

BRASS PRODUCTS

August, 2015 • Prices are subject to change without notice

Air Brake Fittings for Nylon Tubing	2	Garden Hose Fittings	22
Air Brake Fittings for Copper Tubing	4	Nylon Hose Barbs	22
Push-In Air Brake Fittings for Nylon Tubing	6	Brass Hose Barbs	23
National Pipe Taper Fuel (NPTF)	8	Brass Hose Ferrules and Clamps	25
Compression Tube Fittings	10	Brass Ferrule Crimpers	27
SAE J512 45° Flared Tube Fittings	12	Brass Ball Valves	28
Push-In Tube Fittings	14	Drain Cocks and Needle Valves	29
SAE J512 Inverted Flare Tube Fittings	16	Ground Plugs and Shut-Off Valves	30
Coiled Air Hose Assemblies	18	Low Pressure Hose and Tubing	31
Threaded Sleeve Tube Fittings	18	Cutting, Bending and Flaring Tools	36
Poly-Tube Flareless	19	Port and Connector Thread Sizes	38
Push-Lock Hose Barbs	20		



DiscountHydraulicHose.com
is brought to you by:

Hydraulax Products Inc.
5606 Tulip Street
PO Box 9580
Philadelphia, PA 19124
USA

Sales/Customer Service
orders@discounthydraulic hose.com
800-535-1302

Technical Support
support@discounthydraulic hose.com
800-535-1302

Outside the USA, call 1-215-744-2828

LIMITED WARRANTY: For ninety days after the date of purchase, Hydraulax Products Inc. warrants the products in this catalog to be free from defect in materials and workmanship when properly installed and maintained. Any claim for defects must be in writing and must be received within 90 days of the receipt of the product. Hydraulax Products Inc. must have a rea-

sonable opportunity thereafter to examine and investigate. The customer's exclusive remedy with respect to any claim of any kind whatsoever shall be refund of the purchase price or replacement of the product at the option of Hydraulax Products Inc. In no event shall Hydraulax Products Inc. be liable for any incidental or consequential damages whatsoever.

31460

Air Brake Tube Sleeve



Ref. SAE # 100115

31460-04	\$0.24
31460-06	\$0.27
31460-08	\$0.35
31460-10	\$0.82
31460-12	\$1.44

31461

Air Brake Tube Nut

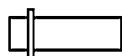


Ref. SAE # 100110

31461-04	\$0.56
31461-06	\$0.66
31461-08	\$1.16
31461-10	\$1.84
31461-12	\$3.20

31484

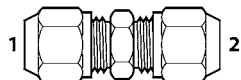
Air Brake Tube Insert



31484-04	\$0.44
31484-06	\$0.54
31484-08	\$0.84
31484-10	\$0.84
31484-12	\$1.17

31462

Air Brake Tube Union



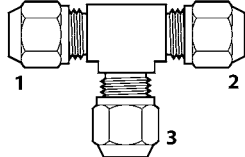
(1) tube, (2) tube

Ref. SAE # 100101BA

31462-04-04	\$2.72
31462-06-06	\$4.25
31462-08-08	\$5.75
31462-10-10	\$10.38
31462-12-12	\$17.35

31464

Air Brake Union Tee



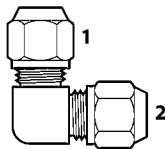
(1) tube, (2) tube, (3) tube

Ref. SAE # 100401BA

31464-04-04-04	\$6.34
31464-04-06-06	\$21.26
31464-06-06-04	\$9.82
31464-06-06-06	\$6.97
31464-06-06-08	\$30.59
31464-08-08-06	\$31.88
31464-08-08-08	\$10.92
31464-10-10-10	\$29.48

31465

Air Brake Union 90° Elbow



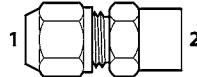
(1) tube, (2) tube

Ref. SAE # 100201BA

31465-04-04	\$4.29
31465-06-06	\$5.11
31465-08-08	\$8.62
31465-10-10	\$21.66

31466

Air Brake x Female Pipe



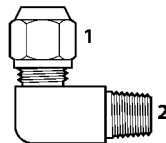
(1) tube, (2) NPTF female

Ref. SAE # 100103BA

31466-04-02	\$2.42
31466-04-04	\$4.14
31466-06-02	\$3.95
31466-06-04	\$4.10
31466-06-06	\$3.95
31466-08-06	\$5.58
31466-08-08	\$7.41
31466-10-08	\$14.14
31466-12-08	\$21.66

31469L

Male Pipe 90° Long Elbow

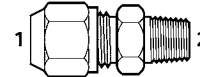


(1) tube, (2) NPTF male

31469L-06-04	\$7.97
31469L-08-06	\$10.68
31469L-08-08	\$20.97

31468

Air Brake x Male Pipe



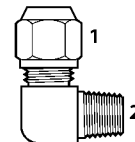
(1) tube, (2) NPTF male

Ref. SAE # 100102BA

31468-04-02	\$2.17
31468-04-04	\$2.50
31468-04-06	\$4.16
31468-06-02	\$2.72
31468-06-04	\$2.77
31468-06-06	\$3.08
31468-06-08	\$4.03
31468-08-04	\$4.22
31468-08-06	\$4.16
31468-08-08	\$5.22
31468-08-12	\$13.09
31468-10-06	\$7.93
31468-10-08	\$6.18
31468-10-12	\$15.59
31468-12-08	\$11.49
31468-12-12	\$13.85

31469

Air Brake x Male Pipe, 90° Elbow



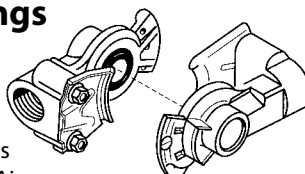
(1) tube, (2) NPTF male

Ref. SAE # 100202BA

31469-04-02	\$2.92
31469-04-04	\$3.17
31469-04-06	\$4.05
31469-06-02	\$3.54
31469-06-04	\$3.63
31469-06-06	\$4.02
31469-06-08	\$5.76
31469-08-04	\$5.89
31469-08-06	\$5.58
31469-08-08	\$6.21
31469-10-06	\$12.24
31469-10-08	\$9.11
31469-10-12	\$26.20
31469-12-08	\$16.21
31469-12-12	\$37.14

Gladhand Couplings

Die cast aluminum body. Available in blue service, red emergency, or silver universal. Gladhand couplings are sold individually, not in pAirs.

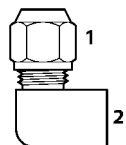


Item #	Description	Price
3079850	Service Gladhand (blue)	\$11.64
3079851	Emergency Gladhand (red)	\$11.64
3076150	Universal Gladhand (fits either)	\$11.64

Meets all applicable SAE and DOT specifications.
Use with NT100 Nylon Air Brake Tubing.

31470

Female Pipe, 90° Elbow

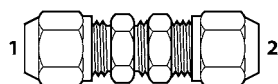


(1) tube, (2) NPTF female
Ref. SAE # 100203BA

31470-04-02	\$3.65
31470-04-04	\$3.32
31470-06-02	\$4.19
31470-06-04	\$5.08
31470-06-06	\$5.54
31470-08-06	\$7.72
31470-08-08	\$8.83
31470-10-08	\$19.06

31474

Air Brake Bulkhead
Tube Union

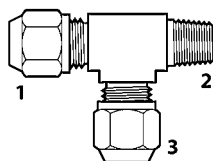


(1) tube, (2) tube

31474-04-04	\$4.50
31474-06-06	\$7.32
31474-08-08	\$9.93
31474-12-12	\$27.76

31471

Male Pipe Run Tee

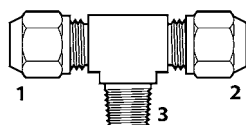


(1) tube, (2) NPTF male, (3) tube
Ref. SAE # 100424BA

31471-04-02-04	\$7.13
31471-04-04-04	\$9.52
31471-06-04-04	\$13.20
31471-06-04-06	\$5.58
31471-06-06-06	\$7.32
31471-08-06-08	\$8.55
31471-08-08-08	\$10.62
31471-10-08-04	\$28.04
31471-10-08-10	\$18.97
31471-12-12-12	\$35.47

31472

Male Pipe Branch Tee



(1) tube, (2) tube, (3) NPTF male
Ref. SAE # 100425BA

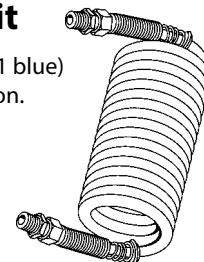
31472-04-04-02	\$5.94
31472-04-04-04	\$9.52
31472-06-04-04	\$17.00
31472-06-06-02	\$15.93
31472-06-06-04	\$6.37
31472-06-06-06	\$6.76
31472-08-08-04	\$25.28
31472-08-08-06	\$9.60
31472-08-08-08	\$11.42
31472-10-10-04	\$29.37
31472-10-10-08	\$29.48
31472-12-12-12	\$48.63

Air Brake Coiled Hose Kit

Hose kit includes two hoses (1 red and 1 blue) pre-assembled for immediate installation.

Maximum working pressure: 150 psi
Temperature range: -40° to 200° F

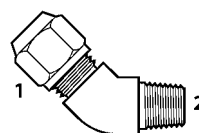
Conforms to DOT FMVSS 571.106,
SAE J844 Type B, and SAE J1131.



Item #	Hose Length	Pigtail	Price
3W1206	12 feet	6 inches	\$61.33
3W1212	12 feet	12 inches	\$71.33
3W1512	15 feet	12 inches	\$80.14

31480

Air Brake x Male Pipe
45° Elbow

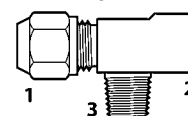


(1) tube, (2) NPTF male
Ref. SAE # 100302BA

31480-04-02	\$5.68
31480-04-04	\$7.10
31480-06-02	\$8.22
31480-06-04	\$4.82
31480-06-06	\$10.29
31480-08-04	\$9.51
31480-08-06	\$7.70
31480-08-08	\$10.62
31480-10-08	\$24.43

31482

Air Brake x Female Pipe x
Male Pipe Tee



(1) tube, (2) NPTF female,
(3) NPTF male

31482-06-04-04	\$15.13
31482-06-04-06	\$16.10
31482-10-04-08	\$37.14

Meets all applicable SAE and DOT specifications.
Use with NT100 Nylon Air Brake Tubing.

Size Guide

Dash	Tube	Thread
-04	1/4	7/16 -24
-06	3/8	17/32 -24
-08	1/2	1 1/16 -20
-10	5/8	1 3/16 -18
-12	3/4	1 -24

31360

Air Brake Tube Sleeve

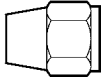


Ref. SAE # 120115

31360-04	\$0.19
31360-06	\$0.45
31360-08	\$0.58
31360-10	\$0.82
31360-12	\$1.46

31361

Air Brake Tube Nut

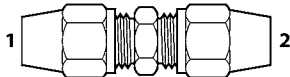


Ref. SAE # 120111

31361-04	\$0.63
31361-06	\$1.11
31361-08	\$1.48
31361-10	\$2.42
31361-12	\$3.71

31362

Air Brake Tube Union



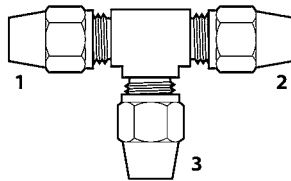
(1) tube, (2) tube

Ref. SAE # 120101BA

31362-04-04	\$2.66
31362-06-06	\$3.84
31362-08-08	\$6.65
31362-10-10	\$11.32
31362-12-12	\$18.23

31364

Air Brake Union Tee



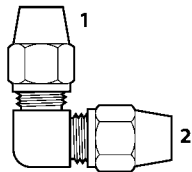
(1) tube, (2) tube, (3) tube

Ref. SAE # 120401BA

31364-04-04-04	\$5.89
31364-04-06-06	\$19.66
31364-06-06-06	\$7.67
31364-06-06-04	\$10.19
31364-06-06-08	\$26.20
31364-08-08-08	\$22.11
31364-08-06-08	\$38.73
31364-08-08-06	\$27.30
31364-10-10-10	\$29.36

31365

Air Brake Union, 90° Elbow

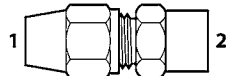


Ref. SAE # 120201BA

31365-04-04	\$4.35
31365-06-06	\$5.01
31365-08-08	\$8.33
31365-10-10	\$16.74

31366

Air Brake x Female Pipe



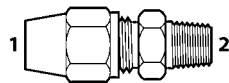
(1) tube, (2) NPTF female

Ref. SAE # 120103BA

31366-04-02	\$3.14
31366-04-04	\$3.62
31366-06-02	\$2.74
31366-06-04	\$4.37
31366-06-06	\$4.78
31366-08-06	\$8.34
31366-08-08	\$8.28
31366-10-08	\$8.77
31366-12-08	\$30.19

31368

Air Brake x Male Pipe



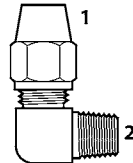
(1) tube, (2) NPTF male

Ref. SAE # 120102BA

31368-04-02	\$2.26
31368-04-04	\$2.21
31368-04-06	\$3.94
31368-06-02	\$2.44
31368-06-04	\$2.33
31368-06-06	\$2.75
31368-06-08	\$3.71
31368-08-04	\$3.62
31368-08-06	\$4.35
31368-08-08	\$5.15
31368-10-06	\$7.28
31368-10-08	\$6.17
31368-12-08	\$11.74
31368-12-12	\$12.44

31369

Air Brake x Male Pipe, 90° Elbow



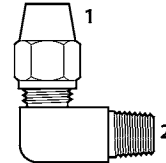
(1) tube, (2) NPTF male

Ref. SAE # 120202BA

31369-04-02	\$3.27
31369-04-04	\$2.77
31369-06-02	\$3.20
31369-06-04	\$3.35
31369-06-06	\$5.99
31369-06-08	\$5.19
31369-08-04	\$4.91
31369-08-06	\$7.84
31369-08-08	\$6.22
31369-10-06	\$10.32
31369-10-08	\$8.47
31369-10-12	\$32.28
31369-12-08	\$16.29

31369L

Air Brake x Male Pipe, 90° Long Elbow

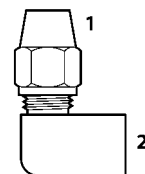


(1) tube, (2) NPTF male

31369L-06-02	\$8.62
31369L-06-04	\$8.62
31369L-08-06	\$11.33
31369L-12-08	\$23.66

31370

Air Brake x Female Pipe 90° Elbow



(1) tube, (2) NPTF female

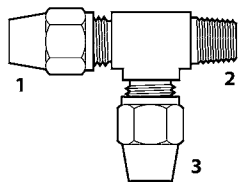
Ref. SAE # 120203BA

31370-04-02	\$5.63
31370-04-04	\$7.10
31370-06-02	\$4.29
31370-06-04	\$4.77
31370-06-06	\$4.77
31370-08-06	\$5.66
31370-08-08	\$7.64
31370-10-08	\$16.33

Meets all applicable SAE and DOT specifications.
Use with 972C Copper Tubing.

31371

Air Brake x Male Pipe
Run Tee

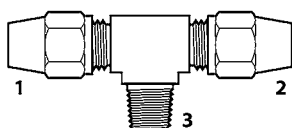


(1) tube, (2) NPTF male, (3) tube
Ref. SAE # 120424BA

31371-04-02-04	\$10.14
31371-04-04-04	\$10.15
31371-06-04-06	\$10.19
31371-06-04-04	\$10.27
31371-06-06-06	\$10.51
31371-08-06-08	\$10.86
31371-08-08-08	\$10.93
31371-10-08-10	\$14.55
31371-10-08-04	\$28.00

31372

Air Brake x Male Pipe
Branch Tee

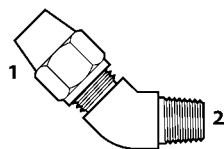


(1) tube, (2) tube, (3) NPTF male
Ref. SAE # 120425BA

31372-04-04-02	\$8.62
31372-04-04-04	\$8.69
31372-06-06-02	\$8.79
31372-06-06-04	\$8.87
31372-06-04-04	\$17.00
31372-06-06-06	\$10.19
31372-08-08-06	\$10.27
31372-08-08-08	\$21.00
31372-10-10-04	\$23.33
31372-10-10-08	\$23.99

31380

Air Brake x Female Pipe
45° Elbow

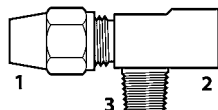


(1) tube, (2) NPTF male
Ref. SAE # 120302BA

31380-04-02	\$4.10
31380-04-04	\$6.76
31380-06-02	\$6.77
31380-06-04	\$6.77
31380-06-06	\$6.87
31380-08-06	\$6.97
31380-08-08	\$8.47
31380-10-08	\$12.98

31382

Air Brake x Female Pipe
x Male Pipe Tee

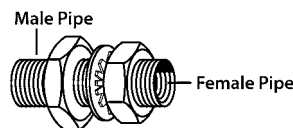


(1) tube, (2) NPTF female,
(3) NPTF male

31382-06-04-04	\$16.36
----------------	---------

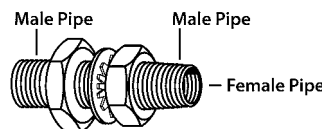
Bulkhead Couplings

NPTF Male x Female



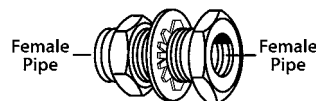
Item #	Male	Female	Length	Material	Price
35498	1/2"	1/4"	2.16"	Steel	\$5.59
35499	1/2"	1/4"	2.53"	Steel	\$16.21
31340	1/2"	1/4"	2.16"	Brass	\$12.38
31341	1/2"	1/4"	2.53"	Brass	\$13.06

NPTF Male x NPTF Dual (Male and Female)



Item #	Male	Female	Length	Material	Price
31342	1/2"	1/4"	2.94"	Brass	\$19.11
31343	1/2"	1/4"	3.94"	Brass	\$23.96

NPTF Female x Female

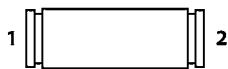


Item #	NPTF	Length	Material	Price
00397-03	1/4"	0.94"	Brass	\$5.50
00397-04	1/4"	1.50"	Brass	\$4.58
00397-06	3/8"	1.31"	Brass	\$6.81
00397-08	1/2"	1.50"	Brass	\$10.67
305465	1/4"	1.50"	Steel	\$4.23
321204	1/4"	0.94"	Steel	\$7.16
317709	3/8"	1.31"	Steel	\$5.29

Meets all applicable SAE and DOT specifications.
Use with 972C Copper Tubing.

31862

Air Brake Tube Union

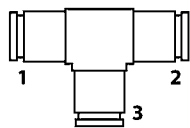


(1) tube, (2) tube
Ref. SAE # AA0101

31862-04-04	\$6.76
31862-06-06	\$7.67
31862-08-08	\$10.22
31862-10-10	\$16.36
31862-12-12	\$26.64

31864

Air Brake Union Tee

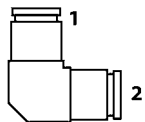


(1) tube, (2) NPTF male, (3) TRube
Ref. SAE # AA0401

31864-04-04-04	\$10.02
31864-06-06-06	\$12.22
31864-08-08-08	\$15.73

31865

Air Brake Union 90° Elbow

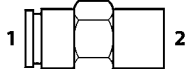


(1) tube, (2) tube
Ref. SAE # AA0201

31865-04-04	\$6.50
31865-06-06	\$7.94
31865-08-08	\$10.04

31866

Air Brake x Female Pipe

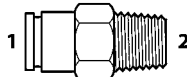


(1) tube, (2) NPTF female
Ref. SAE # AA0103

31866-04-02	\$7.94
31866-04-04	\$9.09
31866-06-02	\$18.15
31866-06-04	\$9.67
31866-06-06	\$12.22
31866-08-04	\$14.73
31866-08-06	\$17.52
31866-08-08	\$20.90

31868

Air Brake x Male Pipe

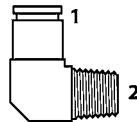


(1) tube, (2) NPTF male
Ref. SAE # AA0102

31868-04-02	\$3.81
31868-04-04	\$4.10
31868-04-06	\$5.28
31868-06-04	\$6.74
31868-06-06	\$7.20
31868-06-08	\$9.58
31868-08-04	\$10.57
31868-08-06	\$10.02
31868-08-08	\$11.51
31868-10-06	\$12.22
31868-10-08	\$13.04
31868-12-08	\$13.79
31868-12-12	\$15.19

31869

Air Brake x Male Pipe, 90° Elbow

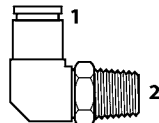


(1) tube, (2) NPTF male
Ref. SAE # AA0302

31869-04-02	\$6.10
31869-04-04	\$6.39
31869-06-04	\$9.94
31869-06-06	\$11.56
31869-08-06	\$13.86
31869-08-08	\$14.12
31869-10-08	\$15.82
31869-12-12	\$25.11

31869S

Air Brake x Male Pipe Swivel 90° Elbow

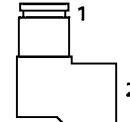


(1) tube, (2) NPTF male swivel
Ref. SAE # AA02DD

31869S-04-02	\$6.21
31869S-04-04	\$6.68
31869S-06-04	\$10.57
31869S-06-06	\$11.88
31869S-08-04	\$24.40
31869S-08-06	\$14.14
31869S-08-08	\$14.34
31869S-10-08	\$18.33
31869S-12-12	\$32.87

31870

Air Brake x Female Pipe, 90° Elbow

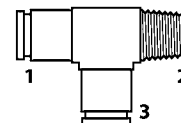


(1) tube, (2) NPTF female
Ref. SAE # AA0203

31870-04-02	\$7.69
31870-04-04	\$8.64
31870-06-02	\$8.44
31870-06-04	\$11.00
31870-06-06	\$13.42
31870-08-04	\$11.38
31870-08-06	\$11.26
31870-08-08	\$15.60

31871

Air Brake x Male Pipe Run Tee



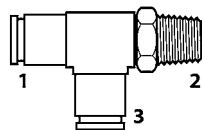
(1) tube, (2) NPTF male, (3) tube
Ref. SAE # AA0424

31871-04-02-04	\$13.47
31871-04-04-04	\$18.51
31871-06-04-06	\$24.70
31871-06-06-06	\$20.04
31871-08-06-08	\$24.38

Meets all applicable SAE and DOT specifications.
Use with NT100 Nylon Air Brake Tubing.

31871S

Air Brake x Male Pipe
Swivel Run Tee



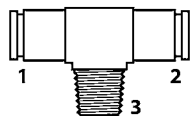
(1) tube, (2) NPTF male swivel,
(3) tube

Ref. SAE # AA04EE

31871S-04-02-04	\$13.72
31871S-04-04-04	\$18.76
31871S-06-04-06	\$24.91
31871S-06-06-06	\$20.42
31871S-08-06-08	\$24.91
31871S-08-08-08	\$26.57

31872

Air Brake x Male Pipe
Branch Tee



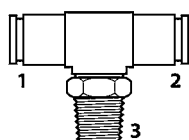
(1) tube, (2) tube, (3) NPTF male
swivel

Ref. SAE # AA0425

31872-04-04-02	\$13.78
31872-04-04-04	\$12.34
31872-06-06-04	\$18.91
31872-06-06-06	\$12.19
31872-08-08-06	\$27.59
31872-08-08-08	\$22.02

31872S

Air Brake x Male Pipe
Swivel Branch Tee



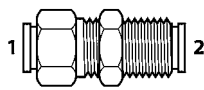
(1,2) tube, (3) NPTF male swivel

Ref. SAE # AA04FF

31872S-04-04-02	\$14.14
31872S-04-04-04	\$12.57
31872S-06-06-04	\$19.82
31872S-06-06-06	\$12.45
31872S-08-08-06	\$27.90
31872S-08-08-08	\$27.91

31874

Air Brake Bulkhead Union



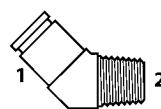
(1) tube, (2) tube

Ref. SAE # AA0601

31874-04-04	\$13.72
31874-06-06	\$18.76
31874-08-08	\$24.85
31874-10-10	\$23.14

31880

Air Brake x Male Pipe
45° Elbow



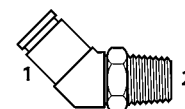
(1) tube, (2) NPTF male

Ref. SAE # AA0302

31880-04-02	\$10.41
31880-04-04	\$14.75
31880-06-04	\$14.88
31880-06-06	\$14.88
31880-08-04	\$14.94
31880-08-06	\$15.05
31880-08-08	\$15.07
31880-10-08	\$21.20
31880-12-08	\$22.67
31880-12-12	\$22.71

31880S

Air Brake x Male Pipe
Swivel 45° Elbow



(1) tube, (2) NPTF male swivel

Ref. SAE # AA03DD

31880S-04-02	\$11.21
31880S-04-04	\$15.17
31880S-06-04	\$15.19
31880S-06-06	\$15.19
31880S-08-04	\$16.28
31880S-08-06	\$16.34
31880S-08-08	\$16.76
31880S-10-08	\$22.59

Plastic Tube and Hose Cutter

Cuts plastic tubing and hose
up to 1/2" OD. Mounts on
bench or wall. Designed to
close automatically for safety
when not in use.



Not for use with wire-reinforced hose.

DT191	Plastic Tube Cutter	\$15.65
DT191B	Replacement Blade	\$6.16

Meets all applicable SAE and DOT specifications.
Use with NT100 Nylon Air Brake Tubing.

31102

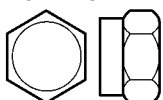
Locknut for Pipe



31102-02	\$0.71
31102-04	\$0.98
31102-06	\$1.11
31102-08	\$1.41

33129

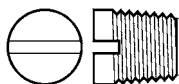
Pipe Cap



33129-02	\$0.67
33129-04	\$0.96
33129-06	\$1.65
33129-08	\$2.30
33129-12	\$3.86

33150

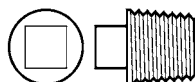
Slotted Head Pipe Plug



33150-02	\$0.39
33150-04	\$0.61
33150-06	\$1.08

33151

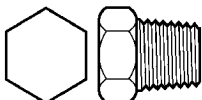
Square Head Pipe Plug



33151-02	\$0.38
33151-04	\$0.53
33151-06	\$0.79
33151-08	\$1.33
33151-12	\$3.03
33151-16	\$3.62

33152

Hex Head Pipe Plug



33152-02	\$0.39
33152-04	\$0.54
33152-06	\$0.82
33152-08	\$1.28
33152-12	\$2.46

33155

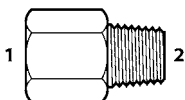
Countersunk Hex Pipe Plug



33155-02	\$0.63
33155-04	\$0.61
33155-06	\$0.67
33155-08	\$1.35
33155-12	\$2.79

33200

Female Pipe x Male Pipe Extender/Reducer

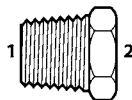


(1) NPTF female, (2) NPTF male
Ref. SAE # 130139

33200-02-02	\$0.74
33200-04-02	\$0.76
33200-04-04	\$1.00
33200-06-02	\$1.44
33200-06-04	\$1.35
33200-06-06	\$2.21
33200-08-06	\$2.86
33200-08-08	\$2.79
33200-12-06	\$12.69
33200-12-08	\$4.17
33200-12-12	\$12.93

33220

Reducer Bushing

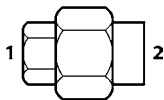


(1) NPTF male, (2) NPTF female
Ref. SAE # 130140

33220-04-02	\$0.59
33220-06-02	\$1.03
33220-06-04	\$0.87
33220-08-02	\$1.89
33220-08-04	\$1.45
33220-08-06	\$1.40
33220-12-02	\$6.09
33220-12-04	\$2.52
33220-12-06	\$2.45
33220-12-08	\$2.45
33220-16-06	\$6.46
33220-16-08	\$5.12
33220-16-12	\$4.66
33220-20-06	\$10.51
33220-20-08	\$10.51
33220-20-12	\$10.19
33220-24-08	\$15.93
33220-24-12	\$15.93
33220-32-16	\$25.63
33220-40-24	\$29.23

33250

Female Pipe Union

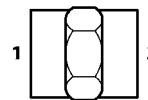


(1) NPTF female, (2) NPTF female swivel

33250-02-02	\$10.35
33250-04-04	\$10.03
33250-06-06	\$16.70
33250-08-08	\$17.19
33250-12-12	\$24.14

33300

Female Pipe Coupling

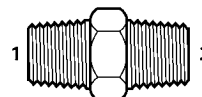


(1) NPTF female, (2) NPTF female
Ref. SAE # 130138

33300-02-02	\$1.18
33300-04-02	\$1.12
33300-04-04	\$1.71
33300-06-02	\$2.28
33300-06-04	\$2.77
33300-06-06	\$2.27
33300-08-04	\$3.91
33300-08-06	\$4.13
33300-08-08	\$3.38
33300-12-08	\$4.63
33300-12-12	\$6.44

33325

Hex Pipe Nipple



(1) NPTF male, (2) NPTF male
Ref. SAE # 130137

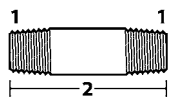
33325-02-02	\$0.67
33325-04-02	\$1.07
33325-04-04	\$1.03
33325-06-02	\$1.64
33325-06-04	\$1.12
33325-06-06	\$1.61
33325-08-04	\$2.12
33325-08-06	\$1.80
33325-08-08	\$1.87
33325-12-08	\$4.11
33325-12-12	\$3.35
33325-16-16	\$8.55

PTFE Thread Sealing Compound

Temperature range: -50° to 500° F

LCTS14	1/4 pint	\$12.60
LCTS1	1/2 pint	\$18.47
LCTS2	one pint	\$28.67



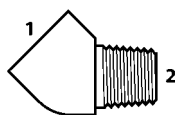
33326
Seamless Pipe Nipple


(1) NPTF male, (2) Length

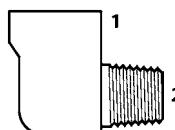
33326-02-CLOSE	\$0.44
33326-02-1.5	\$0.76
33326-02-2	\$0.99
33326-02-2.5	\$1.23
33326-02-3	\$1.65
33326-02-3.5	\$2.72
33326-02-4	\$3.03
33326-02-4.5	\$4.64
33326-02-5	\$5.16
33326-02-5.5	\$5.52
33326-02-6	\$5.73
33326-04-CLOSE	\$0.55
33326-04-1.5	\$1.09
33326-04-2	\$1.30
33326-04-2.5	\$1.68
33326-04-3	\$1.90
33326-04-3.5	\$3.64
33326-04-4	\$3.72
33326-04-4.5	\$6.09
33326-04-5	\$5.02
33326-04-5.5	\$7.39
33326-04-6	\$8.41
33326-06-CLOSE	\$0.84
33326-06-1.5	\$1.38
33326-06-2	\$1.84
33326-06-2.5	\$2.14
33326-06-3	\$2.99
33326-06-3.5	\$4.12
33326-06-4	\$5.22
33326-06-4.5	\$7.10
33326-06-5	\$8.00
33326-06-5.5	\$8.69
33326-06-6	\$9.40
33326-08-CLOSE	\$1.38
33326-08-1.5	\$2.21
33326-08-2	\$2.55
33326-08-2.5	\$2.98
33326-08-3	\$3.86
33326-08-3.5	\$8.02
33326-08-4	\$6.51
33326-08-4.5	\$10.07
33326-08-5	\$11.09
33326-08-5.5	\$12.19
33326-08-6	\$11.63

333326
**Seamless Pipe Nipple
(continued)**

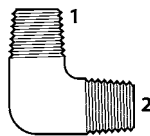
33326-12-CLOSE	\$2.73
33326-12-1.5	\$5.65
33326-12-2	\$4.11
33326-12-2.5	\$5.90
33326-12-3	\$7.18
33326-12-3.5	\$7.65
33326-12-4	\$11.61
33326-12-4.5	\$12.44
33326-12-5	\$14.11
33326-12-5.5	\$15.54
33326-12-6	\$16.74
33326-16-CLOSE	\$5.67

33350
45° Street Elbow

 (1) NPTF female, (2) NPTF male
Ref. SAE # 130339

33350-02-02	\$3.08
33350-04-04	\$2.13
33350-06-06	\$2.98
33350-08-08	\$5.22
33350-12-12	\$13.92

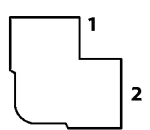
33400
90° Street Elbow

 (1) NPTF female, (2) NPTF male
Ref. SAE # 130239

33400-02-02	\$1.13
33400-02-04	\$2.12
33400-04-02	\$2.12
33400-04-04	\$1.98
33400-04-06	\$2.74
33400-06-04	\$2.36
33400-06-06	\$2.56
33400-08-08	\$4.80
33400-12-12	\$7.99
33400-16-16	\$12.80

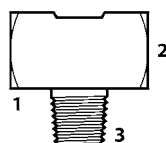
33455
90° Male Pipe Elbow


(1) NPTF male, (2) NPTF male

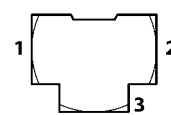
33455-02-02	\$1.72
33455-04-04	\$1.92
33455-06-04	\$7.70
33455-06-06	\$4.14
33455-08-08	\$5.54

33500
90° Female Pipe Elbow

 (1) NPTF female, (2) NPTF female
Ref. SAE # 130238

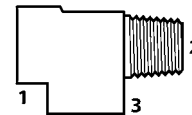
33500-02-02	\$1.56
33500-04-04	\$2.11
33500-06-06	\$2.90
33500-08-08	\$5.66
33500-12-12	\$14.15
33500-16-16	\$16.10
33500-20-20	\$32.37
33500-24-24	\$39.43

33600
Male Pipe Branch Tee

 (1-2) NPTF female, (3) NPTF male
Ref. SAE # 130425

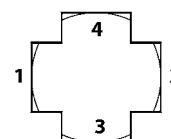
33600-02-02-02	\$2.55
33600-04-04-04	\$3.91
33600-06-06-06	\$5.91
33600-08-08-08	\$9.29
33600-12-12-12	\$16.46

33700
Female Pipe Tee

 (1-3) NPTF female
Ref. SAE # 130438

33700-02-02-02	\$1.59
33700-04-04-04	\$2.71
33700-06-06-06	\$3.85
33700-08-08-08	\$6.13
33700-12-12-12	\$16.05
33700-16-16-16	\$22.51
33700-24-24-24	\$43.37

33750
Street Tee

 (1) NPTF female, (2) NPTF male
(3) NPTF female
Ref. SAE # 130424

33750-02-02-02	\$1.96
33750-04-04-04	\$3.37
33750-06-06-06	\$3.57
33750-08-08-08	\$7.13
33750-12-12-12	\$15.75

33950
Female Pipe Cross


(1-4) NPTF female

33950-02-02-02-02	\$3.81
33950-04-04-04-04	\$5.32
33950-06-06-06-06	\$6.20
33950-08-08-08-08	\$15.78
33950-12-12-12-12	\$36.75
33950-16-16-16-16	\$48.63

360 Compression Tube Sleeve



Ref. SAE # 060115

360-02	\$0.09
360-03	\$0.13
360-04	\$0.13
360-05	\$0.14
360-06	\$0.17
360-07	\$0.46
360-08	\$0.26
360-10	\$0.30
360-12	\$0.67
360-14	\$0.82

361 Compression Tube Nut



Ref. SAE # 060110

361-02	\$0.30
361-03	\$0.55
361-04	\$0.30
361-05	\$0.46
361-06	\$0.46
361-07	\$1.56
361-08	\$0.99
361-10	\$1.20
361-12	\$1.94
361-14	\$2.11

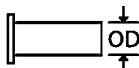
31611 Compression Nut, Long



Ref. SAE # 060111

31611-03	\$1.12
31611-04	\$0.98
31611-05	\$1.07
31611-06	\$1.24
31611-08	\$2.05
31611-10	\$4.66
31611-12	\$6.39

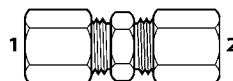
32030 Brass Insert for Tubing



Note: Wall thickness of plastic tubing varies. Be sure to note the inner diameter of your tubing when ordering inserts.

Item #	OD	Price
32030-02	.080"	\$0.33
32030-03	.135"	\$0.35
32030-04	.125"	\$0.47
32030-05	.187"	\$0.39
32030-05A	.232"	\$1.11
32030-06	.250"	\$0.26
32030-08	.372"	\$0.42
32030-10	.500"	\$2.28
32030-10A	.483"	\$1.13
32030-12	.562"	\$2.26

362 Compression Tube Union

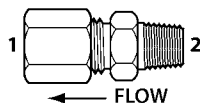


(1) tube, (2) tube

Ref. SAE # 060101BA

362-02-02	\$1.53
362-03-03	\$1.30
362-04-02	\$2.05
362-04-04	\$1.53
362-05-05	\$1.55
362-06-04	\$2.45
362-06-06	\$1.98
362-08-06	\$3.20
362-08-08	\$3.85
362-10-08	\$6.05
362-10-10	\$5.38
362-12-12	\$10.25
362-14-14	\$8.23

363 Check Valve, Compression x Male Pipe

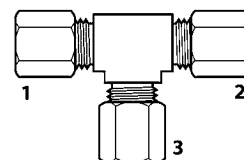


(1) tube, (2) NPTF male

Spring and ball can be reversed to change flow direction.

363-02-02	\$9.37
363-04-02	\$7.20
363-05-02	\$7.39
363-06-04	\$7.05

364 Compression Union Tee

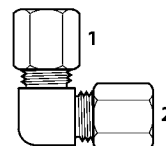


(1) tube, (2) tube, (3) tube

Ref. SAE # 060401BA

364-02-02-02	\$5.30
364-03-03-03	\$4.64
364-04-04-04	\$3.93
364-05-05-05	\$6.18
364-06-06-06	\$4.94
364-08-08-08	\$11.79
364-10-10-10	\$12.04
364-12-12-12	\$23.72

365 Compression Union 90° Elbow



(1) tube, (2) tube

Ref. SAE # 060201BA

365-02-02	\$3.01
365-03-03	\$3.36
365-04-04	\$2.94
365-05-05	\$3.59
365-06-06	\$2.94
365-08-08	\$8.55
365-10-10	\$5.63
365-12-12	\$14.45

Use with aluminum, copper or plastic tubing

Handheld Plastic Tube and Hose Cutter

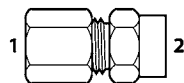
This handy tool cuts plastic tubing and hose up to 1" OD. Lightweight and durable for long service life. Not for use with wire-reinforced hose.

DT135	Plastic Tube Cutter	\$20.96
DT135B	Replacement Blade	\$6.56



366

Compression x Female Pipe



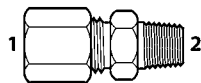
(1) tube, (2) NPTF female

Ref. SAE # 060103BA

366-02-02	\$1.46
366-03-02	\$1.62
366-04-02	\$1.45
366-04-04	\$2.31
366-05-02	\$1.89
366-05-04	\$2.30
366-06-02	\$1.58
366-06-04	\$1.58
366-06-06	\$3.92
366-08-06	\$4.01
366-08-08	\$8.19
366-10-08	\$5.69
366-12-08	\$11.37
366-12-12	\$15.87

368

Compression x Male Pipe



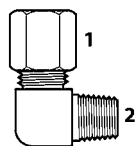
(1) tube, (2) NPTF male

Ref. SAE # 060102BA

368-02-01	\$3.75
368-02-02	\$1.07
368-03-02	\$1.07
368-04-02	\$0.96
368-04-04	\$1.03
368-04-06	\$1.54
368-04-08	\$2.61
368-05-02	\$1.31
368-05-04	\$1.46
368-06-02	\$1.75
368-06-04	\$2.16
368-06-06	\$2.31
368-06-08	\$2.77
368-07-04	\$4.47
368-08-04	\$2.30
368-08-06	\$2.09
368-08-08	\$3.39
368-10-08	\$2.80
368-12-08	\$5.48
368-12-12	\$5.91
368-14-12	\$11.87

369

Compression x Male Pipe 90° Elbow



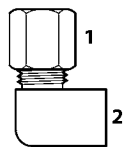
(1) tube, (2) NPTF male

Ref. SAE # 060202BA

369-02-02	\$2.16
369-03-02	\$1.59
369-04-02	\$1.59
369-04-04	\$1.98
369-05-02	\$2.01
369-05-04	\$2.47
369-06-02	\$2.28
369-06-04	\$2.52
369-06-06	\$5.48
369-06-08	\$6.52
369-07-04	\$7.67
369-08-04	\$4.77
369-08-06	\$4.77
369-08-08	\$6.20
369-10-08	\$6.78
369-12-08	\$9.80
369-12-12	\$11.91
369-14-12	\$16.34
369-16-16	\$22.67

370

Compression x Female Pipe 90° Elbow



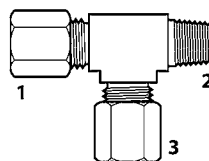
(1) tube, (2) NPTF female

Ref. SAE # 060203BA

370-03-02	\$2.77
370-04-04	\$2.37
370-05-02	\$3.66
370-06-06	\$3.71
370-08-08	\$6.20
370-10-08	\$7.32

371

Compression x Male Pipe Run Tee



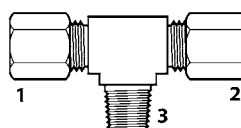
(1) tube, (2) NPTF male, (3) tube

Ref. SAE # 060424BA

371-03-02-03	\$3.71
371-04-02-04	\$4.11
371-04-04-04	\$4.54
371-05-02-05	\$4.77
371-06-04-06	\$5.09
371-08-06-08	\$7.49

372

Compression x Male Pipe Branch Tee



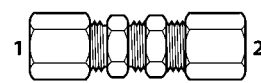
(1) tube, (2) tube, (3) NPTF male

Ref. SAE # 060425BA

372-03-03-02	\$3.27
372-04-04-02	\$3.92
372-04-04-04	\$4.39
372-05-05-02	\$4.77
372-06-06-02	\$4.82
372-06-06-04	\$5.15
372-08-08-06	\$12.57

374

Bulkhead Compression Union

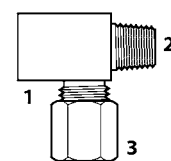


(1) tube, (2) tube

374-04-04	\$4.56
374-06-06	\$10.80
374-08-08	\$14.54

376

Female Pipe x Male Pipe x Compression Tee



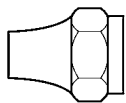
(1) NPTF female, (2) NPTF male, (3) tube

376-02-02-03	\$4.88
376-02-02-04	\$4.22

Use with aluminum, copper or plastic tubing

341

Long SAE 45° Flare Nut

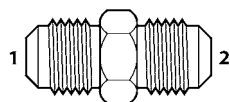


Ref. SAE # 010111

341-02	\$1.74
341-03	\$1.01
341-04	\$0.83
341-05	\$1.26
341-06	\$1.56
341-08	\$2.52
341-10	\$3.99
341-12	\$10.68

342

SAE 45° Tube Union



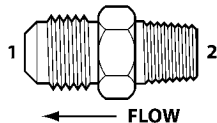
(1) Flare, (2) Flare

Ref. SAE # 010101

342-02-02	\$2.37
342-03-03	\$1.82
342-04-04	\$0.87
342-05-05	\$1.54
342-06-04	\$2.05
342-06-05	\$2.30
342-06-06	\$1.20
342-08-08	\$2.54
342-10-10	\$5.64
342-12-12	\$10.01
342-14-14	\$15.03

343

Check Valve (SAE 45° x Male Pipe)

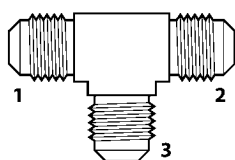


(1) Flare, (2) NPTF male

343-04-02	\$7.05
343-06-04	\$9.78

344

SAE 45° Union Tee



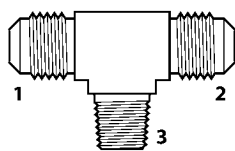
(1) Flare, (2) Flare, (3) Flare

Ref. SAE # 010401

344-03-03-03	\$2.26
344-04-04-04	\$1.64
344-05-05-05	\$2.82
344-06-06-06	\$2.40
344-06-06-08	\$3.22
344-08-08-08	\$3.58
344-10-10-10	\$6.27
344-12-12-12	\$11.75
344-14-14-14	\$22.08

345

SAE 45° x Male Pipe Branch Tee



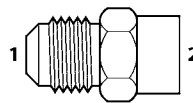
(1) Flare, (2) Flare, (3) NPTF male

Ref. SAE # 010425

345-03-03-02	\$2.95
345-04-04-02	\$2.94
345-04-04-04	\$3.08
345-04-04-06	\$4.83
345-05-05-02	\$3.36
345-05-05-04	\$4.05
345-06-06-04	\$3.99
345-06-06-06	\$4.78
345-08-08-04	\$10.54
345-08-08-06	\$6.97
345-08-08-08	\$7.21
345-10-10-08	\$8.60
345-12-12-08	\$19.36
345-12-12-12	\$17.76

346

SAE 45° x Female Pipe



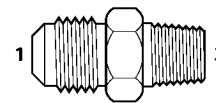
(1) Flare, (2) NPTF female

Ref. SAE # 010103

346-02-02	\$2.64
346-03-02	\$2.00
346-04-02	\$1.45
346-04-04	\$2.35
346-04-06	\$2.23
346-04-08	\$3.65
346-05-02	\$1.75
346-05-04	\$3.27
346-06-02	\$2.09
346-06-04	\$1.16
346-06-06	\$2.92
346-06-08	\$5.37
346-08-04	\$2.02
346-08-06	\$3.62
346-08-08	\$4.51
346-10-06	\$4.83
346-10-08	\$2.57
346-10-12	\$7.72
346-12-08	\$11.66
346-12-12	\$11.53

348

SAE 45° x Male Pipe



(1) Flare, (2) NPTF male

Ref. SAE # 010102

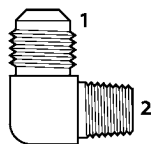
348-02-02	\$1.85
348-03-02	\$0.76
348-04-02	\$0.47
348-04-04	\$0.70
348-04-06	\$1.30
348-04-08	\$2.30
348-05-02	\$0.98
348-05-04	\$1.16
348-05-06	\$1.62
348-06-02	\$1.24
348-06-04	\$1.35
348-06-06	\$1.48
348-06-08	\$3.22
348-06-12	\$5.32
348-07-06	\$6.39
348-08-04	\$2.18
348-08-06	\$1.90
348-08-08	\$2.67
348-08-12	\$5.15
348-10-06	\$4.36
348-10-08	\$5.08
348-12-08	\$5.72
348-12-12	\$4.29
348-14-12	\$12.69
348-16-16	\$21.97

Note: In all sizes except -06 and -12, SAE 45° flare and SAE 37° (JIC) flare use the same thread. However, the sealing surface angles are not the same.

Use with aluminum, copper or plastic tubing

349

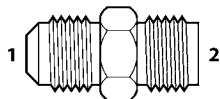
SAE 45° x Male Pipe
90° Elbow



(1) Flare, (2) NPTF male
Ref. SAE # 010202

349-02-02	\$3.57
349-03-02	\$1.62
349-04-02	\$1.28
349-04-04	\$1.89
349-04-06	\$2.45
349-05-02	\$2.07
349-05-04	\$2.64
349-05-06	\$5.09
349-06-02	\$5.23
349-06-04	\$2.61
349-06-06	\$3.02
349-06-08	\$3.20
349-06-12	\$6.91
349-07-04	\$9.80
349-08-04	\$4.54
349-08-06	\$3.77
349-08-08	\$4.95
349-08-12	\$6.09
349-10-06	\$6.02
349-10-08	\$5.86
349-10-12	\$6.97
349-12-08	\$13.14
349-12-12	\$14.07
349-14-12	\$21.28
349-16-12	\$25.82
349-16-16	\$26.11

SAE 45° to Inverted Flare
Adapter

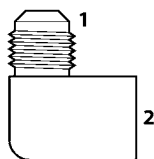


(1) Flare, (2) Inverted Flare

Item #	SAE	Inv.	Price
31518	1/4	3/16	\$5.76
31522	1/4	1/4	\$3.37
31553	3/8	3/16	\$7.84
31563	3/8	3/8	\$7.54
31554	3/8	3/16	\$12.50

350

SAE 45° x Female Pipe
Elbow

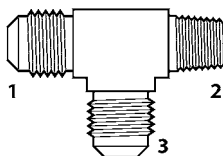


(1) Flare, (2) NPTF female
Ref. SAE # 010203

350-03-02	\$4.16
350-04-02	\$2.13
350-04-04	\$3.27
350-05-02	\$3.77
350-05-04	\$4.77
350-06-04	\$2.61
350-06-06	\$3.00
350-08-06	\$3.99
350-08-08	\$4.47
350-10-08	\$6.65
350-12-08	\$13.57
350-12-12	\$19.93

351

SAE 45° x Male Pipe
Run Tee

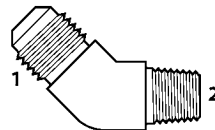


(1) Flare, (2) NPTF male, (3) Flare
Ref. SAE # 010424

351-03-02-03	\$3.80
351-04-02-04	\$3.32
351-04-04-04	\$4.01
351-05-02-05	\$3.43
351-05-04-05	\$4.96
351-06-04-06	\$5.12
351-06-06-06	\$7.10
351-08-06-08	\$6.56
351-08-08-08	\$9.78
351-10-08-10	\$9.96
351-12-12-12	\$18.55

354

SAE 45° x Male Pipe
45° Elbow

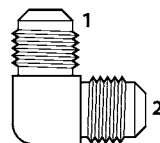


(1) Flare, (2) NPTF male
Ref. SAE # 010302

354-04-02	\$5.63
354-04-04	\$3.12
354-04-06	\$4.19
354-05-02	\$4.83
354-06-04	\$4.00
354-06-06	\$3.49
354-08-06	\$6.55
354-08-08	\$5.30
354-10-06	\$6.21
354-10-08	\$5.73
354-12-08	\$11.33
354-12-12	\$9.93

355

SAE 45° Union Elbow

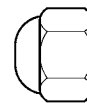


(1) Flare, (2) Flare
Ref. SAE # 010201

355-04-04	\$1.28
355-05-05	\$3.31
355-06-04	\$3.71
355-06-06	\$3.01
355-08-06	\$4.92
355-08-08	\$4.25
355-10-10	\$5.95
355-12-12	\$13.14
355-14-14	\$25.48

359

SAE 45° Cap

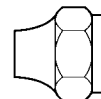


Formerly Item # 3129

359-03	\$1.72
359-04	\$0.44
359-05	\$1.76
359-06	\$0.71
359-08	\$0.98
359-10	\$1.46
359-12	\$13.57

31110

Short SAE 45° Flare Nut

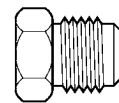


Ref. SAE # 010110

31110-02	\$0.61
31110-03	\$0.46
31110-04	\$0.61
31110-05	\$0.96
31110-06	\$1.16
31110-07	\$6.10
31110-08	\$1.64
31110-10	\$3.14
31110-12	\$3.81
31110-14	\$9.35
31110-16	\$11.85

3229

SAE 45° Plug



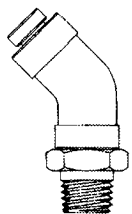
Ref. SAE # 010109

3229-03	\$3.30
3229-04	\$0.66
3229-05	\$2.35
3229-06	\$0.96
3229-08	\$1.45
3229-10	\$2.05

Use with aluminum, copper or plastic tubing

31154S

Push-In x Male Pipe Swivel
45° Elbow

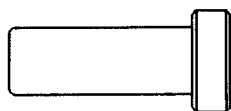


(1) tube, (2) NPTF male

31154S-04-02	\$12.98
31154S-04-04	\$13.38
31154S-06-04	\$16.34
31154S-08-04	\$15.45

31129

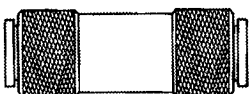
Plastic Plug



31129-02	\$0.84
31129-025	\$1.30
31129-04	\$1.05
31129-06	\$1.83
31129-08	\$2.61

31162

Push-In Tube Union

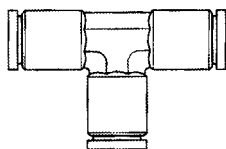


(1) tube, (2) tube

31162-02-02	\$4.50
31162-025-025	\$6.51
31162-04-04	\$4.69
31162-05-05	\$5.36
31162-06-04	\$5.84
31162-06-06	\$6.52
31162-08-08	\$9.69

31164

Push-In Union Tee

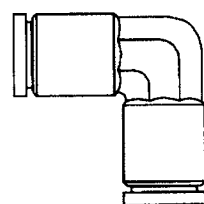


(1) tube, (2) tube, (3) tube

31164-02-02-02	\$6.49
31164-025-025-025	\$6.55
31164-03-03-03	\$6.97
31164-04-04-04	\$6.55
31164-05-05-05	\$9.22
31164-06-06-06	\$9.11
31164-08-08-08	\$13.58

31165

Push-In 90° Union Elbow

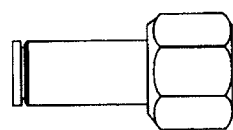


(1) tube, (2) tube

31165-02-02	\$5.81
31165-025-025	\$6.94
31165-04-04	\$5.37
31165-06-06	\$8.48
31165-08-08	\$11.97

31166

Push-In x Female Pipe

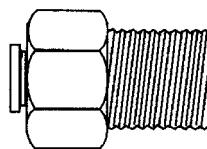


(1) tube, (2) NPTF female

31166-02-02	\$6.74
31166-02-04	\$9.70
31166-025-02	\$6.80
31166-04-02	\$5.84
31166-04-04	\$7.75
31166-06-04	\$10.59
31166-06-06	\$13.49

31168

Push-In x Male Pipe



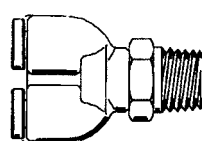
(1) tube, (2) NPTF male

31168-02-01	\$2.66
31168-02-02	\$2.79
31168-02-04	\$3.49
31168-025-02	\$4.91
31168-025-04	\$3.66
31168-025-A	\$6.39
31168-02-A	\$4.39
31168-03-02	\$3.45
31168-03-A	\$3.27
31168-04-02	\$2.99
31168-04-04	\$3.30
31168-04-06	\$4.41
31168-04-A	\$5.94
31168-05-02	\$4.83
31168-05-04	\$4.77
31168-06-02	\$4.91
31168-06-04	\$4.58
31168-06-06	\$4.74
31168-06-08	\$8.07
31168-08-04	\$7.90
31168-08-06	\$7.50
31168-08-08	\$9.16

* A = 10-32 UNF Thread

31188

Male Y Connector

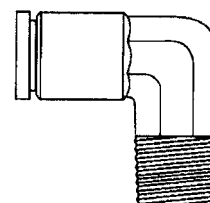


(1) tube, (2) NPTF male

31188-025-02	\$10.68
31188-04-02	\$15.93
31188-04-04	\$16.24

31169

Push-In x Male Pipe
90° Elbow

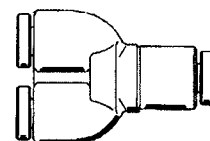


(1) tube, (2) NPTF male

31169-02-02	\$4.02
31169-025-02	\$4.25
31169-03-02	\$4.41
31169-04-02	\$3.63
31169-04-04	\$3.86
31169-04-06	\$7.23
31169-06-02	\$6.39
31169-06-04	\$5.58
31169-06-06	\$6.27
31169-08-04	\$8.11
31169-08-06	\$7.54
31169-08-08	\$9.20
31169-10-06	\$12.98

31189

Y Connector Union



(1) tube, (2) tube

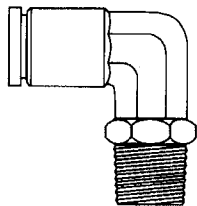
31189-025-025	\$16.28
31189-025-04	\$16.28
31189-04-02	\$12.80
31189-04-025	\$15.76
31189-04-04	\$13.42
31189-04-06	\$20.70

Use with PT230 Polyamide Tubing
or PT240 Polyethylene Tubing

Warning: Push-In Tube Fittings
are not approved for Air brake
applications.

31169S

Push-In x Male Pipe Swivel
90° Elbow



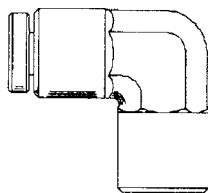
(1) tube, (2) NPTF male swivel

31169S-02-02	\$4.83
31169S-02-04	\$7.72
31169S-025-02	\$6.91
31169S-025-04	\$6.91
31169S-025-A	\$8.04
31169S-04-02	\$4.59
31169S-04-04	\$5.11
31169S-04-06	\$9.98
31169S-04-A	\$8.04
31169S-06-02	\$7.90
31169S-06-04	\$6.76
31169S-06-06	\$7.41
31169S-06-08	\$11.71
31169S-08-04	\$9.33
31169S-08-06	\$9.37
31169S-08-08	\$11.34

* A = 10-32 UNF Thread

31170

Female 90° Elbow

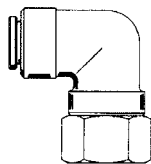


(1) tube, (2) NPTF female

31170-02-02	\$4.17
31170-025-02	\$4.77
31170-04-02	\$6.23
31170-04-04	\$6.64
31170-06-04	\$8.87

31170S

Female Swivel 90° Elbow

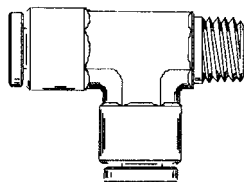


(1) tube, (2) NPSM female

31170S-04-02	\$7.23
31170S-04-04	\$8.39
31170S-06-04	\$9.93
31170S-06-06	\$10.03
31170S-08-06	\$12.80

31171

Male Run Tee

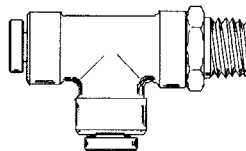


(1) tube, (2) NPTF male swivel,
(3) tube

31171-02-02-02	\$5.92
31171-025-02-025	\$6.39
31171-03-02-03	\$7.04
31171-04-02-04	\$6.58
31171-04-04-04	\$6.83
31171-06-02-06	\$9.52
31171-06-04-06	\$9.88
31171-06-06-06	\$10.19
31171-08-06-08	\$11.84

31171s

Male Swivel Run Tee



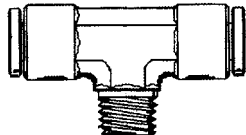
(1) tube, (2) NPTF male swivel,
(3) tube

31171S-02-02-02	\$6.97
31171S-025-02-025	\$12.98
31171S-02-A-02	\$10.19
31171S-04-02-04	\$8.87
31171S-04-04-04	\$8.79
31171S-04-06-04	\$14.13
31171S-06-04-06	\$11.10
31171S-06-06-06	\$14.02
31171S-08-04-08	\$14.31
31171S-08-06-08	\$16.17
31171S-08-08-08	\$15.19

* A = 10-32 UNF Thread

31172

Male Branch Tee

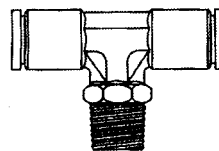


(1) tube, (2) tube, (3) NPTF male
swivel

31172-02-02-02	\$5.75
31172-025-025-02	\$6.39
31172-04-04-02	\$6.91
31172-04-04-04	\$6.96
31172-04-04-06	\$7.90
31172-06-06-02	\$8.31
31172-06-06-04	\$8.49
31172-06-06-06	\$8.62
31172-08-08-04	\$13.44
31172-08-08-06	\$12.48

31172S

Male Branch Tee Swivel



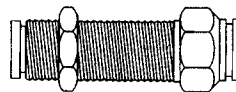
(1) tube, (2) tube, (3) NPTF male
swivel

31172S-02-02-02	\$10.23
31172S-02-02-A	\$10.23
31172S-025-025-02	\$12.98
31172S-025-025-A	\$12.48
31172S-04-04-02	\$8.44
31172S-04-04-04	\$7.40
31172S-04-04-06	\$14.31
31172S-06-06-04	\$9.86
31172S-06-06-06	\$12.33
31172S-08-08-04	\$14.58
31172S-08-08-06	\$13.61
31172S-08-08-08	\$19.03

* A = 10-32 UNF Thread

31182

Bulkhead Union

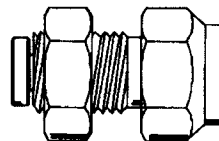


(1) tube, (2) tube

31182-02-02	\$8.04
31182-025-025	\$7.39
31182-03-03	\$7.40
31182-04-04	\$6.91
31182-06-06	\$8.04
31182-08-08	\$8.62

31186

Bulkhead Female
Connector



(1) tube, (2) NPTF female

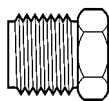
31186-04-02	\$8.05
31186-04-04	\$10.32
31186-06-04	\$11.57

Use with PT230 Polyamide Tubing
or PT240 Polyethylene Tubing

Warning: Push-In Tube Fittings
are not approved for Air brake
applications.

3100

Tube Nut (Brass)

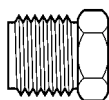


Ref. SAE # 040110

3100-03	\$0.44
3100-04	\$0.47
3100-05	\$0.79
3100-06	\$0.79
3100-08	\$1.31

3105

Tube Nut (Steel)

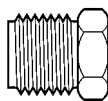


Ref. SAE # 040110

3105-02	\$0.83
3105-03	\$0.26
3105-04	\$0.28
3105-05	\$0.38
3105-06	\$0.58
3105-07	\$1.46
3105-08	\$1.00
3105-10	\$2.54
3105-12	\$4.59
3105-14	\$10.92

3131

Inverted Flare Plug

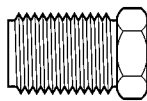


Ref. SAE # 040109

3131-03	\$0.74
3131-04	\$0.70
3131-05	\$1.03
3131-06	\$1.87

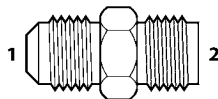
37896

Long Tube Nut (Steel)



37896-03	\$8.13
37896-04	\$2.26

SAE 45° to
Inverted Flare Adapter

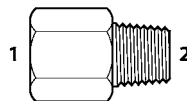


(1) Flare, (2) Inverted Flare

Item #	SAE	Inv.	Price
31518	1/4	3/16	\$7.83
31522	1/4	1/4	\$4.58
31553	3/8	3/16	\$10.68
31563	3/8	3/8	\$10.25
31554	3/8	3/16	\$17.00

3202

Inverted Flare x Male Pipe



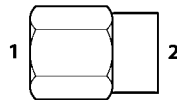
(1) tube, (2) NPT male

Ref. SAE # 040102

3202-02-02	\$0.87
3202-03-02	\$0.61
3202-04-02	\$0.61
3202-04-04	\$1.00
3202-05-02	\$0.63
3202-05-04	\$1.03
3202-06-02	\$1.44
3202-06-04	\$1.31
3202-06-06	\$1.82
3202-08-04	\$2.88
3202-08-06	\$2.18
3202-08-08	\$3.41
3202-10-08	\$5.22
3202-12-08	\$16.39
3202-12-12	\$9.51

3252

Inverted Flare x Female
Pipe



(1) tube, (2) NPT female

Ref. SAE # 040103

3252-02-02	\$1.61
3252-03-02	\$1.26
3252-04-02	\$1.28
3252-05-02	\$1.61
3252-06-04	\$2.72
3252-08-06	\$4.58
3252-10-08	\$12.34
3252-12-12	\$36.61

3302

Inverted Flare Union



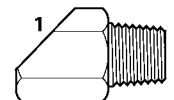
(1) tube, (2) tube

Ref. SAE # 040101

3302-02-02	\$1.61
3302-03-03	\$0.96
3302-04-04	\$0.96
3302-05-05	\$1.11
3302-06-06	\$1.87
3302-08-08	\$4.17
3302-10-10	\$15.90

3352

Inverted Flare x Male Pipe
45° Elbow



(1) tube, (2) NPT male

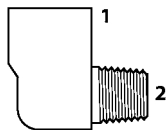
Ref. SAE # 040302

3352-02-02	\$4.14
3352-03-02	\$10.06
3352-04-02	\$2.46
3352-05-02	\$2.85
3352-05-04	\$4.73
3352-06-02	\$5.61
3352-06-04	\$4.73
3352-08-06	\$5.83
3352-10-08	\$20.07

Use with aluminum, brass, copper or steel tubing.

3402

Inverted Flare x Male Pipe
90° Elbow

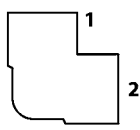


(1) tube, (2) NPT male
Ref. SAE # 040202

3402-02-02	\$2.46
3402-03-02	\$1.53
3402-04-02	\$1.03
3402-04-04	\$1.90
3402-05-02	\$1.31
3402-05-04	\$2.98
3402-06-02	\$3.41
3402-06-04	\$2.85
3402-06-06	\$4.92
3402-07-04	\$8.69
3402-08-04	\$7.70
3402-08-06	\$4.66
3402-08-08	\$7.69
3402-10-06	\$13.24
3402-10-08	\$10.80
3402-12-08	\$16.95

3452

Inverted Flare x Female
Pipe, 90° Elbow

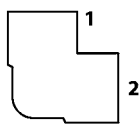


(1) tube, (2) NPT female
Ref. SAE # 040203

3452-04-02	\$14.54
3452-05-02	\$13.20
3452-06-04	\$18.09

3502

Inverted Flare Union
90° Elbow

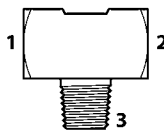


(1) tube, (2) tube
Ref. SAE # 040201

3502-04-04	\$3.10
3502-05-05	\$3.18

3602

Inverted Flare x Male Pipe
Branch Tee

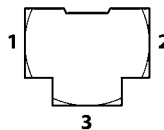


(1) tube, (2) tube, (3) NPT male
Ref. SAE # 040425

3602-03-03-02	\$3.93
3602-04-04-02	\$4.80
3602-05-05-02	\$5.66
3602-06-06-04	\$4.92

3652

Inverted Flare x Female
Pipe Branch Tee

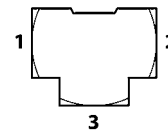


(1) tube, (2) tube, (3) NPT female
Ref. SAE # 040427

3652-03-03-02	\$9.38
3652-05-05-02	\$8.52
3652-06-06-04	\$11.07

3702

Inverted Flare Union Tee

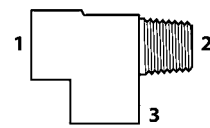


(1) tube, (2) tube, (3) tube
Ref. SAE # 040401

3702-02-02-02	\$4.45
3702-03-03-03	\$3.58
3702-04-04-04	\$3.13
3702-05-05-05	\$4.66
3702-06-06-06	\$7.20
3702-08-08-08	\$10.14

3752

Inverted Flare x Male Pipe
Run Tee



(1) tube, (2) NPT male, (3) tube
Ref. SAE # 040424

3752-03-02-03	\$6.58
3752-04-02-04	\$5.50
3752-05-02-05	\$7.41
3752-06-04-06	\$11.34

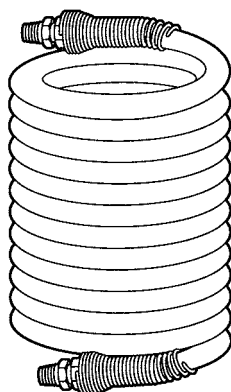
Use with aluminum, brass, copper or steel tubing.

Hose Assemblies

Recommended for use with pneumatic tools. Lightweight, self-retracting hose coil eliminates the need for reels and other expensive take-up devices. Available in yellow only.

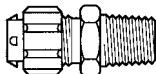
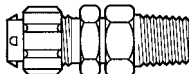



- 200 psi max. working pressure at 78° F
- 800 psi minimum burst
- NPTF male pipe fittings (one end swivels)

Caution: Do not use in applications where temperature exceeds 200° F. Higher temperatures could result in hose rupture.



Item #	Size	Max. Working Length	Price
313004-J12	1/4"	10½ feet	\$26.19
313004-J25	1/4"	23½ feet	\$32.13
313004-J50	1/4"	47 feet	\$49.21
313004-J100	1/4"	94 feet	\$94.46
313006-J12	3/8"	10½ feet	\$36.49
313006-J25	3/8"	23½ feet	\$49.19
313006-J50	3/8"	47 feet	\$78.26

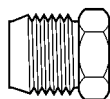
RepAir Fittings

Male Pipe Rigid 	313004-1	1/4"	\$6.27
	313006-1	3/8"	\$15.25
Male Pipe Swivel 	313004-J	1/4"	\$26.33
	313006-J	3/8"	\$26.41
Plastic Sleeve 	313004-A	1/4"	\$0.83
	313006-A	3/8"	\$1.44
Brass Nut 	313004-B	1/4"	\$1.37
	313006-B	3/8"	\$1.43
Steel Spring Guard 	313004-C	1/4"	\$1.01
	313006-C	3/8"	\$3.13

Threaded Sleeve

36100

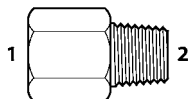
Nut



36100-02	\$0.53
36100-03	\$0.47
36100-04	\$0.55
36100-05	\$0.58
36100-06	\$1.17

36200

Male Connector

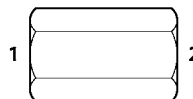


(1) tube, (2) NPT male

36200-02-02	\$0.62
36200-03-02	\$0.62
36200-04-02	\$0.74
36200-05-02	\$0.99
36200-06-04	\$2.56

36300

Union

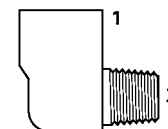


(1) tube, (2) tube

36300-04-04	\$3.52
-------------	--------

36400

Male Elbow



(1) tube, (2) NPT male

36400-02-02	\$2.50
36400-03-02	\$5.41
36400-04-02	\$5.37
36400-05-02	\$6.39
36400-06-04	\$6.77

Double compression • Use with aluminum and copper tubing

31260

Plastic Sleeve



31260-04	\$0.16
31260-05	\$0.25
31260-06	\$0.19
31260-08	\$0.27

31261

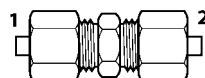
Nut



31261-04	\$0.71
31261-05	\$0.85
31261-06	\$0.90
31261-08	\$1.31

31262

Poly-Tube Union

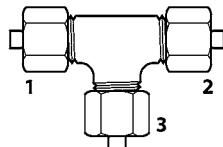


(1) tube, (2) tube

31262-04-04	\$3.73
31262-05-05	\$6.02
31262-06-06	\$4.83

31264

Poly-Tube Union Tee

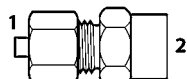


(1) tube, (2) tube, (3) tube

31264-04-04-04	\$7.04
31264-05-05-05	\$8.68
31264-06-06-06	\$8.78

31266

Poly-Tube x Female Pipe

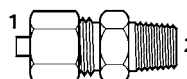


(1) tube, (2) NPT female

31266-04-02	\$2.46
31266-04-04	\$3.53
31266-05-02	\$5.40
31266-05-04	\$7.09
31266-06-02	\$10.14
31266-06-04	\$3.91
31266-08-06	\$7.13

31268

Poly-Tube x Male Pipe

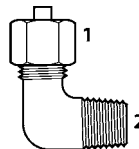


(1) tube, (2) NPT male

31268-04-02	\$2.35
31268-04-04	\$2.77
31268-04-06	\$4.59
31268-05-02	\$3.16
31268-05-04	\$3.82
31268-06-02	\$3.35
31268-06-04	\$3.20
31268-06-06	\$3.95
31268-08-06	\$4.59

31269

Poly-Tube x Male Pipe,
90° Elbow

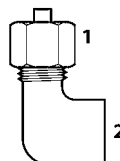


(1) tube, (2) NPT male

31269-04-02	\$2.64
31269-04-04	\$3.27
31269-04-06	\$6.02
31269-05-02	\$4.19
31269-06-02	\$4.37
31269-06-04	\$3.63
31269-06-06	\$5.49
31269-08-06	\$5.75

31270

Poly-Tube x Female Pipe,
90° Elbow

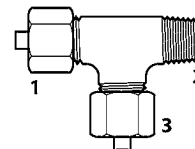


(1) tube, (2) NPT female

31270-04-02	\$3.35
31270-04-04	\$6.13
31270-06-04	\$5.02
31270-08-06	\$8.13

31271

Poly-Tube x Male Pipe
Run Tee

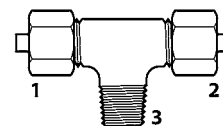


(1) tube, (2) NPT male, (3) tube

31271-04-02-04	\$5.86
31271-04-04-04	\$7.61
31271-05-02-05	\$8.13
31271-06-04-06	\$8.22
31271-08-06-08	\$11.84

31272

Poly-Tube x Male Pipe
Branch Tee

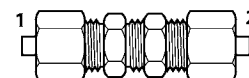


(1) tube, (2) tube, (3) NPT male

31272-04-04-02	\$5.40
31272-04-04-04	\$7.83
31272-05-05-02	\$8.13
31272-06-06-02	\$10.95
31272-06-06-04	\$7.43
31272-08-08-06	\$12.01

31274

Poly-Tube Bulkhead Union



(1) tube, (2) tube

31274-04-04	\$7.33
31274-05-05	\$10.11
31274-06-06	\$10.22
31274-08-08	\$14.44

Plastic Tube and Hose Cutter

Cuts plastic tubing and hose up to 1/2" OD. Mounts on bench or wall. Designed to close automatically for safety when not in use.



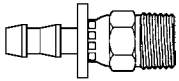
Not for use with wire-reinforced hose.

DT191	Plastic Tube Cutter	\$15.65
DT191B	Replacement Blade	\$6.16

Use with PT200 PVC Tubing, PT230 Polyamide Tubing or PT240 Polyethylene Tubing

271

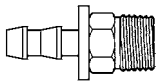
Male Pipe (NPTF) Swivel



Item #	Hose	Pipe	Price
271-0404C	1/4"	1/4"	\$3.75
271-0604C	3/8"	1/4"	\$3.84
271-0606C	3/8"	3/8"	\$4.29
271-0806C	1/2"	3/8"	\$4.66
271-0808C	1/2"	1/2"	\$5.66
271-1212C	3/4"	3/4"	\$8.38

272

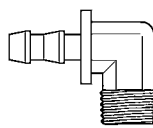
Male Pipe (NPTF)



Item #	Hose	Pipe	Price
272-0402C	1/4"	1/8"	\$1.17
272-0404C	1/4"	1/4"	\$1.39
272-0406C	1/4"	3/8"	\$1.18
272-0502C	5/16"	1/8"	\$1.55
272-0504C	5/16"	1/4"	\$1.80
272-0602C	3/8"	1/8"	\$1.48
272-0604C	3/8"	1/4"	\$1.39
272-0606C	3/8"	3/8"	\$1.62
272-0608C	3/8"	1/2"	\$2.55
272-0612C	3/8"	3/4"	\$5.75
272-0804C	1/2"	1/4"	\$2.01
272-0806C	1/2"	3/8"	\$1.87
272-0808C	1/2"	1/2"	\$2.55
272-0812C	1/2"	3/4"	\$4.38
272-1006C	5/8"	3/8"	\$4.29
272-1008C	5/8"	1/2"	\$4.17
272-1012C	5/8"	3/4"	\$5.38
272-1208C	3/4"	1/2"	\$4.38
272-1212C	3/4"	3/4"	\$4.17
272-1612C	1"	3/4"	\$10.71
272-1616C	1"	1"	\$12.56

273

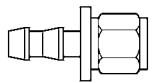
Male Pipe (NPTF) 90°



Item #	Hose	Pipe	Price
273-0402C	1/4"	1/8"	\$2.57
273-0404C	1/4"	1/4"	\$3.00
273-0602C	3/8"	1/8"	\$3.94
273-0604C	3/8"	1/4"	\$3.00
273-0606C	3/8"	3/8"	\$3.86
273-0806C	1/2"	3/8"	\$4.88
273-0808C	1/2"	1/2"	\$5.66
273-1208C	3/4"	1/2"	\$14.73
273-1212C	3/4"	3/4"	\$10.51

274

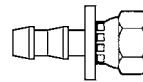
Female Pipe (NPTF)



Item #	Hose	Pipe	Price
274-0402C	1/4"	1/8"	\$2.30
274-0404C	1/4"	1/4"	\$1.75
274-0406C	1/4"	3/8"	\$3.95
274-0502C	5/16"	1/8"	\$1.96
274-0504C	5/16"	1/4"	\$2.17
274-0602C	3/8"	1/8"	\$2.03
274-0604C	3/8"	1/4"	\$2.01
274-0606C	3/8"	3/8"	\$2.46
274-0608C	3/8"	1/2"	\$2.72
274-0612C	3/8"	3/4"	\$6.42
274-0804C	1/2"	1/4"	\$3.73
274-0806C	1/2"	3/8"	\$2.79
274-0808C	1/2"	1/2"	\$2.72
274-0812C	1/2"	3/4"	\$7.21
274-1006C	5/8"	3/8"	\$3.39
274-1008C	5/8"	1/2"	\$3.10
274-1208C	3/4"	1/2"	\$4.60
274-1212C	3/4"	3/4"	\$5.66

278

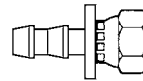
Female Pipe (NPSM) Swivel
Ballseat Type



Item #	Hose	Pipe	Price
278-0402C	1/4"	1/8"	\$4.10
278-0404C	1/4"	1/4"	\$2.35
278-0406C	1/4"	3/8"	\$3.72
278-0604C	3/8"	1/4"	\$3.63
278-0606C	3/8"	3/8"	\$4.47
278-0808C	1/2"	1/2"	\$5.21
278-0812C	1/2"	3/4"	\$7.21
278-1212C	3/4"	3/4"	\$10.09

280

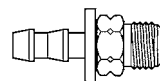
Female Pipe (NPSM) Swivel
Gasket Type



Item #	Hose	Pipe	Price
280-0402C	1/4"	1/8"	\$4.82
280-0404C	1/4"	1/4"	\$3.20
280-0604C	3/8"	1/4"	\$3.80
280-0606C	3/8"	3/8"	\$5.01
280-0608C	3/8"	1/2"	\$6.99
280-0808C	1/2"	1/2"	\$6.34
280-1212C	3/4"	3/4"	\$11.72

282

SAE 45° Male

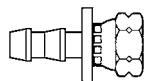


Item #	Hose	Tube	Price
282-0407C	1/4"	1/4"	\$2.50
282-0408C	1/4"	5/16"	\$2.03
282-0610C	3/8"	3/4"	\$3.00
282-0812C	1/2"	1/2"	\$4.96
282-1014C	5/8"	5/8"	\$4.95
282-1217C	3/4"	3/4"	\$9.79

No clamps or ferrules required when used with Push-Lock Low Pressure Hose.

284

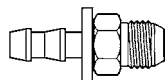
SAE 45° Female Swivel



Item #	Hose	Tube	Price
284-0410C	1/4"	3/8"	\$3.02
284-0510C	5/16"	3/8"	\$3.10
284-0610C	3/8"	3/8"	\$2.50
284-1217C	3/4"	3/4"	\$7.29

286

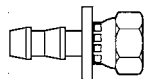
SAE 37° (JIC) Flare Male



Item #	Hose	Tube	Price
286-0407C	1/4"	1/4"	\$2.37
286-0409C	1/4"	3/4"	\$37.42
286-0609C	3/8"	3/8"	\$3.72
286-0812C	1/2"	1/2"	\$4.50
286-1014C	5/8"	5/8"	\$9.20
286-1217C	3/4"	3/4"	\$9.22

287

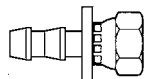
Dual Angle Seat (SAE 45° / JIC 37° Flare) Female Swivel



Item #	Hose	Tube	Price
287-0407C	1/4"	1/4"	\$2.37
287-0408C	1/4"	5/16"	\$2.55
287-0612C	3/8"	1/2"	\$4.03
287-0812C	1/2"	1/2"	\$3.20
287-0814C	1/2"	5/8"	\$5.41
287-1014C	5/8"	5/8"	\$5.64

288

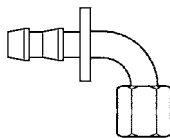
SAE 37° (JIC) Flare Female Swivel



Item #	Hose	Tube	Price
288-0409C	1/4"	3/8"	\$3.00
288-0509C	5/16"	3/8"	\$3.72
288-0609C	3/8"	3/8"	\$2.55
288-1217C	3/4"	3/4"	\$6.64

289

Dual Angle Seat* (SAE 45° / JIC 37° Flare) Female Swivel 90°

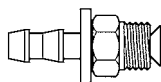


Item #	Hose	Tube	Price
289-0407C	1/4"	1/4"	\$26.11
289-0609C	3/8"	3/8"	\$24.10
289-0610SAE	3/8"	3/8"	\$32.72
289-0812C	1/2"	1/2"	\$29.94
289-1217C	3/4"	3/4"	\$78.80

* 3/8" tube fittings do not have a dual angle seat. Use 289-0609C with JIC 37° flare and 289-0610SAE with SAE 45° flare.

290

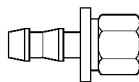
Inverted Flare Male Swivel



Item #	Hose	Tube	Price
290-0406C	1/4"	3/16"	\$3.45
290-0407C	1/4"	1/4"	\$2.66
290-0408C	1/4"	5/16"	\$2.85
290-0508C	5/16"	5/16"	\$3.58
290-0510C	5/16"	3/8"	\$4.58
290-0608C	3/8"	5/16"	\$3.10
290-0610C	3/8"	3/8"	\$3.26
290-0812C	1/2"	1/2"	\$5.38
290-1014C	5/8"	5/8"	\$7.41

292

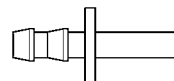
Inverted Flare Female



Item #	Hose	Tube	Price
292-0406C	1/4"	3/16"	\$2.75
292-0407C	1/4"	1/4"	\$2.72
292-0408C	1/4"	5/16"	\$2.64
292-0608C	3/8"	5/16"	\$4.13
292-0610C	3/8"	3/8"	\$3.50
292-0812C	1/2"	1/2"	\$5.50

294

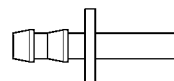
Rigid Tube Shank, North American



Item #	Hose	Tube	Price
294-0403C	1/4"	3/16"	\$2.22
294-0404C	1/4"	1/4"	\$1.48
294-0405C	1/4"	5/16"	\$1.87
294-0505C	5/16"	5/16"	\$2.09
294-0606C	3/8"	3/8"	\$3.10
294-0808C	1/2"	1/2"	\$5.48
294-1010C	5/8"	5/8"	\$5.38
294-1212C	3/4"	3/4"	\$5.23

294M

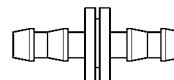
Rigid Tube Shank, Metric



Item #	Hose	Tube	Price
294M-0406M	1/4"	6mm	\$2.30
294M-0408M	1/4"	8mm	\$2.42
294M-0610M	3/8"	10mm	\$2.50
294M-0612M	3/8"	12mm	\$2.50
294M-0815M	1/2"	15mm	\$3.31
294M-1018M	5/8"	18mm	\$3.38
294M-1222M	3/4"	22mm	\$4.82

296

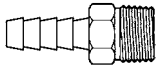
Hose Mender



Item #	Hose	Price
296-0404C	1/4"	\$1.75
296-0505C	5/16"	\$1.80
296-0606C	3/8"	\$2.03
296-0808C	1/2"	\$2.66
296-1010C	5/8"	\$4.13
296-1212C	3/4"	\$5.01

No clamps or ferrules required when used with Push-Lock Low Pressure Hose.

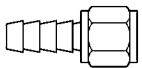
TN Male Pipe (NPTF)



Item #	Hose	NPTF	Price
TN252	3/16"	1/4"	\$1.75
TN21	1/4"	1/8"	\$1.68
TN22	1/4"	1/4"	\$1.67
TN23	1/4"	3/8"	\$1.81
TN24	1/4"	1/2"	\$2.04
TN26	1/4"	3/4"	\$2.14
TN28	1/4"	1"	\$3.47
TN31	3/8"	1/8"	\$1.90
TN32	3/8"	1/4"	\$2.08
TN33	3/8"	3/8"	\$2.17
TN34	3/8"	1/2"	\$2.38
TN36	3/8"	3/4"	\$2.55
TN41	1/2"	1/8"	\$1.65
TN42	1/2"	1/4"	\$1.84
TN43	1/2"	3/8"	\$1.87
TN44	1/2"	1/2"	\$2.14
TN46	1/2"	3/4"	\$2.45
TN53	5/8"	3/8"	\$2.04
TN54	5/8"	1/2"	\$2.25
TN56	5/8"	3/4"	\$2.61
TN63	3/4"	3/8"	\$1.97
TN64	3/4"	1/2"	\$2.52
TN66	3/4"	3/4"	\$2.79
TN68	3/4"	1"	\$3.27
TN86	1"	3/4"	\$3.07
TN88	1"	1"	\$3.71
TN158	1-1/4"	1"	\$5.87
TN150	1-1/4"	1-1/4"	\$8.81
TN1520	1-1/4"	1-1/2"	\$9.24
TN2015	1-1/2"	1-1/4"	\$8.95
TN200	1-1/2"	1-1/2"	\$9.35
TN250	2"	2"	\$13.61

TFS

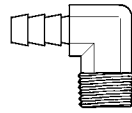
Female Pipe (NPTF)



Item #	Hose	NPTF	Price
TFS22	1/4"	1/4"	\$1.75
TFS24	1/4"	1/2"	\$2.14
TFS44	1/2"	1/2"	\$2.26
TFS66	3/4"	3/4"	\$2.94

TLS

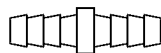
Male Pipe (NPTF) 90°



Item #	Hose	NPTF	Price
TLS21	1/4"	1/8"	\$2.08
TLS22	1/4"	1/4"	\$2.26
TLS23	1/4"	3/8"	\$2.94
TLS31	3/8"	1/8"	\$2.14
TLS32	3/8"	1/4"	\$2.26
TLS33	3/8"	3/8"	\$2.94
TLS34	3/8"	1/2"	\$3.40
TLS36	3/8"	3/4"	\$3.65
TLS42	1/2"	1/4"	\$2.94
TLS43	1/2"	3/8"	\$2.94
TLS44	1/2"	1/2"	\$3.40
TLS46	1/2"	3/4"	\$3.65
TLS48	1/2"	1"	\$5.44
TLS53	5/8"	3/8"	\$3.40
TLS54	5/8"	1/2"	\$3.65
TLS56	5/8"	3/4"	\$3.86
TLS58	5/8"	1"	\$4.08
TLS63	3/4"	3/8"	\$4.08
TLS64	3/4"	1/2"	\$3.86
TLS66	3/4"	3/4"	\$4.08
TLS68	3/4"	1"	\$4.29
TLS86	1"	3/4"	\$4.08
TLS88	1"	1"	\$6.52

TM

Hose Mender



Item #	Hose I.D.	Price
TM25	3/16"	\$1.58
TM2	1/4"	\$1.68
TM3	3/8"	\$1.80
TM4	1/2"	\$2.40
TM5	5/8"	\$3.69
TM6	3/4"	\$3.69
TM8	1"	\$4.55

Recommended for general purpose Air, water and other low pressure applications. Nylon fittings should not be used with acid-based fertilizers, bromine, chlorine, flourine, hydrochloric acid, iodine, nitric acid, phosphoric acid, sulfuric acid, or xylene. Made with material approved by the FDA. Nylon fittings should not be used with compressed gas.

Garden Hose Fittings

Garden Hose Fittings feature brass construction and 3/4-11.5 NH thread.

513

Garden Hose Cap



513-1212C \$4.47

514

Garden Hose x NPTF Adapter

Dual NPTF (3/4" male, 1/2" female)



585-0812C \$5.36

585

Male Garden Hose Barb



Item #	Hose	Price
585-0812C	1/2"	\$5.36
585-1012C	5/8"	\$5.36
585-1212C	3/4"	\$5.36

588

Female Swivel Garden Hose Barb

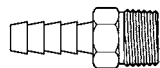


Item #	Hose	Price
588-0812C	1/2"	\$5.99
588-1012C	5/8"	\$5.99
588-1212C	3/4"	\$5.99

Brass hose barbs must be securely affixed with clamps or ferrules.

102

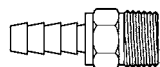
Male Pipe (NPTF)



Item #	Hose	NPTF	Price
102-0202C	1/8"	1/8"	\$1.08
102-0204C	1/8"	1/4"	\$1.33
102-0302C	3/16"	1/8"	\$0.87
102-0304C	3/16"	1/4"	\$1.17
102-0402C	1/4"	1/8"	\$1.00
102-0404C	1/4"	1/4"	\$0.87
102-0406C	1/4"	3/8"	\$1.55
102-0408C	1/4"	1/2"	\$2.79
102-0502C	5/16"	1/8"	\$1.08
102-0504C	5/16"	1/4"	\$1.17
102-0506C	5/16"	3/8"	\$1.75
102-0602C	3/8"	1/8"	\$1.39
102-0604C	3/8"	1/4"	\$0.85
102-0606C	3/8"	3/8"	\$1.39
102-0608C	3/8"	1/2"	\$2.33
102-0612C	3/8"	3/4"	\$3.93
102-0804C	1/2"	1/4"	\$1.67
102-0806C	1/2"	3/8"	\$1.45
102-0808C	1/2"	1/2"	\$2.01
102-0812C	1/2"	3/4"	\$3.45
102-1006C	5/8"	3/8"	\$2.01
102-1008C	5/8"	1/2"	\$2.46
102-1012C	5/8"	3/4"	\$3.63
102-1208C	3/4"	1/2"	\$2.72
102-1212C	3/4"	3/4"	\$3.02
102-1612C	1"	3/4"	\$4.13
102-1616C	1"	1"	\$7.21
102-2012C	1-1/4"	3/4"	\$6.89
102-2016C	1-1/4"	1"	\$7.10

103

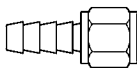
Male Pipe (NPTF) Swivel



Item #	Hose	NPTF	Price
103-0404C	1/4"	1/4"	\$3.75
103-0604C	3/8"	1/4"	\$3.86
103-0606C	3/8"	3/8"	\$4.21
103-0806C	1/2"	3/8"	\$4.76
103-0808C	1/2"	1/2"	\$6.02
103-1212C	3/4"	3/4"	\$7.80

104

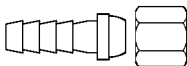
Female Pipe (NPTF)



Item #	Hose	NPTF	Price
104-0202C	1/8"	1/8"	\$1.30
104-0204C	1/8"	1/4"	\$2.33
104-0302C	3/16"	1/8"	\$1.20
104-0304C	3/16"	1/4"	\$2.01
104-0402C	1/8"	1/8"	\$1.05
104-0404C	1/4"	1/4"	\$1.39
104-0406C	1/4"	3/8"	\$1.75
104-0502C	1/8"	1/8"	\$1.80
104-0504C	1/4"	1/4"	\$2.01
104-0506C	3/8"	3/8"	\$2.42
104-0602C	3/8"	1/8"	\$1.55
104-0604C	3/8"	1/4"	\$1.41
104-0606C	3/8"	3/8"	\$1.96
104-0608C	3/8"	1/2"	\$3.17
104-0804C	1/2"	1/4"	\$1.67
104-0806C	1/2"	3/8"	\$2.50
104-0808C	1/2"	1/2"	\$3.02
104-1212C	3/4"	3/4"	\$5.48
104-1612C	1"	3/4"	\$4.88
104-1616C	1"	1"	\$9.01

124

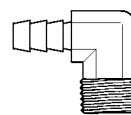
Female Pipe (NPSM) Swivel



Item #	Hose	NPTF	Price
124-0202K	1/8"	1/8"	\$1.58
124-0302K	3/16"	1/8"	\$1.58
124-0304K	3/16"	1/4"	\$1.80
124-0402K	1/4"	1/8"	\$1.72
124-0404K	1/4"	1/4"	\$1.48
124-0406K	1/4"	3/8"	\$2.03
124-0504K	5/16"	1/4"	\$1.80
124-0506K	5/16"	3/8"	\$2.30
124-0604K	3/8"	1/4"	\$1.62
124-0606K	3/8"	3/8"	\$2.12
124-0608K	3/8"	1/2"	\$3.31
124-0806K	1/2"	3/8"	\$2.37
124-0808K	1/2"	1/2"	\$3.10
124-1212K	3/4"	3/4"	\$4.73

129

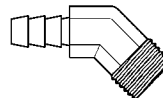
Male Pipe (NPTF) 90°



Item #	Hose	NPTF	Price
129-0302C	3/16"	1/8"	\$2.22
129-0402C	1/4"	1/8"	\$2.22
129-0404C	1/4"	1/4"	\$2.55
129-0406C	1/4"	3/8"	\$3.58
129-0502C	5/16"	1/8"	\$2.85
129-0504C	5/16"	1/4"	\$2.75
129-0506C	5/16"	3/8"	\$4.13
129-0602C	3/8"	1/8"	\$2.37
129-0604C	3/8"	1/4"	\$2.46
129-0606C	3/8"	3/8"	\$3.17
129-0608C	3/8"	1/2"	\$3.72
129-0804C	1/2"	1/4"	\$3.17
129-0806C	1/2"	3/8"	\$4.25
129-0808C	1/2"	1/2"	\$5.04
129-1006C	5/8"	3/8"	\$5.95
129-1008C	5/8"	1/2"	\$7.21
129-1208C	3/4"	1/2"	\$9.83
129-1212C	3/4"	3/4"	\$12.14
129-1612C	1"	3/4"	\$13.77
129-1616C	1"	1"	\$16.21

139

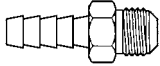
Male Pipe (NPTF) 45°



Item #	Hose	NPTF	Price
139-0402C	1/4"	1/8"	\$4.66
139-0404C	1/4"	1/4"	\$4.76
139-0602C	3/8"	1/8"	\$3.58
139-0604C	3/8"	1/4"	\$3.17
139-0606C	3/8"	3/8"	\$4.94
139-0804C	1/2"	1/4"	\$5.95
139-0806C	1/2"	3/8"	\$4.94
139-0808C	1/2"	1/2"	\$6.83

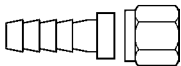
Brass hose barbs must be securely affixed with clamps or ferrules.

142 SAE 45° Male



Item #	Hose	Tube	Price
142-0307C	3/16"	1/4"	\$1.87
142-0407C	1/4"	1/4"	\$1.39
142-0410C	1/4"	3/8"	\$1.48
142-0508C	5/16"	5/16"	\$2.37
142-0610C	3/8"	3/8"	\$1.48
142-0612C	3/8"	1/2"	\$2.50
142-0812C	1/2"	1/2"	\$3.02

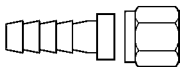
143 SAE 45° / SAE 37° (JIC) Dual Angle Seat Female Swivel



Note: In all sizes except -06 and -12, SAE 45° flare and SAE 37° (JIC) flare use the same thread. However, the sealing surface angles are not the same.

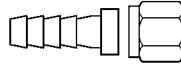
Item #	Hose	Tube	Price
143-0307K	3/16"	1/4"	\$1.67
143-0407K	1/4"	1/4"	\$1.62
143-0408K	1/4"	5/16"	\$1.96
143-0508K	5/16"	5/16"	\$2.03
143-0612K	3/8"	1/2"	\$2.95
143-0812K	1/2"	1/2"	\$3.13
143-0814K	1/2"	5/8"	\$3.86

144 SAE 45° Female Swivel



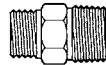
Item #	Hose	Tube	Price
144-0306K	3/16"	3/16"	\$1.72
144-0410K	1/4"	3/8"	\$2.01
144-0510K	5/16"	3/8"	\$2.17
144-0610K	3/8"	3/8"	\$2.17
144-0812K	1/2"	1/2"	\$3.50

145 SAE 37° (JIC) Female Swivel



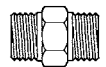
Item #	Hose	Tube	Price
145-0609K	3/8"	3/8"	\$2.01

172 NPSM x NPTF Adapter



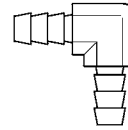
Item #	NPSM	NPTF	Price
172-0202C	1/8"	1/8"	\$1.33
172-0402C	1/4"	1/8"	\$1.26
172-0404C	1/4"	1/4"	\$1.42
172-0604C	3/8"	1/4"	\$1.96
172-0606C	3/8"	3/8"	\$2.07
172-0608C	3/8"	1/2"	\$3.28
172-0806C	1/2"	3/8"	\$2.24
172-0808C	1/2"	1/2"	\$3.06
172-1212C	3/4"	3/4"	\$3.89

176 NPSM x NPSM Union



Item #	NPSM	Price
176-0202C	1/8"	\$1.80
176-0404C	1/4"	\$2.01
176-0606C	3/8"	\$3.13
176-0808C	1/2"	\$4.76

177 Hose Mender Elbow



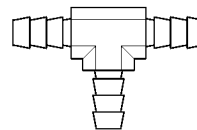
Item #	Hose	Price
177-0404C	1/4"	\$2.33
177-0505C	5/16"	\$2.95
177-0606C	3/8"	\$3.00
177-0808C	1/2"	\$4.21

178 Hose Mender



Item #	Hose	Price
178-0202C	1/8"	\$1.20
178-0303C	3/16"	\$1.08
178-0404C	1/4"	\$1.00
178-0505C	5/16"	\$1.26
178-0606C	3/8"	\$1.30
178-0808C	1/2"	\$1.84
178-1010C	5/8"	\$2.50
178-1212C	3/4"	\$2.79
178-1616C	1"	\$4.13

179 Mender Tee



Item #	Hose	Price
179-0303C	3/16"	\$3.17
179-0404C	1/4"	\$3.00
179-0505C	5/16"	\$3.56
179-0606C	3/8"	\$3.58
179-0808C	1/2"	\$5.21
179-1010C	5/8"	\$7.99
179-1212C	3/4"	\$9.96

Brass hose barbs must be securely affixed with clamps or ferrules.

BFM

Brass Ferrules for
Medium Weight
Air Hose



Ferrule I.D.	Ferrule Length	End Hole Size	Metal Gauge	Standard Ind. Part #	Ribbed Die*	Plain Die*	Bag Qty.	Item Number	Price**
0.478"	11/16"	21/64"	0.024"	4750	R41	P41/P42	50	BFM478-BAG	\$16.58
0.500"	1"	11/32"	0.024"	7322	R40	P40	50	BFM500-BAG	\$21.55
0.525"	1"	3/8"	0.024"	7323	R39	P39	50	BFM525-BAG	\$21.55
0.531"	1"	7/16"	0.024"	7324	R39	P39	50	BFM531-BAG	\$22.40
0.562"	1"	7/16"	0.024"	7325	R37	P38	50	BFM562-BAG	\$24.05
0.593"	1"	7/16"	0.024"	7326	R36	P37	50	BFM593-BAG	\$24.86
0.625"	1"	7/16"	0.024"	7327	R35	P25	50	BFM625-BAG	\$25.69
0.656"	1"	7/16"	0.024"	7328	R34	P35	50	BFM656-BAG	\$27.35
0.687"	1"	1/2"	0.024"	7329	R33	P34	50	BFM687-BAG	\$27.35
0.718"	1"	5/8"	0.024"	7330	R31	P32	50	BFM718-BAG	\$29.02
0.718"	1"	1/2"	0.024"	7330B	R31	P32	50	BFM718B-BAG	\$28.18
0.750"	1"	5/8"	0.024"	7331	R30	P31	50	BFM750-BAG	\$29.02
0.750"	1"	1/2"	0.024"	7331B	R30	P31	50	BFM750B-BAG	\$28.18
0.781"	1"	5/8"	0.024"	7332	R29	P30	50	BFM781-BAG	\$30.67
0.781"	1"	1/2"	0.024"	7332B	R29	P30	50	BFM781B-BAG	\$29.85
0.812"	1"	5/8"	0.024"	7333	R28	P29	50	BFM812-BAG	\$31.50

BFL

Brass Ferrules for
Light Weight Air
Hose



Ferrule I.D.	Ferrule Length	End Hole Size	Metal Gauge	Standard Ind. Part #	Ribbed Die*	Plain Die*	Bag Qty.	Item Number	Price**
0.380"	1/2"	17/64"	.016"	622	R44	P45	50	BFL380-BAG	\$10.77
0.400"	15/32"	17/64"	.020"	619	R44	P44	50	BFL400-BAG	\$11.60
0.410"	1/2"	17/64"	.016"	620	R43	P44	50	BFL410-BAG	\$11.60
0.450"	9/16"	11/32"	.016"	769	R41	P42	50	BFL450-BAG	\$11.60
0.500"	1/2"	11/32"	.016"	624	R40	P41	50	BFL500-BAG	\$11.60
0.525"	1/2"	11/32"	.016"	625	R39	P40	50	BFL525-BAG	\$11.60
0.548"	31/64"	3/8"	.015"	626	R38	P39	50	BFL548-BAG	\$11.60
0.564"	3/4"	3/8"	.019"	3588	R37	P38	50	BFL564-BAG	\$16.58
0.575"	31/64"	15/32"	.019"	KK	R37	P38	50	BFL575-BAG	\$11.60
0.600"	1/2"	1/2"	.019"	JJ	R36	P37	50	BFL600-BAG	\$13.26
0.625"	1/2"	1/2"	.019"	II	R35	P36	50	BFL625-BAG	\$14.08
0.650"	1/2"	1/2"	.019"	HH	R34	P35	50	BFL650-BAG	\$14.92
0.675"	33/64"	1/2"	.019"	GG	R34	P34	50	BFL675-BAG	\$15.74
0.725"	17/32"	1/2"	.019"	EE	R31	P32	50	BFL725-BAG	\$15.74
0.750"	17/32"	1/2"	.019"	DD	R30	P32	50	BFL750-BAG	\$16.58
0.775"	17/32"	1/2"	.016"	CC	R31	P31	50	BFL775-BAG	\$28.18

* Use these dies with the 660T Manual Ferrule Vise or 670T Air-Operated Ferrule Vise (page 29).

** Price per bag. Brass ferrules are not sold individually.

Brass hose barbs must be securely affixed with clamps or ferrules.

BF/BFW/ BFMW

Brass Ferrules for
Medium Weight
Air or Water Hose



Ferrule I.D.	Ferrule Length	End Hole Size	Metal Gauge	Standard Ind. Part #	Ribbed Die*	Plain Die*	Bag Qty.	Item Number	Price**
0.800"	0.844"	0.688"	.024	---	R28	P29	25	BF800-BAG	\$11.60
0.825"	0.844"	0.688"	.024	---	R27	P28	25	BF825-BAG	\$12.03
0.850"	0.568"	0.688"	.019	Z	R26	P27	25	BF850-BAG	\$10.77
0.875"	0.844"	0.688"	.024	7244A	R25	P26	25	BFW875-BAG	\$13.67
0.900"	0.844"	0.688"	.024	5029A	R24	P25	25	BFW900-BAG	\$13.67
0.925"	0.840"	0.690"	.025	7113	R23	P24	25	BFW925-BAG	\$13.67
0.975"	0.844"	0.688"	.024	5028A	R21	P22	25	BFW975-BAG	\$16.58
1.025"	0.844"	0.688"	.024	7114A	R19	P20	25	BFW1025-BAG	\$17.42
1.175"	0.844"	0.688"	.024	7088A	R13	P14	25	BFW1175-BAG	\$19.47
1.050"	0.625"	0.750"	.025	3605	R18	P19	25	BFMW1050-BAG	\$25.69
1.100"	0.843"	0.812"	.023	5027	R16	P17	25	BFMW1100-BAG	\$19.47
1.150"	0.844"	0.880"	.024	7104A	R15	P15	25	BFMW1150-BAG	\$20.72
1.225"	0.875"	0.875"	.025	875-K	R11	P12	25	BFMW1225-BAG	\$25.69
1.275"	0.875"	1.000"	.025	875-1	R9	P10	25	BFMW1275-BAG	\$55.14
1.400"	0.687"	1.120"	.020	D	R4	P5	25	BFMW1400-BAG	\$55.95
1.500"	0.875"	1.120"	.025	1500	---	P1	25	BFMW1500-BAG	\$33.58

* Use these dies with the 660T Manual Ferrule Vise or 670T Air-Operated Ferrule Vise (page 29).

** Price per bag. Brass ferrules are not sold individually.

Stainless Steel Wormgear Band Clamps



25% OFF
when you buy
100 or more.

Mix and match all sizes

Hose O.D.	Band Width	Item #	Price
0.22" – 0.63"	5/16"	M4P	\$0.47
0.31" – 0.88"	5/16"	M6P	\$0.51
0.38" – 0.88"	1/2"	B6H	\$0.61
0.44" – 1.00"	1/2"	B8H	\$0.61
0.56" – 1.06"	1/2"	B10H	\$0.61
0.56" – 1.25"	1/2"	B12H	\$0.62
0.69" – 1.50"	1/2"	B16H	\$0.62
0.75" – 1.75"	1/2"	B20H	\$0.63
1.06" – 2.00"	1/2"	B24H	\$0.63
1.31" – 2.25"	1/2"	B28H	\$0.65
1.56" – 2.50"	1/2"	B32H	\$0.65
1.81" – 2.75"	1/2"	B36H	\$0.65

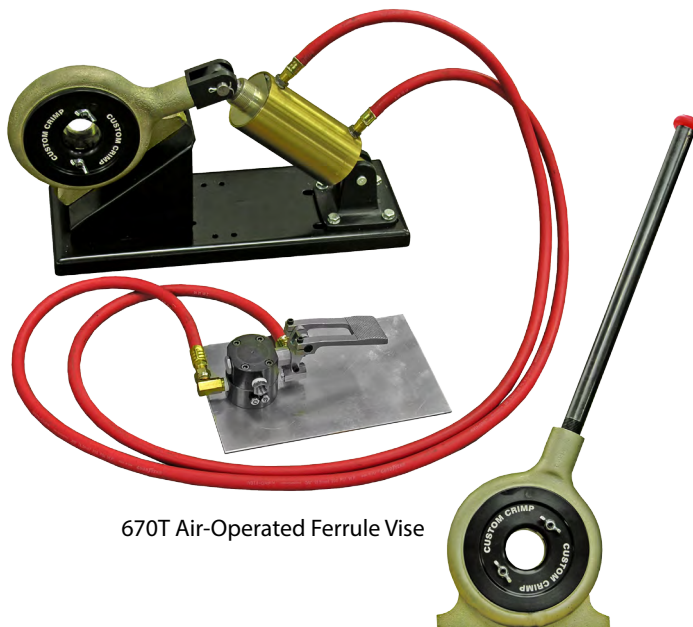
Hose O.D.	Band Width	Item #	Price
2.06" – 3.00"	1/2"	B40H	\$0.77
2.31" – 3.25"	1/2"	B44H	\$0.83
2.56" – 3.50"	1/2"	B48H	\$0.83
2.81" – 3.75"	1/2"	B52H	\$0.90
3.06" – 4.00"	1/2"	B56H	\$0.90
3.31" – 4.25"	1/2"	B60H	\$0.95
2.50" – 4.50"	1/2"	B64H	\$0.95
3.00" – 5.00"	1/2"	B72H	\$1.01
3.50" – 5.50"	1/2"	B80H	\$1.07
4.00" – 6.00"	1/2"	B88H	\$1.17
4.50" – 6.50"	1/2"	B96H	\$1.33
5.00" – 7.00"	1/2"	B104H	\$1.33

Ferrule Vises

Our ferrule vise crimping tools are ideal for light duty repetitive hose crimping. With a wide variety of available dies (sold separately) in either ribbed or straight configuration, these crimpers will consistently produce good looking accurate crimps time after time. Positive over-center action assures a consistent and repeatable crimp diameter with no need for adjustment.

The rugged cast iron frame and base is designed to provide years of dependable service and both the 670T and the 660T models have mounting holes which permit them to be securely mounted to a workbench.

- 660T Manually-Operated Ferrule Vise \$725.00**
670T Air-Operated Ferrule Vise \$1995.00
 Requires 80 psi compressed Air (not included).
Dies All Sizes (see pages 40-41) \$132.00
 each



670T Air-Operated Ferrule Vise

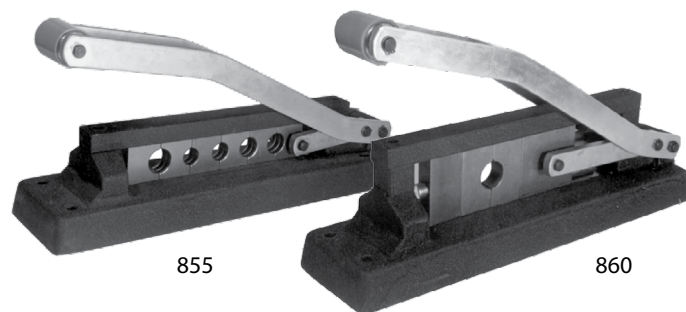
660T Manually-Operated Ferrule Vise

Brass Ferrule Crimper

The 855 Brass Ferrule Crimper provides "big tool" crimping advantages at a fraction of the cost. Rugged, portable and easy to use. Available in two models, each with five dies. Additional dies are available to increase the range of your crimper. *Use with brass ferrules only.*

- 855 Brass Ferrule Crimper (.49" to .71") \$160.00**
 Includes 856-1, 856-2, 856-3, 856-4 and 856-5 dies
855A Brass Ferrule Crimper (.45" to .67") \$160.00
 Includes 856-1, 856-2, 856-3, 856-4 and 856-7 dies

Hose O.D.	Die #	Price	Hose O.D.	Die #	Price
.38" to .41"	856-10	\$26.20	.64" to .67"	856-1	\$26.20
.45" to .47"	856-7	\$26.20	.69" to .71"	856-5	\$26.20
.49" to .52"	856-4	\$26.20	.76" to .78"	856-8	\$26.20
.54" to .56"	856-3	\$26.20	.82" to .84"	856-9	\$26.20
.59" to .62"	856-2	\$26.20			



855

860

Large Brass Ferrule Crimper

The 860 Large Brass Ferrule Crimper brings the same economical utility of the 855 and 855A to larger hoses (with outside diameters from 11/16" to 1½"). Dies sold separately. *Use with brass or aluminum ferrules only.*

- 860 Large Brass Ferrule Crimper \$190.00**
 Dies are not included.

Hose O.D.	Die #	Price	Hose O.D.	Die #	Price
11/16"	861-22	\$31.45	1"	861-32	\$31.45
23/32"	861-23	\$31.45	1-1/32"	861-33	\$31.45
3/4"	861-24	\$31.45	1-1/16"	861-34	\$31.45
25/32"	861-25	\$31.45	1-1/8"	861-36	\$31.45
13/16"	861-26	\$31.45	1-3/16"	861-38	\$31.45
27/32"	861-27	\$31.45	1-1/4"	861-40	\$31.45
7/8"	861-28	\$31.45	1-5/16"	861-42	\$31.45
29/32"	861-29	\$31.45	1-3/8"	861-44	\$31.45
15/16"	861-30	\$31.45	1-7/16"	861-46	\$31.45
32/32"	861-31	\$31.45	1-1/2"	861-48	\$31.45

CAUTION: The hose assembly tools on this page are not intended for use with high pressure hose assemblies. Please see our hydraulic hose crimpers in our Hydraulic Hose Catalog

Full-Port Forged Brass Ball Valves



With forged brass bodies for strength, and solid chrome-plated balls, these valves are suitable for a wide range of liquids and gases. Full-size ports minimize pressure drop and allow full flow in both directions.

- 600 psi WOG (non shock) and 150 WSP saturated steam
- Virgin PTFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy-duty plated steel handle.
- Fast one-quarter turn open or close operation.
- Low operating torque.
- Adjustable stem packing gland.
- Bottom-entry, blow-out proof stem.
- Temperature range: -20° F to 248° F

Threaded ports (NPTF)

Item #	NPTF	Minimum	Price
943-200	1/4"		\$6.30
943-200-BX20	1/4"	20 Valves @	\$67.02
943-201	3/8"		\$6.91
943-201-BX20	3/8"	20 valves @	\$73.50
943-202	1/2"		\$7.26
943-202-BX50	1/2"	50 valves @	\$156.38
943-202-CS100	1/2"	100 valves @	\$303.45
943-203	3/4"		\$10.15
943-203-BX30	3/4"	30 valves @	\$150.80
943-203-CS60	3/4"	60 valves @	\$294.89
943-204	1"		\$14.69
943-204-BX20	1"	20 valves @	\$173.14
943-204-CS40	1"	40 valves @	\$335.11
943-205	1 1/4"		23.78
943-205-BX12	1 1/4"	12 valves @	\$252.00
943-205-CS24	1 1/4"	24 valves @	\$378.00
943-206	1 1/2"		39.51
943-206-BX9	1 1/2"	9 valves @	\$198.45
943-206-CS18	1 1/2"	18 valves @	\$357.09
943-207	2"		47.57

Sweat (SWT)

Item #	SWT	Price
940-212	1/2"	\$14.15
940-213	3/4"	\$17.96
940-214	1"	\$25.84
940-215	1 1/4"	\$40.34
940-216	1 1/2"	\$66.40
940-217	2"	\$97.25

Chrome Plated Mini Brass Ball Valves

Maximum working pressure: 235 psi
(will handle 300 psi @ 75° F)

- Solid chrome plated brass ball
- Longer body style for longer, deeper thread connections
- One piece drawn sand blasted chrome plated body
- Each valve is seal tested for maximum safety
- Double seal system allows valve to operate in both directions
- Blowout-proof brass stem
- Temperature range: 32° F to 176° F

Male NPTF x Female NPTF



Item #	NPTF	Price
46-903I	1/4"	\$10.24
46-904I	3/8"	\$10.24
46-905I	1/2"	\$10.66

Female NPTF



Item #	NPTF	Price
46-922I	1/4"	\$9.56
46-923I	3/8"	\$9.56
46-924I	1/2"	\$10.80

Use with copper, steel, aluminum, plastic tubing or hose where applicable.

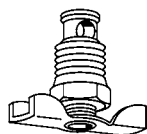
Conformance: Designed for automotive or industrial use. Not intended for natural gas, LPG, nuclear or Aircraft applications, except as noted.

Material: Brass bodies with steel handles, except where noted.

Maximum Pressure: 150 psi

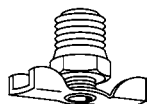
Temperature: -65° to 250° F (refer to tubing temp. range)

Drain External Seat



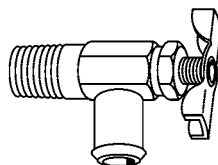
Item#	Pipe	Lng.	Price
3135	1/8"	0.90"	\$1.82
3145	1/4"	1.00"	\$5.23
3270	3/8"	1.25"	\$5.93
3108	1/2"	1.52"	\$13.66

Drain Internal Seat



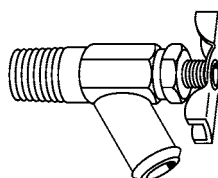
Item#	Pipe	Lng.	Price
3130	1/8"	1.15"	\$3.81
3140	1/4"	1.32"	\$5.23
3230	3/8"	1.34"	\$6.54

Hose to Pipe Steel Body



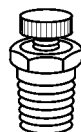
5/8" hose to 3/8" male pipe
3211280A \$14.79

Hose to Pipe Steel Body



5/8" hose to 3/8" male pipe
3211273A \$14.90

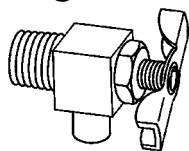
Air Vent



Set screw has 10-32 national fine thread.

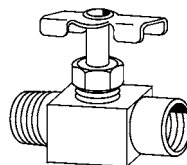
3705 1/8" pipe	\$2.93
----------------	--------

Angle Bib Drain



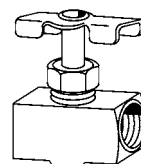
3150 1/8" pipe	\$7.19
3120 1/4" pipe	\$9.98

Pipe Male and Female



36820 1/8"	\$7.36
36825 1/4"	\$14.07

Pipe Double Female



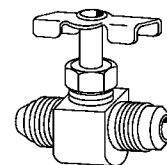
36800 1/8"	\$8.22
36805 1/4"	\$14.55

Pipe Double Male



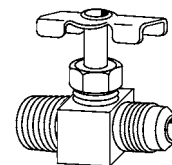
36810 1/8"	\$11.07
36815 1/4"	\$12.61

SAE 45° Double



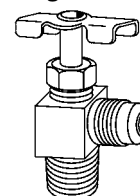
36715 1/4"	\$10.83
------------	---------

SAE 45° Straightway



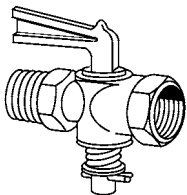
Part #	Tube	Pipe	Price
3530	1/4"	1/8"	\$13.85
36700	1/4"	1/4"	\$9.78
3630	5/16"	1/8"	\$11.19
3695	5/16"	1/4"	\$10.62
3700	3/8"	1/4"	\$28.67

SAE 45° Angle



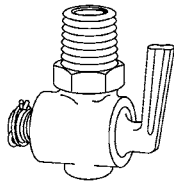
Part #	Tube	Pipe	Price
3320	1/4"	1/8"	\$6.95
3325	5/16"	1/8"	\$9.62
36703	5/16"	1/4"	\$11.51
3330	3/8"	1/4"	\$11.14

Truck Shut-Off Male to Female Pipe



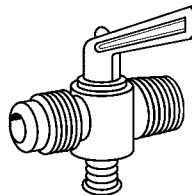
Part #	NPTF	Price
3W20332	1/4"	\$18.61

Ground Plug Drain



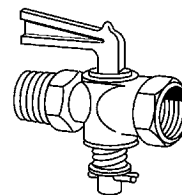
Part #	NPTF	Price
36891	1/8"	\$13.17
36892	1/4"	\$13.55
36893	3/8"	\$18.89

SAE 45° Straightway



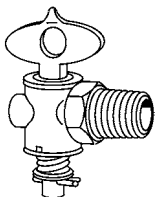
Part #	Tube	Pipe	Price
3537	1/4"	1/8"	\$18.38
3632	5/16"	1/8"	\$19.90
3702	1/4"	1/4"	\$17.98
3703	3/8"	1/4"	\$20.71

Pipe Male and Female



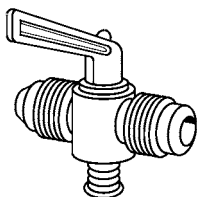
Part #	NPTF	Price
36824	1/8"	\$14.07
36829	1/4"	\$14.55

Drain Cock



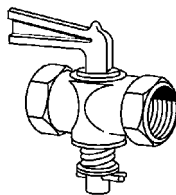
Part #	NPTF	Price
3W15310	1/4"	\$14.14

SAE 45° Double



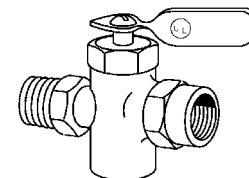
Part #	Tube	Price
36719	1/4"	\$15.49
36724	5/16"	\$22.87
36729	3/8"	\$21.43

Pipe Double Female



Part #	NPTF	Price
36804	1/8"	\$14.77
36809	1/4"	\$14.41

Marine Type Male and Female Pipe



Part #	NPTF	Price
36828	1/8"	\$46.71

Use with copper, steel, aluminum, or plastic tubing where applicable.

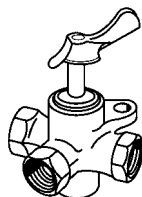
Conformance: Designed for automotive or industrial use. Not intended for natural gas, LPG, nuclear or Aircraft applications, except as noted.

Material: Brass bodies and brass handles.

Maximum Pressure: 30 psi, except where noted.

Temperature: -65° to 250° F (refer to tubing temp. range)

Multiple Shut-Off



Click-washer assembly positively holds valve in desired position, and gives a pronounced click so that operator definitely knows when valve is fully open for desired tank.

Part #	Type	Pipe	Stem	Price
36749	3-way	1/4"	Short	\$47.40
36709	3-way	3/8"	Short	\$69.06
36747	4-way	1/4"	Short	\$51.04
36748	4-way	1/4"	Long	\$55.98
36707	4-way	3/8"	Short	\$65.43
36708	4-way	3/8"	Long	\$72.67



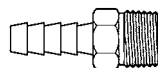
Tube: EPDM

Reinforcement: multi-fiber spiral

Cover: abrasion-resistant EPDM

Temperature range: 40° to +160° F
(water up to 180° F)

Recommended hose fittings:



Brass Hose Barbs: page 23

1145 | Heavy-Duty Air

Recommended for Air and water applications where petroleum contact is limited. Also recommended for some agricultural solutions. Not recommended for hydraulic fluids.

Item #	Inside Diameter	Outside Diameter	Maximum Operating (PSI)	Minimum Burst (PSI)	Minimum Bend Radius	Length on a Reel*	Reel Price (per foot)	Cut Price (per foot)
1145-04400	1/4"	0.63"	300	1,200	3"	700'	\$0.93	\$1.01
1145-05400	5/16"	0.63"	300	1,200	3 1/4"	700'	\$1.05	\$1.10
1145-06400	3/8"	0.72"	300	1,200	3 1/4"	700'	\$1.16	\$1.24
1145-08400	1/2"	0.88"	300	1,200	4 1/2"	700'	\$1.41	\$1.48
1145-10400	5/8"	1.00"	300	1,200	5 1/4"	700'	\$1.68	\$1.75
1145-12400	3/4"	1.16"	300	1,200	5 3/4"	700'	\$2.12	\$2.21
1145-16300	1"	1.44"	200	800	7 3/4"	700'	\$2.98	\$3.12
1145-20200	1 1/4"	1.78"	200	800	8 3/4"	550'	\$4.22	\$4.44
1145-24200	1 1/2"	2.03"	200	800	10 1/2"	400'	\$5.19	\$5.46
1145-32200	2"	2.50"	200	800	14"	300'	\$7.46	\$7.85

* Reel may not contain one continuous length of hose.



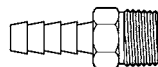
Tube: PVC

Reinforcement: one braid of high-tensile polyester yarn

Cover: PVC

Temperature range: -15° to +150° F

Recommended hose fittings:



Brass Hose Barbs: page 23

K1134 | PVC Multipurpose Air & Water

Recommended for Air, water, and mild water-soluble chemicals. Ideal for in-plant operations requiring color coding of hose supply lines.

Item #	Inside Diameter	Outside Diameter	Maximum Operating (PSI) @ 70° F	Maximum Operating (PSI) @ 122° F	Length on a Reel*	Reel Price (per foot)	Cut Price* (per foot)
K1134-04	1/4"	0.50"	300	180	500'	\$0.54	\$0.56
K1134-05	5/16"	0.63"	300	180	500'	\$0.70	\$0.74
K1134-06	3/8"	0.63"	300	180	500'	\$0.66	\$0.69
K1134-08	1/2"	0.81"	300	180	500'	\$0.82	\$0.87
K1134-10	5/8"	0.91"	300	180	300'	\$1.09	\$1.14
K1134-12	3/4"	1.13"	300	180	300'	\$1.49	\$1.56
K1134-16	1"	1.41"	300	180	300'	\$1.93	\$2.04

* Available in full reel or 100 ft. lengths only.

Please specify color when ordering:

Red (K1134) available in all sizes

Blue (K1136), sizes -04, -06, -08, -12 and -16 only

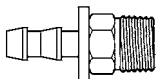
Gray (K1138), sizes -04, -06, -08, -12 and -16 only

Yellow (K1131), sizes -04, -06, -08, -12 and -16 only



Tube: oil-resistant Nitrile (BTR)
Reinforcement: braided fiber
Cover: oil and Abrasion-resistant, black Neoprene (CR)
Temperature range: -40° to +212° F
 Water not to exceed 150° F
 Air not to exceed 160° F

Recommended hose fittings:



Push-Lock Hose Barbs: page 20

3384 | Push-Lock (No Clamps or Ferrules)

Recommended for gasoline, fuel and lubricating oils, Air and water. No clamps or ferrules needed when used with Push-Lock hose barbs.

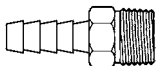
Item #	Inside Diameter	Outside Diameter	Maximum Operating (PSI)	Minimum Burst (PSI)	Minimum Bend Radius	Length on Reel	Reel Price (per foot)	Cut Price (per foot)
3384-04	1/4"	0.50"	250	1,000	3"	250'	\$1.32	\$1.38
3384-06	3/8"	0.62"	250	1,000	3"	250'	\$1.68	\$1.75
3384-08	1/2"	0.75"	250	1,000	5"	250'	\$1.95	\$2.04
3384-10	5/8"	0.91"	250	1,000	6"	250'	\$2.67	\$2.81
3384-12	3/4"	1.03"	250	1,000	7"	250'	\$3.47	\$3.64

Push-Lock Hose is also available in Blue (3385), Gray (3386), Red (3387), and Yellow (3389). Please specify color when ordering.



Construction: clear PVC tubing with high tensile polyester yarn reinforcement.
Temperature range: +14° to +149° F

Recommended hose fittings:



Brass Hose Barbs: page 23

IBR | Clear Braided PVC Tubing

Recommended for various machine tools and transportation of chemicals.

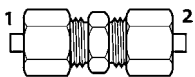
Item #	Inside Diameter	Outside Diameter	Maximum Operating (PSI)	Coil Length	Coil Price	Cost (Per Foot)
IBR0446	1/4"	0.50"	142 psi	300'	\$135.45	\$0.45
IBR0609	3/8"	0.63"	114 psi	300'	\$176.40	\$0.59
IBR0812	1/2"	0.75"	100 psi	300'	\$220.50	\$0.74
IBR1218	3/4"	1.06"	71 psi	300'	\$428.40	\$1.43
IBR1621	1"	1.31"	71 psi	200'	\$367.50	\$1.84

IBR tubing is sold in coil lengths only.

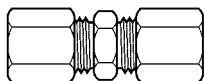


Construction: soft, pliable, clear plasticized PVC resin tubing.

Recommended tube fittings:



Poly-Tube Fittings, page 10



Compression Fittings, page 7

PT200 | Polyvinyl Chloride Tubing

Recommended for low pressure laboratory, industrial, agricultural or domestic applications. Soft, pliable, plasticized PVC resin available in clear (NA) only. *Minimum purchase: 100 feet.*

Item #	Outside Diameter	Wall Thickness	Maximum Operating (PSI) ¹	Minimum Burst (PSI) ¹	Minimum Bend Radius	Price (per foot)
PT200-04NA	1/4"	.062"	65 psi	195 psi	1"	\$0.28
PT200-05NA	5/16"	.062"	55 psi	165 psi	1¼"	\$0.41
PT200-06NA	3/8"	.062"	55 psi	165 psi	1½"	\$0.47
PT200-08NA	1/2"	.062"	45 psi	135 psi	2"	\$0.66
PT200-10NA	5/8"	.062"	30 psi	90 psi	2½"	\$1.08
PT200-12NA	3/4"	.094"	40 psi	120 psi	3"	\$1.66
PT200-16NA	1"	.125"	35 psi	105 psi	4"	\$2.89

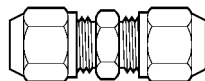
¹ PSI measured at 75° Fahrenheit

Temperature Range: -5°F to +105°F

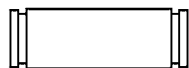


Construction: nylon tubing with braided fiber reinforcement.

Recommended tube fittings:



Air Brake Fittings, page 11



Push-In Air Brake Fittings, page 13

NT100 | Nylon Air Brake Tubing

Meets all requirements for SAE J844 Type A & B and DOT FMVSS 571.106

Recommended for Air brake systems except where temperatures exceed 200°F or where battery acid can drip on tubing. Sizes 3/8" and larger include braided polyamide fiber reinforcement. *Minimum purchase: 100 feet.*

Item #	Outside Diameter	Wall Thickness	Maximum Operating (PSI) ¹	Minimum Burst (PSI) ¹	Minimum Bend Radius	Price (per foot)
NT100-02BK ²	1/8"	.023"	150 psi	1,000 psi	3/8"	\$0.65
NT100-04BK	1/4"	.040"	150 psi	1,200 psi	1"	\$0.48
NT100-05BK	5/16"	.040"	150 psi	1,000 psi	1 1/4"	\$0.64
NT100-06BK	3/8"	.062"	150 psi	1,400 psi	1 1/2"	\$1.03
NT100-08BK	1/2"	.062"	150 psi	950 psi	2"	\$1.48
NT100-10BK	5/8"	.092"	150 psi	900 psi	2 1/2"	\$2.64
NT100-12BK	3/4"	.092"	150 psi	800 psi	3"	\$3.36

1/8" and 5/16" sizes available in black (BK) only. Other sizes available in Black (BK), Blue (BU), Red (RD), Green (GN), Orange (OR), Yellow (YW) and White (WH).

¹ Max. working and min. burst pressures measured at 75°F

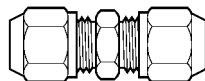
² Insert not required. Does not meet DOT standards.

Temperature Range: -40°F to +200°F

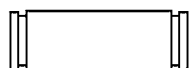


Construction: nylon tubing with braided fiber reinforcement.

Recommended tube fittings:



Air Brake Fittings, page 11



Push-In Air Brake Fittings, page 13

NT100 | Nylon Air Brake Tubing (Coils)

Meets all requirements for SAE J844 Type A & B and DOT FMVSS 571.106

Recommended for Air brake systems except where temperatures exceed 200°F or where battery acid can drip on tubing.

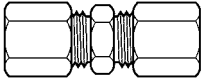
Item #	Outside Diameter	Wall Thickness	Maximum Operating (PSI) ¹	Minimum Burst (PSI) ¹	Minimum Bend Radius	Reel Length	Reel Price
NT100-04BK	1/4"	.040"	150 psi	1,200 psi	1"	500'	\$228.00
NT100-04RD	1/4"	.040"	150 psi	1,200 psi	1"	500'	\$228.00
NT100-04BU	1/4"	.040"	150 psi	1,200 psi	1"	500'	\$228.00
NT100-06BK	3/8"	.062"	150 psi	1,400 psi	1 1/2"	500'	\$489.25
NT100-06RD	3/8"	.062"	150 psi	1,400 psi	1 1/2"	500'	\$489.25
NT100-06BU	3/8"	.062"	150 psi	1,400 psi	1 1/2"	500'	\$489.25
NT100-08BK	1/2"	.062"	150 psi	950 psi	2"	500'	\$703.00
NT100-08RD	1/2"	.062"	150 psi	950 psi	2"	500'	\$703.00
NT100-08BU	1/2"	.062"	150 psi	950 psi	2"	500'	\$703.00

Temperature Range: -40°F to +200°F

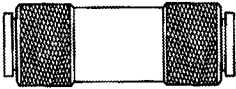


Construction: semi-rigid polyamide tubing.

Recommended tube fittings:



Compression Fittings, page 7



Push-In Fittings, page 9

PT230 | Polyamide (Nylon 6/6) Tubing

Semi-rigid tubing for general purpose applications. Available in black (BK) and natural/off-white (NA). *Minimum purchase: 100 feet.*

Item #	Outside Diameter	Wall Thickness	Maximum Working Pressure ¹	Minimum Burst Pressure ¹	Minimum Bend Radius	Price ² (per foot)
PT230-02BK	1/8"	.015"	300 psi	1,000 psi	3/4"	\$0.20
PT230-04BK	1/4"	.030"	300 psi	1,000 psi	1½"	\$0.45
PT230-05BK	5/16"	.036"	300 psi	1,000 psi	2"	\$0.66
PT230-06BK	3/8"	.040"	300 psi	1,000 psi	2¼"	\$0.86

¹ PSI measured at 70° Fahrenheit

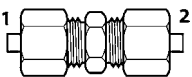
² Add 7% for natural/off-white.

Temperature Range: -40°F to +180°F

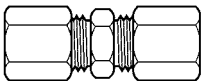


Construction: low-density polyethylene tubing.

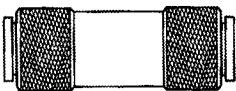
Recommended tube fittings:



Poly-Tube Fittings, page 10



Compression Fittings, page 7



Push-In Fittings, page 9

PT240 | Polyethylene Tubing

Flexible, low-density tubing recommended for a wide range of industrial and agricultural applications. Available in black (BK) and natural/off-white (NA).

Minimum purchase: 100 feet.

Item #	Outside Diameter	Wall Thickness	Maximum Working Pressure ¹	Minimum Burst Pressure ¹	Minimum Bend Radius	Price ² (per foot)
PT240-04BK	1/4"	.062"	200 psi	600 psi	5/8"	\$0.43
PT240-05BK	5/16"	.062"	133 psi	400 psi	1"	\$0.45
PT240-06BK	3/8"	.062"	135 psi	480 psi	1½"	\$0.75
PT240-08BK	1/2"	.062"	100 psi	300 psi	2"	\$1.18
PT200-10BK	5/8"	.062"	80 psi	240 psi	2½"	\$1.08
PT200-12BK	3/4"	.094"	70 psi	210 psi	3"	\$1.66
PT200-16BK	1"	.125"	100 psi	300 psi	5"	\$2.89

¹ PSI measured at 70° Fahrenheit

² Add 7% for natural/off-white.

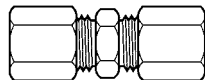
Temperature Range: -40°F to +135°F



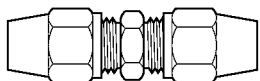
972C | Copper Tubing

Recommended for refrigeration service. Sold in 50 ft. coils only.

Recommended tube fittings:



Compression Fittings, page 7



Air Brake Fittings, page 16

SAE 45° Flare Fittings, page 2

Inverted Flare Fittings, page 18

Threaded Sleeve Fittings, page 20

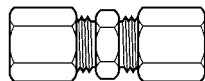
Item #	Tube OD	Wall Thickness	Length	Price On Request
972-180	1/8"	.030"	50'	Please Call for Pricing
972-181	3/16"	.030"	50'	Please Call for Pricing
972-182	1/4"	.030"	50'	Please Call for Pricing
972-183	5/16"	.032"	50'	Please Call for Pricing
972-184	3/8"	.032"	50'	Please Call for Pricing
972-185	1/2"	.032"	50'	Please Call for Pricing
972-186	5/8"	.035"	50'	Please Call for Pricing
972-187	3/4"	.035"	50'	Please Call for Pricing



972A | Aluminum Versatube

Alloy 3003-0. Material to ASTM B-483. Sold in 50 ft. coils only.

Recommended tube fittings:



Compression Fittings, page 7

SAE 45° Flare Fittings, page 2

Inverted Flare Fittings, page 18

Threaded Sleeve Fittings, page 20

Item #	Tube OD	Wall Thickness	Length	Price On Request
972-190	1/8"	.025"	50'	Please Call for Pricing
972-191	3/16"	.028"	50'	Please Call for Pricing
972-192	1/4"	.032"	50'	Please Call for Pricing
972-193	5/16"	.035"	50'	Please Call for Pricing
972-194	3/8"	.035"	50'	Please Call for Pricing
972-195	1/2"	.035"	50'	Please Call for Pricing

Utility Tube Cutter



Cut hard and soft copper, aluminum, brass, carbon steel and stainless steel tubing, up to 1-1/8" OD. Features an enclosed feed screw to eliminate clogging and jamming. Grooved rolls for close to flare cuts and a fold away reamer.

Caution: Sharp blade! Keep hands and fingers away from cutting surface.

DT150	Utility Tube Cutter	\$59.85
DT1422R	Replacement Blade	\$12.75

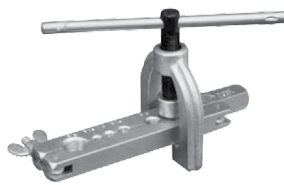
Spring Tube Benders



These tube bending springs operate in hand bending copper, aluminum and other thin-walled tubing. True bends with minimum tube wall collapsing. Belled at one end for easier removal.

Item #	Tube OD	Length	Price
DT104	1/4"	10"	\$8.04
DT105	5/16"	10"	\$8.21
DT106	3/8"	10"	\$26.36
DT108	1/2"	12"	\$26.69

45° Flaring Tool



Economical, fast-operating tool forms a 45° flare in soft copper, aluminum and brass tubing.

- Quick slip-on aluminum alloy yoke.
- Swiveling hard chrome finished cone assures smooth flares.
- Yoke slips down over top of bar and locks into position with one turn.
- Single flares 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" and 5/8" OD tubing.

DT1022	Flaring Tool (45°)	\$48.47
---------------	---------------------------	----------------

Handheld Plastic Tube and Hose Cutter



This handy tool cuts plastic tubing and hose up to 1" OD. Lightweight and durable for long service life.

Not for use with wire-reinforced hose.

DT135	Plastic Tube Cutter	\$20.96
DT135B	Replacement Blade	\$6.56

Plastic Tube and Hose Cutter



Cuts plastic tubing and hose up to 1/2" OD. Mounts on bench or wall. Designed to close automatically for safety when not in use.

Not for use with wire-reinforced hose.

DT191	Plastic Tube Cutter	\$15.65
DT191B	Replacement Blade	\$6.16



Metal Tube Cutting and Flaring Kit

Cutting and flaring metal tubing just became a little easier with the convenient DT345 Tube Cutting and Flaring Kit.

Features a quality-made double flaring tool offering accurate single flares on 3/16" thru 5/8" tubing

- Hardened, smooth cone for accurate 45° flares.
- Single flares on 3/16" thru 5/8" tubing.
- Double flares on 3/16" thru 1/2" tubing.
- Clamp screw for easy clamping and removal of tubes.
- Flaring bar installed from either side of yoke.
- Flares soft copper, brass, aluminum and mild steel (JIC and bundy) tubing.

Caution: The DT150 has a sharp blade! Keep hands and fingers away from cutting surface.

Kit components can be ordered separately.

DT345K	Tube Cutting and Flaring Kit	\$222.20
DT346-4	1/4" Double Flare Adapter	\$17.02
DT346-5	5/16" Double Flare Adapter	\$21.25
DT346-6	3/8" Double Flare Adapter	\$21.25
DT150	Utility Tube Cutter	\$59.85
DT1422R	Replacement Blade	\$12.75

NATIONAL PIPE THREADS

There are several variations of pipe threads. Thread forms include the Dryseal American Standard Taper Pipe Thread (NPTF), the National Pipe Straight Threads for Mechanical Joints (NPSM) and the dryseal American Fuel Internal Straight Pipe Thread (NPSF). Each series is normally identified by the abbreviated letter designation.

The NPTF thread is recommended for hydraulic service. This thread series is used on both male and female ends and forms a seal by the interference fit at the root and crest of the mating threads. The NPTF male also has an internal chamfer of 30° which allows it to seal at the seat with female NPSM pipe swivels. The NPSM is a straight pipe thread and sealing is obtained by the mating of the 30° seats of the male and female ends.

TUBE FITTINGS

D.O.T. Air Brake: These fittings are available in two styles for nylon tubing, and one style for copper tubing. The most popular features a bite-type sleeve or ferrule that is compressed between the male fitting and a tube nut. Use with NT100 nylon tubing. May also be used with copper tubing by replacing the nut, sleeve, and insert with a long nut and spherical insert. Push-In Air brake fittings are also available (nylon tubing only).

SAE 45° Flare: The seal is obtained by the mating of two beveled metal surfaces. The function of the threads is simply to draw these two surfaces together. These couplings are usually used for low pressure applications such as refrigerant and fuel lines in conjunction with copper tubing which flares easily to 45°.

Compression: Typically used in instrumentation, hydraulic and pneumatic systems. These fittings seal when both ends of the sleeve are

compressed during assembly and deflect into the tubing diameter to form two parallel grooves. Since sealing results from nondestructive surface contact between sleeve and tubing, longitudinal defects can affect the seal. Application of this fitting is limited to thin-walled soft tubing, usually copper, and low-pressure vibration-free systems.

Push-In: This is a simple, non-threaded connection used commonly in compressed Air, pneumatic instrumentation, circuit, lubricant and cooling lines. The seal is formed by an O-ring of Buna-N construction. Use with PT230 and PT240 plastic tubing. No tools required; just push to connect. To disconnect, depress the collet and withdraw the tubing.

Inverted Flare: This connection is frequently used in automotive systems, such as hydraulic brake, power steering, fuel lines and transmission cooler lines. The male connector can be a 45° flare in the tube form or a 42° seat in the machined adapter form. The female has a straight thread with a 42° inverted flare. The seal takes place on the flared surfaces. Inverted flare provides excellent vibration resistance. Use with copper, brass, aluminum and steel hydraulic tubing that can be flared.

Poly-Tube Flareless: These fittings consist of a brass fitting and nut with a plastic sleeve. The sleeve is compressed between the fitting and the nut. Poly-Tube fittings are typically found in pneumatic instrumentation circuits, lubricant and cooling lines. Use with PT200 and PT240 plastic tubing. Not recommended for steel tubing.

Threaded Sleeve: These self-flaring fittings do not require a special flaring operation. During nut tightening, a special wedge-shaped sleeve presses against the tubing end to create a flare. The fitting works best on thin-walled tubing, where high torque is not required to produce a flare. This joint is mechanically strong and vibration resistant, with good reusability.

Nominal Size	Dash Size	D.O.T. Air Brake	National Pipe Thread	SAE 45° Flare	Compression	Inverted Flare	Poly-Tube Flareless	Threaded Sleeve
<small>Nominal size is not the thread size. Nominal size usually refers to the pipe (inside diameter) or tubing (outside diameter) for which the fitting is intended.</small>								
1/8"	-02		1/8-27	5/16-24	5/16-24	5/16-28	5/16-24	5/16-24
3/16"	-03			3/8-24	3/8-24	3/8-24	3/8-24	3/8-24
1/4"	-04	7/16-24	1/4-18	7/16-20	7/16-27	7/16-24	3/8-24	7/16-24
5/16"	-05			1/2-20	1/2-24	1/2-20	7/16-24	1/2-24
3/8"	-06	17/32-24	3/8-18	5/8-18	9/16-24	5/8-18	1/2-24	9/16-20
7/16"	-07			1 1/16-16	5/8-24	1 1/16-18		
1/2"	-08	1 1/16-20	1/2-14	3/4-16	1 1/16-20	3/4-18	1 1/16-20	
5/8"	-10	1 3/16-18		7/8-14	1 3/16-18	7/8-18		
3/4"	-12	1-18	3/4-14	1 1/16-14	1-18	1 1/16-16		
7/8"	-14			1 1/4-12		1 3/16-16		
1"	-16	1 1/4-16	1-1 1/2	1 3/8-12	1 1/4-18	1 5/16-16		