

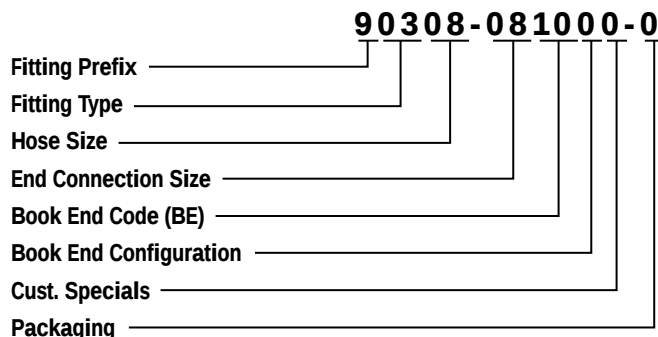
Hose Fitting Selection Chart

FITTING SERIES	PERMANENT FITTING	REUSABLE FITTING	HOSE SERIES AND DASH SIZE RANGE*
Zinc Plated Steel			
903	•		3630 (-03 to -12), 3R30, 3130, 37AL, 3800, 3840, 3580, 3440 (-04 to -08), 30CT (-04 to -08)
90H	•		3630 (-16), 3R80, 3E80, 3440 (-12 to -16)
90N	•		30CT-10
90V	•		3V10, 3VE0
7903	•		3630 (-03 to -12), 3R30, 3130, 3580, 37AL, 3800, 3840, 3440 (-4 to -8), 30CT (-04 to -06)
790H	•		3630 (-16), 3R80, 3E80, 3440 (-12 to -16)
Stainless Steel			
90A	•		3630 (-3 to -12), 3R30, 3130, 3580, 37AL, 3800, 3840, 34PW (-4 to -8), 31B0, 30CT (-03 to -06)
90L	•		3630 (-16), 3R80 (-3 to -16), 3E80 (-3 to -16), 3440, 34PW (-12 to -16), 34BA (-6), 30CT (-08)
Brass			
390C	•		3630 (-3 to -12)
906	•		Made to Order for Many Hose Series
4401		•	4202

* Dash Size = Hose I.D. in 16th of One Inch. Example: -3 = 3/16 Inch I.D. , Where Hose Series Only is Listed, All Cataloged Dash Sizes Attach to Fitting Series.

Hose Fitting End Connection Style Code Numbering System

A fitting part number is composed of several different elements, all combined to make the final number. The following is a diagram of a fitting part number and the elements that go into creating that number:



The Fitting prefix plus the Fitting Type becomes the Fitting Series. This is followed by the hose size. Then a dash separates the hose size from the end connection size. The bookend code (may use first two digits of old bookend code) is followed by a configuration code, which defines the orientation of the fitting. A digit for customer specials follows that. Another dash separates the packaging code from the number.

The following sections detail each of these part number components.

Fitting Prefix

The fitting prefix is the easiest part of the fitting part number to determine. It is always 9. If a part number begins with "9" you know it is a fitting number.

Fitting Type

See **Chart 1** in fitting type section for a list of available Fitting types.

Hose Size

These are the fourth and fifth digits in the fitting part number. The hose size code is the diameter of the hose in sixteenths of an inch. In this example, the code 08 indicates a 1/2" hose diameter, since 8/16" is equal to 1/2 inch. All existing fitting series have fractional hose sizes.

If metric hose sizes become available the two digit diameter code would represent the diameter of the hose in millimeters. 16 = 16mm.

Fitting Type

There are many different fitting types. They are represented by the second and third digit in the fitting part number. **Chart 1** on page 28 shows the part number character code that corresponds to the fitting type.

Customer Specials Suffix

Alpha-numeric consecutive suffix. 0 denotes a standard part. M denotes marking with old part number for military purposes.

Packaging

Alpha or numeric code to denote shipping or pack quantity.

Book End Configuration

In order to determine the book end orientation the book end configuration code is assigned. It is the tenth digit in the fitting part number. The configuration code is new to the part numbering system. It reduces the number of end connection codes needed. **Chart 2** below shows the book end configuration code.

Code	Configuration
0	Straight
2	22.5° Bend
3	30° Bend
4	45° Bend
5	135° Bend
6	60° Bend
7	67.5° Bend
9	90° Bent tube (No short or long reference)
A	Angle to be specified on print (special)
B	90° Block
E	Long Neck (Machined Bar or Tube)
H	Bulkhead
L	90° Bend, long drop
M	Multiple bends
S	90° Bend, short drop

Book End Code

The end connection code defines the style of the book end on the fitting. Along with the configuration code it may replace some previous end connection codes.

Chart 3 on pages 30-31 lists the end connection codes. It also shows the book end configuration code, and the resultant code. The former code is shown for reference.

Example:

To find the last six digits using the connection type code, end connection configuration code, and the end connector size, simply arrange the codes in the correct order.

End connector size 3/8" = 6/16" = 06	06
Male Pipe Rigid, code 10	10
Configuration, straight 0	0
Customer Special, 0 standard	0
Final 6-digit code	061000

Hose Fitting End Connection Style Code Numbers

Chart reference is located
on page 28.

Chart 1 - Fitting Type

Code	Description	Code	Description
01	Reusable, plated steel, medium pressure	0R	Permanently attached, 303/304 stainless, medium pressure 03 style
02	Reusable, plated steel, medium pressure, for 37NC nonconductive hose	0S	Permanently attached, all Monel, 3R80; OH style
03	Permanently attached, plated steel, medium pressure	0T	Permanently attached, Brass, low pressure, trepanned, 3600 hose
04	Reusable, brass, medium pressure	0V	Permanently attached, plated steel, very high pressure hose
05	Permanently attached, brass, high pressure, for breathing gas hose	0W	Permanently attached, plated steel, tube o-ring, refrigerant hose
06	Permanently attached, brass, medium pressure, purchased	2V	Permanently attached 316 stainless steel, high pressure, 3390 hose
07	Reusable, 303/304 stainless steel insert, steel shell, 01 style	7H	Permanently attached, plated steel, high pressure - metric, BSP, JIS, (non-domestic ends)
08	Reusable, 303/304 stainless steel, medium pressure, 01 style	7N	P/A plated steel, 3350/3360 hose - metric, BSP, JIS, (non-domestic ends)
09	Reusable, brass, 34MS-05 hose	8E	P/A, 316 plated steel, Monel or mild steel, 38LV hose
10	Barbed brass, low pressure	A3	Permanently attached, plated steel, medium pressure
11	Barbed brass, low pressure	A4	Permanently attached, Monel, 33CP hose, 904 style
12	P/A, plated steel, medium pressure, 1000 series hose	A5	Permanently attached, Monel, 3410 hose, very high pressure, 925 style
13	P/A, brass, medium pressure, trepanned, swaged	A6	Permanently attached, Monel, 3700, 3131, 3000 medium pressure, 926 style
53	P/A, plated steel, medium pressure, crimped	B3	Permanently attached, Monel, 3LVE, 38LV hose, 924 style
54	P/A, plated steel, Monel, or stainless, 33CP hose	B4	Permanently attached, Monel, 100R8, high pressure, 923 style
55	P/A, plated steel, medium pressure eyeletless crimped, 3420 & 3421 hose	C2	Reusable, 316 stainless, medium pressure, 37AL nonconductive hose, 902 style
56	P/A, 316 plated steel, Monel, or mild steel, 38HW hose	C4	Permanently attached, stainless steel, 33CP hose, 904 style
73	P/A, plated steel, medium pressure - metric, BSP, JIS, (non-domestic ends)	C6	Permanently attached, brass, medium pressure crimp only
0A	Permanently attached, 316 stainless, 903 style	E2	Reusable, 303/304 stainless, medium pressure, 37AL nonconductive hose, 902 style
0B	Permanently attached, zinc phosphated, 903 style	G3	Permanently attached, plated steel, medium pressure
0C	Permanently attached, with ferrule, all brass, 3600 & 3630 hose	AE	Permanently attached, Monel, very high pressure, 902 style
0D	Permanently attached, Chrome plated brass, low press. Breathing gas hose 3270	AV	Permanently attached, very high pressure, 902 style
0E	Permanently attached, plated steel, monel or stainless steel, 3LVE hose	CE	Permanently attached, 316 stainless steel, 3LVE hose, 90E style
0G	Permanently attached, plated steel, medium pressure	CN	Permanently attached, 316 stainless steel, 3350/3360 hose, 90N style
0H	Permanently attached, plated steel, high pressure	CV	Permanently attached, 316 stainless steel, very high pressure, 90V style
0J	Reusable, plated steel, high pressure	DE	Permanently attached, 316 stainless steel, 38LV hose, 98E style
0K	Reusable, 303/304 stainless steel, high pressure, 0J style		
0L	Permanently attached, 316 stainless steel, high pressure, OH style		
0M	Permanently attached, plated steel, medium pressure, 3500 hose		
0N	Permanently attached, plated steel, 3350 & 3360 hose		
0P	Permanently attached, all Monel, medium pressure, 03 style		

Hose Fitting End Connection Style Code Numbers

Chart reference is located
on page 28.

LOW/MEDIUM
PRESSURE

CONSTANT
PRESSURE HOSE

HIGH
PRESSURE

TWIN LINE
HOSE

AIR, WATER
& TUBING

TRUCK
HOSE

SPECIALTY
HOSE

HOSE
FITTINGS

HOSE ASSEMBLY
EQUIPMENT

ACCESSORIES

TECHNICAL
DATA

Chart 3 - End Connection Codes

Book End Code (BE)	Book End Configuration (BEC)	BE & Configuration	Former Code	Description
10	0	100	100	Male Pipe Rigid
14	0	140	140	Male Pipe Swivel
14	B	14B	270	Male Pipe Swivel, 90° Block
20	0	200	200	Female NPT Rigid
24	0	240	240	30° Female Inverted Flare (NPSM)
40	0	400	400	O-Ring Face Seal, (SAE Proposal), Straight
40	4	404	440	O-Ring Face Seal, 45°, Bent Tube
40	S	40S	470	O-Ring Face Seal, 90°, (Short) Bent Tube
40	L	40L	670	O-Ring Face Seal, 90°, (Long) Bent Tube
50	0	500	500	JIC 37° Male Rigid
54	0	540	540	JIC 37° Female Swivel (some SAE 45° Female swivels), Dual Seat
55	0	550	540	JIC 37° Female Swivel, Single Seat
55	4	554	600	JIC 37° Female Swivel, 45° Bent Tube
55	E	55E	T40	JIC 37° Female Swivel, Straight Tube
55	2	552	740	JIC 37° Female Swivel, 22-1/2° Bent Tube
55	5	555	770	JIC 37° Female Swivel, 135° Bent Tube
55	7	557	800	JIC 37° Female Swivel, 67-1/2° Bent Tube
55	L	55L	840	JIC 37° Female Swivel, 90° (Long) Bent Tube
55	S	55S	640	JIC 37° Female Swivel, 90° (Short) Bent Tube
55	3	553	870	JIC 37° Female Swivel, 30° Bent Tube
55	6	556	900	JIC 37° Female Swivel, 60° Bent Tube
57	0	570	570	JIC 37° Male Swivel
94	0	940	940	SAE 45° Male Rigid
A0	0	A00	A00	SAE 45° Female Swivel
A0	4	A04	A40	SAE 45° Female Swivel 45°, Bent Tube
A0	9	A09	B40	SAE 45° Female Swivel, 90°, Bent Tube
A0	E	A0E	B70	SAE 45° Female Swivel, Straight tube
A0	L	A0L	C00	SAE 45° Female Swivel, 90° (Long) Bent Tube
AL	0	AL0	-	Alger quick disconnect
B0	0	B00	B	BSP Female Swivel, 60° Male Cone
B0	4	B04	B-300	BSP Female Swivel, 60° Male Cone, 45° Bent Tube
B0	9	B09	B-100	BSP Female Swivel, 60° Male Cone, 90° Bent Tube
B0	B	B0B	B-600	BSP Female Swivel, 60° Male Cone, 90° Block
BM	0	BM0	BM00	DIN 7642 Metric Banjo
C4	0	C40	Q40	SAE 45° Inverted Flare Male Swivel
C4	4	C44	C40	SAE 45° Inverted Flare Male Swivel, 45° Bent Tube
C4	9	C49	C70	SAE 45° Inverted Flare Male Swivel, 90° Bent Tube
CG	0	CG0	-	CGA connection
CP	0	CP0	-	CPV for female swivel
D0	0	D00	D00	Male O-ring Straight Thread, Rigid
D4	0	D40	D40	Male O-ring Swivel, Straight Thread, Swivel
D4	B	D4B	E70	Male O-ring Swivel, Straight Thread, 90° Block
F7	0	F70	F70	Oxygen, Style B, Female Swivel
FC	0	FC0	-	Autoclave female, medium pressure
GF	0	GF0	GHF	Garden Hose, Female Swivel
GM	0	GM0	GHM	Garden Hose, Male Rigid
GS	0	GS0	GHS	Garden Hose Fitting Set

Hose Fitting End Connection Style Code Numbers

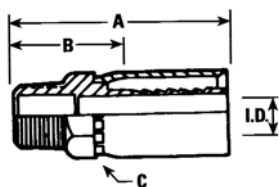
Chart reference is located
on page 28.

Chart 3 - End Connection Codes (continued)

Book End Code (BE)	Book End Configuration (BEC)	BE & Configuration	Former Code	Description
G0	0	G00	G00	Tube O-ring, Female Swivel, Straight Tube
G0	4	G04	G40	Tube O-ring, Female Swivel, 45° Bent Tube
G0	9	G09	G70	Tube O-ring, Female Swivel, 90° Bent Tube
H0	0	H00	H00	Flange Seal, 34F1 & 34F2 Hose
H4	0	H40	H40	Triple 30° Flare Cone
J0	0	J00	J00	Tube Shank End or Straight Tube, Fractional size
JL	0	JL0	J-XX0	Female Swivel, O-ring, metric thread, light duty (DK0)
JL	4	JL4	J-XX3	Female Swivel, O-ring, metric thread, light duty, 45° tube
JL	9	JL9	J-XX1	Female Swivel, O-ring, metric thread, light duty, 90° tube
JS	0	JS0	J-XX0	Female Swivel, O-ring, metric thread, heavy duty (DK0)
JS	4	JS4	J-XX3	Female Swivel, O-ring, metric thread, heavy duty, 45° tube
JS	9	JS9	J-XX1	Female Swivel, O-ring, metric thread, heavy duty, 90° tube
K4	0	K40	K40	SAE Male Flareless, Rigid
L0	0	L00	L00	Globe Seal -DIN 3902
L1	0	L10	L00	SAE Flareless Female Swivel
L4	0	L40	L40	Flange Head, Straight Tube
L4	2	L42	M00	Flange Head, 22-1/2° Bent Tube
L4	3	L43	N70	Flange Head, 30° Bent Tube
L4	4	L44	M40	Flange Head, 45° Bent Tube
L4	6	L46	P00	Flange Head, 60° Bent Tube
L4	9	L49	N40	Flange Head, 90° Bent Tube
MA	0	MA0	MFS-400	Male O-ring face seal, SAE J1453, style A (straight groove)
MB	0	MB0	MFS-XXX	Male O-ring face seal, SAE J1453, style B (dovetail groove)
N0	0	N00	N00	Metric Standpipe N Series
N0	4	N04	N-300	Metric Standpipe, N Series, 45° Bent Tube
N0	9	N09	N-100	Metric Standpipe, N Series, 90° Bent Tube
R0	0	R00	R00	SAE 45° Inverted Flare Female Rigid
R1	0	R10	Q	BSP Male Rigid, 60° female seat
SL	0	SL0	S	Male Rigid, metric, low pressure (DK0 male)
S0	0	S00	-	SAE J512 Tube Connection
SS	0	SS0	S	Male Rigid, metric, high pressure (DK0 male)
S7	0	S70	S70	Female Swivel Nut, Spool with O-ring-Air Breathing Apparatus
T4	0	T40	T40	JIC 37° Female Swivel, Straight tube
T7	0	T70	T70	JIC 37° Female Swivel, Spool with O-ring, Orifice
V0	0	V00	V00	BSP Female Swivel, 60° Female Cone
V4	0	V40	V40	BSP Female Swivel, 60° Male Cone
VC	0	VCO	-	VCO for female swivel
W0	0	W00	W00	Splice Connector, Field Attachable, Consists of two couplings joined with an adapter
W4	0	W40	W40	Splice Connector, In-house Attachable
W7	0	W70	W70	Splice Connector, Field Attachable (left and right hand thread)
Z0	0	Z00	Z00	Fillet weld Socket Joint

Permanent Attached Hose Fittings

Male Pipe Rigid



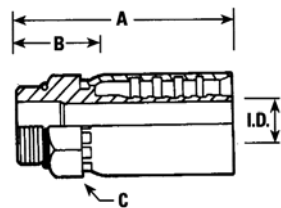
HOSE I.D.	PIPE SIZE	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	FORMER PART #
1/8	1/8	90302-021000-0	MP023	.074	1.296	3/4	1/2	3903-02102
1/8	1/4	90302-041000-0	MP026	.074	1.481	15/16	5/8	3903-02104
3/16	1/8	90303-021000-0	MP001	.109	1.870	1-1/16	9/16	3903-03102
3/16	1/4	90303-041000-0	MP004	.109	2.057	1-1/4	11/16	3903-03104
3/16	3/8	90303-061000-0†	MP005	.109	2.151	1-3/8	3/4	3903-03106
1/4	1/8	90304-021000-0	MP002	.156	2.120	1	5/8	3903-04102
1/4	1/4	90304-041000-0	MP004	.156	2.307	1-3/16	11/16	3903-04104
1/4	3/8	90304-061000-0	MP005	.156	2.401	1-5/16	3/4	3903-04106
5/16	1/4	90305-041000-0	MP004	.219	2.307	1-3/16	11/16	3903-05104
5/16	3/8	90305-061000-0	MP005	.219	2.401	1-1/4	3/4	3903-05106
3/8	1/4	90306-041000-0	MP005	.281	2.589	1-5/16	3/4	3903-06104
3/8	3/8	90306-061000-0	MP005	.281	2.589	1-5/16	3/4	3903-06106
3/8	1/2	90306-081000-0	MP009	.281	2.839	1-7/16	15/16	3903-06108
1/2	3/8	90308-061000-0	MP008	.391	2.776	1-5/16	7/8	3903-08106
1/2	1/2	90308-081000-0	MP009	.391	3.026	1-1/2	15/16	3903-08108
3/4	3/4	90312-121000-0	MP011	.625	3.213	1-5/8	1-1/8	3903-12112
1	1	90316-161000-0	MP013	.812	3.964	1-7/8	1-3/8	3903-16116
3/16	1/8	90H03-021000-0	MP001	.109	1.870	1-1/16	9/16	390H-03102
3/16	1/4	90H03-041000-0	MP004	.109	2.057	1-1/4	11/16	390H-03104
3/16	3/8	90H03-061000-0†	MP005	.109	2.151	1-3/8	3/4	390H-03106
1/4	1/8	90H04-021000-0	MP002	.156	2.120	1-1/16	5/8	390H-04102
1/4	1/4	90H04-041000-0	MP004	.156	2.307	1-1/4	11/16	390H-04104
1/4	3/8	90H04-061000-0	MP005	.156	2.401	1-5/16	3/4	390H-04106
3/8	1/4	90H06-041000-0	MP005	.281	2.589	1-5/16	3/4	390H-06104
3/8	3/8	90H06-061000-0	MP005	.281	2.589	1-5/16	3/4	390H-06106
3/8	1/2	90H06-081000-0	MP009	.281	2.839	1-9/16	15/16	390H-06108
1/2	3/8	90H08-061000-0	MP008	.391	2.776	1-1/4	7/8	390H-08106
1/2	1/2	90H08-081000-0	MP009	.391	3.026	1-1/2	15/16	390H-08108
3/4	3/4	90H12-121000-0	MP011	.625	3.213	1-5/8	1-1/8	390H-12112
1	1	90H16-161000-0	MP013	.812	3.964	1-7/8	1-3/8	390H-16116
3/4	3/4	90N12-121000-0	MP011	.625	3.298	1-5/8	1-1/8	390N-12112
1	1	90N16-161000-0†	MP013	.813	3.966	1-7/8	1-3/8	390H-16116

† Run-to-order product. Contact your Eaton representative for details.

Permanent Attached Hose Fittings

Male O-Ring Straight Thread

Do not swage with O-Ring installed

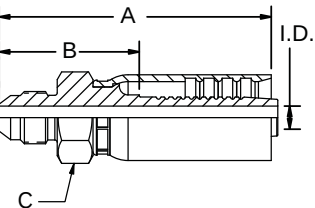


HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	FORMER PART #
3/16	-4	7/16-20	90303-04D000-0	MP001	.109	1.885	1-1/16	9/16	3903-03D04
1/4	-4	7/16-20	90304-04D000-0	MP002	.156	2.105	1-1/32	5/8	3903-04D04
1/4	-5	1/2-20	90304-05D000-0	MP002	.156	2.105	1-1/32	5/8	3903-04D05
1/4	-6	9/16-18	90304-06D000-0	MP004	.156	2.136	1-1/16	11/16	3903-04D06
5/16	-5	1/2-20	90305-05D000-0‡	MP004	.219	2.105	7/8	11/16	3903-05D05
3/8	-6	9/16-18	90306-06D000-0‡	MP005	.281	2.418	1-5/32	3/4	3903-06D06
3/8	-8	3/4-16	90306-08D000-0‡	MP008	.281	2.465	1-3/16	7/8	3903-06D08
1/2	-8	3/4-16	90308-08D000-0‡	MP009	.391	2.714	1-3/32	15/16	3903-08D08
1/2	-10	7/8-14	90308-10D000-0‡	MP018	.391	2.776	1-9/32	1-1/16	3903-08D10

3/16	-4	7/16-20	90H03-04D000-0	MP001	.109	1.860	1-1/16	9/16	390H-03D04
1/4	-4	7/16-20	90H04-04D000-0‡	MP002	.156	2.105	1-1/32	5/8	390H-04D04
1/4	-5	1/2-20	90H04-05D000-0‡	MP002	.156	2.110	1-1/32	5/8	390H-04D05
3/8	-6	9/16-18	90H06-06D000-0‡	MP005	.281	2.423	1	3/4	390H-06D06
3/8	-8	3/4-16	90H06-08D000-0‡	MP008	.281	2.470	1-1/32	7/8	390H-06D08
1/2	-8	3/4-16	90H08-08D000-0‡	MP009	.391	2.782	1-1/32	15/16	390H-08D08
1/2	-10	7/8-14	90H08-10D000-0‡	MP018	.391	2.844	1-5/32	1-1/16	390H-08D10

‡ Run-to-order product. Contact your Eaton representative for details.
 Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

JIC 37° Male Rigid



HOSE I.D.	PIPE SIZE	THREAD	FITTING PART #	PUSHER 4599	LENGTH A	CUT OFF B	HEX C	FORMER PART #
3/16	-3	3/8-24	90303-035000-0‡	MP001	1.974	1-3/16	9/16	3903-03503
3/16	-4	7/16-20	90303-045000-0	MP001	2.045	1-1/4	9/16	3903-03504
1/4	-4	7/16-20	90304-045000-0	MP002	2.295	1-1/4	5/8	3903-04504
1/4	-5	1/2-20	90304-055000-0‡	MP002	2.295	1-1/4	5/8	3903-04505
1/4	-6	9/16-18	90304-065000-0	MP005	2.395	1-5/16	3/4	3903-04506
5/16	-5	1/2-20	90305-055000-0	MP002	2.295	1-3/16	5/8	3903-05505
5/16	-6	9/16-18	90305-065000-0	MP004	2.301	1-3/16	11/16	3903-05506
3/8	-6	9/16-18	90306-065000-0	MP005	2.583	1-5/16	3/4	3903-06506
3/8	-8	3/4-16	90306-085000-0	MP007	2.684	1-7/16	13/16	3903-06508
1/2	-8	3/4-16	90308-085000-0	MP008	2.871	1-3/8	7/8	3903-08508
1/2	-10	7/8-14	90308-105000-0	MP009	3.043	1-9/16	15/16	3903-08510
1/2	-12	1-1/16-12	90308-125000-0‡	MP011	3.140	1-5/8	1-1/8	3903-08512
3/4	-12	1-1/16-12	90312-125000-0‡	MP011	3.327	1-5/8	1-1/8	3903-12512
1	-16	1-5/16-12	90316-165000-0‡	MP013	3.937	1-7/8	1-3/8	3903-16516

3/16	-4	7/16-20	90H03-045000-0	MP001	2.045	1-1/4	9/16	390H-03504
1/4	-4	7/16-20	90H04-045000-0	MP002	2.295	1-1/4	5/8	390H-04504
1/4	-5	1/2-20	90H04-055000-0‡	MP002	2.295	1-1/4	5/8	390H-04505
1/4	-6	9/16-18	90H04-065000-0‡	MP005	2.395	1-5/16	3/4	390H-04506
3/8	-6	9/16-18	90H06-065000-0	MP005	2.583	1-5/16	3/4	390H-06506
3/8	-8	3/4-16	90H06-085000-0	MP007	2.684	1-7/16	13/16	390H-06508
1/2	-8	3/4-16	90H08-085000-0	MP008	2.871	1-3/8	7/8	390H-08508
1/2	-10	7/8-14	90H08-105000-0‡	MP009	3.034	1-9/16	15/16	390H-08510
1/2	-12	1-1/16-12	90H08-125000-0‡	MP011	3.140	1-5/8	1-1/8	390H-08512
3/4	-12	1-1/16-12	90H12-125000-0‡	MP011	3.327	1-5/8	1-1/8	390H-12512

‡ Run-to-order product. Contact your Eaton representative for details.
 Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

Permanent Attached Hose Fittings

LOW/MEDIUM PRESSURE

CONSTANT PRESSURE HOSE

HIGH PRESSURE

TWIN LINE HOSE

AIR, WATER & TUBING

TRUCK HOSE

SPECIALTY HOSE

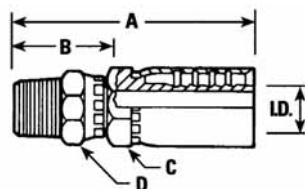
HOSE FITTINGS

HOSE ASSEMBLY EQUIPMENT

ACCESSORIES

TECHNICAL DATA

Male Pipe Swivel

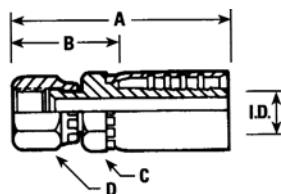


HOSE I.D.	PIPE SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
1/8	-2	1/8-27	90302-021400-0	MP027	.078	1.896	1-5/16	1/2	1/2	3903-02142
3/16	-4	1/4-18	90303-041400-0	MP003	.109	2.637	1-13/16	5/8	11/16	3903-03144
1/4	-4	1/4-18	90304-041400-0	MP003	.156	2.877	1-13/16	5/8	11/16	3903-04144
5/16	-4	1/4-18	90305-041400-0	MP003	.219	2.877	1-3/4	5/8	11/16	3903-05144
3/8	-6	3/8-18	90306-061400-0	MP006	.281	3.171	1-15/16	3/4	3/4	3903-06146
3/8	-8	1/2-14	90306-081400-0†	FP025	.281	3.359	2-1/8	3/4	7/8	3903-06148
1/2	-8	1/2-14	90308-081400-0	MP010	.391	3.609	2-1/8	7/8	15/16	3903-08148
3/4	-12	3/4-14	90312-121400-0	MP012	.594	3.858	2-3/16	1-1/8	1-1/8	3903-12152
1	-16	1-11-1/2	90316-161400-0†	MP016	.812	4.665	2-5/8	1-3/8	1-1/2	3903-16156
3/16	-4	1/4-18	90H03-041400-0	MP003	.109	2.637	1-13/16	5/8	11/16	390H-03144
1/4	-4	1/4-18	90H04-041400-0	MP003	.156	2.877	1-13/16	5/8	11/16	390H-04144
3/8	-6	3/8-18	90H06-061400-0	MP006	.281	3.171	1-15/16	3/4	3/4	390H-06146
3/8	-8	1/2-14	90H06-081400-0†	FP025	.281	3.359	2-1/8	3/4	7/8	390H-06148
1/2	-8	1/2-14	90H08-081400-0	MP010	.391	3.609	2-1/8	7/8	15/16	390H-08148
3/4	-12	3/4-14	90H12-121400-0	MP012	.594	3.858	2-3/16	1-1/8	1-1/8	390H-12152
1	-16	1-11-1/2	90H16-161400-0†	MP016	.812	4.665	2-5/8	1-3/8	1-1/2	390H-16156

† Run-to-order product. Contact your Eaton representative for details.

Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

SAE 45° Female Swivel

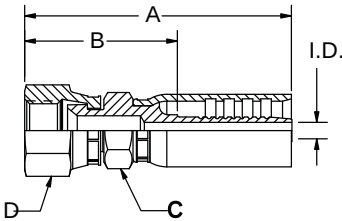


HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
3/16	-4	7/16-20	90303-045400-0	FP011	.109	2.151	1-3/8	9/16	5/8	3903-03544
3/16	-5	1/2-20	90303-055400-0	FP011	.109	2.151	1-3/8	9/16	3/4	3903-03545
1/4	-4	7/16-20	90304-045400-0	FP012	.156	2.526	1-7/16	5/8	5/8	3903-04544
1/4	-5	1/2-20	90304-055400-0	FP013	.156	2.526	1-7/16	5/8	3/4	3903-04545
1/4	-6	5/8-18	90304-06A000-0†	FP003	.156	2.526	1-7/16	5/8	13/16	3903-04A06
5/16	-5	1/2-20	90305-055400-0	FP013	.219	2.526	1-3/8	5/8	3/4	3903-05545
5/16	-6	5/8-18	90305-06A000-0†	FP003	.219	2.526	1-3/8	5/8	13/16	3903-05A06
3/8	-6	5/8-18	90306-06A000-0	FP014	.281	2.808	1-9/16	3/4	13/16	3903-06A06
3/8	-8	3/4-16	90306-085400-0	FP005	.281	2.808	1-9/16	3/4	15/16	3903-06548
1/2	-8	3/4-16	90308-085400-0	FP016	.391	3.151	1-5/8	7/8	15/16	3903-08548
1/2	-10	7/8-14	90308-105400-0	FP006	.391	3.151	1-5/8	7/8	1-1/16	3903-08550
3/4	-12	1-1/16-14	90312-12A000-0†	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	3903-12A12
1	-16	1-3/8-12	90316-16A000-0†	FP023	.812	4.247	2-3/16	1-1/2	1-5/8	3903-16A16
3/16	-4	7/16-20	90H03-045400-0	FP011	.109	2.151	1-3/8	9/16	5/8	390H-03544
3/16	-5	1/2-20	90H03-055400-0†	FP001	.109	2.151	1-3/8	9/16	3/4	390H-03545
1/4	-4	7/16-20	90H04-045400-0	FP012	.156	2.526	1-7/16	5/8	5/8	390H-04544
1/4	-5	1/2-20	90H04-055400-0†	FP013	.156	2.526	1-7/16	5/8	3/4	390H-04545
1/4	-6	5/8-18	90H04-06A000-0†	FP003	.156	2.526	1-7/16	5/8	13/16	390H-04A06
3/8	-6	5/8-18	90H06-06A000-0	FP014	.281	2.808	1-9/16	3/4	13/16	390H-06A06
3/8	-8	3/4-16	90H06-085400-0	FP005	.281	2.808	1-9/16	3/4	15/16	390H-06548
1/2	-8	3/4-16	90H08-085400-0	FP016	.391	3.151	1-5/8	7/8	15/16	390H-08548
1/2	-10	7/8-14	90H08-105400-0	FP006	.391	3.151	1-5/8	7/8	1-1/16	390H-08550
3/4	-12	1-1/16-14	90H12-12A000-0†	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	390H-12A12
1	-16	1-3/8-12	90H16-16A000-0†	FP023	.812	4.247	2-3/16	1-1/2	1-5/8	390H-16A16

† Run-to-order product. Contact your Eaton representative for details.

Permanent Attached Hose Fittings

JIC 37° Swivel



Torque Values (in - lbs) for Steel Female Swivel Fittings

Size	Min.	Max.
4	50	150
5	70	200
6	90	300
8	150	500
10	220	700
12	300	1,000
16	450	1,400

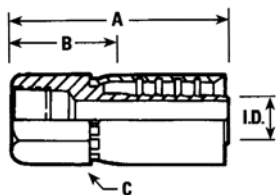
The maximum torques listed are based upon strength rather than sealing properties. Use of any torque within the min-max range will prevent damage or leakage.

HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
1/8	-3	3/8-24	90302-035500-0	FP017	.078	1.613	1-1/16	1/2	9/16	3903-02543
1/8	-4	7/16-20	90302-045400-0	FP010	.078	1.703	1-1/16	1/2	5/8	3903-02544
1/8	-5	1/2-20	90302-055400-0‡	FP029	.078	1.675	1-1/16	1/2	3/4	3903-02545
3/16	-3	3/8-24	90303-035400-0‡	FP017	.109	2.151	1-5/16	9/16	9/16	3903-03543
3/16	-4	7/16-20	90303-045400-0	FP011	.109	2.151	1-3/8	9/16	5/8	3903-03544
3/16	-5	1/2-20	90303-055400-0	FP001	.109	2.151	1-3/8	9/16	3/4	3903-03545
1/4	-4	7/16-20	90304-045400-0	FP012	.156	2.526	1-7/16	5/8	5/8	3903-04544
1/4	-5	1/2-20	90304-055400-0	FP013	.156	2.531	1-7/16	5/8	3/4	3903-04545
1/4	-5	1/2-20	90304-055403-0	FP012	.156	2.526	1-7/16	5/8	5/8	3903-04545
1/4	-6	9/16-18	90304-065500-0	FP013	.156	2.536	1-7/16	5/8	3/4	3903-04546
5/16	-4	7/16-20	90305-045400-0‡	FP012	.219	2.526	1-7/16	5/8	5/8	3903-05544
5/16	-5	1/2-20	90305-055400-0	FP013	.219	2.526	1-3/8	5/8	3/4	3903-05545
5/16	-6	9/16-18	90305-065500-0	FP013	.219	2.536	1-7/16	5/8	3/4	3903-05546
3/8	-4	7/16-20	90306-045400-0‡	MP007	.281	2.683	1-7/16	13/16	5/8	3903-06544
3/8	-5	1/2-20	90306-055400-0‡	FP013	.234	2.683	1-7/16	3/4	3/4	3903-06545
3/8	-6	9/16-18	90306-065500-0	FP015	.281	2.818	1-9/16	3/4	3/4	3903-06546
3/8	-8	3/4-16	90306-085400-0	FP005	.281	2.808	1-9/16	3/4	15/16	3903-06548
3/8	-10	7/8-14	90306-105400-0‡	FP006	.281	2.964	1-11/16	7/8	1-1/16	3903-06550
1/2	-8	3/4-16	90308-085400-0	FP016	.391	3.151	1-5/8	7/8	15/16	3903-08548
1/2	-10	7/8-14	90308-105400-0	FP006	.391	3.151	1-5/8	7/8	1-1/16	3903-08550
1/2	-12	1-1/16-12	90308-125500-0	FP008	.391	3.245	1-3/4	1-1/8	1-1/4	3903-08552
3/4	-10	7/8-14	90312-105400-0‡	FP021	.484	3.432	1-5/8	1-1/8	1-1/16	3903-12550
3/4	-12	1-1/16-12	90312-125500-0	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	3903-12552
3/4	-14	1-3/16-12	90312-145500-0‡	FP009	.625	3.494	1-11/16	1-3/8	1-1/2	3903-12554
3/4	-16	1-5/16-12	90312-165500-0‡	FP009	.625	3.494	1-11/16	1-3/8	1-1/2	3903-12556
1	-16	1-5/16-12	90316-165500-0	FP009	.812	4.057	1-11/16	1-3/8	1-1/2	3903-16556
3/16	-4	7/16-20	90H03-045400-0	FP011	.109	2.151	1-3/8	9/16	5/8	390H-03544
3/16	-5	1/2-20	90H03-055400-0‡	FP001	.109	2.151	1-3/8	9/16	3/4	390H-03545
1/4	-4	7/16-20	90H04-045400-0	FP012	.156	2.526	1-7/16	5/8	5/8	390H-04544
1/4	-5	1/2-20	90H04-055400-0‡	FP013	.156	2.526	1-7/16	5/8	3/4	390H-04545
1/4	-6	9/16-18	90H04-065500-0	FP013	.156	2.536	1-7/16	5/8	3/4	390H-04546
5/16	-6	9/16-18	90H05-065500-0‡	FP013	.219	2.536	1-7/16	5/8	3/4	390H-05546
3/8	-4	7/16-20	90H06-045400-0‡	MP007	.281	2.683	1-7/16	13/16	5/8	390H-06544
3/8	-5	1/2-20	90H06-055400-0‡	FP013	.234	2.683	1-7/16	3/4	3/4	390H-06545
3/8	-6	9/16-18	90H06-065500-0	FP015	.281	2.818	1-9/16	3/4	3/4	390H-06546
3/8	-8	3/4-16	90H06-085400-0	FP005	.281	2.808	1-9/16	3/4	15/16	390H-06548
1/2	-8	3/4-16	90H08-085400-0	FP016	.391	3.151	1-5/8	7/8	15/16	390H-08548
1/2	-10	7/8-14	90H08-105400-0	FP006	.391	3.151	1-5/8	7/8	1-1/16	390H-08550
1/2	-12	1-1/16-12	90H08-125500-0‡	FP008	.391	3.245	1-3/4	1-1/8	1-1/4	390H-08552
5/8	-10	7/8-14	90H10-105400-0‡	FP021	.469	3.432	1-7/8	1-1/8	1-1/16	390H-10550
5/8	-12	1-1/16-12	90H10-125500-0	FP008	.469	3.432	1-7/8	1-1/8	1-1/4	390H-10552
3/4	-10	7/8-14	90H12-105400-0‡	FP021	.625	3.432	1-3/4	1-1/8	1-1/16	390H-12550
3/4	-12	1-1/16-12	90H12-125500-0	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	390H-12552
1	-16	1-5/16-12	90H16-165500-0	FP009	.812	4.057	1-15/16	1-3/8	1-1/2	390H-16556
5/8	-10	7/8-14	90N10-105400-0	FP008	.469	3.470	1-7/8	1-1/8	1-1/16	390N-10550
5/8	-12	1-1/16-12	90N10-125500-0	FP021	.469	3.470	1-7/8	1-1/8	1-1/4	390N-10552
3/4	-10	7/8-14	90N12-105500-0‡	FP021	.484	3.472	1-3/4	1-1/8	1-1/16	390N-12550
3/4	-12	1-1/16-12	90N12-125500-0	FP008	.625	3.470	1-3/4	1-1/8	1-1/4	390N-12552
1	-16	1-5/16-12	90N16-165500-0	FP009	.812	4.057	1-7/8	1-3/8	1-1/2	390N-16556

‡ Run-to-order hose. Contact your Eaton representative for details.
Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

Permanent Attached Hose Fittings

Female NPT Rigid

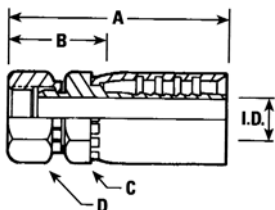


HOSE I.D.	PIPE SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	FORMER PART #
1/4	1/4	1/4-18	90304-042000-0	FP002	.156	2.339	1-1/4	3/4	3903-04204
1/4	3/8	3/8-18	90304-062000-0†	FP004	.156	2.433	1-5/16	7/8	3903-04206
3/8	3/8	3/8-18	90306-062000-0†	FP004	.281	2.621	1-3/8	7/8	3903-06206
1/2	1/2	1/2-14	90308-082000-0†	FP007	.391	2.964	1-1/2	1-1/16	3903-08208
1/4	1/4	1/4-18	90H04-042000-0	FP002	.156	2.339	1-1/4	3/4	390H-04204
3/8	3/8	3/8-18	90H06-062000-0†	FP004	.281	2.621	1-3/8	7/8	390H-06206
1/2	1/2	1/2-14	90H08-082000-0	FP007	.391	2.964	1-1/2	1-1/16	390H-08208

† Run-to-order product. Contact your Eaton representative for details.

Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

30° Inverted Flare NPSM

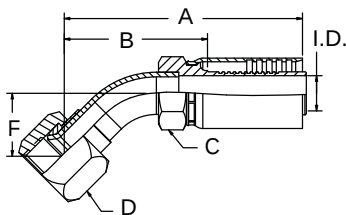


HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
1/8	-4	1/4-18	90302-042400-0	FP024	.078	1.651	1-1/16	1/2	11/16	3903-02244
3/16	-4	1/4-18	90303-042400-0	FP002	.109	2.134	1-5-16	5/8	3/4	3903-03244
1/4	-4	1/4-18	90304-042400-0	FP002	.156	2.384	1-5/16	5/8	3/4	3903-04244
1/4	-6	3/8-18	90304-062400-0†	FP004	.156	2.464	1-3/8	3/4	7/8	3903-04246
5/16	-4	1/4-18	90305-042400-0	FP013	.219	2.540	1-7/16	3/4	3/4	3903-05244
3/8	-4	1/4-18	90306-042400-0†	FP013	.218	2.666	1-7/16	3/4	3/4	3903-06244
3/8	-6	3/8-18	90306-062400-0	FP004	.281	2.652	1-3/16	3/4	7/8	3903-06246
1/2	-8	1/2-14	90308-082400-0	FP018	.391	2-989	1-1/2	1	1	3903-08248
3/4	-12	3/4-14	90312-122400-0†	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	3903-12252
1	-16	1-11-1/2	90316-162400-0†	FP009	.812	4.060	1-7/8	1-3/8	1-1/2	3903-16256
3/16	-4	1/4-18	90H03-042400-0†	FP002	.109	2.134	1-5/16	5/8	3/4	390H-03244
1/4	-4	1/4-18	90H04-042400-0	FP002	.156	2.384	1-5/16	5/8	3/4	390H-04244
3/8	-4	1/4-18	90H06-042400-0†	FP013	.218	2.666	1-7/16	3/4	3/4	390H-06244
3/8	-6	3/8-18	90H06-062400-0	FP004	.281	2.652	1-3/16	7/8	7/8	390H-06246
1/2	-8	1/2-14	90H08-082400-0	FP018	.391	2.989	1-1/2	1	1	390H-08248
3/4	-12	3/4-14	90H12-122400-0†	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	390H-12252
1	-16	1-11-1/2	90H16-162400-0	FP009	.812	4.060	1-7/8	1-3/8	1-1/2	390H-16256

† Run-to-order product. Contact your Eaton representative for details.

Permanent Attached Hose Fittings

45° Bent Tube Female Swivel, JIC 37°



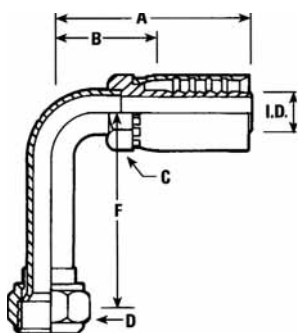
HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	DROP F	FORMER PART #
3/16	-4	7/16-20	90303-045540-0†	TP204	.109	2.298	1-1/2	9/16	9/16	.467	3903-03604
1/4	-4	7/16-20	90304-045540-0†	TP204	.156	2.548	1-1/2	5/8	9/16	.467	3903-04604
1/4	-5	1/2-20	90304-055540-0†	TP205	.156	2.640	1-9/16	5/8	5/8	.526	3903-04605
1/4	-6	9/16-18	90304-065540-0†	TP206	.156	2.728	1-5/8	5/8	11/16	.588	3903-04606
5/16	-6	9/16-18	90305-065540-0	TP206	.219	2.728	1-5/8	5/8	11/16	.588	3903-05606
3/8	-6	9/16-18	90306-065540-0	TP206	.281	2.916	1-11/16	3/4	11/16	.588	3903-06606
3/8	-8	3/4-16	90306-085540-0†	TP208	.281	3.097	1-7/8	3/4	7/8	.713	3903-06608
1/2	-8	3/4-16	90308-085540-0	TP308	.391	3.278	1-13/16	7/8	7/8	.713	3903-08608
1/2	-10	7/8-14	90308-105540-0†	TP310	.391	3.455	1-15/16	7/8	1	.839	3903-08610
3/4	-12	1-1/16-12	90312-125540-0†	TP312	.625	4.261	2-9/16	1-1/8	1-1/4	1.118	3903-12612
1	-16	1-5/16-12	90316-165540-0†	TP316	.812	4.951	2-7/8	1-3/8	1-1/2	1.146	3903-16616

3/16	-4	7/16-20	90H03-045540-0†	TP204	.109	2.298	1-1/2	9/16	9/16	.467	390H-03604
1/4	-4	7/16-20	90H04-045540-0†	TP204	.156	2.548	1-1/2	5/8	9/16	.467	390H-04604
1/4	-5	1/2-20	90H04-055540-0†	TP205	.156	2.640	1-9/16	5/8	5/8	.526	390H-04605
3/8	-6	9/16-18	90H06-065540-0	TP206	.281	2.916	1-11/16	3/4	11/16	.588	390H-06606
3/8	-8	3/4-16	90H06-085540-0†	TP208	.281	3.097	1-7/8	3/4	7/8	.713	390H-06608
1/2	-8	3/4-16	90H08-085540-0†	TP308	.391	3.278	1-13/16	7/8	7/8	.713	390H-08608
1/2	-10	7/8-14	90H08-105540-0†	TP310	.391	3.455	1-15/16	7/8	1	.839	390H-08610
3/4	-12	1-1/16-12	90H12-125540-0†	TP312	.625	4.261	2-9/16	1-1/8	1-1/4	1.118	390H-12612
1	-16	1-5/16-12	90H16-165540-0†	TP316	.812	4.951	2-7/8	1-3/8	1-1/2	1.146	390H-16616

† Run-to-order product. Contact your Eaton representative for details.

Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

90° Long Bent Tube Female Swivel, JIC 37°



HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	DROP F	FORMER PART #
3/16	-4	7/16-20	90303-0455L0-0†	TP204	.109	2.058	1-1/4	9/16	9/16	1.800	3903-03844
1/4	-4	7/16-20	90304-0455L0-0	TP204	.156	2.308	1-1/4	5/8	9/16	1.800	3903-04844
1/4	-5	1/2-20	90304-0555L0-0†	TP205	.156	2.370	1-5/16	5/8	5/8	1.770	3903-04845
1/4	-6	9/16-18	90304-0655L0-0†	TP206	.156	2.456	1-3/8	5/8	11/16	2.180	3903-04846
5/16	-6	9/16-18	90305-0655L0-0	TP206	.219	2.432	1-5/16	5/8	11/16	2.180	3903-05846
3/8	-6	9/16-18	90306-0655L0-0	TP206	.281	2.620	1-3/8	3/4	11/16	2.180	3903-06846
3/8	-8	3/4-16	90306-0855L0-0	TP208	.281	2.751	1-1/2	3/4	7/8	2.430	3903-06848
1/2	-8	3/4-16	90308-0855L0-0	TP308	.391	2.932	1-7/16	7/8	7/8	2.430	3903-08848
1/2	-10	7/8-14	90308-1055L0-0	TP310	.391	3.057	1-9/16	7/8	1	2.570	3903-08850
3/4	-12	1-1/16-12	90312-1255L0-0†	TP312	.625	3.870	2-3/16	1-1/8	1-1/4	3.730	3903-12852
1	-16	1-5/16-12	90316-1655L0-0†	TP316	.812	4.685	2-5/8	1-3/8	1-1/2	4.330	3903-16856

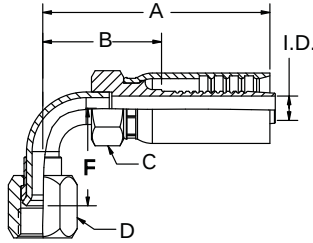
3/16	-4	7/16-20	90H03-0455L0-0†	TP204	.109	2.058	1-1/4	9/16	9/16	1.800	390H-03844
1/4	-4	7/16-20	90H04-0455L0-0†	TP204	.156	2.308	1-1/4	5/8	9/16	1.800	390H-04844
1/4	-5	1/2-20	90H04-0555L0-0†	TP205	.156	2.370	1-5/16	5/8	5/8	1.770	390H-04845
1/4	-6	9/16-18	90H04-0655L0-0†	TP206	.156	2.456	1-3/8	5/8	11/16	2.180	390H-04846
3/8	-6	9/16-18	90H06-0655L0-0	TP206	.281	2.620	1-3/8	3/4	11/16	2.180	390H-06846
3/8	-8	3/4-16	90H06-0855L0-0	TP208	.281	2.751	1-1/2	3/4	7/8	2.430	390H-06848
1/2	-8	3/4-16	90H08-0855L0-0†	TP308	.391	2.932	1-7/16	7/8	7/8	2.430	390H-08848
1/2	-10	7/8-14	90H08-1055L0-0	TP310	.391	3.057	1-9/16	7/8	1	2.570	390H-08850
3/4	-12	1-1/16-12	90H12-1255L0-0†	TP312	.625	3.870	2-3/16	1-1/8	1-1/4	3.730	390H-12852
1	-16	1-5/16-12	90H16-1655L0-0†	TP316	.812	4.685	2-5/8	1-3/8	1-1/2	4.330	390H-16856

† Run-to-order product. Contact your Eaton representative for details.

Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

Permanent Attached Hose Fittings

90° Short Bent Tube Female Swivel, JIC 37°



Torque Values (in - lbs) for Bent Tube Fittings with Female Swivels

Size	Min.	Max.
4	37	112
5	52	150
6	67	225
8	112	375
10	165	525
12	225	750
16	337	1,050

The maximum torques listed are based upon strength rather than sealing properties. Use of any torque within the min-max range will prevent damage or leakage.

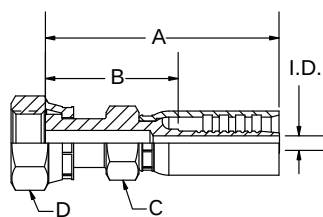
HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	DROP F	FORMER PART #
1/8	-3	3/8-24	90302-0355S0-0†	TP204	.078	1.483	15/16	1/2	7/16	0.750	3903-02643
1/8	-4	7/16-20	90302-0455S0-0†	SP038	.078	1.671	1-1/8	1/2	9/16	0.875	3903-02644
3/16	-4	7/16-20	90303-0455S0-0	TP204	.109	2.058	1-1/4	9/16	9/16	0.875	3903-03644
1/4	-4	7/16-20	90304-0455S0-0	TP204	.156	2.308	1-1/4	5/8	9/16	0.875	3903-04644
1/4	-5	1/2-20	90304-0555S0-0	TP205	.156	2.370	1-5/16	5/8	5/8	1.000	3903-04645
1/4	-6	9/16-18	90304-0655S0-0	TP206	.156	2.432	1-3/8	5/8	11/16	1.125	3903-04646
5/16	-5	1/2-20	90305-0555S0-0†	TP205	.219	2.370	1-1/4	5/8	5/8	1.000	3903-05645
5/16	-6	9/16-18	90305-0655S0-0	TP206	.219	2.430	1-5/16	5/8	11/16	1.125	3903-05646
3/8	-4	7/16-20	90306-0455S0-0†	TP204	.156	2.501	1-1/4	3/4	9/16	0.875	3903-06644
3/8	-6	9/16-18	90306-0655S0-0	TP206	.281	2.620	1-3/8	3/4	11/16	1.125	3903-06646
3/8	-8	3/4-16	90306-0855S0-0	TP208	.281	2.751	1-1/2	3/4	7/8	1.375	3903-06648
1/2	-8	3/4-16	90308-0855S0-0	TP308	.391	2.932	1-7/16	7/8	7/8	1.375	3903-08648
1/2	-10	7/8-14	90308-1055S0-0	TP310	.391	3.057	1-9/16	7/8	1	1.625	3903-08650
3/4	-12	1-1/16-12	90312-1255S0-0†	TP312	.625	3.870	2-3/16	1-1/8	1-1/4	2.312	3903-12652
1	-16	1-5/16-12	90316-1655S0-0†	TP316	.812	4.683	2-5/8	1-3/8	1-1/2	2.500	3903-16656
3/16	-4	7/16-20	90H03-0455S0-0	TP204	.109	2.058	1-1/4	9/16	9/16	0.875	390H-03644
1/4	-4	7/16-20	90H04-0455S0-0	TP204	.156	2.308	1-1/4	5/8	9/16	0.875	390H-04644
1/4	-5	1/2-20	90H04-0555S0-0†	TP205	.156	2.370	1-5/16	5/8	5/8	1.000	390H-04645
1/4	-6	9/16-18	90H04-0655S0-0†	TP206	.156	2.432	1-3/8	5/8	11-1/16	1.125	390H-04646
5/16	-6	9/16-18	90H05-0655S0-0†	TP206	.219	2.433	1-5/16	5/8	11/16	1.125	390H-05646
3/8	-4	7/16-20	90H06-0455S0-0†	TP204	.156	2.501	1-1/4	3/4	9/16	0.875	390H-06644
3/8	-6	9/16-18	90H06-0655S0-0†	TP206	.281	2.620	1-3/8	3/4	11/16	1.125	390H-06646
3/8	-8	3/4-16	90H06-0855S0-0	TP208	.281	2.751	1-1/2	3/4	7/8	1.375	390H-06648
1/2	-8	3/4-16	90H08-0855S0-0	TP308	.391	2.932	1-7/16	7/8	7/8	1.375	390H-08648
1/2	-10	7/8-14	90H08-1055S0-0	TP310	.391	3.057	1-9/16	7/8	1	1.625	390H-08650
5/8	-12	1-1/16-12	90H10-1255S0-0	TP312	.469	3.870	2-5/16	1-1/8	1-1/4	2.312	390H-10652
3/4	-12	1-1/16-12	90H12-1255S0-0†	TP312	.625	3.870	2-3/16	1-1/8	1-1/4	2.312	390H-12652
3/4	-16	1-5/16-12	90H12-1655S0-0†	TP316	.625	4.117	2-7/16	1-1/4	1-1/2	2.500	390H-12656
1	-16	1-5/16-12	90H16-1655S0-0†	TP316	.812	4.683	2-5/8	1-3/8	1-1/2	2.500	390H-16656

† Run-to-order product. Contact your Eaton representative for details.

Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

Permanent Attached Hose Fittings

Straight with Female Swivel, O-Ring Face Seal

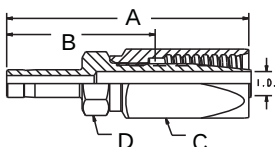


HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
1/8	-4	9/16-18	90302-044000-0‡	MP045	.078	1.780	1.219	5/8	11/16	3903-02404
1/4	-4	9/16-18	90304-044000-0	MP045	.156	2.600	1.520	5/8	11/16	3903-04404
1/4	-6	11/16-16	90304-064000-0‡	SP031	.156	2.502	1.422	5/8	7/8	3903-04406
5/16	-4	9/16-18	90305-044000-0‡	MP045	.219	2.600	1.475	5/8	11/16	3903-05404
5/16	-6	11/16-16	90305-064000-0	MP037	.375	2.670	1.545	5/8	13/16	3903-05406
3/8	-6	11/16-16	90306-064000-0	SP031	.272	2.690	1.440	3/4	7/8	3903-06406
3/8	-8	13/16-16	90306-084000-0	MP046	.272	3.038	1.788	3/4	15/16	3903-06408
1/2	-8	13/16-16	90308-084000-0	FP040	.382	3.060	1.565	15/16	1-1/16	3903-08408
1/2	-10	1-14	90308-104000-0‡	TP310	.391	3.325	1.830	7/8	1-1/8	3903-08410
3/4	-12	1-3/16-12	90312-124000-0	MP039	.610	3.642	1.955	1-1/8	1-3/8	3903-12412
1	-16	1-7/16-12	90316-164000-0‡	MP042	.811	4.360	2.170	1-3/8	1-5/8	3903-16416

1/4	-4	9/16-18	90H04-044000-0	MP045	.156	2.600	1.520	5/8	11/16	390H-04404
3/8	-6	11/16-16	90H06-064000-0	SP031	.272	2.690	1.440	3/4	7/8	390H-06406
1/2	-8	13/16-16	90H08-084000-0	FP040	.382	3.060	1.565	7/8	1-1/16	390H-08408
1/2	-10	1-14	90H08-104000-0‡	TP310	.382	3.325	1.830	7/8	1-1/8	390H-08410
5/8	-10	1-14	90H10-104000-0	TP312	.469	3.632	2.060	1-1/8	1-1/8	390H-10410
3/4	-12	1-3/16-12	90H12-124000-0‡	MP039	.610	3.642	1.995	1-1/8	1-3/8	390H-12412
1	-16	1-7/16-12	90H16-164000-0‡	MP042	.811	4.360	2.170	1-3/8	1-5/8	390H-16416

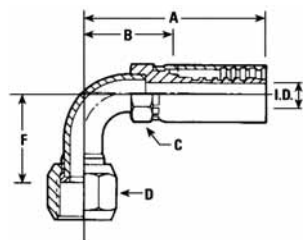
‡ Run-to-order product. Contact your Eaton representative for details.

Fractional Stand Pipe with Hoke Groove



HOSE I.D.	TUBE O.D.	FITTING PART #	LENGTH A	CUT OFF B	NIPPLE HEX C	HEX SIZE D	FORMER PART #
1/4	.250	90404-04JK00-0	2.193	1-3/8	5/8	1/2	3904-04J04-KOH
3/8	.375	90406-06JK00-0	2.730	1-3/4	13/16	5/8	3904-06J06-KOH
1/2	.500	90408-08JK00-0	3.295	2	1	13/16	3904-08J08-KOH

Female Swivel, 90° Elbow O-Ring Face Seal (Short Drop)



HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	DROP F	FORMER PART #
1/8	-4	9/16-18	90302-0440S0-0‡	TP204	.078	1.676	1-1/8	1/2	11/16	.779	3903-02474
1/4	-4	9/16-18	90304-0440S0-0	TP204	.156	2.313	1-1/4	5/8	11/16	.779	3903-04474
5/16	-4	9/16-18	90305-0440S0-0‡	TP204	.219	2.313	1-3/16	5/8	11/16	.779	3903-05474
5/16	-6	11/16-16	90305-0640S0-0	TP206	.281	2.493	1-15/16	3/4	13/16	.902	3903-05476
3/8	-6	11/16-16	90306-0640S0-0	TP206	.281	2.681	1-7/16	3/4	13/16	.902	3903-06476
1/2	-8	13/16-16	90308-0840S0-0‡	TP308	.391	2.980	1-1/2	7/8	15/16	1.150	3903-08478
3/4	-12	1-3/16-12	90312-1240S0-0‡	TP312	.625	3.709	2	1-1/8	1-3/8	1.882	3903-12482

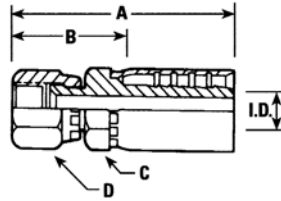
1/4	-4	9/16-18	90H04-0440S0-0‡	TP204	.156	2.313	1-1/4	5/8	11/16	.779	390H-04474
3/8	-6	11/16-16	90H06-0640S0-0	TP206	.281	2.681	1-7/16	3/4	13/16	.902	390H-06476
1/2	-8	13/16-16	90H08-0840S0-0‡	TP308	.391	2.980	1-1/2	7/8	15/16	1.150	390H-08478
3/4	-12	1-3/16-12	90H12-1240S0-0‡	TP312	.625	3.709	2	1-1/8	1-3/8	1.882	390H-12482

3/4	-12	1-3/16-12	90N12-1240S0-0‡	TP312	.625	3.747	2	1-1/8	1-3/8	1.882	390N-12482
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‡ Run-to-order product. Contact your Eaton representative for details.

Permanent Attached Hose Fittings

JIC 37° Female Swivel, AISI 316 Series Stainless Steel

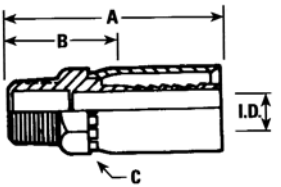


HOSE I.D.	DASH SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
3/16	-4	7/16-20	90A03-045400-0	FP011	.109	2.151	1-5/16	9/16	5/8	390A-03544
1/4	-4	7/16-20	90A04-045400-0	FP012	.156	2.526	1-7/16	5/8	5/8	390A-04544
3/8	-6	9/16-18	90A06-065500-0	FP015	.281	2.818	1-9/16	3/4	3/4	390A-06546
1/2	-8	3/4-16	90A08-085400-0	FP016	.391	3.151	1-5/8	7/8	15/16	390A-08548
1/2	-10	7/8-14	90A08-105400-0†	FP006	.391	3.151	1-5/8	7/8	1-1/16	390A-08550
3/4	-12	1-1/16-12	90A12-125500-0†	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	390A-12552
1	-16	1-5/16-12	90A16-165500-0†	FP009	.813	4.057	2	1-3/8	1-1/2	390A-16556

3/16	-4	7/16-20	90L03-045400-0	FP011	.109	2.151	1-3/8	9/16	5/8	390H-03544
1/4	-4	7/16-20	90L04-045400-0	FP012	.156	2.526	1-7/16	5/8	5/8	390H-04544
3/8	-6	9/16-18	90L06-065500-0	FP015	.281	2.818	1-9/16	3/4	3/4	390H-06546
3/8	-8	3/4-16	90L06-085400-0	FP005	.281	2.808	1-9/16	3/4	15/16	390H-06548
1/2	-8	3/4-16	90L08-085400-0	FP016	.391	3.151	1-5/8	7/8	15/16	390H-08548
1/2	-10	7/8-14	90L08-105400-0	FP006	.391	3.151	1-5/8	7/8	1-1/16	390H-08550
3/4	-12	1-1/16-12	90L12-125500-0	FP008	.625	3.432	1-3/4	1-1/8	1-1/4	390H-12552
1	-16	1-5/16-12	90L16-165500-0	FP009	.812	4.057	1-15/16	1-3/8	1-1/2	390H-16556

† Run-to-order product. Contact your Eaton representative for details.

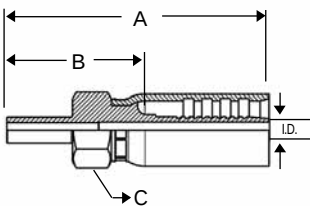
Male Pipe Rigid Stainless Steel



HOSE I.D.	PIPE SIZE	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	FORMER PART #
1/4	1/4	90L04-041000-0	MP004	.156	2.307	1-1/4	11/16	390H-04104
3/8	3/8	90L06-061000-0	MP005	.281	2.589	1-5/16	3/4	390H-06106
1/2	1/2	90L08-081000-0	MP009	.391	3.026	1-1/2	15/16	390H-08108
3/4	3/4	90L12-121000-0	MP011	.625	3.213	1-5/8	1-1/8	390H-12112
1	1	90L16-161000-0	MP013	.812	3.964	1-7/8	1-3/8	390H-16116

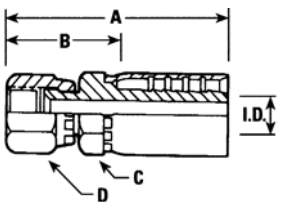
† Run-to-order product. Contact your Eaton representative for details.

Stand Pipe, Straight, Stainless Steel



HOSE I.D.	PIPE SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	FORMER PART #
1/4	1/4	-	90A04-04J000-0	TP204	.156	2.495	1-7/16	5/8	390A-04J04
3/8	3/8	-	90A06-06J000-0	TP206	.281	2.752	1-1/2	3/4	390A-06J06
1/2	1/2	-	90A08-08J000-0	TP208	.391	3.195	1-11/16	7/8	390A-08J08
1/4	0.250	-	90L04-04J000-0	TP204	.156	2.495	1-7/16	5/8	390L-04J04
3/8	0.375	-	90L06-06J000-0	TP206	.281	2.752	1-1/2	3/4	390L-06J06
1/2	0.500	-	90L08-08J000-0	TP308	.391	3.195	1-11/16	7/8	390L-08J08

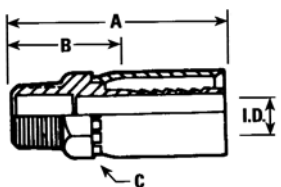
JIC 37° Female Swivel Brass



HOSE I.D.	PIPE SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	HEX D	FORMER PART #
3/16	-4	7/16-20	90603-045400-0†	FP011	.125	1.556	7/8	9/16	5/8	3906-03544
1/4	-4	7/16-20	90604-045400-0	FP022	.156	2.219	1-1/8	11/16	11/16	3906-04544
3/8	-6	9/16-18	90606-065500-0†	FP014	.281	2.813	1-3/8	3/4	13/16	3906-06546

† Run-to-order product. Contact your Eaton representative for details.

Male Pipe Rigid Brass



HOSE I.D.	PIPE SIZE	THREAD	FITTING PART #	PUSHER 4599	BORE I.D.	LENGTH A	CUT OFF B	HEX C	FORMER PART #
1/4	1/4	-	90604-041000-0	MP004	.156	2.048	1-1/8	11/16	3906-04104
3/8	3/8	-	90606-061000-0†	MP005	.281	2.589	1-5/16	3/4	3906-06106

† Run-to-order product. Contact your Eaton representative for details.

Fittings are manufactured from plated steel. Dimensions are in inches unless otherwise specified.

390C Brass Fittings for 3630 Series Hose

390C Series Brass Fittings are ordered by selecting components from the parts shown to the right and on the next page.

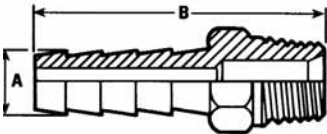
Fittings are intended for use with hose clamps or brass ferrules.

Dimensions are in inches unless otherwise specified.

Construction

- Machined from 360 alloy brass
- Pipe Thread manufactured to dryseal specifications
- 3/16" ID Hose Barb Stems contain three barbs; 1/4" ID and larger contain four barbs.

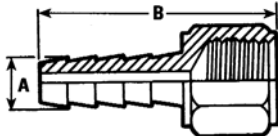
NPT Male/Hose Barb



SIZE	NPT THREAD	FITTING PART #	LENGTH B	HEX
3/16	1/8-27	3980-77320	1.36	7/16
3/16	1/4-18	3980-77420‡	1.54	9/16
1/4	1/8-27	3980-71720‡	1.58	1/2
1/4	1/4-18	3980-71820	1.76	9/16
1/4	3/8-18	3980-71920	1.76	11/16
3/8	1/4-18	3980-72020	1.76	9/16
3/8	3/8-18	3980-72120	1.76	11/16
3/8	1/2-24	3980-72220	1.97	7/8
1/2	3/8-18	3980-77520	1.76	11/16
1/2	1/2-14	3980-77620	1.97	7/8
1/2	3/4-14	3980-77920‡	1.97	1-1/16
3/4	1/2-14	3980-77720‡	2.19	7/8
3/4	3/4-14	3980-77820‡	2.19	1-1/16

‡ Run-to-order product. Contact your Eaton representative for details.

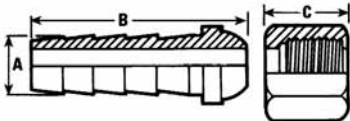
NPT Female/Hose Barb



SIZE	NPT THREAD	FITTING PART #	LENGTH B	HEX
3/16	1/4-18	3980-82320‡	1.44	5/8
1/4	1/4-18	3980-71520	1.66	5/8
3/8	1/4-18	3980-84420‡	1.66	5/8
3/8	3/8-18	3980-71620	1.66	3/4

‡ Run-to-order product. Contact your Eaton representative for details.

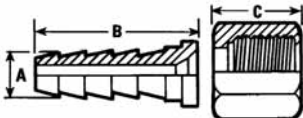
NPS Female Swivel/Hose Barb Ball Seat Type



SIZE A	NPS THREAD	FITTING PART #	STEM LENGTH B	NUT LENGTH C	HEX
3/16	1/4-18	3983-24412‡	1.17	.53	5/8
1/4	1/4-18	3983-24413	1.39	.53	5/8
3/8	3/8-18	3983-24605	1.45	.63	3/4
1/2	1/2-14	3983-24802	1.54	.69	15/16
3/4	3/4-14	3983-25202‡	1.69	.75	1-1/8

‡ Run-to-order product. Contact your Eaton representative for details.

Female Swivel/Hose Barb 37°JIC/ 45° SAE



SIZE A	TUBE O.D.	THREAD	FITTING PART #	STEM LENGTH B	NUT LENGTH C	HEX
3/16	1/4	7/16-20	3983-54416	1.02	.60	9/16
1/4	1/4	7/16-20	3983-54417	1.24	.60	9/16
1/2	1/2	3/4-16	3983-54806	1.34	.84	7/8
3/8	3/8	5/8-18	3983-A0606	1.27	.68	3/4
1/4	3/8	9/16-18	3983-54614	1.31	.69	11/16
3/8	3/8	9/16-18	3983-54615	1.31	.69	11/16

390C Brass Hose Fittings

390C Series Brass Fittings are ordered by selecting components from the parts shown to the right and on the previous page.

Fittings are intended for use with hose clamps or brass ferrules.

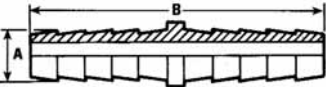
Dimensions are in inches unless otherwise specified.

*Contact Customer Support for 390C Series Swaging Pusher recommendations.

Construction

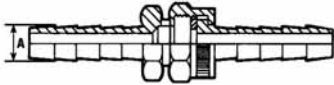
- Machined from 360 alloy brass
- Pipe Thread manufactured to dryseal specifications
- 3/16" ID Hose Barb Stems contain three barbs; 1/4" ID and larger contain four barbs.

Hose Splicer



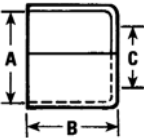
SIZE A	FITTING PART #	LENGTH B
1/4	3980-82920	2.03
3/8	3980-83020	2.06
1/2	3980-83120	2.06
3/4	3680-83220	2.50

Garden Hose Fitting Set



HOSE I.D. A (BOTH FITTINGS)	THREAD	FITTING PART #
1/2	3/4-11-1/2	3983-GHS01
3/4	3/4-11-1/2	3983-GHS02

Brass Ferrule



SIZE	FITTING PART #	FERRULE I.D. A	FERRULE LENGTH B	HOSE SIZE C
3/16	3981-30220	.400	.47	.27
1/4	3981-30320	.500	1.00	.34
3/8	3981-19120	.656	1.00	.44
1/2	3981-30420	.812	1.00	.63
3/4	3981-30520	1.150	.88	.88