene In-Line Filter
WPF-3B-N-30	3/16 Barb 30 Micron Nylon Filter
WPF-3B-P	3/16 Barb Polypropylene Filter
WPF-3B-P-130	3/16 Barb 130 Micron Polypropylene Filter
WPF-3B-PC-200PE	3/16 Barb with 200 Micron Polycarbonate Filter
WPF-3B-PVDF-250	3/16 Barb 250 Micron PVDF Filter
WPF-4BHF-N-75N	1/4 High Flow Barb Nylon with 75 Micron Filter
WPF-4BHF-PC-200PE	1/4 High Flow Barb Polycarbonate with 200 Filter
WPF-4B-K-200SS	1/4 Barb PVDF with 200 Micron Stainless Steel Filter
WPF-4B-K-250SS	1/4 Barb PVDF with 250 Micron Stainless Steel Filter
WPF-4B-N-48	1/4 Barb 48 Micron Nylon Filter
WPF-4B-P-149	1/4 Barb 149 Micron Polypropylene Filter
WPF-4B-PVDF	1/4 Barb PVDF Filter
WPF-4B-PVDF-250	1/4 Barb 250 Micron PVDF Filter

CFF

Small cone-shaped inline filter 3/4" by 1-1/4" length. Nylon frame with: 10, 48, or 65 micron Nylon filter media or 250 Polyester filter media.



CFF-10	Nylon Frame 10 Micron Nylon Filter
CFF-48	Nylon Frame 48 Micron Nylon Filter
CFF-65	Nylon Frame 65 Micron Nylon Screen
CFF-250	Nylon Frame 250 Micron Polyester Filter

IFF-F

This is a Borosilica Filter with 1/4" OD shafts in a Nylon housing. The filter is impregnated with PTFE to be hydrophobic, Epoxy to remove oil or Fluorocarbon for general air filtration. Available in 3 filter grades: .01, .5, and .7 maximum aerosol particle. Also available is a 44 micron Stainless Steel screen.



IFF-F-E-10	Epoxy .07 95.0 Efficiency
IFF-F-E-2	Epoxy .01 99.9999 Efficiency
IFF-F-E-4	Filter Borosilica Grade 4 Epoxy
IFF-F-E-4-1BE	Filter Borosilica Grade 4 Epoxy 1/16 Barb Elbow
IFF-F-E4-S	Filter Borosilica Grade 4 Epoxy Short
IFF-F-E4-S-1BE	Filter Borosilica Grade 4 Epoxy Short 1/16 Elbow
IFF-F-E-6	Epoxy .01 99.97 Efficiency
IFF-F-E-8	Epoxy .05 98.5 Efficiency

IFF

This is a disposable in-line Filter with a Nylon housing and standard 1/4" stems to accept tubing or push-to-connect fittings. This allows the filter to adapt to various configurations. Available with Silica Gel (SG) to remove moisture, activated Charcoal (AC) to remove oil vapor, molecular sieve (13X) to remove hydrocarbons or oil activated dye (AO) to indicate oil. 1/8" barbs and 1/8" by 3/32" elbows are also available. Flows from 1 SCFM to 170 SCFM with pressures to 5000 psi.



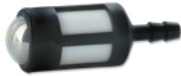
IFF-14-AC 1/4 Filter Activated Charcoal

IFF-14-MS 1/4 Filter Molecular Sieve



PPWL

5/32" barb with 75 micron porous Polyethylene with plated steel ball weight



PPWL-532

5/32 Barb Pick-Up Filter w/ Steel Ball

FTB

This Polypropylene Filter has a 3/16" hose barb connection with either a 105 or 149 micron filter. It can be used for any liquid container. The feet prevent it from clogging by not sitting flush on any surface.



FTB-3-149 3/16 Barb 149 Micron Polypropylene Filter

FTB-3-105 3/16 Barb 105 Micron Polypropylene Filter

SF

This standard filter is 5.35 inches tall. The configuration is a Nylon top with a clear Nylon bowl, EPDM gasket and your selection of mesh screen. Optional screens are Stainless Steel 20, 40, 80, 100 and 250 mesh or 70 micron Polyethylene. Used in agriculture, dental and semi-conductor and vacuum applications for water and chemicals. Connections are 3/8", 1/2", 3/4" and 1 inch Female NPT threads.



SF-12F-NNC-B-10

SF-12F-NNC-E-40

SF-12F-PP-E-80

SF-12F-PT

SF-1F-NNC-E-20

SF-1F-NNC-E-40

SF-38F-NC-E-80

SF-6F-NNC-B-10

SF-6F-NNC-E-40

SF-6F-NNC-E-70PE

SF-6F-NNC-E-80

SF-6F-PT

SF-8F-NNC-E-40

SF-8F-PC-E-40

SF-8F-PP-E-20

SF-70P

SF-80

3/4 FNPT Nylon Clear Bowl 10 Micron

3/4 FNPT Nylon Clear Bowl EPDM-40

3/4 FNPT Polypropylene E 80 Mesh Filter

Standard Filter 3/4 FNPT Polypropylene Top

1 inch FNPT Nylon Clear Bowl EPDM-20

1 inch FNPT Nylon Clear Bowl EPDM-40

3/8 FNPT Nylon Clear Bowl EPDM-80

3/8 FNPT Filter Nylon Clear Bowl 10 Micron

3/8 FNPT Nylon Clear Bowl EPDM-40

3/8 FNPT Nylon Clear Bowl EPDM 70 Micron

3/8 FNPT Nylon Clear Bowl EPDM 80 Mesh

Standard Filter 3/8 FNPT Polypropylene Top

1/2 FNPT Nylon Clear Bowl EPDM-40

1/2 FNPT Polypropylene Clear Bowl E 40 Mesh Filter

1/2 FNPT Polypropylene E 20 Mesh Filter

70 Micron Filter

80 Mesh Filter

LP

This low profile filter is just 2.5" tall. The standard configuration is Nylon top with a clear Nylon bowl. Black Polypropylene is optional. Gaskets Buna, EPDM, or FKM. Used in agriculture, dental and semi-conductor and vacuum applications for water and chemicals. Filters are: 20, 40, 100 or 250 mesh 303 Stainless Steel; 30, 60, 100 or 250 micron Stainless screen; 5 micron Polyethylene screen; 10 micron pleated paper screen. NPT thread sizes are: 1/8", 1/4", 3/8" and 1/2" Male and Female. Barb sizes are: 1/4", 3/8" and 1/2".



LP-20	Low Profile 20 Mesh Stainless Steel
LP-40	Low Profile 40 Mesh Stainless Steel
LP-B	Low profile Buna Gasket
LP-E	Low profile EPDM Gasket
LP-NB	Low profile Nylon Bowl
LP-NCB	Low profile Nylon Clear Bowl
LP-PB	Low Profile Polypropylene Bowl
LP-V	Low profile FKM Gasket
LP-70PE	Low Profile 70 Micro Nylon Polyethylene Filter
LP-80	Low Profile 80 Mesh Stainless Steel
LP-6M-PP-E-40	Low Profile 3/8 MNPT Polypropylene E 40
LP-4F-PNC-E-40	Low Profile 1/4 FNPT Polypropylene Clearbowl E 40
LP-2F-PNC-E-40	Low Profile 1/8 FNPT Polypropylene Clearbowl E 40
LP-2F-PNC-V-40	Low Profile 1/8 FNPT Polypropylene with Clearbowl FKM 40
LP-2F-PP-E-40	Low Profile 1/8 FNPT Polypropylene E 40
LP-2F-NNC-V-40	1/8 FNPT Nylon Clear Bowl FKM-40
LP-2F-PT	1/8 FNPT Polypropylene Top Low Profile Filter
LP-2M-NNC-E-40	1/8 MNPT Nylon Clear Bowl EPDM-40
LP-2M-PT	1/8 MNPT Polypropylene Top Low Profile
LP-4B-NNC-V-80	1/4 Barb Nylon with Clear Bowl FKM-80
LP-4B-NT	1/4 Barb Nylon Top Low Profile
LP-4B-PNC-V-80	1/4 Barb Polypropylene Clear Bowl FKM-80
LP-4B-PT	1/4 Barb Polypropylene Top Low Profile
LP-4F-NNC-V-40	1/4 FNPT Nylon Clear Bowl FKM-40
LP-4F-PT	1/4 FNPT Polypropylene Top Low Profile Filter
LP-4M-NC-E-20	1/4 MNPT Nylon Clear Bowl E 20 Mesh Filter
LP-4M-N-E-20	1/4 MNPT Nylon BOWL EPDM-20 Mesh
LP-4M-NNC-E-40	1/4 MNPT Nylon Clear Bowl EPDM-40
LP-4M-NT	1/4 MNPT Nylon Top Low Profile
LP-4M-PP-E-40	1/4 MNPT Polypropylene Top and Bowl E 40 Mesh
LP-4M-PT	1/4 MNPT Polypropylene Top Low Profile
LP-6B-NNC-V-80	3/8 Barb Nylon with Clear Bowl FKM-80
LP-6B-NT	3/8 Barb Nylon Top Low Profile
LP-6B-PNC-E-80	3/8 Barb Polypropylene Top Clear Bowl EPDM-80
LP-6B-PNC-V-80	3/8 Barb Polypropylene Clear Bowl FKM-80
LP-6B-PT	3/8 Barb Polypropylene Top Low Profile
LP-6F-NNC-V-40	3/8 FNPT Nylon Clear Bowl FKM-40
LP-6F-NT	3/8 FNPT Nylon Top Low Profile
LP-6F-PNC-E-100	3/8 FNPT Nylon Clear Bowl EPDM 100 Mic
LP-6F-PNC-V-80	3/8 FNPT Nylon Clear Bowl FKM-80 Mesh Filter
LP-6F-PT	3/8 FNPT Polypropylene Top Low Profile
LP-6M-NNC-E-40	3/8 MNPT Nylon Clear Bowl EPDM-40
LP-6M-PT	3/8 MNPT Polypropylene Top Low Profile
LP-8B-PNC-V-80	1/2 Barb Polypropylene Clear Bowl FKM-80
LP-8B-PT	1/2 Barb Polypropylene Top Low Profile
LP-8F-NNC-V-40	1/2 FNPT Nylon Clear Bowl FKM-40
LP-8F-PNC-B-20	1/2 FNPT Nylon Clear Bowl Buna 20
LP-8F-PNC-V-20	1/2 FNPT Nylon Clear Bowl FKM 20
LP-8F-PT	1/2 FNPT Polypropylene Top Low Profile
LP-8M-NNC-E-40	1/2 MNPT Nylon Clear Bowl EPDM-40
LP-8M-PT	1/2 MNPT Polypropylene Top Low Profile

PWF

Polypropylene housing with clear low profile (1 inch) bowl filter. Filters: 20, 40, 80, 100 or 250 Mesh 303 stainless: MH
30, 60, 100 or 250 micron stainless screen MC.
5 and 70 micron Polyethylene screen: 10 Micron paper pleated screen.



PWF-170-100MH	.170 Barb by .170 Barb 100 Mesh
PWF-14M170-20MH	1/4 MNPT by .170 Barb 20 Mesh
PWF-14F14M-100MC	1/4 FNPT by 1/4 FNPT 100 Micron
PWF-14M14M-30MC	1/4 MNPT by 1/4 MNPT 30 Micron
PWF-14F14M-60MC	1/4 FNPT by 1/4 MNPT 60 Micron
PWF-14M4P-40MH	1/4 MNPT by 1/4 OD 40 Mesh
PWF-4P4P-80MH	1/4 OD by 1/4 OD 80 Mesh
PWF-6P6P-250MC	3/8 OD by 3/8 OD 250 Micron
PWF-6P4M-10PAPER	3/8 OD by 1/4 MNPT 10 Micron Paper
PWF-4P4S-100MH	1/4 OD by 1/4 Stem 100 Mesh

MF

This filter is 3.75" tall. Standard configuration is Nylon top with a clear Nylon bowl, EPDM gasket. Black Polypropylene is optional. Used in agriculture, dental and semi-conductor and vacuum applications for water and chemicals. Filters are: 20, 40, 100 or 250 mesh 303 Stainless Steel; 70 micron Polyethylene screen; 10 micron pleated paper screen. NPT thread sizes are 1/4" and 3/8" Male and Female.



MF-14M-NC-E-80	1/4 MNPT Nylon with Clear Bowl 80 Mesh EPDM
MF2-X	1/4 FNPT 5 Micron Filter
MF-4F-PNC-E80	3/8 MNPT Polypropylene Clear Nylon EPDM 80 Mesh
MF-6M-PNCB-E-40	3/8 MNPT Polypropylene Clear Nylon Brake 40 Mesh EPDM
MF-6M-PNC-E-40	3/8 MNPT Polypropylene Clear Nylon 40 Mesh EPDM
MF-80	Mini 80 Mesh screen
MF-NCB	Mini Nylon Clear Bowl

YSL

This is an FDA approved Acetal "Y" Filter/Strainer. It has 1/4" and 3/8" female NPT thread connectors. It comes with either 100 or 200 Stainless Steel mesh. The operating pressure of 125 psi.



YSL-4F-100	1/4 FNPT 100 Micron Filter
YSL-6F-200	3/8 FNPT 200 Micron Filter

RV

This inline Strainer is made of a flexible PVC housing with 304 Stainless Steel 20, 40 and 80 mesh screens standard. It is available with 1/4", 3/8", 1/2", 3/4" and 1" female NPT threads. The maximum operating temperature is 160° F.



RV-4F-20	1/4 FNPT PVC 304 Screen 20 Mesh
RV-4F-40	1/4 FNPT PVC 304 Screen 40 Mesh
RV-4F-80	1/4 FNPT PVC 304 Screen 80 Mesh
RV-6F-40	3/8 FNPT PVC 304 Screen 40 Mesh
RV-8F-80	1/2 FNPT PVC 304 Screen 80 Mesh
RV-8F	1/2 FNPT 40
RV-12F	3/4 FNPT 40
RV-1F	1 inch FNPT 40

FIA

These adapter Filters are available as 10-32 female, or 10-32 female by male, 1/8" NPT or 1/4" NPT. Made in Brass or 303 Stainless Steel with a 304 Stainless screen. There are four screen sizes available: 10, 15, 25, or 100 micron. Used for liquids or gases.



FIA-2MF-100	1/8 MNPT by FNPT Brass/ Filter 100 Micron 303
FIA-2MF-15	1/8 MNPT by FNPT Brass/ Filter 15 Micron 303
FIA-2MF-15-SS	1/8 MNPT by FNPT Stainless Steel / Filter 15 Micron 303
FIA-4MF-10	1/4 MNPT by 1/4 FNPT Brass with Filter 10 Micron 303
FIA-4MF-100	1/4 MNPT/FNPT Brass with Filter 100 Micron 303
FIA-1032-SS-15	10-32 FNPT Stainless Steel 15 Micron
FIA-1032-15	10-32 FNPT Brass 15 Micron
FIA-4MF-SS-15	1/4 FNPT Stainless Steel 15 Micron
FIA-4MF-15	1/4 FNPT Brass 15 Micron

AHF

This Brass inline Filter has a conical shaped porous sintered Bronze element in a Brass nipple fitting. The element is available in 40 or 90 microns. The conical shape provides a larger filter surface. The connection sizes are 1/8", 1/4", 3/8" and 1/2" Male NPT threads. The operating pressure is 300 psi and the temperature range is 35° F to 300° F.



AHF-2-40	1/8 MNPT by MNPT 40 Micron Filter
AHF-4-40	1/4 MNPT by MNPT 40 Micron Filter
AHF-6-40	3/8 MNPT by MNPT 40 Micron Filter
AHF-8-40	1/2 MNPT by MNPT 40 Micron Filter

PAOF

This anodized Aluminum repairable inline Filter can be used for air, oil and water. It has male and female NPT thread sizes of 1/8", 1/4", 3/8", 1/2" and 3/4". Also available with 1/2" and 3/4" female to female NPT threads. It has a standard 40 micron sintered Bronze screen but it is also available with 20 and 90 micron. The maximum operating pressure is 500 psi. It comes with either a Buna-N or Viton® O-ring. The temperature range for Buna-N is 35° F to 200° F and for the Viton® it is 35° F to 400° F.



PAOF-2M2F	1/8 MNPT by 1/8 FNPT 40 Micron Filter
PAOF-4M4F	1/4 MNPT by 1/4 FNPT 40 Micron Filter
PAOF-6M6F	3/8 MNPT by 3/8 FNPT 40 Micron Filter
PAOF-8M8F	1/2 MNPT by 1/2 FNPT 40 Micron Filter
PAOF-12M12F	3/4 MNPT by 3/4 FNPT 40 Micron Filter
PAOF-8F	1/2 FNPT Micron Filter
PAOF-12F	3/4 FNPT Micron Filter

PHF

This Anodized Aluminum inline Filter has an operating pressure of 3000 psi with either a Buna-N or a Viton® seal. The operating temperature for Buna-N seals is 35° F to 200° F and for the Viton® seals the temperature range is 35° F to 400° F. The filter sizes available are 10, 40 and 90 micron. The conical sintered Bronze element is held in place by a retaining spring. The male NPT thread sizes are 1/4", 3/8", 1/2" and 3/4". Also available with 9/16-18 SAE and 3/4-16 SAE connections. These filters are for air, oil and water service.



PHF-4M-10	1/4 MNPT 10 Micron Filter
PHF-6M-40	3/8 MNPT 40 Micron Filter
PHF-8M-90	1/2 MNPT 90 Micron Filter

PPS

This Brass Filter has a sintered Bronze element that can handle up to 9000 psi. The Filter comes with six different porosity elements and can be used for air, oil and water. Connections are 1/4" male to 1/4" female NPT threads and 3/8" male to 3/8" female NPT threads.



PPS-4FM 1/4 FNPT by 1/4 MNPT Brass Filter
PPS-6FM 3/8 FNPT by 3/8 MNPT Brass Filter

MUFFLERS, BREATHERS & SILENCERS

TS Mufflers

This Muffler is made of high density, porous Polyethylene for the body on a solid Polyethylene base. The base is molded with 1/8", 1/4", 3/8", 1/2", 3/4" and 1" NPT threads. The maximum pressure is 150 psi and the temperature range is 41° F to 140° F. This Muffler is available in 4 air flows: 250 microns (green base), 70 microns (black base), 35 microns (red base) and 20 microns (blue base).



TS-12M-20	3/4 MNPT Muffler 20 Micron Blue
TS-12M-250	3/4 MNPT Muffler 250 Micron Green
TS-12M-35	3/4 MNPT Muffler 35 Micron Red
TS-12M-70	3/4 MNPT Muffler 70 Micron Black
TS-16M-20	1 inch MNPT Muffler 20 Micron Blue
TS-16M-35	1 inch MNPT Muffler 35 Micron Red
TS-16M-70	1 inch MNPT Muffler 70 Micron Black
TS-2M-20	1/8 MNPT Muffler 20 Micron Blues
TS-2M-250	1/8 MNPT Muffler 250 Micron Green
TS-2M-35	1/8 MNPT Muffler 35 Micron Red
TS-2M-70	1/8 MNPT Muffler 70 Micron Black
TS-4M-20	1/4 MNPT Muffler 20 Micron Blues
TS-4M-250	1/4 MNPT Muffler 250 Micron Green
TS-4M-35	1/4 MNPT Muffler 35 Micron Red
TS-4M-70	1/4 MNPT Muffler 70 Micron Black

CLF

This is a plastic Muffler with optional Brass, Polyethylene or Stainless Steel element. The sizes available are 1/8", 3/8", 1/2", 3/4" and 1" Male NPT threads. Also available in a slim version. The unit is cleanable and can be used as a Muffler or Filter.



CLF-2M	1/8 MNPT Cleanable Muffler Brass
CLF-4M-PP	1/4 MNPT Muffler Porous Plastic
CLF-2-SS	1/8 inch MNPT Stainless Filter
CLF-4-PE	1/4 inch MNPT Polyethylene Filter
CLF-6	3/8 inch MNPT with Monel Brass Filter
CLF-8	1/2 inch MNPT with Monel Brass Filter



FPS

This is a Breather with a 40 micron screen. The ousing is made of ABS plastic. This unit is cleanable. Optional screen of 30, 60, or 120 micron porous plastic available. 3/8" NPT only.



FPS-6M 3/8 inch NPT ABS Breather

**Metal Breathers
Available with
Dome Cover Caps**

MTM

Glass filled Nylon muffler breather with 10 micron element 1/4 NPT only.



MTM-14-10 1/4 MNPT Glass Filled Nylon Muffler 10 Micron
MTM-2-M 1/8 MNPT Glass Filled Nylon Muffler 10 Micron

PTV

This is a Polyethylene breather with 60 micron Polypropylene filter. The maximum pressure for this unit is 100 psi and the maximum temperature is 150° F. Male NPT sizes are 1/8", 1/4", 3/8", 1/2", 3/4" and 1". These Breathers can be cleaned with mineral spirits.



PTV-2M 1/8 Polyethylene Breather with 60 Micron Filter
PTV-4M 1/4 Polyethylene Breather with 60 Micron Filter

316 SS Available
1/8 to 1/2 NPT

CMPM

This plastic muffler has a molded acetal body and provides efficient noise reduction and filtering. The Male NPT sizes available are: 1/8", 1/4", 1/2" and 3/8". The 1/4" unit can be modified to 1/8" FNPT or FNPS threads.



CMPM-14 1/4 MNPT Acetal Muffler
CMPM-18 1/8 MNPT Acetal Muffler
CMPM-4 1/4 MNPT Acetal Muffler
CMPM-6 3/8 MNPT Acetal Muffler

PMP

This high-flow Muffler is made of Glass-Filled Nylon with a 50 mesh Stainless Steel screen. It is available with Male NPT threads of 1/8", 1/4", 3/8" and 1/2".



PMP-18 1/8 MNPT Glass Filled Nylon Muffler
PMP-14 1/4 MNPT Glass Filled Nylon Muffler
PMP-14S 1/4 inch Stem

NMP

This high-flow Muffler is made of Glass-Filled Nylon with a 40 micron sintered bronze screen. It is available with Male NPT threads of 1/8", 1/4" and 3/8". The maximum working pressure is 150 psi and the working temperature range is 35° F to 120° F.



NMP-2M 1/8 MNPT Plastic Speed Muffler

PITC

This is a single pin 5/32" bore pressure indicator made of Brass. When the white pin is extended, the indicator is on. This is a direct mount with male threads of 10-32 UNF and requires a 1/8" NPT mounting hole. The maximum input pressure is 150 psi and is recommended for air only. The minimum actuation pressure is approximately 12 psi. The hex is 1/4". 40 micron filtration is recommended.



PITC-10 10-32 Male Brass Pressure Indicator

ATTS

Brass body with sintered Bronze muffler for cylinders, gear-boxes or storage vessels. Available from Male 10-32" UNF threads and 1/16", 1/8", 1/4", 3/8", 1/2", 3/4" and 1" Male NPT threads. A 40 micron element is standard but 10 and 90 micron elements are available. Optional 303 Stainless Steel body and 316 Stainless Steel element 1/8 to 1" NPT. Stainless Steel mufflers are available with 70 micron only.

Sintered Bronze maximum operating pressure 300 psi, operating temperature 35°F to 300°F

Stainless Steel maximum operating pressure 300 psi, operating temperature 35°F to 392°F



ATTS-10	10-32 M Brass Muffler Bronze 40 Micron
ATTS-10-90	10-32 M Brass Muffler Bronze 90 Micron
ATTS-16M	1 inch MNPT Brass Muffler 40 Micron
ATTS-12M	3/4 MNPT Brass Muffler 40 Micron
ATTS-2F	1/8 FNPT Brass Muffler Bronze 40 Micron
ATTS-2M	1/8 MNPT Brass Muffler Bronze 40 Micron
ATTS-4M	1/4 MNPT Brass Muffler Bronze 40 Micron
ATTS-6M	3/8 MNPT Brass Muffler Bronze 40 Micron
ATTS-8M	1/2 MNPT Brass Muffler Bronze 40 Micron
ATTS-2M-SS	1/8 MNPT Stainless Steel Muffler 70 Micron
ATTS-4M-SS	1/4 MNPT Stainless Steel Muffler 70 Micron
ATTS-6M-SS	3/8 MNPT Stainless Steel Muffler 70 Micron
ATTS-8M-SS	1/2 MNPT Stainless Steel Muffler 70 Micron
ATTS-12M-SS	3/4 MNPT Stainless Steel Muffler 70 Micron
ATTS-16M-SS	1 Inch MNPT Stainless Steel Muffler 70 Micron



ACBV

Nickel plated Steel Muffler for gear boxes and valve ports. 10-32 UNF threads and 1/16", 1/8", 1/4", 3/8", 1/2", 3/4" and 1" Male NPT threads with a standard 40 micron sintered Bronze filter. 10 or 90 microns optional. Also available as with female 1/8", 1/4", 3/8" and 1/2" Female NPT threads. The operating pressure is 300 psi and the working temperature range is 35° F to 300° F.



ACBV-2F-40 1/8 FNPT Nickel-Plated Steel Muffler 40 Micron



ABV

This is a low-profile 303 Stainless Steel Breather Vent that can be used for vacuum relief and pressure equalization. It has standard male NPT threads of 1/8", 1/4", 3/8", 1/2", 3/4" and 1". The filter is equipped with a 316 Stainless Steel 70 micron screen.



ABV-10	10-32 UNF 303 Stainless Steel Muffler
ABV-12M	3/4 MNPT 303 Stainless Steel Muffler
ABV-16-SS	1 inch MNPT Stainless Steel Muffler
ABV-2M-SS	1/8 MNPT 303 Stainless Steel Muffler
ABV-4M-SS	1/4 MNPT 303 Stainless Steel Muffler
ABV-6M-SS	3/8 MNPT 303 Stainless Steel Muffler
ABV-8M-SS	1/2 MNPT 303 Stainless Steel Muffler

VTS

This Muffler is made with a 303 Stainless Steel body which makes it resistant to atmospheric corrosion, sterilization solutions and a wide variety of inorganic chemicals. It has a standard male pipe thread of 10-32" UNF threads and 1/8", 1/4", 3/8", 1/2", 3/4" and 1" NPT threads. The maximum operating pressure is 300 psi and the operating temperature range is 35° F to 392° F. It is equipped with a 316 Stainless Steel 70 micron filter screen. The Muffler can be used for gasoline, several chemical solutions, oil and air exhaust and intake filtering.



VTS-10-70 10-32 UNF 70 Micron Stainless Steel Muffler
VTS-2-70 1/8 MNPT 70 Micron Stainless Steel Muffler

ATBV

This is a low profile breather vent used for vacuum relief or pressure equalization for gear boxes or storage vessels. It is available in Brass, Zinc-Plated Steel and Nickel-Plated Steel. The maximum operating pressure is 150 psi and the temperature range is 35° F to 300° F for all materials. The filter element for all units is sintered Bronze with a standard of 40 microns with 10 and 90 microns available. Male thread sizes range from 10-32 UNF to 1-1/2" NPT. ***SAE Breather Vents are also available in Brass with a 70 micron sintered Bronze screen. The male thread sizes are 7/16"-20, 9/16"-18, 3/4"-16, 7/8"-14 and 1-1/16"-12. The psi and working temperatures are the same as above.



SAE



Stainless Steel



Female NPT

ATBV-10	10-32 UNF Muffler
ATBV-10SAE	Muffler Vent 10 SAE 7/8-14 40 Micron
ATBV-12M	3/4 MNPT Brass Muffler
ATBV-12M-SS	3/4 MNPT Stainless Steel Muffler
ATBV-12SAE	1-1/16 -12 SAE Thread Brass Muffler
ATBV-16M	1 inch MNPT Brass Muffler
ATBV-16M-SS	1 inch MNPT Stainless Steel Muffler
ATBV-2M	1/8 MNPT Brass Muffler
ATBV-2M-N	1/8 MNPT Muffler Vent Nickel Plated Brass
ATBV-2M-SS	1/8 MNPT Stainless Steel Muffler
ATBV-2M-SZ	1/8 MNPT Muffler Vent Steel Zinc Plated Steel
ATBV-32M-NP/S	2 inch MNPT Muffler Vent Nickel Plated Steel
ATBV-4M	1/4 MNPT Brass Muffler
ATBV-4M-SS	1/4 MNPT Stainless Steel Muffler
ATBV-4SAE	7/16-20 SAE Thread Brass Muffler
ATBV-6M	3/8 MNPT Brass Muffler
ATBV-6M-SS	3/8 MNPT Stainless Steel Muffler
ATBV-6SAE	9/16-18 SAE Thread 40 Micron Brass Muffler
ATBV-6SAE90	9/16-18 SAE Thread 90 Micron Brass Muffler
ATBV-8M	1/2 MNPT Brass Muffler
ATBV-8M-SS	1/2 MNPT Stainless Steel Muffler
ATBV-8SAE	3/4-16 SAE Thread 40 Micron Brass Muffler
ATBV-10-SS	10-32 UNF Stainless Steel Muffler

VTS-P

Nickel plated Brass countersink plug vents will fit flush in any application: gear boxes, storage tanks, single action cylinders. The Male NPT thread sizes are 1/8"-27, 1/4"-18, 3/8"-18, and 1/2"-14. 40 micron sintered Bronze filter is standard but optional 10 micron and 90 micron are available. Maximum operating pressure is 150 psi and the operating temperature is 35°F to 300°F.



VTS-P-18 1/8-27 Nickel-Plated Plug Vent
VTS-P-14 1/4-18 Nickel-Plated Plug Vent

VBV

This porous vent is made from sintered Bronze with a 303 Stainless Steel body and is used as a Muffler or Intake Breather. Standard units are 40 micron filtration but 10 and 90 microns are also available. The connection is 10-32 Male UNF threads and 1/16", 1/8", 1/4", 3/8", 1/2", 3/4" and 1" Male NPT threads. Maximum operating pressure is 300 psi and the working temperature range is 35° F to 300° F.



VBV-10-70
VBV-2-70

10-32 Male UNF 70 Micron Stainless Steel Vent
1/8 MNPT 70 Micron Stainless Steel Vent

ATSM

This is an adjustable speed Muffler made of Brass with a standard 40 micron sintered Bronze element. The maximum operating pressure is 300 psi for Male NPT thread sizes of 1/8", 1/4", 3/8", 1/2", 3/4" and 1" with the exception of the 10-32 Male UNF threads. That pressure is 150 psi. The working temperature range for all sizes is 35° F to 300° F.

This unit is also available in 303 Stainless Steel with a 316 Stainless Steel, 70 micron screen. The Stainless Steel Muffler is available with Male NPT threads of 1/8", 1/4", 3/8", 1/2", 3/4" and 1". The psi is 300 and the temperature range is 35° F to 392° F.



ATSM-16M	1 inch MNPT Adjustable Muffler 40 Micron
ATSM-12M	3/4 MNPT Adjustable Muffler
ATSM-10	10-32 UNF Adjustable Muffler 40 Micron
ATSM-2M	1/8 MNPT Adjustable Muffler 40 Micron
ATSM-4M	1/4 MNPT Adjustable Muffler 40 Micron
ATSM-6M	3/8 MNPT Adjustable Muffler 40 Micron
ATSM-8M	1/2 MNPT Adjustable Muffler 40 Micron
ATSM-2M-SS	1/8 MNPT Adjustable Muffler 70 Micron Stainless Steel
ATSM-4M-SS	1/4 MNPT Adjustable Muffler 70 Micron Stainless Steel
ATSM-6M-SS	3/8 MNPT Adjustable Muffler 70 Micron Stainless Steel
ATSM-8M-SS	1/2 MNPT Adjustable Muffler Stainless Steel
ATSM-12M-SS	3/4 MNPT Adjustable Muffler Stainless Steel
ATSM-16M-SS	1 Inch MNPT Adjustable Muffler Stainless Steel



FBP

This Breather Vent is available in Brass and 303 Stainless Steel. Both materials have 304 Stainless Steel screens in 10, 15, 25 and 100 microns. The male threads are 10-32 UNF and 1/8" and 1/4" NPT. The 10-32 does have a Viton® seal. The maximum operating pressures are: NPT Brass – 2000 psi, NPT Stainless – 4000 psi and the 10-32 threads – 100 psi.

FBP-10-15	10-32 Male UNF with 15 Micron Brass
FBP-10-25-SS	10-32 Male UNF with 25 Micron Stainless
FBP-4-10	1/4 MNPT with 10 Micron Brass



SEB

This is a Muffler for use in a solenoid exhaust port. The body is 416 Stainless Steel with a 250 micron Polypropylene screen. It will keep dirt and noise down. It has 3/8"-24 female bolt threads.



SEB-38-24 3/8-24 Muffler for Solenoid Exhaust Port

GAUGES

G1

This Pressure Gauge has an ABS case with a Brass movement and a dial size of 1". The Gauge is available in 30, 60, 100 and 160 psi. There is a 1/8" MNPT center back mount that can also accommodate a 10-32 male UNF fitting inside that 1/8" fitting. The operating temperature for this gauge is 0° F to 160° F. The maximum supply is 50% over the gauge pressure range. This gauge is recommended for use with steam, air, oil and water.



G1-CBM-30	1 inch GAUGE CBM 0-30
G1-CBM-60	1 inch GAUGE CBM 0-60
G1-CBM-100	1 inch GAUGE CBM 0-100
G1-CBM-160	1 inch GAUGE CBM 0-160

INDICATORS

NBI

This is a panel mount pressure indicator equipped with a piston/diaphragm assembly that compresses a spring which rotates a colored indicator ball. When full actuation is reached, the ball rotates fully, changing the indicator color. The colors available are black with red, green and yellow and red/green. The port threads are UNF 10-32 and male and female 1/8" NPT threads. The UNF port comes with an adapter for use with 1/16" ID tubing. The maximum pressure for the UNF port is 15 psi, for the female NPT it is 125 psi and the male NPT port is 150 psi. The working temperature range is 35° F to 150° F. These indicators are made with either an Acetal or Polypropylene body.

NBI-10-A	10-32 Male Acetal Pressure Indicator
NBI-2F-PP	1/8 FNPT Polypropylene Pressure Indicator



MPI

This is a panel-mountable compact indicator light used to monitor the presence of air pressure. The light will be clear in the absence of pressure, it will be bright when activated by approximately 10 psi. The inlet port size is 1/8" NPT or 1/16" Barb. The body can be Electroless Nickel-Plated Brass or Aluminum alloy. The panel mount hole is 0.500" and the maximum panel thickness is 0.250". The panel mount threads are 15/32-32. Maximum operating pressure is 125 psi and the maximum temperature is 140° F. The display light is available in red or green and the panel mount bezel is available in black, white or gray. It is supplied with one Electroless Nickel-Plated panel nut.



MPI-2M	1/8 MNPT Aluminum Indicator Light
MPI-1B	1/16 Barb Nickel-Plated Brass Indicator Light

CLPI

This is a multi-pin pressure indicator made of Brass. The indicator pins come in 4 colors: green, white, red and yellow. This indicator is supplied with a #15/32-32 nut and lockwasher for mounting. This is a plunger type indicator and when the pins are extended the indicator is on. The panel mount threads are 10-32 UNF. The input pressure is 150 psi with the minimum actuation pressure of 15 psi. The maximum panel thickness is 3/16". A 40 micron filter is recommended. The indicator is for use with air only.

CLPI-2-G	10-32 Female Green Pressure Indicator
CLPI-10-RD	10-32 Female Red Pressure Indicator



CMPI

This is a single pin 5/32" bore pressure indicator made of Brass. When the white pin is extended, the indicator is on. It is mountable on a maximum panel thickness of 3/16". The maximum input pressure is 150 psi and is recommended for air only. The mounting threads are 10-32 UNF and requires a 1/4" NPT diameter mounting hole. The hex measures 5/16". The indicator is supplied with 2 panel mounting nuts. 40 micron filtration is recommended.



CMPI-10-PM	10-32 Male Brass Panel Mount Pressure Indicator
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NUTS & WASHERS

CN

This is a 20% glass-filled Polypropylene Compression Nut for 1/4" OD tubing. The nut measures 5/8" by 5/8" and the thread size is 7/16-20. It has a good chemical resistance and a pressure rating of 50 psi. The temperature range is -30° F to 215° F. Additionally it is NSF 61 listed.



CN-4	1/4 Polypropylene Compression Nut
CN-4-PG	1/4 Polypropylene PG Compression Nut

FPN

This is a ribbed Nylon Nut with 3/4" female NPT threads.

FPN	3/4 Female NPT Nylon Pipe Nut
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NAC

This is an Acetal Panel Nut with a 13/16" hex and 11/16-24 UNEF threads. The temperature range -40° F to 180° F.



NAC-1116-24	11/16-24 UNEF Acetal Nut
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NSPN

This is a Nylon Hex Jam Nut available in 1/4-18, 3/8-18, 1/2-14 and 3/4-14 NPS sizes. Available in white and black Nylon

NSPN-12	1/2-14 NPS Nylon Jam Nut
NSPN-14	1/4-18 NPS Nylon Jam Nut
NSPN-34	3/4-14 NPS Nylon Jam Nut
NSPN-38	3/8-18 NPS Nylon Jam Nut



NTPN

This is a series of Nylon Hex Jam Nuts. Sizes available are 1/2-14, 1/4-18, 1/8-27, 3/4-14 and 3/8-18 NPT threads. Also available in Acetal.

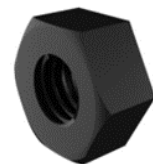


NTPN-12	1/2-14 NPT Nylon Jam Nut
NTPN-14	1/4-18 NPT Nylon Jam Nut
NTPN-18	1/8-27 NPT Nylon Jam Nut
NTPN-34	3/4-14 NPT Nylon Jam Nut
NTPN-38	3/8-18 NPT Nylon Jam Nut

NYN

This is a series of Nylon Hex Jam Nuts that are available in Nylon and Black Nylon. Sizes available are 10-32 UNF threads, 1/2-14, 5/16-24, 5/8-12 and 7/8-20 UNS threads and 1/4" and 1/8" NPT threads.

NYN-1032	10-32 UNF Nylon Nut	NYN-18NPT-NN	1/8 NPT Nylon Nut M
NYN-1224	1/2-24 UNS Nylon Nuts	NYN-51624-BN	5/16-24 UNS Nylon Nut Black
NYN-1418 NPS	1/4 NPS Nut per M	NYN-51624-N	5/16-24 UNS Natural Nylon
NYN-1418-BN	1/4 NPS Black Nylon Nut	NYN-5812	5/8-12 UNS Nylon Hex Nut
NYN-18NPS-BN	1/8 NPS Black Nylon Nut	NYN-7820	7/8-20 UNS Black Nylon Nut
NYN-18NPS-NN	1/8 NPT Nylon Nut		



WN

This is a flat Nylon Washer that measures 1.270 OD by 0.400 ID and is 0.062" thick.



WN-12604

Washer Nylon 1.270 OD, 0.400 ID, 0.062 Thick

BNPS

This is a Brass Lock Nut. It can be used with Brass, Bronze, Copper, Steel, Aluminum and Iron pipe. It meets the specifications and standards of ASA, ASME and SAE. The maximum operating pressure is 1200 psi and the temperature range is -65° F to 250° F. Sizes available

BNPS-14

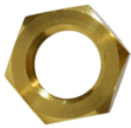
1/4 NPS Brass Nut

BNPS-38

3/8 NPS Brass Barstock Lock Nut

**BLN**

This is a Brass Lock Nut. It can be used with Brass, Bronze, Copper, Steel, Aluminum and Iron pipe. It meets the specifications and stand-



BLN-12

1/4 NPS Brass Lock Nut

BLN-2

1/8 NPS Brass Lock Nut

BLN-4

1/4 NPS Brass Lock Nut

BLN-6

3/8 NPS Brass Lock Nut

BLN-8

1/2 NPS Brass Lock Nut

FLN

This is a Brass Flare Nut that can be used with Copper, Brass, Aluminum and Steel hydraulic tubing that can be flared. It can be used for LP and natural gas, flammable liquids, hydraulics and pneumatic systems. The working temperature range is -65° F to 250° F. UNF threads available are 1/4", 3/8" and 1/2". It meets specifications of ASA, ASME, SAE and military standards.

FLN-12

1/2 Brass Flare Nut

FLN-14

1/4 Brass Flare Nut

FLN-38

3/8 Brass Flare Nut

**NB**

This is a Nickel Plated Brass 1/16-27" Nut.



NB-16/27

1/16-27 Brass Nut Nickel Plated

NS

This is a panel mount Stainless Steel Nut. Available sizes are 10-32 UNF with a 3/8" hex and 1/4-28 UNF with a 7/16" hex.

NS-1032

10-32 UNF Stainless Nut

NS-1428

1/4-28 UNF Stainless Nut



NZ

This is a Steel, Zinc-Clear Plated Panel Nut. The diameter is 1/2" by 24 thread size. The thickness is 1/8" and the flat side measures 5/8".



NZ-12-24

1/2-24 Hex Panel Nut, Zinc Plated Steel

PC

This is a 10-32 or 1/4-28 Panel Mount Lock Nut for use with FTLLB and FTLB panel. It is available in Stainless Steel or black, red and white Nylon.

PC-10N-SS	10-32 Panel Nut 18-8 Stainless
PC-14N-BK	1/4-28 Panel Nut Black Nylon
PC-14N-R	1/4-28 Panel Nut Red Nylon
PC-14N-SS	1/4-28 Panel Nut 18-8 Stainless
PC-14N-WN	1/4-28 Panel Nut White Nylon

**WZ**

This is a general purpose flat, low carbon, Zinc finish Steel washer. Its inner diameter is 10.5mm and the outside diameter is 20mm.



WZ-10.5-21

Washer Zinc Plated Steel 10.5 mm by 20mm

MANIFOLDS

ACB-Acetal Black	ACN-Acetal Natural	NYL-Nylon	NPP- Polypro	BPP-Polypro Black	PVD-PVDF
PVG- PVC Grey	PTFE - PTFE	BR-Brass	ALN-Aluminum	SS-Stainless Steel 303, 304, 316	

Plastic and METAL MANIFOLDS

Available with 2, 4, 6, 8, and 10 outlets

1/4 Inlet, 1/8 Outlet					
	2	4	6	8	10
ACB	X	X	X	X	X
ACN	X	X	X	X	X
NYL	X	X	X	X	X
NPP	X	X	X	X	X
BPP	X	X	X	X	X
PVD	X	X	X	X	X
PVG	X	X	X	X	X
PTFE	X	X	X	X	X

3/8 Inlet, 1/2 Outlet					
	2	4	6	8	10
ACB	X	X	X	X	X
ACN	X	X	X	X	X
NYL	X	X	X	X	X
NPP	X	X	X	X	X
BPP	X	X	X	X	X
PVD	X	X	X	X	X
PVG	X	X	X	X	X
PTFE	X	X	X	X	X

Order Example:

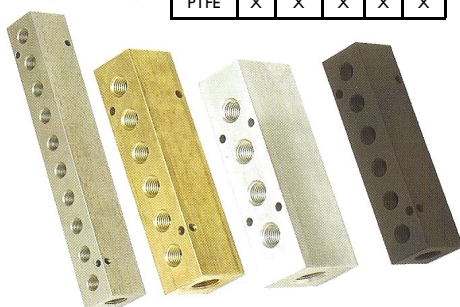
To order a Plastic Manifold with 1/2 inlets and 3/8 outlets with 6 outlet holes in the Black Polypro the code would be :

—————>

MAN6-1/2-BPP

1/2 Inlet, 3/8 Outlet					
	2	4	6	8	10
ACB	X	X	X	X	X
CAN	X	X	X	X	X
NYL	X	X	X	X	X
NPP	X	X	X	X	X
BPP	X	X	X	X	X
PVD	X	X	X	X	X
PVG	X	X	X	X	X
PTFE	X	X	X	X	X

2 Outlet
(not shown)



1/4 Inlet, 1/8 Outlet					
	2	4	6	8	10
BR	X	X	X	X	X
SS303	X	X	X	X	X
SS304	X	X	X	X	X
SS316	X	X	X	X	X
ALN	X	X	X	X	X

3/8 Inlet, 1/2 Outlet					
	2	4	6	8	10
BR	X	X	X	X	X
SS303	X	X	X	X	X
SS304	X	X	X	X	X
SS316	X	X	X	X	X
ALN	X	X	X	X	X

1/2 Inlet, 3/8 Outlet					
	2	4	6	8	10
BR	X	X	X	X	X
SS303	X	X	X	X	X
SS304	X	X	X	X	X
SS316	X	X	X	X	X
ALN	X	X	X	X	X

CMM

Anodized aluminum manifold with 1/8 female inlet and 10-32 ports. 3, 4, or 5 ports on one side. Also 1/8 with 1/8 ports and 1/4 inch with 1/4 inch



CMM-2F-3-1032 CMM-2F-3-2F
 CMM-2F-4-1032 CMM-2F-4-2F
 CMM-2F-5-1032

PMM

Anodized aluminum.



1/4-2-1/8 3/8-4-1/8 3/8-2-1/4
 1/4-4-1/8 3/8-6-1/8 3/8-4-1/4
 1/4-6-1/8 3/8-8-1/8 3/8-6-1/4
 1/4-8-1/8 3/8-10-1/8 3/8-8-1/4
 1/4-10-1/8 3/8-10-1/4

PUM & PUMM

Push to connect manifold



PUM-18 PUMR-53218 PUMR-51614
 PUM-532 PUMR-14532 PUMR-3814
 PUM-14 PUMR-516532



PUMM-2M532 PUMM-4M316-516
 PUMM-2M-532-316 PUMM-4M516-38
 PUMM-4M532-14 PUMM-6M14-516
 PUMM-4M532-516 PUMM-8M516-38

PMSR

Push to connect manifold



PMSR-532S18
 PMSR-145S32
 PMSR-516S532
 PMSR-516S316
 PMSR-516S14

Brass



HBM-1414 1/4 Inlet 1/4 Outlet
 HBM-3814 3/8 Inlet 1/4 Outlet
 HBM-3838 3/8 Inlet 3/8 Outlet

Aluminum



DMAL-1414 1/4 F Inlet 1/4 F Outlet
 DMAL-3814 3/8 F Inlet 1/4 F Outlet
 DMAL-1214 1/2 F Inlet 1/4 F Outlet

CUSTOM UNITS ALSO AVAILABLE IN PVC

CLAMPS, CLIPS AND WRAPS

TCP & TCPR

Tube clamps made of polyester for 1/4, 1/2, or 3/4 OD tubing. These units can be sterilized using Gamma, ETO, or Autoclaved. Multi-position is available for 1/2 and 3/4 size.



TCP-14	1/4 OD Tubing
TCP-12	1/2 OD Tubing
TCP-34	3/4 OD Tubing
TCP-316	3/16 OD Tubing
TCP-532	5/32 OD Tubing
TCPR-12	1/2 OD Tubing Multi-position
TCPR-34	3/4 OD Tubing Multi-position

SCM-516

Miniature hose clamps 5/16 band width made with 301 stainless and 410 stainless screw.

SCM5-58	7/32 to 5/8 SS CLAMP
SCM5-78	7/16 to 7/8 Stainless CLAMP
SCM5-1116	7/16 to 11/16 Stainless CLAMP
SCM5-1	7/16 to 5/8 Stainless CLAMP
SCM5-1-34	7/8 to 1-34 Stainless CLAMP
SCM5-1-116	1/2 to 1- 1/16 Stainless CLAMP
SCM5-1-14	9/16 to 1-1/4 Stainless CLAMP
SCM5-1-12	1-1/16 to 1-1/12 Stainless CLAMP



DTC Series

For air and heat systems, hydraulic, and electrical.



DTC-4	5/32 to 7/32
DTC-6	1/4 to 9/32
DTC-8	5/16 to 11/32
DTC-10	3/8 to 15/32
DTC-12	1/2 to 19/32
DTC-15	5/8 to 23/32
DTC-18	3/4 to 27/32
DTC-22	7/8 to 31/32

TC Series

Tube clips are available in 5/32, 1/4, or 3/16 OD tubing and sold as a single clip of ten. They can be mounted with screws or purchased with an adhesive backing.



TC-532-BLK	5/32 Tube Clamp
TC-532-BLK-ADH	5/32 Tube Clamp w/adhesive
TC-316-BLK	3/16 Tube Clamp
TC-316-BLK-ADH	3/16 Tube Clamp w/adhesive
TC-14-BLK	1/4 Black Tube Clamp

TCC Series

Tube clips are available in 3/8, 1/4, or 31/2 OD tubing and sold as a single clip of five. They can be mounted with screws on each end



Screw Mount Holes on the Side

TCC-14-2	1/4 2 Channel
TCC-38-7	3/8 7 Channel
TCC-38-10	3/8 10 Channel
TCC-12-6	1/2 6 Channel

Spiral wrap. LDPE HDPE. Available in LLDPE, MDPE, and HDPE. Colors in natural, Black, or fluorescent.



1/8	1/16 to 1/4
3/16	1/8 to 1
1/4	3/16 to 2
3/8	3/16 to 3
1/2	3/8 to 4
5/8	5/8 to 4 1/2

DBT

Dual sets of teeth to secure the clamp together. Nylon 6/6.

NUMBER	MIN	MAX	Tube
DBT-A	.220	.276	1/4
DBT-AA	.256	.323	5/16
DBT-B	.319	.382	3/8
DBT-BB	.362	.425	13/32
DBT-C	.402	.484	7/16
DBT-CC	.437	.508	1/2
DBT-D	.480	.583	1/2
DBT-E	.524	.646	9/16
DBT-F	.594	.717	5/8
DBT-G	.673	.795	11/16
DBT-H	.732	.870	3/4
DBT-J	.803	.949	7/8
DBT-K	.886	1.03	15/16
DBT-L	.976	1.13	1
DBT-M	1.05	1.22	1-1/8
DBT-N	1.15	1.319	1-1/4



OCPS and OPCD

Pinch clamps with single or double ear for securing tubing. 304 stainless steel .276 width. OPCS or OPCD

OCPS-8	1/8	OPCS-25	25/64
OCPS-9	9/64	OPCS-28	7/16
OCPS-10	5/32	OPCS-30	15/32
OCPS-12	3/16	OPCS-32	1/2
OCPS-14	7/32	OPCS-35	35/64
OCPS-16	1/4	OPCS-36	9/16
OCPS-18	9/32	OPCS-40	5/8
OCPS-20	5/16	OPCS-44	11/16
OCPS-21	21/64	OPCS-46	23/32
OCPS-24	3/8	OPCS-48	3/4



OPCD-10	5/32	OPCD-36	9/16
OPCD-11	11/64	OPCD-38	19/32
OPCD-12	3/16	OPCD-40	5/8
OPCD-16	1/4	OPCD-48	3/4
OPCD-20	5/16	OPCD-52	13/16
OPCD-24	3/8	OPCD-56	7/8
OPCD-28	7/16	OPCD-60	15/16
OPCD-32	1/2	OPCD-64	1



TUBING—PLASTIC

T-PTFE Series

PFA is translucent usable to 500°, FEP is translucent usable to 392°, FDA, USP Class VI. PTFE is opaque usable to 500° standard industrial grade. Available 25, 50, or 100 feet.



T-PTFE-1618	1/16 ID by 1/8 OD	T-PTFE-516716	5/16 ID by 7/16 OD
T-PTFE-332532	3/32 ID by 5/32 OD	T-PTFE-3812	3/8 ID by 1/2 OD
T-PTFE-16316	1/16 ID by 3/16 OC	T-PTFE-71612	7/16 ID by 1/2 OD
T-PTFE-18316	1/8 ID by 3/16 OD	T-PTFE-716916	7/16 ID by 9/16 OD
T-PTFE-1814	1/8 ID by 1/4 OD	T-PTFE-12916	1/2 ID by 9/16 OD
T-PTFE-53214	5/32 ID by 1/4 OD	T-PTFE-1258	1/2 ID by 5/8 OD
T-PTFE-31614	3/16 ID by 1/4 OD	T-PTFE-5834	5/8 ID by 3/4 OD
T-PTFE-316516	3/16 ID by 5/16 OD	T-PTFE-111634	11/16 ID by 3/4 OD
T-PTFE-14516	1/4 ID by 5/16 OD	T-PTFE-3478	3/4 ID by 7/8 OD
T-PTFE-1438	1/4 ID by 3/8 OD	T-PTFE-781	7/8 ID by 1 OD
T-PTFE-51638	5/16 ID by 3/8 OD		

PTFE Tubing Coils Available

KT Series

PVDF FDA, USP class VI. Can be used with de-ionized water.



KT-11618	1/16 by 1/8	KT-516716	5/16 by 7/16
KT-18316	1/8 by 3/16	KT-71612	7/16 by 1/2
KT-31614	3/16 by 1/4	KT-3812	3/8 by 1/2
KT-1814	1/8 by 1/4	KT-1258	1/2 by 5/8
KT-1714	.170 by 1/4	KT-5834	5/8 by 3/4
KT-316516	3/16 by 5/16	KT-3478	3/4 by 7/8
KT-51638	5/16 by 3/8	KT-781	7/8 by 1 inch
KT-1438	1/4 by 3/8		

PU85

Polyurethane 85 durometer based formula to resist UV, oil, grease, moisture and fungus making it the excellent choice for air lines. Usable in temperature from -95° to 185° F. Available in coils and multi-bonded or multi extruded configuration. Also available in 95 durometer.



PU85-11618	1/16 by 1/8	PU85-3812	3/8 by 1/2
PU85-18316	1/8 by 3/16	PU85-38916	3/8 by 9/16
PU85-1814	1/8 by 1/4	PU85-3858	3/8 by 5/8
PU85-17014	.170 by 1/4	PU85-7161116	7/16 by 11/16
PU85-31614	3/16 by 1/4	PU85-1258	1/2 by 5/8
PU85-316516	3/16 by 5/16	PU85-1234	1/2 by 3/4
PU85-14516	1/4 by 5/16	PU85-581316	5/8 by 13/16
PU85-1438	1/4 by 3/8	PU85-341516	3/4 by 15/16
PU85-1412	1/4 by 1/2	PU85-78118	7/8 by 1-1/8
PU85-51612	5/16 by 1/2	PU85-112-134	1-1/2 by 1 3/4

LPU

86 durometer polyurethane can be used for air and liquids including de-ionized water.



LPU86-11618	Urethane 1/16 by 1/8	LPU86-38916	Urethane 3/8 by 9/16
LPU86-18316	Urethane 1/8 by 3/16	LPU86-3858	Urethane 3/8 by 5/8
LPU86-1814	Urethane 1/8 by 1/4	LPU86-71658	Urethane 7/16 by 5/8
LPU86-31614	Urethane 3/16 by 1/4	LPU86-1258	Urethane 1/2 by 5/8
LPU86-316516	Urethane 3/16 by 5/16	LPU86-1234	Urethane 1/2 by 3/4
LPU86-14516	Urethane 1/4 by 5/16	LPU86-581316	Urethane 5/8 by 13/16
LPU86-1438	Urethane 1/4 by 3/8	LPU86-5878	Urethane 5/8 by 7/8
LPU86-14716	Urethane 1/4 by 7/16	LPU86-341	Urethane 3/4 by 1 inch
LPU86-1412	Urethane 1/4 by 1/2	LPU86-78118	Urethane 7/8 by 1-1/8
LPU86-516716	Urethane 5/16 by 7/16	LPU86-1114	Urethane 1 by 1-1/4
LPU86-3812	Urethane 3/8 by 1/2		

PUM80 Series

An 80 durometer polyurethane medical grade tubing that is gamma or ETO sterilizable.



PUM80-1618	1/16 by 1/8 Polyurethane FDA
PUM80-332316	3/32 by 3/16 Polyurethane FDA
PUM80-1814	1/8 by 1/4 Polyurethane FDA
PUM80-532932	5/32 by 9/32 Polyurethane FDA
PUM80-316516	3/16 by 5/16 Polyurethane FDA
PUM80-1438	1/4 by 3/8 Polyurethane FDA

ACH Series

Polyurethane coils are sold in 5, 10, 15 and 20 ft working lengths with 8 inch tails. Natural, BK, WH, and colors: BL, RD, GRN, YW. Colors available in transparent also. 85 Shore A, 1/4 by 3/8 is 90 Shore A.

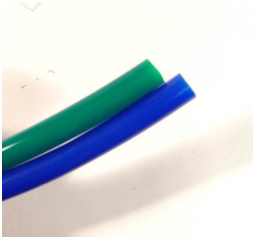
ACHI618-10-N



ACHI618-10-N	1/16 by 1/8 10 ft Natural
ACH564532-10-BL	5/64 by 5/32 10 ft blue
ACH332532-10-BK	3/32 by 5/32 10 ft Black
ACHI814-10-R	1/8 by 1/4 10 ft red
ACH532932-10-WH	5/32 by 9/32 10 ft White
ACHI438-10-GRN	1/4 by 3/8 10 ft green

PUC8 Series

Colored polyurethane tubing of a standard 85 durometer. Available in Black, red, green, blue, or yellow. Also in transparent colors. standard is clear.



PUC8-1618	1/16 by 1/8	PUC8-31614	3/16 by 1/4
PUC8-564532	5/64 by 5/32	PUC8-316516	3/16 by 5/16
PUC8-332532	3/32 by 5/32	PUC8-31638	3/16 by 3/8
PUC8-18316	1/8 by 3/16	PUC8-14516	1/4 by 5/16
PUC8-1814	1/8 by 1/4	PUC8-1438	1/4 by 3/8
PUC8-18516	1/8 by 5/16	PUC8-516716	5/16 by 7/16
PUC8-532932	5/32 by 9/32	PUC8-3812	3/8 by 1/2
PUC8-17014	.170 by 1/4		

RFV Series

Yarn reinforced vinyl 70 Shore A, FDA, NSF 51/61 in 100 or 300 ft standard coils. Heavy wall for higher pressures available. Also available in an 80 durometer FDA.



		Pressure Rating
RFV-18-312	1/8 ID by .312 OD	250
RFV-316-375	3/16 ID by .375 OD	250
RFV-14-438	1/4 ID by .438 OD	276
RFV-516-525	5/16 ID by .525 OD	276
RFV-38-594	3/8 ID by .594 OD	225
RFV-12-75	1/2 ID by .75 OD	225
RFV-58-875	5/8 ID by .875 OD	200
RFV-34-1025	3/4 ID by 1.025 OD	150
RFV-1-131	1 ID by 1.31 OD	125
RFV-125-165	1-1/4 ID by 1.65 OD	100
RFV-150-194	1-1/2 ID by 1.94 OD	100
RFV-2-25	2 inch ID by 2.5 OD	75

V68

Vinyl tubing of 68 durometer. PVC available in clear, White, green, yellow, Black, red, and blue. Additional durometer of 90. (Only available through 3/8 OD.) Multi-bonded tubing available in clear. (Example: V90-332532)



V68-11618	1/16 by 1/8	V68-316716	3/16 by 7/16
V68-11614	1/16 by 1/4	V68-31638	3/16 by 3/8
V68-332532	3/32 by 5/32	V68-1438	1/4 by 3/8
V68-18316	1/8 by 3/16	V68-14716	1/4 by 7/16
V68-1814	1/8 by 1/4	V68-516716	5/16 by 7/16
V68-532932	5/32 by 9/32	V68-51612	5/16 by 1/2
V68-5321132	5/32 by 11/32	V68-716916	7/16 by 9/16
V68-17014	.170 by 1/4	V68-3812	3/8 by 1/2
V68-31614	3/16 by 1/4	V68-1258	1/16 by 1/8
V68-316516	3/16 by 5/16		

V70FP Series

Vinyl tubing of 70 durometer. FDA CFRE 21 for food packaging and USP class VI, NSF-51, 3A, and USDA standards. For food, beverages, blood transfer, milk, and milk products.



VF70-1618	1/16 ID by 1/8 OD	VF70-1258	1/2 ID by 5/8 OD
	3/32 ID by 5/32 OD		1/2 ID by 11/16 OD
	1/8 ID by 1/4 OD		1/2 ID by 3/4 OD
	3/16 ID by 5/16 OD		5/8 ID by 7/8 OD
	1/4 ID by 3/8 OD		3/4 ID by 1 OD
	1/4 ID by 7/16 OD		1 ID by 1-1/4 OD
	1/4 ID by 1/2 OD		1 ID by 1 3/8 OD
	5/16 ID by 7/16 OD		1-1/4 ID by 1 5/8 OD
	5/16 ID by 9/16 OD		1-1/2 ID by 1 7/8 OD
	3/8 ID by 1/2 OD		1-1/2 ID by 2 OD
	3/8 ID by 9/16 OD		2 ID by 2 1/2 OD
	3/8 ID by 5/8 OD		

TYR Series

Tygon® 3603 formulation designed for laboratory applications. A 55 durometer vinyl makes it reliable for the transfer of gas and liquids. Autoclavable. Can be used for peristaltic pumps. Metric sizes available



TYR-132332	1/32 by 3/32 Tygon® R3603	TYR-1258	1/2 by 5/8 Tygon® R3603
TYR-11618	1/16 by 1/8 Tygon® R3603	TYR-121116	1/2 by 11/16 Tygon® R3603
TYR-332532	3/32 by 5/32 Tygon® R3603	TYR-1234	1/2 by 3/4 Tygon® R3603
TYR-18316	1/8 by 3/16 Tygon® R3603	TYR-581316	5/8 by 13/16 Tygon® R3603
TYR-1814	1/8 by 1/4 Tygon® R3603	TYR-5878	5/8 by 7/8 Tygon® R3603
TYR-31614	3/16 by 1/4 Tygon® R3603	TYR-581516	5/8 by 15/16 Tygon® R3603
TYR-316516	3/16 by 5/16 Tygon® R3603	TYR-341	3/4 by 1 Tygon® R3603
TYR-316716	3/16 by 7/16 Tygon® R3603	TYR-1-14	1 by 1-1/4 Tygon® R3603
TYR-1438	1/4 by 3/8 Tygon® R3603	TYR-341-18	3/4 by 1-1/8 Tygon® R3603
TYR-14716	1/4 by 7/16 Tygon® R3603	TYR-341-14	3/4 by 1-1/4 Tygon® R3603
TYR-1412	1/4 by 1/2 TYGON® R3603	TYR-781-18	7/8 by 1- 1/8 Tygon® R3603
TYR-516716	5/16 by 7/16 Tygon® R3603	TYR-11-38	1 by 1-3/8 Tygon® R3603
TYR-51612	5/16 by 1/2 Tygon® R3603	TYR-11-12	1 by 1-1/2 Tygon® R3603
TYR-516916	5/16 by 9/16 Tygon® R3603	TYR-1-141-12	1-1/4 by 1-1/2 Tygon® R3603
TYR-3812	3/8 by 1/2 Tygon® R3603	TYR-1-122	1-1/2 by 2 Tygon® R3603
TYR-38916	3/8 by 9/16 Tygon® R3603	TYR-1-342-14	1-3/4 by 2-1/4 Tygon® R3603
TYR-3858	3/8 by 5/8 Tygon® R3603	TYR-22-12	2 by 2-1/2 Tygon® R3603
TYR-716916	7/16 by 9/16 Tygon® R3603		

PVCY

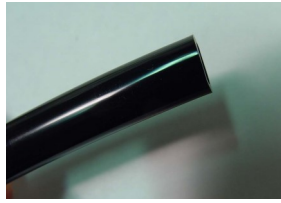
PVC fuel line tubing 65 durometer. Intermittent use with petroleum products, or constant use with cutting oils, coolants, or heating oils. Resists swelling and hardening. Also available in clear.



PVCY-332316	3/32 by 3/16	PVCY-3812	3/8 by 1/2
PVCY-1814	1/8 by 1/4	PVCY-71658	7/16 by 5/8
PVCY-316516	3/16 by 5/16	PVCY-1234	1/2 by 3/4
PVCY-1438	1/4 by 3/8	PVCY-5878	5/8 by 7/8
PVCY-516716	5/16 by 7/16	PVCY-341	3/4 by 1 inch

EVA

Ethyl Vinyl Acetate flexible clear tubing resist UV rays low pressure application an alternative to vinyl. Meets FDA requirements. 36 Shore D inter/92 Shore A outer. 100 ft coils. For air, food, water, and beverages.



EVA-1814	1/8-1/4
EVA-17014	170-1/4
EVA-316516	3/16-5/16
EVA-1438	1/4-3/8
EVA-3812	3/8-1/2
EVA-3858	3/8-5/8
EVA-1258	1/2-5/8
EVA-1234	1/2-3/4
EVA-5834	5/8-3/4
EVA-341	3/4-1
EVA-1114	1-1-1/4

BVXX

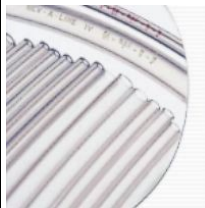
Black Hytrel® liner that is gas permeable, withstands repeated autoclaving. FDA and NSF approved. -60° to 160° F



BVXX-1714	.170 ID by 1/4 OD
BVXX-1438	1/4 ID by 3/8 OD
BVXX-3812	3/8 ID by 1/2 OD

BVIV

Translucent Polyethylene liner with ethyl vinyl acetate shell. For solids, alcohols, acids, caustics, and solvents. FDA approved. -60° to 160° F



BVIV-1814116	1/8 ID 1/4 OD 1/16
BVIV-1438116	1/4 ID 3/8 OD 1/16
BVIV-3812116	3/8 ID 1/2 OD 1/16
BVIV-1234	1/2 ID 3/4 OD
BVIV-34118	3/4 ID 1 inch OD 1/8

NLR

Natural latex rubber. 35 durometer. FDA approved, amber in color, will withstand repeated autoclaving at 250°F.



NLR-11618	1/16 by 1/8
NLR-18316	1/8 by 3/16
NLR-1814	1/8 by 1/4
NLR-316516	3/16 by 5/16
NLR-31638	3/16 by 3/8
NLR-316716	3/16 by 7/16
NLR-1438	1/4 by 3/8
NLR-14716	1/4 by 7/16

NLR-516716	5/16 by 7/16
NLR-51612	5/16 by 1/2
NLR-516916	5/16 by 9/16
NLR-3812	3/8 by 1/2
NLR-38916	3/8 by 9/16
NLR-3858	3/8 by 5/8
NLR-121116	1/2 by 11/16
NLR-1234	1/2 by 3/4
NLR-341	3/4 by 1 inch

TPR

Thermoplastic rubber tubing, -60° to 275° general purpose Black in 64 or 73 durometer. FDA approved manila colored for food and beverage. 73 durometer is available. Ozone and UV resistant.



TPR-116316	1/16 by 3/16
TPR-1814	1/8 by 1/4
TPR-1838	1/8 by 3/8
TPR-316516	3/16 by 5/16
TPR-31638	3/16 by 3/8
TPR-316916	3/16 by 9/16
TPR-1438	1/4 by 3/8
TPR-14716	1/4 by 7/16
TPR-1412	1/4 by 1/2
TPR-1458	1/4 by 5/8
TPR-516716	5/16 by 7/16
TPR-51612	5/16 by 1/2

TPR-3812	3/8 by 1/2
TPR-38916	3/8 by 9/16
TPR-3858	3/8 by 5/8
TPR-381	3/8 by 1 inch
TPR-716916	7/16 by 9/16
TPR-1258	1/2 by 5/8
TPR-121116	1/2 by 11/16
TPR-1234	1/2 by 3/4
TPR-581316	5/8 by 13/16
TPR-5878	5/8 by 7/8
TPR-58138	5/8 by 1 3/8
TPR-341	3/4 by 1 inch
TPR-1114	1 by 1-1/4

ML

Translucent USP Class VI tubing. FDA approved, no leaching or migration, no plasticizers used in manufacturing. Available in coils or spools.



ML-1850	.02 ID by .06 OD
ML-1860	.03 ID by .09 OD
ML-18160	.04 ID by .07 OD
ML-18200	.05 ID by .09 OD
ML-1861	.063 ID by .125 OD

SI Tubing

Industrial grade silicone made of FDA ingredients and able to withstand variations of temperature from -100° to 500° F. Resists UV, ozone, and moisture. NSF 51. Colored silicone available in Black, translucent green, violet, red, or yellow.



SI-1618	1/16 by 1/8	SI-316516	3/16 by 5/16
SI-16316	1/16 by 3/16	SI-31638	3/16 by 3/8
SI-332532	3/32 by 5/32	SI-316716	3/16 by 7/16
SI-332732	3/32 by 7/32	SI-14516	1/4 by 5/16
SI-18316	1/8 by 3/16	SI-1438	1/4 by 3/8
SI-1814	1/8 by 1/4	SI-516716	5/16 by 7/16
SI-18516	1/8 by 5/16	SI-14716	1/4 by 7/16
SI-1838	1/8 by 3/8	SI-1412	1/4 by 1/2
SI-532932	5/32 by 9/32	SI-51612	5/16 by 1/2
SI-5321132	5/32 by 11/32	SI-3812	3/8 by 1/2
SI-31614	3/16 by 1/4	SI-38916	3/8 by 9/16

SM Tubing

Medical grade silicone tubing USP class 6, platinum cured for purity. Will withstand repeated sterilization.



SM-012025	.012 by .025	SM-1438	1/4 by 3/8
SM-025047	.025 by .047	SM-14716	1/4 by 7/16
SM-030065	.030 by .0656	SM-1618	1/16 by 1/8
SM-040085	.040 by .085	SM-16316	1/16 by 3/16
SM-058077	.058 by .077	SM-1814	1/8 by 1/4
SM-062095	.062 by .095	SM-18516	1/8 by 5/16
SM-078125	.078 by .125	SM-31638	3/16 by 3/8
SM-104192	.104 by .192	SM-316516	3/16 by 5/16
SM-132138	.132 by .138	SM-32532	1/32 by 5/32
SM-1412	1/4 by 1/2	SM-332732	3/32 by 7/32

HDPE 65 durometer shore D

PE65-1814	1/8-1/4	PE65-3478	3/4-7/8
PE65-17014	.170-1/4	PE65-341	3/4-1 inch
PE65-316516	3/16-5/16	PE65-8411	.814-1 inch
PE65-1438	1/4-3/8	PE65-781	7/8-1 inch
PE65-516716	5/16-7/16	PE65-1114	1-1-1/4
PE65-3812	3/8-1/2	PE65-114112	1-1/4-1-1/2
PE65-1258	1/2-5/8	PE65-112134	1-1/2-1 3/4
PE65-60750	.60-.750	PE65-1342	1 3/4-2
PE65-5834	5/8-3/4	PE65-2214	2-2 1/4

PE92

A low density Polyethylene tubing of 92 durometer. This medical grade tubing can be gamma or Eto sterilized.



PE92-1610	1/16 by 1/10 LDPE FDA
PE92-1618	1/16 by 1/8 LDPE FDA
PE92-332532	3/32 by 5/32 LDPE FDA
PE92-18316	1/8 by 3/16 LDPE FDA
PE92-532732	5/32 by 7/32 LDPE FDA
PE92-17014	.170 by 1/4 LDPE FDA
PE92-316516	3/16 by 5/16 LDPE FDA

PE55

Made in Black Polyethylene with UV resistant LDPE material. 55 durometer Shore D. Metric sizes available.



PE55-11618	1/16 by 1/8
PE55-1814	1/8 by 1/4
PE55-17014	.170 by 1/4
PE55-31614	3/16 by 1/4
PE55-1438	1/4 by 3/8
PE55-44012	.440 by 1/2
PE55-3812	3/8 by 1/2
PE55-1258	1/2 by 5/8
PE55-5834	5/8 by 3/4

PE-C

Linear low density Polyethylene tubing that is NSF 51/61 approved and FDA approved. Black is UV stable. Good to 230 psi at 70F or 120 at 150 F for 3/8 OD and below. Natural, WH, BLK, BL or, GN, or YW up to 3/8. 3/8 by 1/2 is only available in natural, BLK, BL, and RD.



PE-C-17014-N	.170 by 1/4
PE-C-17014-V	.170 by 1/4 Violet
PE-C-17014-WH	.170 by 1/4 White
PE-C-17014-RD	.170 by 1/4 Red
PE-C-17014-BL	.170 by 1/4 Blue
PE-C-17014-BLK	.170 by 1/4 Black
PE-C-17014-YLW	.170 by 1/4 Yellow
PE-C-17014-ORG	.170 by 1/4 Orange
PE-C-17014-GRN	.170 by 1/4 Green
PE-C-35-N	3/16 by 5/16
PE-C-68-N	3/8 by 1/2

PP80

Opaque Polypropylene material FDA, USP Class 6 material. 80 durometer Shore R.



PP80-11618	1/16 by 1/8
PP80-1814	1/8 by 1/4
PP80-17014	.170 by 1/4
PP80-31614	3/16 by 1/4
PP80-1438	1/4 by 3/8
PP80-44012	.440 by 1/2
PP80-3812	3/8 by 1/2
PP80-1258	1/2 by 5/8

Nylon 6, I60F and 6/6 225F, semi flexible tubing in natural and Black. Also available in metric. Low permeability to gasoline, mineral oil, and refrigerants. For use with push-in fittings.



size	OD	standard Lengths	PRESSURE RATING
.078 by .125	1/8	100, 500	2,500 psi
.096 by .125			
.106 by .156	5/32		
.110 by .187	3/16		
.138 by .187			
.150 by .250	1/4	100, 250	2,500 psi
.190 by .250			
.188 by .312	5/16	100, 250	2,500 psi
.242 by .312			
.225 by .375	3/8	100, 250	2,500 psi
.295 by .375			
.290 by .500	1/2	100	2,500 psi
.380 by .500			

Nylon 11 flexible tubing in natural, Black, blue, green, red, or yellow. 100, 500, and 1,000 ft coils. 5/16 OD and larger in 100 or 500 ft. coils. Metric sizes available in Black or natural. 200 psi For use with push-in fittings or compression fittings



N11-07918	.079 by 1/8 N/B	N11-180250	.180 by 1/4
N11-09318	.093 by 1/8	N11-232516	.232 by 5/16
N11-106156	.106 by 5/32	N11-27538	.275 by 3/8
N11-138187	.138 by 3/16	N11-37512	.375 by 1/2
N11-17014	.170 by 1/4		

Nylon 11 COILED HOSES, Blue Only, IN 1/8, ID AVAILABLE IN 5, 10, 15, 20, and 25 FOOT Lengths with 1/8 NPT Fittings on EACH End



Nylon 11 COILED HOSES, Yellow or Red, IN 3/16, 1/4, and 5/16, ID. AVAILABLE IN 12, 17, and 25 FOOT Lengths with 1/4 NPT Fittings

Nylon 12 flexible tubing temperature rating 150, in natural, Black and blue



N12-18	.091 by 1/8 N, B, BL
N12-532	.106 by 5/32 N, B, BL
N12-316	.139 by 3/16 N, B, BL
N12-14	.180 by 1/4 N, B, BL
N12-516	.232 by 5/16 N, B, BL
N12-38	.275 by 3/8 N, B, BL
N12-12	.376 by 1/2 N, B, BL

CHARTS

BARB STYLES

R series

This industrial grade unit has a rib behind the Barb to prevent tubing from rotating and no parting line on the Barb. Available in natural Nylon, natural Polypropylene, natural HDPE, natural PVDF, Black Nylon and tan PVDF. Natural material is suitable for NSF.

O series

The original Barb with no parting line on the Barb. Tubing can be started on the Barb before any expansion begins. Will expand tubing 43% when completely inserted.

C series

Commercial grade unit for many applications, molded of White Nylon, natural Polypropylene or natural PVDF.

I series

A standard low cost industrial grade unit with a parting line on the barbed surface. These units are molded in natural Nylon or natural Polypropylene.

S series

Standard single Barb style fitting molded with no parting line on the Barb. Used for medical and laboratory environments. Molded of White Nylon, natural Polypropylene and natural PVDF. Expands tubing 50% above its normal size.

A series

Acute Barb units are used for lower pressure applications and aids the fatigue of assembly operators. These units expand the tubing 25% above its normal size.

B series

Has a standard blunt end with typical 4 Barb configuration. Good for use with Polyethylene tubing.

U series

U style is the ultimate use for soft tubing providing the maximum flow through the fitting.

standard temperature ratings for plastic materials

PVDF	-80° to 220°
Glass Filled Nylon	-9° to 135°
Nylon	-60° to 170°
Acetal	-40° to 180°
Polypropylene	32° to 180°

Hardness

Shore A	Shore D	
20		
30		Latex
40		
50		Silicone
60		TPR
70		PVC
80		Polyurethane
90	40	Polyethylene
100	50	Polyethylene
	60	PTFE
	70	Nylon

Pressure Conversion

Bar	psi	H2O	mm HG	Inches HG
.007	.1	3"	5.59	.20
.014	.2	6"	11.19	.41
.03	.5	12"	25.85	.89
.06	1	24"	51.75	1.77
.13	2	52"	103.43	3.85
.20	3	80"	155.14	5.92
.25	3.62	100"	187	7.41
.27	4	108	206.86	8

O-Ring

Material	Color	Purpose
Nitrile	Black	General purpose, petroleum
Neoprene	Red	For refrigerants
Ethylene Propylene	Purple	Steam, water, MEK
Fluorocarbon	Brown	Petroleum oils
Silicone	Rust	Dry heat
Fluorosilicone	Blue	Heat and oils

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

inch FRACTIONS	inch DECIMALS	MILLIMETERS
	.003937	.1
	.007874	.2
	.011811	.3
1/64	.015625	.3969
	.015748	.4
	.19685	.5
	.023622	.6
	.027559	.7
1/32	.03125	.7938
	.031496	.8
	.035433	.9
	.03937	1.
3/64	.046875	1.1906
1/16	.0625	1.5875
5/16	.78125	1.9844
	.078740	2.
3/32	.09375	2.3813
7/64	.109375	2.7781
	.118110	3.
1/8	.125	3.175
9/64	.140625	3.5719
5/32	.15625	3.9688
	.157480	4.
11/64	.171875	4.3656
3/16	.1875	4.7625
	.196850	5.
13/64	.203125	5.1594
7/32	.21875	5.5563
15/64	.234375	5.9531
	.236220	6.
1/4	.250	6.350
17/64	.265625	6.7496
	.275591	7.

inch FRACTIONS	inch DECIMALS	MILLIMETERS
9/32	.28125	7.1438
19/64	.296875	7.5406
5/16	.3125	7.9375
	.314961	8.
21/64	.328125	8.3344
11/32	.34375	8.7313
	.354331	9.
23/64	.359375	9.1281
3/8	.375	9.525
25/64	.390625	9.9219
	.393701	10.
13/32	.40625	10.3188
27/64	.421875	10.7156
	.433071	11.
7/16	.4375	11.1125
29/64	.453125	11.5094
15/32	.46875	11.9063
	.472441	12.
31/64	.484375	12.3031
1/2	.500	12.700
	.511811	13.
33/64	.515625	13.0969
17/32	.53125	13.49348
35/64	.546875	13.8906
	.551181	14.
9/16	.5625	14.2875
37/64	.578125	14.6844
	.590551	15.
19/32	.59375	15.0813
39/64	.609375	15.4781
5/8	.625	15.875
	.629921	16.

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

INCH FRACTIONS	INCH DECIMALS	MILLIMETERS
41/64	.640625	16.2719
21/32	.65625	16.6688
	.669291	17.
43/64	.671875	17.0656
11/16	.6875	17.4625
45/64	.703125	17.8594
	.708661	18.
23/32	.71875	18.2563
47/64	.737375	18.6531
	.748031	19.
3/4	.750	19.050
49/64	.765625	19.4469
25/32	.78125	19.8438
	.787402	20.
51/64	.796875	20.2406
13/16	.8125	20.6375
53/64	.828125	21.0344
27/32	.84375	21.4313
55/64	.859375	21.8281
	.866142	22.
7/8	.875	22.225
57/64	.89065	22.6219
	.905512	23.
29/32	.90625	23.0188
59/64	.921875	23.4156
15/16	.9375	23.8125
	.944882	24.
61/64	.953125	24.2094
31/32	.96875	24.6063
	.984252	25.
63/64	.984375	25.0031
1	1.	25.400

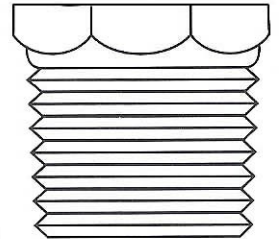
COMPARATIVE PARTICLE SIZE

U.S. MESH	INCHES	MICRONS	MILLIMETERS
3	.265	6730	6.73
3 1/2	.223	5660	5.66
4	.187	4760	4.76
5	.157	4000	4.00
6	.132	3360	3.36
7	.111	2830	2.83
8	.0937	2380	2.38
10	.0787	2000	2.00
12	.0661	1680	1.68
14	.0555	1410	1.41
16	.0469	1190	1.19
18	.0394	1000	1.00
20	.0331	841	.84
25	.0280	707	.71
30	.0232	595	.59
35	.0197	500	.50
40	.0165	420	.42
45	.0138	354	.354
50	.0117	297	.297
60	.0098	250	.25
70	.0083	210	.21
80	.0070	177	.177
100	.0059	149	.149
120	.0049	125	.125
140	.0041	105	.105
170	.0035	88	.088
200	.0029	74	.074
230	.0024	63	.063
270	.0021	53	.053
325	.0017	44	.044
400	.0015	37	.037
500	.0013	25	.025

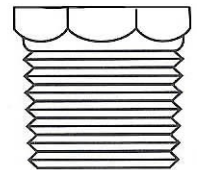
NATIONAL PIPE THREADS

Pipe size	TPI	Thread Diameter
1/16	27	0.3
1/8	27	0.4
1/4	28	0.54
3/8	18	0.675
1/2	14	0.83
3/4	14	1.05
1	11-1/2	1.3
1-1/4	11-1/2	1.65
1-1/2	11-1/2	1.9
2	11-1/2	2.36
2 1/2	8	2.87
3	8	3.5
3 1/2	8	4
4	8	4.5
5	8	5.56
6	8	6.6

3/4 NPT



1/2 NPT



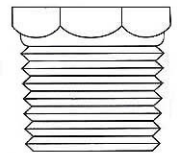
THREAD TYPES

BSPP	British standard Pipe Parallel
BSPT	British standard Pipe Taper
GHT	Garden Hose Thread
NPT	National Pipe Taper
NPTF	National Pipe Taper Dry Seal
NPSH	National Pipe Straight
UNF	United Fine Thread
ISO G	Parallel Thread
ISO R	Taper Thread
JIS B	Japanese Industrial standard

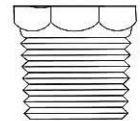
SCREW THREADS

3-56	UNF
4-40	UNC
4-48	UNF
6-32	UNC
8-32	UNC
10-24	UNC
10-32	UNF
1/4-20	UNC
1/4-28	UNF
5/16-18	UNC
7/16-20	UNF
7/16-24	UNS
7/16-28	UNEF
1/2-20	UNF
1/2-24	UNS
9/16-18	UNF
5/8-20	UN
1 1/16-24	UNEF
3/4-20	UN
7/8-20	UNF

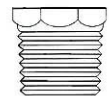
3/8 NPT



1/4 NPT



1/8 NPT



1/16 NPT



Medical Grade Luer Resin Specifications

Nylon: Zytel 101F NC010

Maximum Pressure: 125 psi @ 72° F (without clamps).

Temperature Range: -40° to 200° F (-40 to 93°C)

Available in colors. (Order minimums may apply)

Excellent strength. Good chemical, impact, and abrasion resistance.

Sterilization methods include: Gamma Radiation (may discolor), EtO, and autoclave (chance of slight swelling due to water absorption).

Polypropylene: Animal Free

Certified animal-free USP Class VI Polypropylene as its core resin. Maximum Pressure: 125 psi @ 72° F (without clamps).

Temperature Range: 0° to 275° F (-17 to 135°C).

Available in colors. (Order minimums may apply)

Excellent strength. Good chemical, impact, and abrasion resistance.

Sterilization methods include: Gamma Radiation (may discolor), EtO, and autoclave (chance of slight swelling due to water absorption).

USP Class VI

Polycarbonate: Makrolon 2558

Maximum Pressure: 125 psi @ 72° F (without clamps).

Temperature Range: 0° to 200° F (-17 to 93°C).

Available in colors. (Order minimums may apply)

Fair Strength. Very good chemical resistance, fair impact, and abrasion resistance.

Sterilization methods include: Gamma Radiation and EtO.

USP Class VI

Radiation Stable Polycarbonate: Calibre MegaRad 208I 15 MFR

Maximum Pressure: 125 psi @ 72° F (without clamps).

Temperature Range: 0° to 200° F (-17 to 93°C).

Available in colors. (Order minimums may apply)

Fair Strength. Very good chemical resistance, fair impact, and abrasion resistance.

Sterilization methods include: Gamma Radiation and EtO.

USP Class VI, ISO 10993

PVC: Alpha PVC 2212RHT/1-118 Clear 080X

Maximum Pressure: 125 psi @ 72° F (without clamps).

Temperature Range: 0° to 147° F (-17 to 63°C).

Available in colors. Order minimums may apply)

Fair Strength. Very good chemical resistance, fair impact, and abrasion resistance.

Sterilization methods include: Gamma Radiation and EtO.

Sterilization

Autoclave

Moist heat, in the form of pressurized steam is the most dependable medium for the destruction of all forms of microbial life.

Packaging must allow for penetration of steam.

Gamma Radiation

Gamma radiation kills microorganisms by attacking the DNA molecule preventing cellular division, hence the propagation of life. Packaging remains intact with Gamma processing. Not compatible with PVC, PTFE or Acetal.

Ethylene Oxide

An odorless gas at normal room temperature, this gas is flammable and explosive. Packaging requires gas permeability.

PTFE

PTFE

Opaque very lubricous

500° F 260 ° C continuous service

FEP Translucent

400 ° F 200 ° C continuous service

PFA Translucent

500 ° F 260 °C continuous service

Smoother surface than PTFE or FEP

NSF

National Sanitation Foundation

NSF 51- Food processing liquid and powders for food processing

NSF 61 -Potable water sink and faucet lines

Terms and Conditions

PAYMENT

Prices are charged according to the quoted price at the time of order. Prices are subject to change without notice. Pneuline Supply Inc. requires a \$30 minimum per order for any and all products. Pneuline Supply Inc. gladly accepts checks; wire transfers, Visa/Master Card and purchase orders as methods of payment. Purchase orders are accepted only after credit is approved. Wire transfers will be charged an additional \$10.00 banking fee. All pre-paid orders may be paid by check, or charged to any on to a credit card. Purchase orders must be paid within 30 days of invoice issue date to keep an open account status.

WARRANTIES

All products are shipped free of defect in material and workmanship. If product does not meet criteria, it will be replaced or repaired as long as all pieces are returned within 60 days of invoice date. No warranty of merchantability or fitness or any other warranty is expressed or implied. Pneuline Supply is not responsible for consequential or other damages or expenses incurred through use of products. Products are not intended for human implantation or aircraft applications. Pneuline Supply encourages its customers to request free samples for testing and evaluation before final purchase.

SHIPPING

All orders are FOB Greeley, Colorado, USA. standard shipping for orders is UPS Ground prepaid and is added to the invoice plus a \$3.00 handling charge unless otherwise arranged by the customer.

RETURNS

If products are damaged or if an error occurred in filling your order, Pneuline Supply Inc. must be contacted within 14 days from receipt of the order. Returns for credit must be received 30 days from date of shipment and pre-approved, as well as a return authorization number issued. Product must be returned freight prepaid; a restocking charge is assessed on all returns. Special orders are not returnable. Products accepted for return are subject to a restocking fee of 20% of the invoice amount. Unauthorized returns will be shipped back and re-invoiced with a minimum handling charge of \$25 added.

All data given for room temperature (72° F)

A - Recommended	Hasstelloy	304 SS	316 SS	Nylon	Fluorosilicone	Polypropylene	PVDF	Acetal	Polysulfone	Polycarbonate	FKM	EPDM	KALREZ®	Buna-N	Silicone	Neoprene
B - Minor to Moderate Effect																
C - Moderate to Sever Effect																
D - Not Recommended																
Blank - No Data																
Acetic Acid	A	A	A		B	A	A	A	A	A	A	A	A	B	A	D
Acetic Anhydride (Acetyl Oxide)	A		A	A	D	A	A	D	D	D	B	B	A	C	A	D
Acetone (Dimethyl Keytone)	A	A	A	A	D	A	A	B	A	A	D	A	A	D	A	
Acetonitrile (Methyl Cyanide)	B	A	A	A	D	A	A	D	D	D	D	A	A	C	A	D
Aluminum Sulfate (Aluminum Salt)	A		A	A	A	A	A	A	A	A	A	A	A	A	A	A
Amines (General)	A		A	D	D	A	D	D		D	D	A	A	D	A	
Amonia Gas (Anhydrous)	A	A	A			A	A	D	C	D	D	A	A	A	A	
Ammonia (Aqueous)(Ammonium Hydrate)	A		A	A	D	A	A	D	A	D	A	A	A	A	A	
Ammonium Acetate	A	B	A	A		A	A	A	A	A	A	A	A	A	A	D
Ammonium Fluoride	A		A			A	A			D	A	A	A	A	A	A
Ammonium Hydroxide (Ammonia, Aqueous)	A	A	A			A	A	A	A	C	A	A	A	A	A	A
Ammonium Sulfate (Dolamin)	A	B	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Aqua Regia (NitroHydrochloric Acid)	D	D	D		C	C	A	D	D	D	A	B	A	D	A	D
Benzene (Mineral Naphtha)(Benzol)	A	A	A	A	A	A	A	A	D	D	B	D	A	D	D	D
Butyl Acetate (N-Butyl Acetate)	A		A	A	D	D	A	A	D	D	D	B		D	D	
Calcium Carbonate (Aglime)	B	A	A	A	A	A	A	A		C	A	A	A	A	A	A
Ceric Ammonium Nitrate (CAN)																
Chlorine (Anhydrous)(Dichlorine, Chlorinated Water)	A	A	A	C		D	A	D	D	D	C	B	A	C	D	D
Citric Acid	A		A	A	A	A	A	A	A	A	A	A	A	A	A	A
Copper Sulfate (Cupric Sulfate)	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A
Corn Oil	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Corn Syrup		A	A			A	A	A	A	A	A	A	A	A	A	A
Cotton Seed Oil	A	A	A	B	A	A	A	A	D	D	D	B	B	D	D	A
Cyclohexanone (Cyclohexyl Ketone)						A	A				D		A	D	A	
Dichloroacetic Acid (DCA)						A	A				D		A	D	A	
Dichloromethane (Methylene Dichloride)	A		A			D	A	A	D	D	B	B	A	D	A	D
Diesel Fuel				A		A	A									D
Dimethyl Acetamide (DMAC)						A	D		D	D						
DI Water	A		A			A	A		A		A	A	A	A	A	
Ethyl Alcohol (Ethanol/Grain Alcohol)(Denatured Alcohol)	A	A	A		A	A	A	A	A	A	A	A	A	A	A	A
Ethylene Glycol (Glycol Alcohol)(Anti-Freeze)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl Acetate (Acetic Ether)	A	A	A	A		A	A	A	D	D	D	A	A	D	A	D
Ether (Ethyl Ether) (Diethyl Oxide)	A	A	A	A	C	D	A	A	D	D	D	D	A	D	A	D
Formaldehyde		A			D						D	A			B	A
Formic Acid (Formylic Acid)	A	A	A	D	C	A	A	D	A	A	A	A	B	B	B	A

All data given for room temperature (72° F)

	Hastelloy	304 SS	316 SS	Nylon	Fluorosilicone	Polypropylene	PVDF	Acetal	Polysulfone	Polycarbonate	FKM	EPDM	KALREZ®	Buna-N	Silicone	Neoprene
A - Recommended																
B - Minor to Moderate Effect																
C - Moderate to Severe Effect																
D - Not Recommended																
Blank - No Data																
Gasoline (Petrol)	A	A	A	A	D	A	A	A	C	A	D	A	D	D	A	
Glycerin (Glycerol)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Hexane (Dipropyl) (N-Hexane)	A	A	A	B	A	B	A	A	A	A	D	A	A	A	A	
HMDS (1,1,1,3,3,3-Hexamethyldisilazane)Bis (trimethylsilyl)amine												A			A	
Honey	A		A	A		A	A		A	A	A	A		A	A	A
Hydrobromic Acid (Hydrogen Bromide)	A	D	D		C	A	A	A	A	A	A	A	A	A	A	D
Hydrochloric Acid (Muriatic Acid)	A	D	D	D		A	A	A	A	A	A	A	A	A	A	D
Hydrofluoric Acid	A	C	A			A	A	A	A	A	A	A	A	A	A	D
Hydrogen Peroxide	A	C	A	C	A	A	A	D	A	A	A	B	A	B	A	D
Iodine	A	C	A	A	A	A	A	A	D	D	A	A	A	A	A	D
Isopropyl Alcohol (IPA)(Isopropanol)	A	A	A			A	A	A	A	A	A	A	A	A	A	
Kerosene	A	A	A	A	A	A	A	A	A	A	D	A	A	A	D	D
Limonene/DL-Limonene (Orange Oil)	A		A			B	A	D	C	C	A			A	D	
Methyl Alcohol (Methanol)(Wood Alcohol)	A	A	A		A	A	A	A	A	D	A	A	A	A	A	A
Methylene Chloride	A	A	A			D	A	A	D	D	B	B	A	D	A	D
Methyl Ethyl Keytone (MEK)	A		A	A	D	A	A	A	D	D	D	A	A	D	D	D
MINNCARE® Cold Sterilant(Hydr. Peroxide, Peracetic Acid, Acetic Acid)	A		A			A	A		A	A	B	B	A	B	A	
N-Methyl 2-Pyrrolidone						A	D		D		D	D	A		A	
Nitric Acid (Hydrogen Nitrate)	A	A	A		D	A	A	D	A	A	A	A	A	D	A	D
Oil, Corn	A		A	A	A	B	A	A	A	A	D	A	A	A	A	D
Oil/Lubricants, General	A		A			D	A	A	A	A	D	A	A	D		
Oil, Mineral	A		A	A	A	D	A	A	A	A	D	A	A	B	A	
Oil, Olive	A		A	A		B	A	A	A	A	B	A	A	D	A	
Oil, Vegetable	A		A			A				A	A	A	A	A	A	
Oxalic Acid (Ethanediolic Acid)	A	A	A	B	A	A	A	C	A	A	A	A	A	A	A	A
Oxygen, Cold					A						A	A			A	
Oxygen, Gas				A		A		A	A	A	A	A		A	A	A
Oxygen, 200-400° F					D						D	B			D	
Ozone (Trioxigen)	A	A	A	D	B	D	A	D	A	A	A	A	A	D	A	
Phosphoric Acid	A		A		B	A	A	C	A	A	A	A	A	A	A	A
Propylene Glycol (PG-12)	B		A	A		A	A	A	B	C	A	A	A	A	A	A
PGMEA (Propylene Glycol Monomethyl Ether Acetate)																

All data given for room temperature (72° F)

	Hasstelloy	304 SS	316 SS	Nylon	Fluorosilicone	Polypropylene	PVDF	Acetal	Polysulfone	Polycarbonate	FKM	EPDM	KALREZ®	Buna-N	Silicone	Neoprene
A - Recommended																
B - Minor to Moderate Effect																
C - Moderate to Severe Effect																
D - Not Recommended																
Blank - No Data																
PGME (Propylene Glycol Monomethyl Ether)	A		A			A	A				D	A	A		A	
Potassium Carbonate (Carbonic Acid)(Potash)	A	A	A	A		A	A	A	A	A	A	A	A	A	A	
Potassium Hydroxide (Caustic Potash)	A	A	A	C	C	A	A	B	A	C	A	A	A	A	A	
Potassium Permanganate	A	B	A	D		A	A	A	A	A	A	A	A	A	A	A
Pyridine (Azine)	A		A	C	D	A	D	A	A	D	D	B	A	D	A	D
Salt Brine (NaCl Saturated)		B		A		A	A									A
Salt Water		C		A	A	A	A				A	A			A	A
Sodium Bicarbonate (Baking Soda)	A		A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Carbonate (Soda Ash)	A		A	B	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Chloride (Salt)	A		A	A	A	A	A	A	A	A	A	A	A	A		A
Sodium Hydroxide (Caustic Soda)	A		A	A		A	A	A	A	A	B	A	A	A	A	D
Sodium Hypochlorite (Bleach) (5%)	A	D	D	D		B	A	D	A	A	A	A	A	D	A	D
Soybean Oil	A	A	A	A	A	A	A	A		A	A	D	A	A	D	
Steris® CIP 100 (Potassium Hydroxide &	A		A			A	A				A	A	A		A	
Steris® CIP 200 (Phosphoric Acid & Citric	A		A			A	A	C	A	B	A	A	A	A	A	
Sulfuric Acid (Air-Free)(Better When Aerated)	A		A			A	A	A	A	A	A	A	A	A	A	D
Tetrachloroethylene (PERC/PERK)	A		A			D	A	A	D	D	A	D	A	D	D	D
Tetrahydrofuran (Tetramethylene Oxide)	A		A			C	C	A	D	D	D	D	A	D	A	D
Tetramethyl Ammonium Hydroxide (TMAH)						A	A									
Thionyl Chloride (Sulfinyl Chloride)(Sulforous Chloride)		D	D			D	D	A	D	D	A	D	A	D	A	D
Toluene (Toluol)	A	A	A			D	A	A	D	D	A	D	A	D	A	D
Trichloroacetic Acid (TCA)	A	D	D	C	D	A	A	D	B	A	D	B	A	D	A	A
Trichloroethylene (Ethylene Trichloride)(Triad)	B		A			D	A	A	D	D	D	B	A	D	A	D
Xylene (Xylol)	A		A	A	A	C	A	A	D	D	A	D	A	D	A	D

Plastic Check Valves, Spring-Loaded Valves,
Bulkheads, Filters, and Fittings

SPECIALIZED MOLDING CAPABILITIES

Sizes | Materials | Seals | Labeling | Packaging

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2881 S 31st Ave, Unit 2A
Greeley, Colorado 80631

sales@pneulinesupply.com

office (970) 506-9670

Fax (970) 330-1089

www.pneulinesupply.com

