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# Camppbell Fittings

JULY 2013

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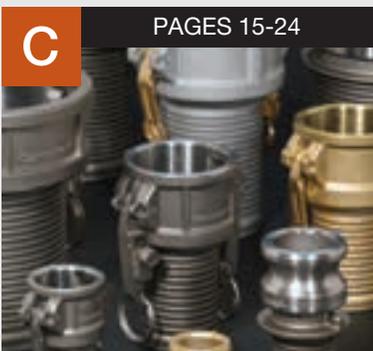
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# Campbell Coupling Selection Guide

From the Selection Guide below, choose an appropriate coupling based on the hose type and application working pressure.

Hose construction will affect the working pressure of a hose system. The following chart outlines the maximum working pressure of each Campbell coupling based on the type and size of hose used and identifies the Campbell catalog section in which the coupling can be found.

Hose System Components			MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1													
Hose System Components			Hose Size													
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8	10	12	
<b>A</b>	Combination Nipple	Short Sleeve	Rubber	400	350	300	275	250	225	225	225	175	150	125	75	Call
	Combination Nipple	Short Sleeve	Chemical	200	200	200	140	130	120	110	100	50	-	-	-	-
	Combination Nipple	Short Sleeve	PVC	125	125	100	90	85	65	60	55	40	30	20	-	-
	Pin Lug Coupling	Short Sleeve	Rubber	-	-	-	275	250	225	210	200	175	150	100	-	-
	Pin Lug Coupling	Short Sleeve	PVC	-	-	-	90	85	65	60	55	40	30	20	-	-
	Ball & Socket Coupling <sup>3,6</sup>	Short Sleeve	Rubber	-	-	-	-	-	300 <sup>3</sup>	-	250 <sup>3</sup>	225 <sup>3</sup>	140 <sup>3</sup>	60 <sup>3</sup>	-	-
	Ball & Socket Coupling <sup>3,6</sup>	Short Sleeve	PVC	-	-	-	-	170 <sup>3</sup>	-	140 <sup>3</sup>	100 <sup>3</sup>	80 <sup>3</sup>	50 <sup>3</sup>	-	-	
<b>B</b>	Crimpology Nipple	Ferrule	Chem/Rubber	-	-	500	350	325	300	275	250	250	225	-	-	-
	Crimpology Nipple	Ferrule	Soft	-	-	200	175	150	150	125	100	75	50	-	-	-
	FRAC Crimpology Nipple	Ferrule	Rubber	-	-	-	-	-	-	-	-	400	-	-	-	-
	Long Shank Nipple	Long Ferrule	Rubber	-	-	-	-	1000	1000	650	600	500	-	-	-	-
	206 Hose Union	Long Ferrule	Rubber	-	-	-	-	-	-	-	-	500	-	-	-	-
	Crimpology Flange (Steel) <sup>4</sup>	Ferrule	Chem/Rubber	-	-	-	-	285	285	275	250	250	225	-	-	-
	Crimpology Flange (SS) <sup>4</sup>	Ferrule	Chem/Rubber	-	-	-	-	230	230	230	230	230	225	-	-	-
<b>C</b>	Campbell COBRA Cam & Groove (SS) <sup>5</sup>	Ferrule	Chem/Rubber	-	-	250	-	250	250	150	150	100	-	-	-	-
	Campbell COBRA Cam & Groove (Alum) <sup>5</sup>	Ferrule	Chem/Rubber	-	-	-	-	250	200	150	125	75	-	-	-	-
<b>D</b>	Viton Ground Joint Coupling	Staked Ferrule	Steam	1250	1250	1250	-	-	-	-	-	-	-	-	-	-
	Viton Ground Joint/Air Hammer Cplg	Long Ferrule	Rubber	1000	1000	1000	1000	1000	1000	650	500	400	-	-	-	-
	Male Stem	Long Ferrule	Rubber	1000	1000	1000	1000	1000	1000	650	500	400	-	-	-	-
	Male Stem	Staked Ferrule	Steam	1250	1250	1250	-	-	-	-	-	-	-	-	-	-
	Viton Ground Joint/Air Hammer Cplg	U-Bolt Clamp	Rubber/Steam	1500	1250	1250	1250	1250	1250	800	500	500	-	-	-	-
	Male Stem and Mender	U-Bolt Clamp	Rubber/Steam	1500	1250	1250	1250	1250	800	500	500	-	-	-	-	-
<b>E</b>	UniversaLock <sup>6</sup>	Ferrule	Air	300	300	300	-	-	-	-	-	-	-	-	-	-
	UniversaLock <sup>6</sup>	Bolt Clamp	Air	150	150	150	-	-	-	-	-	-	-	-	-	-
	Universal <sup>6</sup>	Ferrule	Air	150	150	150	-	-	-	-	-	-	-	-	-	-
	Universal <sup>6</sup>	Bolt Clamp	Air	150	150	150	-	-	-	-	-	-	-	-	-	-
	Single-Lock Coupling	Ferrule	Air	300	300	300	-	-	-	-	-	-	-	-	-	-
	Double-Lock Coupling	Ferrule	Air	300	300	300	-	-	-	-	-	-	-	-	-	-
<b>F</b>	ChemJoint/Male Stem	Ferrule	Chemical	350	400	450	325	250	250	225	225	200	-	-	-	-
	ChemJoint/Male Stem	Ferrule	Rubber	350	400	450	425	400	350	325	300	250	-	-	-	-
	ChemJoint Weld-On and Union	None	None	-	800	800	-	650	600	-	600	-	-	-	-	-

HOSE SYSTEM PRESSURE DERATING MULTIPLIERS FOR ELEVATED TEMPERATURES (°F)*										
Hose Type	70°	90°	150°	200°	250°	300°	350°	400°	450°	500°
Steam, Hot Tar, Asphalt	1.00	0.95	0.81	0.68	0.56	0.44	0.32	0.20	0.08	N/R
PVC	1.00	0.82	0.30	N/R						
All other	1.00	0.91	0.64	0.42	0.20	N/R	N/R	N/R	N/R	N/R
No hose: weld-on or union	1.00	1.00	0.97	0.95	0.92	0.89	0.86	0.84	0.81	N/R

\* System temperature is affected by both the media and the environment.

N/R means NOT RECOMMENDED!

- 1) For normal fluids (not hazardous, combustible, flammable, volatile, corrosive, ammonia or LPG). Individual testing should be employed for non-normal fluids to ensure capability. Pressures shown are only valid for the fitting/coupling/attachment and hose combinations indicated and for their threaded mating parts. System working pressure does not include end pull forces. Not for plastic fittings/couplings. All hose systems must be assembled using Campbell procedures and crimp specifications. See elevated temperature derating chart above. Consult factory for reduced temperatures. **Never exceed the working pressure of the lowest rated component in the hose system.** Maximum working pressure includes the highest pressure the system will experience, such as spikes, surges, and water hammer effects. (For example: If a system consists of a hose rated to 150 PSI and the couplings are rated to 500 PSI, the system should never be used in excess of 150 PSI.)

- 2) Hose descriptions: **Air** - any smooth bore rubber air or water hose. Includes most general purpose hose; **Chemical** - any smooth bore rubber chemical hose, including plastic lined (PTFE, UHMW, XLPE). Does not include soft tube hose; **PVC** - any smooth bore PVC or vinyl hose; **Rubber** - any smooth bore rubber hose except steam, hot tar & asphalt, chemical, and soft tube hose; **Soft** - any smooth bore rubber hose with a thick, soft tube. Usually gum rubber and some food-grade hose; **Steam** - includes hot tar and asphalt

3) Ball & Socket pressure ratings are based on 1.5 x WP.

4) Due to limitations with flanges, consult factory for temperatures other than 70°F.

5) Campbell COBRA Cam & Groove Couplings are identified by the name "Campbell" on the body, by the ferrule interlock groove, and by the part number, which includes a "C" suffix. Not for air or gas service.

6) Maximum temperature 160°F.

## Hose Assemblies vs. Hose Systems

A *hose assembly* is a collection of components using attachments, such as band clamps or bolt clamps.

A *hose system* uses Campbell's integrated-designed fittings, couplings, ferrules, sleeves, or U-bolt clamps and is assembled using Campbell crimping procedures and specifications. A hose

specific hoses can be provided upon request.

## The Safety Factor

The RMA requires that hose working pressures include a safety factor commensurate with their intended application. Most hoses are required to meet a 4x safety factor, except the following: Water hose rated under 150 PSI requires a 3x safety factor; Steam hose requires a 10x safety factor; and Hose conveying gas in a liquid state requires a 5x safety factor. (For example: a 150 PSI rated air hose has a 4x safety factor

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**CampbellCrimpnology™** offers crimping flexibility for your multi-purpose hose applications.



## COMBINATION NIPPLES AND MENDERS

### Features & Benefits

- Maximum number of serrations for maximum holding power.
- Long lead serration for easier hose insertion.
- Formed hex wrench area on 3/4" through 1-1/2" combination nipples for easier installation.



### Recommended Hose Attachment

- Sleeves (Section G)
- Preformed Bands (Section I)

### Recommended Use

- Liquid, bulk handling, low-pressure air

## SUCTION HOSE COUPLINGS

### Features & Benefits

- Maximum number of serrations for maximum holding power.
- Long lead serration for easier hose insertion.
- Suction Couplings machined from pipe eliminate porosity and parting lines, improving sealing and retention.

### Recommended Hose Attachment

- Sleeves (Section G)
- Preformed Bands (Section I)

### Recommended Use

- Liquid, bulk handling



*Manufacturing Suction Hose Couplings from pipe eliminates wide, flat mating surfaces at the male and female halves.*

## BALL & SOCKET COUPLINGS

### Features & Benefits

- Proven, Campbell-style machined hose shank is designed for crimping (crimp specs available).
- Shank design dramatically improves sealing and retention, cuts installation time in half.
- Hose shanks are welded to ball & socket ball ends.

### Recommended Hose Attachment

- Sleeves (Section G)

### Recommended Use

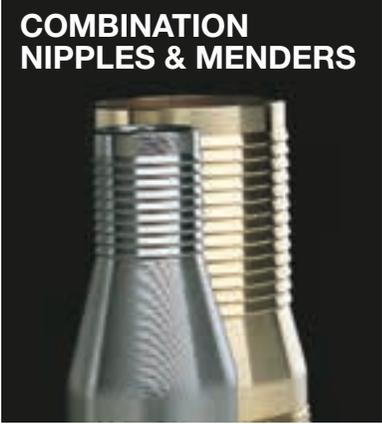
- Water Suction/Discharge
- Sewage bypass



*Bauer-style vs. Campbell Ball & Socket*

MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1

Hose System Components			Hose Size												
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8	10	12
Combination Nipple	Short Sleeve	Rubber	400	350	300	275	250	225	210	200	175	150	100	75	Call
Combination Nipple	Short Sleeve	Chemical	200	200	200	140	130	120	110	100	50	-	-	-	-
Combination Nipple	Short Sleeve	PVC	150	125	100	90	85	65	60	55	40	30	20	-	-
Suction Coupling	Short Sleeve	Rubber	-	-	-	275	250	225	210	200	175	150	100	-	-
Suction Coupling	Short Sleeve	PVC	-	-	-	90	85	65	60	55	40	-	-	-	-
Ball & Socket Coupling	Short Sleeve	Rubber	-	-	-	-	-	200*	210*	250*	275*	300*	350*	400*	450*



**COMBINATION NIPPLES & MENDERS**

**THREADED**



**Steel**

hose size	part number	list each
1/2	HAS-2	4.22
3/4	HAS-3	4.32
1	HAS-4	5.03
1-1/4	HAS-5	6.49
1-1/2	HAS-6	7.26
2	HAS-8	9.45
2-1/2	HAS-10	19.56
3	HAS-12	22.97
4	HAS-16	36.12
5	HAS-20	80.60
6	HAS-24	92.81
8	HAS-32	157.14
10	HAS-40	267.62
12	HAS-48	371.13

**Plated Steel**

1/2	HAPS-2	4.68
3/4	HAPS-3	4.83
1	HAPS-4	5.84
1-1/4	HAPS-5	6.92
1-1/2	HAPS-6	8.17
2	HAPS-8	11.41
2-1/2	HAPS-10	21.86
3	HAPS-12	26.48
4	HAPS-16	40.95
5	HAPS-20	91.99
6	HAPS-24	105.57
8	HAPS-32	203.88
10	HAPS-40	337.27
12	HAPS-48	482.01

**316 Stainless**

1/2	HASS-2	20.89
3/4	HASS-3	20.94
1	HASS-4	21.04
1-1/4	HASS-5	26.83
1-1/2	HASS-6	32.27
2	HASS-8	44.55
2-1/2	HASS-10	81.92
3	HASS-12	116.23
4	HASS-16	182.36
5	HASS-20	400.95
6	HASS-24	503.12
8	HASS-32	965.25

**Hastelloy®**

1	HAHAST-4	POR
1-1/2	HAHAST-6	POR
2	HAHAST-8	POR
3	HAHAST-12	POR
4	HAHAST-16	POR

**Brass**

1/2	HAB-2	17.13
3/4	HAB-3	24.58
1	HAB-4	24.76
1-1/4	HAB-5	31.41
1-1/2	HAB-6	35.21
2	HAB-8	50.33
2-1/2	HAB-10	88.33
3	HAB-12	120.73
4	HAB-16	247.52

**Aluminum**

1/2	HAA-2	15.18
3/4	HAA-3	14.41
1	HAA-4	14.41
1-1/4	HAA-5	16.00
1-1/2	HAA-6	16.33
2	HAA-8	19.68
2-1/2	HAA-10	48.00
3	HAA-12	48.00
4	HAA-16	76.78
5	HAA-20	167.97
6	HAA-24	188.75

**Poly-Glass**

1/2	HAPP-2	0.91
3/4	HAPP-3	1.03
1	HAPP-4	1.47
1-1/4	HAPP-5	3.17
1-1/2	HAPP-6	5.86
2	HAPP-8	7.41
3	HAPP-12	13.96
4	HAPP-16	44.09

**BEVELED**



**Steel**

hose size	part number	list each
3/4	HAS-3 BV	6.48
1	HAS-4 BV	6.56
1-1/4	HAS-5 BV	8.69
1-1/2	HAS-6 BV	8.80
2	HAS-8 BV	11.20
2-1/2	HAS-10 BV	22.21
3	HAS-12 BV	26.35
4	HAS-16 BV	40.08
5	HAS-20 BV	86.81
6	HAS-24 BV	101.19
8	HAS-32 BV	181.28
10	HAS-40 BV	320.17
12	HAS-48 BV	453.82

**316 Stainless**

3/4	HASS-3 BV	25.54
1	HASS-4 BV	26.13
1-1/4	HASS-5 BV	38.97
1-1/2	HASS-6 BV	34.17
2	HASS-8 BV	54.39
2-1/2	HASS-10 BV	96.71
3	HASS-12 BV	122.00
4	HASS-16 BV	182.72
6	HASS-24 BV	502.28

**GROOVED**



**Steel**

hose size	part number	list each
3/4	HAGS-3	14.89
1	HAGS-4	10.89
1-1/4	HAGS-5	11.94
1-1/2	HAGS-6	14.32
2	HAGS-8	17.63
2-1/2	HAGS-10	23.71
3	HAGS-12	25.54
4	HAGS-16	37.37
5	HAGS-20	80.79
6	HAGS-24	99.59
8	HAGS-32	171.20
10	HAGS-40	313.73
12	HAGS-48	420.57

**316 Stainless**

1	HAGSS-4	42.57
1-1/4	HAGSS-5	45.87
1-1/2	HAGSS-6	46.04
2	HAGSS-8	52.41
3	HAGSS-12	142.92
4	HAGSS-16	198.96

**REDUCER**



**Steel**

npt x hose	part number	list each
1 x 3/4	HRS-4X3	11.66
1-1/4 x 1	HRS-5X4	15.34
1-1/2 x 1-1/4	HRS-6X5	13.86
2 x 1-1/2	HRS-8X6	16.96
2-1/2 x 2	HRS-10X8	30.96
3 x 2-1/2	HRS-12X10	37.32
4 x 3	HRS-16X12	75.79

**Plated Steel**

1 x 3/4	HRPS-4X3	11.75
1-1/4 x 1	HRPS-5X4	15.40
1-1/2 x 1-1/4	HRPS-6X5	14.02
2 x 1-1/2	HRPS-8X6	17.63
2-1/2 x 2	HRPS-10X8	32.81
3 x 2-1/2	HRPS-12X10	38.94
4 x 3	HRPS-16X12	78.17

**316 Stainless**

1 x 3/4	HRSS-4X3	46.16
1-1/4 x 1	HRSS-5X4	56.04
1-1/2 x 1-1/4	HRSS-6X5	83.40
2 x 1-1/2	HRSS-8X6	98.91
2-1/2 x 2	HRSS-10X8	118.67

*continued on next page*

Other configurations and materials not listed above can be quoted upon request.

**TOE NIPPLES AND  
REDUCING NIPPLES**



**EXPANDER**



**Steel**

npt x hose	part number	list each
3/4 x 1	HES-3X4	7.67
1 x 1-1/4	HES-4X5	9.70
1-1/4 x 1-1/2	HES-5X6	10.37
1-1/2 x 2	HES-6X8	19.33
2 x 2-1/2	HES-8X10	29.67
2-1/2 x 3	HES-10X12	36.43
3 x 4	HES-12X16	73.35

**Plated Steel**

3/4 x 1	HEPS-3X4	8.15
1 x 1-1/4	HEPS-4X5	10.32
1-1/4 x 1-1/2	HEPS-5X6	10.84
1-1/2 x 2	HEPS-6X8	21.05
2 x 2-1/2	HEPS-8X10	30.92
2-1/2 x 3	HEPS-10X12	38.49
3 x 4	HEPS-12X16	84.21

**316 Stainless**

1/2 x 3/4	HESS-2X3	33.48
3/4 x 1	HESS-3X4	31.89
1 x 1-1/4	HESS-4X5	71.72
1 x 1-1/2	HESS-4X6	79.69
1-1/4 x 1-1/2	HESS-5X6	82.90
1-1/4 x 2	HESS-5X8	87.68
1-1/2 x 2	HESS-6X8	95.66
2 x 2-1/2	HESS-8X10	119.55

**LONG SHANK**



**Steel**

hose size	part number	list each
1-1/4	HALS-5	18.51
1-1/2	HALS-6	21.28
2	HALS-8	26.09
2-1/2	HALS-10	46.21
3	HALS-12	48.10
4	HALS-16	68.95

**Plated Steel**

1-1/4	HALPS-5	18.66
1-1/2	HALPS-6	21.64
2	HALPS-8	26.47
2-1/2	HALPS-10	46.35
3	HALPS-12	48.90
4	HALPS-16	70.31

**316 Stainless**

1-1/4	HALSS-5	64.25
1-1/2	HALSS-6	70.83
2	HALSS-8	81.90
2-1/2	HALSS-10	115.64
3	HALSS-12	149.36
4	HALSS-16	353.35

**MENDER**



**Steel**

hose size	part number	list each
3/8	HCS-38	7.34
1/2	HCS-2	6.63
3/4	HCS-3	5.39
1	HCS-4	5.50
1-1/4	HCS-5	8.42
1-1/2	HCS-6	8.25
2	HCS-8	10.89
2-1/2	HCS-10	21.05
3	HCS-12	22.13
4	HCS-16	37.45
5	HCS-20	127.35
6	HCS-24	77.86
8	HCS-32	209.48
10	HCS-40	361.17
12	HCS-48	574.28

**Plated Steel**

3/8	HCPS-38	7.79
1/2	HCPS-2	7.04
3/4	HCPS-3	5.71
1	HCPS-4	5.81
1-1/4	HCPS-5	8.91
1-1/2	HCPS-6	8.67
2	HCPS-8	11.51
2-1/2	HCPS-10	22.66
3	HCPS-12	23.28
4	HCPS-16	40.13
5	HCPS-20	135.35
6	HCPS-24	82.18
8	HCPS-32	220.32
10	HCPS-40	381.53
12	HCPS-48	604.08

**316 Stainless**

3/4	HCSS-3	56.81
1	HCSS-4	63.29
1-1/4	HCSS-5	68.17
1-1/2	HCSS-6	80.04
2	HCSS-8	81.14
3	HCSS-12	186.61
4	HCSS-16	219.08

**Brass**

3/4	HCB-3	14.25
1	HCB-4	14.67
1-1/4	HCB-5	23.75
1-1/2	HCB-6	38.54
2	HCB-8	42.42

**TOE NIPPLES**



**Steel**

npt x length	part number	list each
1/2 x 1-1/2	RN-2S	1.95
1/2 x 2	RN-2	1.95
3/4 x 1-1/2	RN-3S	2.41
3/4 x 2	RN-3	2.43
1 x 2	RN-4	3.55
1-1/4 x 2	RN-5	4.63
1-1/4 x 2-1/2	RN-5L	5.20
1-1/2 x 2	RN-6	5.53
1-1/2 x 2-1/2	RN-6L	5.91
1-1/2 x 3	RN-6XL	6.72
2 x 2	RN-8	6.89
2 x 2-1/2	RN-8L	7.66
2 x 3	RN-8XL	8.77
2-1/2 x 2-1/2	RN-10S	24.88
3 x 3	RN-12	27.95
3 x 3-1/2	RN-12L	29.96
3 x 4	RN-12XL	33.26

**304 Stainless**

1/2 x 1-1/2	RNS-2S	9.01
1/2 x 2	RNS-2	9.39
3/4 x 1-1/2	RNS-3S	9.56
3/4 x 2	RNS-3	9.78
1 x 2	RNS-4	14.13
1-1/4 x 2	RNS-5	14.73
1-1/4 x 2-1/2	RNS-5L	15.94
1-1/2 x 2	RNS-6	16.99
1-1/2 x 2-1/2	RNS-6L	17.24
1-1/2 x 3	RNS-6XL	18.04
2 x 2	RNS-8	23.02
2 x 2-1/2	RNS-8L	23.75
2 x 3	RNS-8XL	28.04
2-1/2 x 2-1/2	RNS-10S	66.31
3 x 3	RNS-12	70.68
3 x 3-1/2	RNS-12L	76.63
3 x 4	RNS-12XL	89.40

**REDUCING NIPPLES**



**Steel**

npt x npt	part number	list each
3/4 x 1/2	NS 3-2	9.62
1 x 3/4	NS 4-3	10.30
1-1/4 x 1	NS 5-4	15.09
1-1/2 x 1-1/4	NS 6-5	16.31
2 x 1-1/2	NS 8-6	17.15
2-1/2 x 2	NS 10-8	34.30

**SUCTION HOSE COUPLINGS**



**COMPLETE SET**



**Shanks: Plated Steel  
Nut: Brass**

hose size	part number	list each
1-1/4	CSB-5	44.04
1-1/2	CSB-6	30.90
2	CSB-8	40.28
2-1/2	CSB-10	57.67
3	CSB-12	68.48
4	CSB-16	110.23
6	CSB-24	228.44
8	CSB-32	763.86

**Shanks: Plated Steel  
Nut: Ductile Iron**

hose size	part number	list each
1-1/2	CSD-6	30.71
2	CSD-8	41.26
2-1/2	CSD-10	60.19
3	CSD-12	70.24
4	CSD-16	111.91
6	CSD-24	241.55

**Shanks: Brass**

**Nut: Brass**

hose size	part number	list each
1-1/4	CBB-5	53.01
1-1/2	CBB-6	47.83
2	CBB-8	63.46
2-1/2	CBB-10	109.08
3	CBB-12	162.66
4	CBB-16	275.70

**Shanks: 316 Stainless  
Nut: 316 Stainless**

hose size	part number	list each
1-1/2	CSS-6	148.47
2	CSS-8	201.97
3	CSS-12	348.73

**FEMALE SHANK**



**Shank: Plated Steel  
Nut: Brass**

hose size	part number	list each
1-1/4	FSB-5	26.39
1-1/2	FSB-6	17.90
2	FSB-8	20.49
2-1/2	FSB-10	29.63
3	FSB-12	38.02
4	FSB-16	65.76
6	FSB-24	129.84
8	FSB-32	599.56

**Shank: Plated Steel  
Nut: Ductile Iron**

hose size	part number	list each
1-1/2	FSD-6	17.65
2	FSD-8	21.39
2-1/2	FSD-10	32.14
3	FSD-12	39.83
4	FSD-16	67.44
6	FSD-24	143.03

**Shank: Brass**

**Nut: Brass**

hose size	part number	list each
1-1/4	FBB-5	32.52
1-1/2	FBB-6	28.20
2	FBB-8	38.69
2-1/2	FBB-10	69.42
3	FBB-12	91.65
4	FBB-16	157.30

**Shank: 316 Stainless  
Nut: 316 Stainless**

hose size	part number	list each
1-1/2	FSS-6	117.38
2	FSS-8	157.09
3	FSS-12	224.42

**MALE SHANK**



**Plated Steel**

hose size	part number	list each
1-1/4	MS-5	17.16
1-1/2	MS-6	12.71
2	MS-8	19.30
2-1/2	MS-10	27.30
3	MS-12	29.62
4	MS-16	43.25
6	MS-24	95.89
8	MS-32	159.77

**Brass**

hose size	part number	list each
1-1/4	MB-5	20.48
1-1/2	MB-6	19.76
2	MB-8	23.81
2-1/2	MB-10	49.60
3	MB-12	70.62
4	MB-16	118.52

**316 Stainless Steel**

hose size	part number	list each
1-1/2	MSS-6	31.08
2	MSS-8	44.89
3	MSS-12	124.30

**FEMALE LONG SHANK**



**Shank: Plated Steel  
Nut: Brass**

hose size	part number	list each
1-1/2	LSB-6	43.86
2	LSB-8	51.17
2-1/2	LSB-10	83.27
3	LSB-12	77.14
4	LSB-16	121.79

**Shank: Brass**

**Nut: Brass**

hose size	part number	list each
1-1/2	LBB-6	56.89
2	LBB-8	70.61
2-1/2	LBB-10	106.88
3	LBB-12	151.01
4	LBB-16	247.11

**Shank: 316 Stainless**

**Nut: 316 Stainless  
(includes Teflon Washer)**

hose size	part number	list each
1-1/2	LSS-6	138.11
2	LSS-8	172.64
3	LSS-12	233.05

**FEMALE LONG SHANK  
(hex nut)**



**Shank: Brass**

**Hex Nut: Brass**

hose size	part number	list each
1-1/2	XLFB-6	89.25
2	XLFB-8	103.14
2-1/2	XLFB-10	138.86
3	XLFB-12	196.35
4	XLFB-16	376.86

**MALE LONG SHANK**



**Plated Steel**

hose size	part number	list each
1-1/2	LMS-6	21.05
2	LMS-8	26.31
2-1/2	LMS-10	43.86
3	LMS-12	43.43
4	LMS-16	66.67

**Brass**

hose size	part number	list each
1-1/2	LMB-6	41.66
2	LMB-8	61.48
2-1/2	LMB-10	89.25
3	LMB-12	137.86
4	LMB-16	322.81

**316 Stainless**

hose size	part number	list each
1-1/2	LMSS-6	60.41
2	LMSS-8	88.04
3	LMSS-12	160.55

## NH SUCTION HOSE COUPLINGS (NST threads)



### COMPLETE SET (NH)



**Shanks: Plated Steel**

**Nut: Brass**

hose size	part number	list each
1-1/2	NHS-6	53.94
2-1/2	NHS-10	102.98

**Shanks: Brass**

**Nut: Brass**

1-1/2	NHB-6	85.00
2-1/2	NHB-10	171.92

### FEMALE SHANK (NH)



**Shanks: Plated Steel**

**Nut: Brass**

hose size	part number	list each
1-1/2	FHS-6	31.87
2-1/2	FHS-10	65.38

**Shanks: Brass**

**Nut: Brass**

1-1/2	FHB-6	38.64
2-1/2	FHB-10	81.12

### MALE SHANK (NH)



**Plated Steel**

hose size	part number	list each
1-1/2	MHS-6	22.06
2-1/2	MHS-10	37.60

**Brass**

1-1/2	MHB-6	46.35
2-1/2	MHB-10	90.79

## WASHER



**Neoprene (NPSM)**

hose size	part number	list each
1-1/4	WN-5	0.72
1-1/2	WN-6	0.72
2	WN-8	0.80
2-1/2	WN-10	0.95
3	WN-12	1.49
4	WN-16	1.85
6	WN-24	7.50
8	WN-32	16.23

**Teflon® (NPSM)**

1-1/2	WT-6	14.02
2	WT-8	16.52
3	WT-12	22.71

**Neoprene (NH)**

1-1/2	NHW-6	3.18
2-1/2	NHW-10	3.18

## SPANNER WRENCH



size	part number	list each
1-1/2	SW-6	9.75
2	SW-8	9.75
3	SW-12	11.68
4	SW-16	11.68
6	SW-32	55.61
8	SW-32	55.61

## ADJUSTABLE HYDRANT WRENCH



part number	list each
AHW-1	53.29

- Adjustable for 1-1/4" square nuts and pentagon hydrant nuts up to 1-3/4" point to flat.
- Spanner hook for 1-1/2" through 6" pin lug nuts.
- 18" overall length.
- Sold in 5 per carton quantity.

## FOOT VALVES & STRAINERS



### ROUND HOLE STEEL STRAINER



npsm size	part number	list each
1-1/2	RHS-6	21.33
2	RHS-8	24.34
2-1/2	RHS-10	27.94
3	RHS-12	33.99
4	RHS-16	47.28
6	RHS-24	132.96
8	RHS-32	295.49

### SQUARE HOLE STEEL STRAINER



npsm size	part number	list each
1-1/2	SHS-6	22.60
2	SHS-8	25.70
2-1/2	SHS-10	29.55
3	SHS-12	37.76
4	SHS-16	52.54
6	SHS-24	147.76

### TOP HOLE STEEL STRAINER



npsm size	part number	list each
1-1/2	THS-6	65.33
2	THS-8	73.10
3	THS-12	165.11

### BOTTOM HOLE STEEL STRAINER



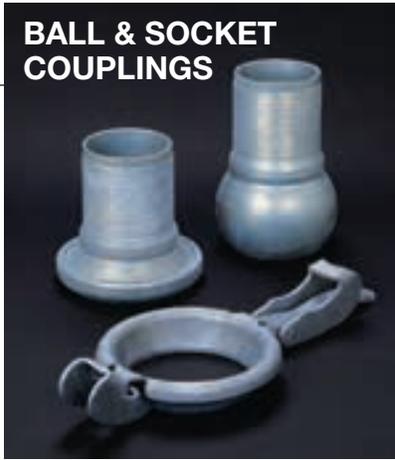
npsm size	part number	list each
1-1/2	BHS-6	70.36
2	BHS-8	79.79
3	BHS-12	178.67

### FOOT VALVE (painted cast iron)



npt size	part number	list each
1-1/2	FV-6	32.50
2	FV-8	47.80
2-1/2	FV-10	61.05
3	FV-12	79.60
4	FV-16	132.34
6	FV-24	326.56
8	FV-32	649.43

Foot Valve components are available upon request.



**FEMALE\***  
(socket x machined hose end)



Plated Steel			
hose size	part number	list each	
2	BFGS-8	61.32	
3	BFGS-12	86.26	
4	BFGS-16	133.12	
6	BFGS-24	279.12	
8	BFGS-32	436.36	

\*Sold without SBR ring gasket listed below

**MALE**  
(ball x machined hose end)



Plated Steel			
hose size	part number	list each	
2	BMGS-8	60.77	
3	BMGS-12	85.22	
4	BMGS-16	126.36	
6	BMGS-24	252.16	
8	BMGS-32	395.37	

**LEVER**



Galvanized Steel			
hose size	part number	list each	
2	BLGS-8	29.88	
3	BLGS-12	48.04	
4	BLGS-16	76.15	
6	BLGS-24	145.12	
8	BLGS-32	262.79	

**RING GASKET**



SBR			
hose size	part number	list each	
2	BSG-8	5.08	
3	BSG-12	6.15	
4	BSG-16	7.19	
6	BSG-24	14.17	
8	BSG-32	21.71	



**SLEEVES**  
for medium machined shank couplings



Plated Steel				
hose size	sleeve i.d.	part number	list each	
1/2	1	SPS050100S	4.73	
3/4	1-8/64	SPS075108S	4.90	
3/4	1-12/64	SPS075112S	4.90	
3/4	1-16/64	SPS075116S	4.90	
3/4	1-20/64	SPS075120S	4.90	
3/4	1-24/64	SPS075124S	4.90	
1	1-28/64	SPS100128S	4.70	
1	1-32/64	SPS100132S	4.70	
1	1-36/64	SPS100136S	4.70	
1	1-40/64	SPS100140S	4.70	
1	1-44/64	SPS100144S	4.70	
1	1-48/64	SPS100148S	4.70	
1-1/4	1-40/64	SPS125140S	4.70	
1-1/4	1-48/64	SPS125148S	4.70	
1-1/4	1-52/64	SPS125152S	4.70	
1-1/4	1-56/64	SPS125156S	4.70	
1-1/2	1-60/64	SPS150160S	4.94	
1-1/2	2	SPS150200S	4.94	
1-1/2	2-4/64	SPS150204S	4.94	
1-1/2	2-8/64	SPS150208S	4.94	
1-1/2	2-12/64	SPS150212S	4.94	
1-1/2	2-16/64	SPS150216S	4.94	
1-1/2	2-20/64	SPS150220S	4.94	
1-1/2	2-24/64	SPS150224S	4.94	
2	2-8/64	SPS200208S	5.99	
2	2-16/64	SPS200216S	5.99	
2	2-24/64	SPS200224S	5.99	
2	2-28/64	SPS200228S	5.99	
2	2-32/64	SPS200232S	5.99	
2	2-36/64	SPS200236S	5.99	
2	2-40/64	SPS200240S	5.99	
2	2-44/64	SPS200244S	5.99	
2	2-48/64	SPS200248S	5.99	
2	2-52/64	SPS200252S	5.99	
2	2-56/64	SPS200256S	5.99	
2	2-60/64	SPS200260S	5.99	
2	3	SPS200300S	5.99	
2-1/2	2-48/64	SPS250248S	8.18	
2-1/2	2-56/64	SPS250256S	8.18	
2-1/2	3	SPS250300S	8.18	
2-1/2	3-8/64	SPS250308S	8.18	
2-1/2	3-16/64	SPS250316S	8.18	

continued on next page

**Plated Steel Sleeves**

*(continued from previous page)*

2-1/2	3-24/64	SPS250324S	8.18
2-1/2	3-32/64	SPS250332S	8.18
3	3-8/64	SPS300308S	9.75
3	3-16/64	SPS300316S	9.75
3	3-24/64	SPS300324S	9.75
3	3-28/64	SPS300328S	9.75
3	3-32/64	SPS300332S	9.75
3	3-36/64	SPS300336S	9.75
3	3-40/64	SPS300340S	9.75
3	3-44/64	SPS300344S	9.75
3	3-48/64	SPS300348S	9.75
3	3-52/64	SPS300352S	9.75
3	3-56/64	SPS300356S	9.75
3	3-60/64	SPS300360S	9.75
3	4	SPS300400S	9.75
4	4-16/64	SPS400416S	13.14
4	4-24/64	SPS400424S	13.14
4	4-32/64	SPS400432S	13.14
4	4-36/64	SPS400436S	13.14
4	4-40/64	SPS400440S	13.14
4	4-44/64	SPS400444S	13.14
4	4-48/64	SPS400448S	13.14
4	4-52/64	SPS400452S	13.14
4	4-56/64	SPS400456S	13.14
4	4-60/64	SPS400460S	13.14
4	5	SPS400500S	13.14
5	5-36/64	SPS500536	32.09
5	5-48/64	SPS500548	32.09
5	5-60/64	SPS500560	32.09
6	6-16/64	SPS600616	36.76
6	6-24/64	SPS600624	36.76
6	6-32/64	SPS600632	36.76
6	6-40/64	SPS600640	36.76
6	6-48/64	SPS600648	36.76
6	6-56/64	SPS600656	36.76
6	7	SPS600700	36.76
6	7-8/64	SPS600708	36.76
6	7-16/64	SPS600716	36.76
6	7-24/64	SPS600724	36.76
8	8-16/64	SPS800816	62.46
8	8-32/64	SPS800832	62.46
8	8-48/64	SPS800848	62.46
8	9	SPS800900	62.46
8	9-16/64	SPS800916	62.46
8	9-32/64	SPS800932	62.46
8	9-48/64	SPS800948	62.46
10	10-32/64	SPS101032	118.00
10	10-48/64	SPS101048	118.00
10	10-56/64	SPS101056	118.00
10	11	SPS101100	118.00
10	11-16/64	SPS101116	118.00
10	11-32/64	SPS101132	118.00
10	11-48/64	SPS101148	118.00
12		SPS120XXX	POR

**304 Stainless**

1/2	1	SSS050100S	7.20
3/4	1-4/64	SSS075104S	7.20
3/4	1-8/64	SSS075108S	7.20
3/4	1-12/64	SSS075112S	7.20
3/4	1-16/64	SSS075116S	7.20
3/4	1-20/64	SSS075120S	7.20
3/4	1-24/64	SSS075124S	7.20

1	1-44/64	SSS100144S	7.20
1	1-48/64	SSS100148S	7.20
1-1/4	1-40/64	SSS125140S	8.58
1-1/4	1-48/64	SSS125148S	8.58
1-1/4	1-52/64	SSS125152S	8.58
1-1/4	1-56/64	SSS125156S	8.58
1-1/2	1-60/64	SSS150160S	8.58
1-1/2	2	SSS150200S	8.58
1-1/2	2-4/64	SSS150204S	8.58
1-1/2	2-8/64	SSS150208S	8.58
1-1/2	2-12/64	SSS150212S	8.58
1-1/2	2-16/64	SSS150216S	8.58
1-1/2	2-20/64	SSS150220S	8.58
1-1/2	2-24/64	SSS150224S	8.58
2	2-8/64	SSS200208S	12.33
2	2-16/64	SSS200216S	12.33
2	2-24/64	SSS200224S	12.33
2	2-28/64	SSS200228S	12.33
2	2-32/64	SSS200232S	12.33
2	2-36/64	SSS200236S	12.33
2	2-40/64	SSS200240S	12.33
2	2-44/64	SSS200244S	12.33
2	2-48/64	SSS200248S	12.33
2	2-52/64	SSS200252S	12.33
2	2-56/64	SSS200256S	12.33
2	2-60/64	SSS200260S	12.33
2	3	SSS200300S	16.08
2-1/2	3-8/64	SSS250308S	16.08
2-1/2	3-16/64	SSS250316S	16.08
2-1/2	3-24/64	SSS250324S	16.08
2-1/2	3-32/64	SSS250332S	16.08
3	3-8/64	SSS300308S	16.54
3	3-16/64	SSS300316S	16.54
3	3-24/64	SSS300324S	16.54
3	3-28/64	SSS300328S	16.54
3	3-32/64	SSS300332S	16.54
3	3-36/64	SSS300336S	16.54
3	3-40/64	SSS300340S	16.54
3	3-44/64	SSS300344S	16.54
3	3-48/64	SSS300348S	16.54
3	3-52/64	SSS300352S	16.54
3	3-56/64	SSS300356S	16.54
3	3-60/64	SSS300360S	16.54
4	4	SSS400400S	27.50
4	4-16/64	SSS400416S	27.50
4	4-24/64	SSS400424S	27.50
4	4-32/64	SSS400432S	27.50
4	4-36/64	SSS400436S	27.50
4	4-40/64	SSS400440S	27.50
4	4-44/64	SSS400444S	27.50
4	4-48/64	SSS400448S	27.50
4	4-52/64	SSS400452S	27.50
4	4-56/64	SSS400456S	27.50
4	4-60/64	SSS400460S	27.50
4	5	SSS400500S	27.50
6	6-16/64	SSS600616	69.10
6	6-24/64	SSS600624	69.10
6	6-32/64	SSS600632	69.10
6	6-40/64	SSS600640	69.10
6	6-48/64	SSS600648	69.10
6	6-56/64	SSS600656	69.10
6	7	SSS600700	69.10
6	7-8/64	SSS600708	69.10
6	7-16/64	SSS600716	69.10
6	7-24/64	SSS600724	69.10



**Campbell Fittings**

**B**

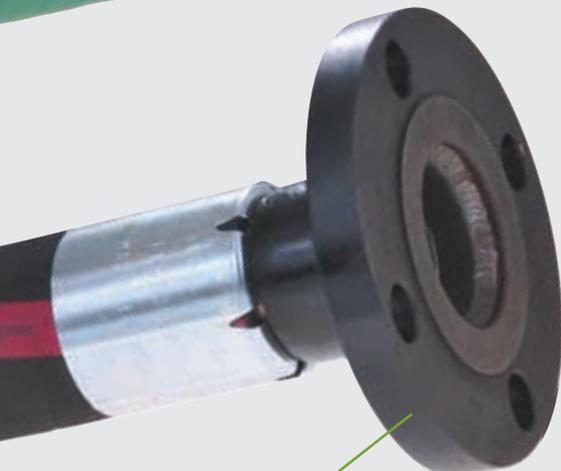


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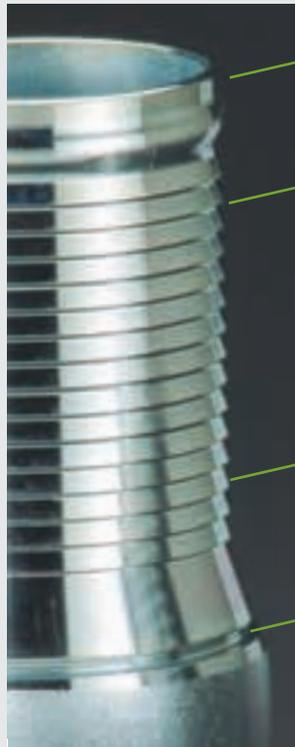
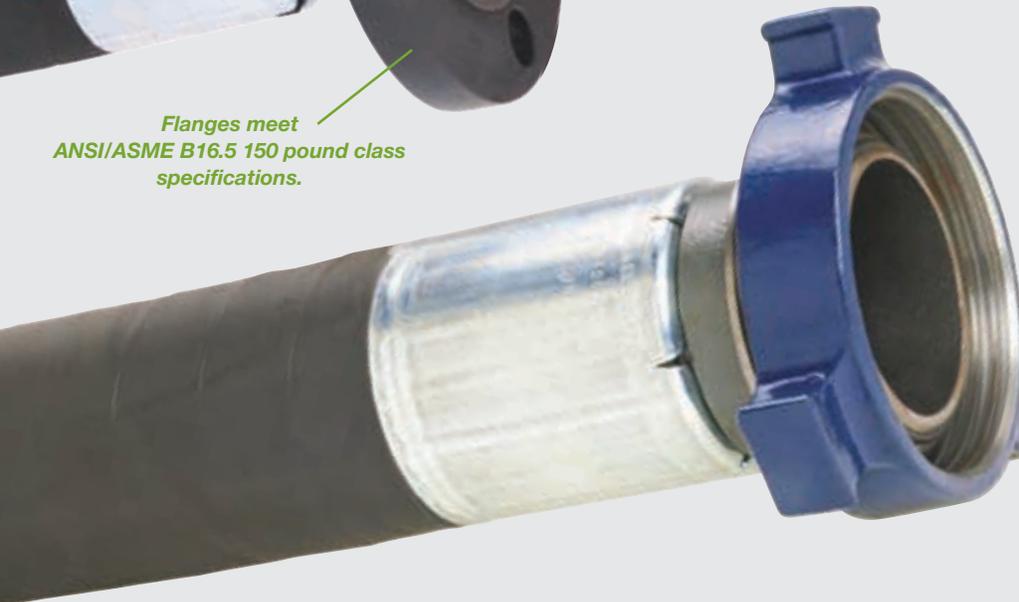
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**CampbellCrimpnoology™ offers crimping flexibility for your multi-purpose hose applications.**



Flanges meet  
ANSI/ASME B16.5 150 pound class specifications.



Smooth End Detail

Rounder Serrations

Sharper Serrations

Interlock Groove

Crimpnoology Nipple

**CRIMPNOLOGY NIPPLES**

**Features & Benefits**

- Designed for use with Campbell Interlocking Ferrules.
- Fittings use the same ferrules as Campbell COBRA Parts C and E, ChemJoint Couplings, and Goodyear InstaLock Cam & Groove Couplings to keep ferrule inventory low and flexible.
- Interlock groove on fitting locks ferrule into place for the ultimate in holding power.
- Graduated serration pattern (sharper near the interlock, rounder near the end, with smooth end detail to reduce potential failure caused by abrasion) grips, seals, and protects hose.
- Shank and ferrule lengths are matched for performance and to avoid potential hose tube or cover damage.
- Crimped assemblies are low profile and eliminate sharp edges from clamp buckles.

**Recommended Hose Attachment**

- Interlocking ferrules

**Recommended Use**

- Multi-purpose fluid, chemical, bulk handling

**Special Features**

- Crimpnoology Nipples provide an excellent fitting solution for medium-pressure applications such as “Frac Hose”, mud-pump hose, and other abusive applications.
- Long Shank Crimpnoology Nipples provide excellent sealing and retention for high-pressure applications (See ratings chart below).

MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1

Hose System Components			Hose Size										
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8
Crimpnoology Nipple	Ferrule	Chem/Rubber	-	-	500	350	325	300	275	250	250	225	-
Crimpnoology Nipple	Ferrule	Soft	-	-	200	175	150	150	125	100	75	-	-
Long Crimpnoology Nipple	Long Ferrule	Rubber	-	-	-	-	1000	1000	650	600	500	-	-
Crimpnoology Flange (Steel) <sup>3</sup>	Ferrule	Chem/Rubber	-	-	-	-	285	285	275	250	250	225	-
Crimpnoology Flange (SS) <sup>3</sup>	Ferrule	Chem/Rubber	-	-	-	-	230	230	230	230	230	-	-



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**CRIMPNOLOGY NIPPLES**



**THREADED**



**Plated Steel**

hose size	part number	list each
1	HAPS-4C	20.78
1-1/4	HAPS-5C	23.24
1-1/2	HAPS-6C	22.25
2	HAPS-8C	26.46
2-1/2	HAPS-10C	42.28
3	HAPS-12C	50.47
4	HAPS-16C	62.38
6	HAPS-24C	132.15

**316 Stainless**

1	HASS-4C	33.71
1-1/4	HASS-5C	47.92
1-1/2	HASS-6C	50.47
2	HASS-8C	62.43
2-1/2	HASS-10C	108.42
3	HASS-12C	133.62
4	HASS-16C	197.47
6	HASS-24C	730.10

**SCH. 80 THREADED (for 400 psi frac hose)**



**Steel**

hose size	part number	list each
4	FRAC-16C	74.00

Use only heavy duty FRAC ferrules on page 14

**SCH. 80 THREADED LONG SHANK**



**Steel**

hose size	part number	list each
1-1/2	HALPS-6C	37.05
2	HALPS-8C	38.16
2-1/2	HALPS-10C	64.25
3	HALPS-12C	85.56
4	HALPS-16C	126.32

**SQUARE CUT END**



**Steel**

hose size	part number	list each
1-1/2	HAS-6C SQ	22.54
2	HAS-8C SQ	26.75
2-1/2	HAS-10C SQ	40.58
3	HAS-12C SQ	47.53

**GROOVED**



**Steel**

hose size	part number	list each
1-1/2	HAGS-6C	29.69
2	HAGS-8C	35.62
2-1/2	HAGS-10C	54.97
3	HAGS-12C	63.85
4	HAGS-16C	77.22
6	HAGS-24C	136.88

**316 Stainless**

1-1/2	HAGSS-6C	63.85
2	HAGSS-8C	78.69
2-1/2	HAGSS-10C	159.87
3	HAGSS-12C	187.08
4	HAGSS-16C	245.74

**206 HOSE UNION (complete set)**



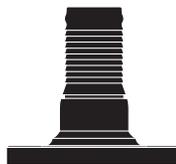
**Ductile Iron**

hose size	part number	list each
4	206S-16C	499.00

hose size	part number	list 18/skid
4	206S-16C	469.00

**FLANGED (with 150 lb. fixed flange)**



**Steel**

hose size	part number	list each
1-1/2	FHAS-6C	97.91
2	FHAS-8C	97.34
2-1/2	FHAS-10C	178.94
3	FHAS-12C	141.87
4	FHAS-16C	181.25
6	FHAS-24C	308.57

**316 Stainless**

1-1/2	FHASS-6C	277.73
2	FHASS-8C	304.82
2-1/2	FHASS-10C	443.42
3	FHASS-12C	489.72
4	FHASS-16C	670.11
6	FHASS-24C	1065.00

**TURNBACK (for use with 150 lb. floating flange)**



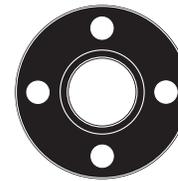
**Steel**

hose size	part number	list each
1-1/2	THAS-6C	46.32
2	THAS-8C	48.59
2-1/2	THAS-10C	94.21
3	THAS-12C	100.95
4	THAS-16C	159.68
6	THAS-24C	426.48

**316 Stainless**

1-1/2	THASS-6C	98.28
2	THASS-8C	183.57

**FLANGE-FLOATING (150 lb.)**



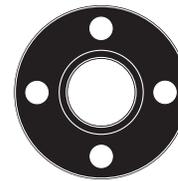
**Steel**

hose size	part number	list each
1-1/2	FF150S-6	34.81
2	FF150S-8	36.75
2-1/2	FF150S-10	56.70
3	FF150S-12	61.11
4	FF150S-16	90.83
6	FF150S-24	125.69
8	FF150S-32	208.53

**316 Stainless**

1-1/2	FF150SS-6	162.01
2	FF150SS-8	200.92
2-1/2	FF150SS-10	257.99
3	FF150SS-12	314.48
4	FF150SS-16	436.17
6	FF150SS-24	601.34

**FLANGE-THREADED (150 lb.)**



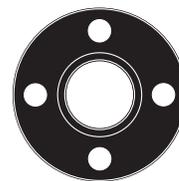
**Steel**

npt size	part number	list each
1-1/2	FT150S-6	52.64
2	FT150S-8	62.10
2-1/2	FT150S-10	64.39
3	FT150S-12	73.34
4	FT150S-16	82.01
6	FT150S-24	151.25

**316 Stainless**

1-1/2	FT150SS-6	169.40
2	FT150SS-8	212.52
2-1/2	FT150SS-10	256.97
3	FT150SS-12	306.54
4	FT150SS-16	429.49
6	FT150SS-24	659.78

**FLANGE-SLIP ON (150 lb.)**



**Steel**

npt size	part number	list each
1-1/2	FS150S-6	32.87
2	FS150S-8	34.39
2-1/2	FS150S-10	59.48
3	FS150S-12	56.18
4	FS150S-16	73.24
6	FS150S-24	103.74

**316 Stainless**

1-1/2	FS150SS-6	135.80
2	FS150SS-8	164.90
2-1/2	FS150SS-10	359.86
3	FS150SS-12	291.00
4	FS150SS-16	378.30
6	FS150SS-24	582.00

FERRULES FOR CRIMPNOLOGY NIPPLES

# FERRULES



## FERRULES for crimpology nipples



### Plated Steel

hose size	ferrule i.d.	part number	list each
1	1-32/64	FPS100132	9.86
1	1-36/64	FPS100136	9.86
1	1-40/64	FPS100140	9.86
1	1-44/64	FPS100144	9.86
1	1-48/64	FPS100148	9.86
1	1-52/64	FPS100152	9.86
1-1/4	1-52/64	FPS125152	10.25
1-1/4	1-56/64	FPS125156	10.25
1-1/4	1-60/64	FPS125160	10.25
1-1/2	1-60/64	FPS150160	11.24
1-1/2	2	FPS150200	11.24
1-1/2	2-4/64	FPS150204	11.24
1-1/2	2-8/64	FPS150208	11.24
1-1/2	2-12/64	FPS150212	11.24
1-1/2	2-16/64	FPS150216	11.24
1-1/2	2-20/64	FPS150220	11.24
1-1/2	2-24/64	FPS150224	11.24
2	2-32/64	FPS200232	12.56
2	2-36/64	FPS200236	12.56
2	2-40/64	FPS200240	12.56
2	2-44/64	FPS200244	12.56
2	2-48/64	FPS200248	12.56
2	2-52/64	FPS200252	12.56
2	2-56/64	FPS200256	12.56
2	2-60/64	FPS200260	12.56
2-1/2	3-8/64	FPS250308	16.72
2-1/2	3-12/64	FPS250312	16.72
2-1/2	3-16/64	FPS250316	16.72
2-1/2	3-20/64	FPS250320	16.72
2-1/2	3-28/64	FPS250328	16.72
3	3-36/64	FPS300336	16.98
3	3-40/64	FPS300340	16.98
3	3-44/64	FPS300344	16.98
3	3-48/64	FPS300348	16.98
3	3-52/64	FPS300352	16.98
3	3-56/64	FPS300356	16.98
3	3-60/64	FPS300360	16.98
3	4	FPS300400	16.98
3	4-8/64	FPS300408	16.98
3	4-16/64	FPS300416	16.98
4	4-36/64	FPS400436	22.31
4	4-40/64	FPS400440	22.31
4	4-44/64	FPS400444	22.31
4	4-48/64	FPS400448	22.31
4	4-52/64	FPS400452	22.31
4	4-56/64	FPS400456	22.31
4	4-60/64	FPS400460	22.31
4	5	FPS400500	22.31
4	5-4/64	FPS400504	22.31
6	6-40/64	FPS600640	49.99
6	6-56/64	FPS600656	49.99
6	7-8/64	FPS600708	49.99
6	7-24/64	FPS600724	49.99

## 304 Stainless

hose size	ferrule i.d.	part number	list each
1	1-32/64	FSS100132	9.85
1	1-36/64	FSS100136	9.85
1	1-40/64	FSS100140	9.85
1	1-44/64	FSS100144	9.85
1	1-48/64	FSS100148	9.85
1	1-52/64	FSS100152	9.85
1-1/4	1-52/64	FSS125152	11.84
1-1/4	1-56/64	FSS125156	11.84
1-1/4	1-60/64	FSS125160	11.84
1-1/2	1-60/64	FSS150160	15.45
1-1/2	2	FSS150200	15.45
1-1/2	2-4/64	FSS150204	15.45
1-1/2	2-8/64	FSS150208	15.45
1-1/2	2-12/64	FSS150212	15.45
1-1/2	2-16/64	FSS150216	15.45
1-1/2	2-20/64	FSS150220	15.45
1-1/2	2-24/64	FSS150224	15.45
2	2-32/64	FSS200232	17.12
2	2-36/64	FSS200236	17.12
2	2-40/64	FSS200240	17.12
2	2-44/64	FSS200244	17.12
2	2-48/64	FSS200248	17.12
2	2-52/64	FSS200252	17.12
2	2-56/64	FSS200256	17.12
2	2-60/64	FSS200260	17.12
2-1/2	3-8/64	FSS250308	26.69
2-1/2	3-12/64	FSS250312	26.69
2-1/2	3-16/64	FSS250316	26.69
2-1/2	3-20/64	FSS250320	26.69
2-1/2	3-28/64	FSS250328	26.69
3	3-36/64	FSS300336	28.08
3	3-40/64	FSS300340	28.08
3	3-44/64	FSS300344	28.08
3	3-48/64	FSS300348	28.08
3	3-52/64	FSS300352	28.08
3	3-56/64	FSS300356	28.08
3	3-60/64	FSS300360	28.08
3	4	FSS300400	28.08
4	4-36/64	FSS400436	65.18
4	4-40/64	FSS400440	65.18
4	4-44/64	FSS400444	65.18
4	4-48/64	FSS400448	65.18
4	4-52/64	FSS400452	65.18
4	4-56/64	FSS400456	65.18
4	4-60/64	FSS400460	65.18
4	5	FSS400500	65.18
4	5-4/64	FSS400504	65.18
6	6-56/64	FSS600656	82.45
6	7-8/64	FSS600708	82.45
6	7-24/64	FSS600724	82.45

## Plated Steel-Heavy Duty (for FRAC-16 fittings only)

hose size	ferrule i.d.	part number	list each
4	4-48/64	FPS400448F	31.20
4	4-52/64	FPS400452F	31.20
4	4-56/64	FPS400456F	31.20
4	4-60/64	FPS400460F	31.20
4	5	FPS400500F	31.20

## LONG SHANK FERRULES for long shank crimpology nipples



### Plated Steel

hose size	ferrule i.d.	part number	list each
1-1/2	1-60/64	FPS150160L	16.60
1-1/2	2	FPS150200L	16.60
1-1/2	2-4/64	FPS150204L	16.60
1-1/2	2-8/64	FPS150208L	16.60
1-1/2	2-12/64	FPS150212L	16.60
1-1/2	2-16/64	FPS150216L	16.60
1-1/2	2-20/64	FPS150220L	16.60
1-1/2	2-24/64	FPS150224L	16.60
2	2-32/64	FPS200232L	20.16
2	2-36/64	FPS200236L	20.16
2	2-40/64	FPS200240L	20.16
2	2-44/64	FPS200244L	20.16
2	2-48/64	FPS200248L	20.16
2	2-52/64	FPS200252L	20.16
2	2-56/64	FPS200256L	20.16
2	2-60/64	FPS200260L	20.16
2-1/2	3-8/64	FPS250308L	27.72
2-1/2	3-12/64	FPS250312L	27.72
2-1/2	3-16/64	FPS250316L	27.72
2-1/2	3-20/64	FPS250320L	27.72
2-1/2	3-28/64	FPS250328L	27.72
3	3-36/64	FPS300336L	27.88
3	3-40/64	FPS300340L	27.88
3	3-44/64	FPS300344L	27.88
3	3-48/64	FPS300348L	27.88
3	3-52/64	FPS300352L	27.88
3	3-56/64	FPS300356L	27.88
3	3-60/64	FPS300360L	27.88
3	4	FPS300400L	27.88
3	4-8/64	FPS300408L	27.88
3	4-16/64	FPS300416L	27.88
4	4-40/64	FPS400440L	37.85
4	4-44/64	FPS400444L	37.85
4	4-48/64	FPS400448L	37.85
4	4-52/64	FPS400452L	37.85
4	4-56/64	FPS400456L	37.85
4	4-60/64	FPS400460L	37.85
4	5	FPS400500L	37.85
4	5-4/64	FPS400504L	37.85
4	5-12/64	FPS400512L	37.85
4	5-20/64	FPS400520L	37.85
4	5-28/64	FPS400528L	37.85

For a complete listing of  
all Ferrules and Sleeves,  
go to Section G.



**Campbell Fittings**

C



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**CampbellCrimpnology™ offers crimping flexibility for your liquid, bulk, and chemical transfer hose applications.**

## “CAMPBELL COBRA” VS. “STANDARD COBRA”

“COBRA” is the trade name for our entire line of cam & groove couplings. “Campbell COBRA” is the upgraded versions of Parts C and E. Although imported, Campbell COBRA C’s and E’s are designed by Campbell and produced to strict Campbell specifications.

### Features & Benefits

- Designed for use with Campbell Interlocking Ferrules.
- 360° interlock groove on fitting locks ferrule into place for the ultimate in holding power.
- Shank and ferrule lengths are matched for performance and to avoid potential hose tube or hose cover damage (right).
- Serrations designed to grip, seal, and protect hose when crimped. *Note: Traditional “two bump” designs are for banding, not crimping. Campbell does not recommend crimping on “two bump” shanks.*
- Crimped assemblies are low profile and eliminate sharp edges from clamp buckles.
- Couplings use the same ferrules as Crimpnology Nipples, ChemJoint Couplings, and Goodyear InstaLock Cam & Groove Couplings to keep your inventory as flexible as possible.
- Designed to couple and interchange with couplings made to ASTM F1122, CID A-A-59326, MIL-C-27487.

### Recommended Hose Attachment

- Interlocking ferrules

### Recommended Use

- Multi-purpose liquid, chemical, bulk handling

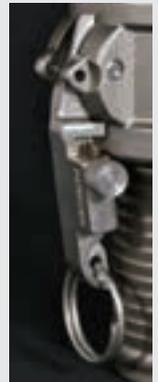


**Campbell Cobra Part C and matching Campbell Interlocking Ferrule**



### Special Feature

- Locking handles (right) can be purchased assembled onto the coupling or as a kit and retrofitted onto existing inventory ... another easy and cost-effective way to keep inventory flexible.



**Locking Handle**

Hose System Components			MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1										
			Hose Size										
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8
Campbell COBRA Cam & Groove (SS) <sup>4</sup>	Ferrule	Chem/Rubber	-	-	250	-	250	250	150	150	100	-	-
Campbell COBRA Cam & Groove (Alum) <sup>4</sup>	Ferrule	Chem/Rubber	-	-	-	-	225	200	150	125	75	-	-

See footnotes 1, 2, and 5 on Page 1



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**CAMPBELL COBRA  
CAM & GROOVE  
COUPLINGS**



**Aluminum**

1-1/2	CL-AL-150C	65.36
2	CL-AL-200C	71.35
3	CL-AL-300C	88.09
4	CL-AL-400C	98.63

**STANDARD COBRA  
CAM & GROOVE  
COUPLINGS**

**PART E  
(with ferrule interlock)**



**316 Stainless**

hose size	part number	list each
1	E-316-100C	19.30
1-1/2	E-316-150C	37.71
2	E-316-200C	60.09
2-1/2	E-316-250C	80.58
3	E-316-300C	105.32
4	E-316-400C	170.58

**Aluminum**

1-1/2	E-AL-150C	6.08
2	E-AL-200C	7.89
2-1/2	E-AL-250C	12.83
3	E-AL-300C	14.08
4	E-AL-400C	23.10

**Brass**

1	E-BR-100C	20.43
1-1/2	E-BR-150C	34.30
2	E-BR-200C	47.74
3	E-BR-300C	94.05
4	E-BR-400C	144.21

**Steel**

**(investment cast)**

1	E-S-100C	14.58
1-1/2	E-S-150C	19.10
2	E-S-200C	29.43
3	E-S-300C	51.65
4	E-S-400C	69.56

**PART A**



**316 Stainless**

npt size	part number	list each
1/2	A-316-50	12.60
3/4	A-316-75	12.64
1	A-316-100	15.59
1-1/4	A-316-125	22.21
1-1/2	A-316-150	26.73
2	A-316-200	31.56
2-1/2	A-316-250	56.52
3	A-316-300	61.57
4	A-316-400	116.38
5	A-316-500	189.34
6	A-316-600	236.88
8	A-316-800	543.40

**304 Stainless**

1/2	A-SS-50	9.80
3/4	A-SS-75	9.79
1	A-SS-100	11.78
1-1/4	A-SS-125	17.31
1-1/2	A-SS-150	19.97
2	A-SS-200	23.28
2-1/2	A-SS-250	41.47
3	A-SS-300	44.74
4	A-SS-400	88.42
5	A-SS-500	149.77
6	A-SS-600	182.74
8	A-SS-800	469.30

**Aluminum**

1/2	A-AL-50	3.96
3/4	A-AL-75	3.61
1	A-AL-100	4.12
1-1/4	A-AL-125	5.67
1-1/2	A-AL-150	4.69
2	A-AL-200	5.52
2-1/2	A-AL-250	10.56
3	A-AL-300	10.15
4	A-AL-400	16.73
5	A-AL-500	34.96
6	A-AL-600	35.01
8	A-AL-800	143.10

**Brass**

1/2	A-BR-50	9.96
3/4	A-BR-75	9.78
1	A-BR-100	11.09
1-1/4	A-BR-125	16.30
1-1/2	A-BR-150	17.14
2	A-BR-200	23.20
2-1/2	A-BR-250	37.27
3	A-BR-300	44.81
4	A-BR-400	77.30
5	A-BR-500	166.30
6	A-BR-600	222.09

**PART C  
(with ferrule interlock)**



**316 Stainless**

hose size	part number	list each
1	C-316-100C	25.62
1-1/2	C-316-150C	48.36
2	C-316-200C	69.58
2-1/2	C-316-250C	92.49
3	C-316-300C	123.14
4	C-316-400C	189.99

**Aluminum**

1-1/2	C-AL-150C	12.19
2	C-AL-200C	15.05
2-1/2	C-AL-250C	20.14
3	C-AL-300C	25.04
4	C-AL-400C	34.61

**Brass**

1	C-BR-100C	30.31
1-1/2	C-BR-150C	45.55
2	C-BR-200C	59.14
3	C-BR-300C	114.71
4	C-BR-400C	159.60

**Steel**

**(investment cast)**

1	C-S-100C	21.95
1-1/2	C-S-150C	30.97
2	C-S-200C	36.52
3	C-S-300C	60.40
4	C-S-400C	93.85

**LOCKING HANDLE KIT  
(for Campbell Cobra C's only)**



**Ring/Pin/Lock: Stainless  
Handle: Investment Cast  
Stainless**

size	part number	list each
1	LHRPSS-100	18.30
1-1/2	LHRPSS-200	20.20
2	LHRPSS-200	20.20
2-1/2	LHRPSS-200	20.20
3	LHRPSS-300	23.98
4	LHRPSS-300	23.98

**CONE STRAINERS  
(for use with Part C's)**



**Stainless**

hose size	part number	list each
2	CGSS-8	39.95
3	CGSS-12	33.65
4	CGSS-16	40.35
6	CGSS-24	61.05

*continued on next page*

**Ductile Iron**

1-1/2	A-DI-150	14.20
2	A-DI-200	17.04
2-1/2	A-DI-250	POR
3	A-DI-300	26.64
4	A-DI-400	43.07
5	A-DI-500	58.60

**Poly-Glass**

npt size	part number	list each
1/2	A-PP-50	2.25
3/4	A-PP-75	2.25
1	A-PP-100	2.66
1-1/4	A-PP-125	4.04
1-1/2	A-PP-150	4.08
2	A-PP-200	4.81
3	A-PP-300	8.53
4	A-PP-400	20.71

**Ny-Glass**

1/2	A-NY-50	3.98
3/4	A-NY-75	3.98
1	A-NY-100	4.70
1-1/4	A-NY-125	4.90
1-1/2	A-NY-150	5.27
2	A-NY-200	6.12
3	A-NY-300	13.36
4	A-NY-400	32.29

**PART B**



**316 Stainless**

npt size	part number	list each
1/2	B-316-50	20.36
3/4	B-316-75	20.38
1	B-316-100	26.75
1-1/4	B-316-125	38.01
1-1/2	B-316-150	45.22
2	B-316-200	53.69
2-1/2	B-316-250	69.30
3	B-316-300	100.93
4	B-316-400	152.47
5	B-316-500	248.81
6	B-316-600	341.76

**304 Stainless**

1/2	B-SS-50	17.30
3/4	B-SS-75	17.27
1	B-SS-100	21.15
1-1/4	B-SS-125	29.50
1-1/2	B-SS-150	32.97
2	B-SS-200	40.76
2-1/2	B-SS-250	51.86
3	B-SS-300	74.93
4	B-SS-400	113.15
5	B-SS-500	181.47
6	B-SS-600	251.62

**Aluminum**

1/2	B-AL-50	8.77
3/4	B-AL-75	7.81
1	B-AL-100	9.31
1-1/4	B-AL-125	11.69
1-1/2	B-AL-150	10.99
2	B-AL-200	12.42
2-1/2	B-AL-250	20.88
3	B-AL-300	21.58
4	B-AL-400	27.15

**Aluminum**

**(with stainless handles)**

3/4	B-ALS-75	244.07
1	B-ALS-100	8.51
1-1/4	B-ALS-125	7.57
1-1/2	B-ALS-150	9.03
2	B-ALS-200	11.34
2-1/2	B-ALS-250	10.66
3	B-ALS-300	12.04
4	B-ALS-400	20.26
6	B-ALS-600	20.93

**Brass**

npt size	part number	list each
1/2	B-BR-50	17.95
3/4	B-BR-75	17.85
1	B-BR-100	21.59
1-1/4	B-BR-125	28.28
1-1/2	B-BR-150	30.66
2	B-BR-200	38.07
2-1/2	B-BR-250	54.14
3	B-BR-300	74.18
4	B-BR-400	105.24
5	B-BR-500	258.70
6	B-BR-600	304.92

**Ductile Iron**

1-1/2	B-DI-150	26.13
2	B-DI-200	27.32
2-1/2	B-DI-250	POR
3	B-DI-300	47.80
4	B-DI-400	64.19
5	B-DI-500	91.13

**Poly-Glass**

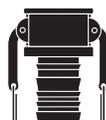
1/2	B-PP-50	6.95
3/4	B-PP-75	6.95
1	B-PP-100	7.41
1-1/4	B-PP-125	9.79
1-1/2	B-PP-150	10.93
2	B-PP-200	12.88
3	B-PP-300	21.11
4	B-PP-400	38.27

**Ny-Glass**

1/2	B-NY-50	9.26
3/4	B-NY-75	9.61
1	B-NY-100	9.98
1-1/4	B-NY-125	14.33
1-1/2	B-NY-150	12.98
2	B-NY-200	16.23
3	B-NY-300	28.38
4	B-NY-400	39.83

**PART C**

**(for use with sleeves or bands)**



**316 Stainless**

hose size	part number	list each
1/2	C-316-50	20.15
3/4	C-316-75	18.42
1	C-316-100	23.93
1-1/4	C-316-125	36.41
1-1/2	C-316-150	38.29
2	C-316-200	52.58
2-1/2	C-316-250	78.58
3	C-316-300	94.00
4	C-316-400	118.88

**304 Stainless**

1/2	C-SS-50	16.73
3/4	C-SS-75	15.04
1	C-SS-100	20.09
1-1/4	C-SS-125	29.88
1-1/2	C-SS-150	34.72
2	C-SS-200	45.69
2-1/2	C-SS-250	63.96
3	C-SS-300	88.14
4	C-SS-400	129.19
5	C-SS-500	236.86
6	C-SS-600	278.33
8	C-SS-800	771.86

**Aluminum**

hose size	part number	list each
1/2	C-AL-50	6.88
3/4	C-AL-75	6.84
1	C-AL-100	8.14
1-1/4	C-AL-125	12.11
1-1/2	C-AL-150	10.89
2	C-AL-200	12.76
2-1/2	C-AL-250	19.70
3	C-AL-300	22.78
4	C-AL-400	33.42
5	C-AL-500	62.16
6	C-AL-600	75.75
8	C-AL-800	283.34

**Aluminum**

**(with stainless handles)**

3/4	C-ALS-75	6.67
1	C-ALS-100	6.63
1-1/4	C-ALS-125	7.89
1-1/2	C-ALS-150	11.75
2	C-ALS-200	10.56
2-1/2	C-ALS-250	12.37
3	C-ALS-300	19.11
4	C-ALS-400	22.10
6	C-ALS-600	32.42

**Brass**

1/2	C-BR-50	16.88
3/4	C-BR-75	17.10
1	C-BR-100	23.73
1-1/4	C-BR-125	31.21
1-1/2	C-BR-150	32.17
2	C-BR-200	42.79
2-1/2	C-BR-250	56.14
3	C-BR-300	75.42
4	C-BR-400	111.23
5	C-BR-500	268.26
6	C-BR-600	353.57

**Ductile Iron**

1-1/2	C-DI-150	26.38
2	C-DI-200	31.09
2-1/2	C-DI-250	POR
3	C-DI-300	51.44
4	C-DI-400	76.17
5	C-DI-500	117.97

**Poly-Glass**

1/2	C-PP-50	7.18
3/4	C-PP-75	7.18
1	C-PP-100	8.16
1-1/4	C-PP-125	10.44
1-1/2	C-PP-150	11.89
2	C-PP-200	13.90
3	C-PP-300	24.14

**Ny-Glass**

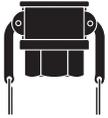
1/2	C-NY-50	7.43
3/4	C-NY-75	7.81
1	C-NY-100	8.74
1-1/4	C-NY-125	14.74
1-1/2	C-NY-150	15.47
2	C-NY-200	17.09
3	C-NY-300	27.92
4	C-NY-400	44.43

**Brass**

1/2	D-BR-50	17.43
3/4	D-BR-75	17.83
1	D-BR-100	22.02
1-1/4	D-BR-125	32.69
1-1/2	D-BR-150	31.31
2	D-BR-200	38.84
2-1/2	D-BR-250	55.77
3	D-BR-300	70.54
4	D-BR-400	110.74
5	D-BR-500	236.03
6	D-BR-600	317.75

**Aluminum**

1/2	E-AL-50	4.11
3/4	E-AL-75	4.00
1	E-AL-100	4.42
1-1/4	E-AL-125	6.62
1-1/2	E-AL-150	5.08
2	E-AL-200	6.64
2-1/2	E-AL-250	12.22
3	E-AL-300	13.56
4	E-AL-400	22.52
5	E-AL-500	47.50
6	E-AL-600	56.48
8	E-AL-800	172.54

**PART D****316 Stainless**

npt size	part number	list each
1/2	D-316-50	20.38
3/4	D-316-75	20.38
1	D-316-100	26.71
1-1/4	D-316-125	38.67
1-1/2	D-316-150	47.09
2	D-316-200	58.46
2-1/2	D-316-250	83.60
3	D-316-300	105.56
4	D-316-400	162.83
5	D-316-500	302.72
6	D-316-600	330.34

**304 Stainless**

1/2	D-SS-50	17.58
3/4	D-SS-75	17.58
1	D-SS-100	21.15
1-1/4	D-SS-125	31.13
1-1/2	D-SS-150	37.25
2	D-SS-200	45.27
2-1/2	D-SS-250	64.37
3	D-SS-300	86.73
4	D-SS-400	127.49
5	D-SS-500	214.37
6	D-SS-600	250.91

**Aluminum**

1/2	D-AL-50	9.98
3/4	D-AL-75	8.16
1	D-AL-100	9.31
1-1/4	D-AL-125	12.73
1-1/2	D-AL-150	11.57
2	D-AL-200	13.59
2-1/2	D-AL-250	21.61
3	D-AL-300	21.97
4	D-AL-400	31.62
5	D-AL-500	59.48
6	D-AL-600	72.93
8	D-AL-800	266.47

**Aluminum****(with stainless handles)**

3/4	D-ALS-75	9.68
1	D-ALS-100	7.92
1-1/4	D-ALS-125	9.03
1-1/2	D-ALS-150	12.35
2	D-ALS-200	11.22
2-1/2	D-ALS-250	13.18
3	D-ALS-300	20.96
4	D-ALS-400	21.31
6	D-ALS-600	30.68

**Ductile Iron**

1-1/2	D-DI-150	26.38
2	D-DI-200	40.66
2-1/2	D-DI-250	POR
3	D-DI-300	50.06
4	D-DI-400	75.17
5	D-DI-500	102.74

**Poly-Glass**

npt size	part number	list each
1/2	D-PP-50	7.37
3/4	D-PP-75	7.37
1	D-PP-100	8.16
1-1/4	D-PP-125	10.21
1-1/2	D-PP-150	11.25
2	D-PP-200	13.70
3	D-PP-300	23.80
4	D-PP-400	41.73

**Ny-Glass**

1/2	D-NY-50	8.15
3/4	D-NY-75	8.51
1	D-NY-100	10.14
1-1/4	D-NY-125	14.04
1-1/2	D-NY-150	13.76
2	D-NY-200	18.51
3	D-NY-300	29.17
4	D-NY-400	45.58

**PART E****(for use with sleeves or bands)****316 Stainless**

hose size	part number	list each
1/2	E-316-50	10.31
3/4	E-316-75	11.11
1	E-316-100	18.07
1-1/4	E-316-125	26.28
1-1/2	E-316-150	29.95
2	E-316-200	45.14
2-1/2	E-316-250	68.46
3	E-316-300	91.17
4	E-316-400	138.83
5	E-316-500	256.56
6	E-316-600	343.69

**304 Stainless**

1/2	E-SS-50	8.85
3/4	E-SS-75	8.85
1	E-SS-100	12.99
1-1/4	E-SS-125	18.97
1-1/2	E-SS-150	23.90
2	E-SS-200	35.85
2-1/2	E-SS-250	51.30
3	E-SS-300	73.52

**Brass**

hose size	part number	list each
1/2	E-BR-50	9.51
3/4	E-BR-75	12.42
1	E-BR-100	13.37
1-1/4	E-BR-125	18.84
1-1/2	E-BR-150	22.37
2	E-BR-200	32.00
2-1/2	E-BR-250	45.88
3	E-BR-300	60.80
4	E-BR-400	99.34
5	E-BR-500	239.08
6	E-BR-600	314.20

**Ductile Iron**

1-1/2	E-DI-150	15.31
2	E-DI-200	25.06
2-1/2	E-DI-250	POR
3	E-DI-300	43.96
4	E-DI-400	59.24
5	E-DI-500	95.38

**Poly-Glass**

1/2	E-PP-50	2.60
3/4	E-PP-75	2.60
1	E-PP-100	3.08
1-1/4	E-PP-125	4.37
1-1/2	E-PP-150	4.44
2	E-PP-200	4.70
3	E-PP-300	9.14
4	E-PP-400	18.13

**Ny-Glass**

1/2	E-NY-50	3.28
3/4	E-NY-75	3.62
1	E-NY-100	3.98
1-1/4	E-NY-125	5.63
1-1/2	E-NY-150	5.73
2	E-NY-200	7.95
3	E-NY-300	15.20
4	E-NY-400	28.11

**PART F****316 Stainless**

npt size	part number	list each
1/2	F-316-50	13.92
3/4	F-316-75	13.92
1	F-316-100	20.38
1-1/4	F-316-125	29.94
1-1/2	F-316-150	35.85
2	F-316-200	47.64
2-1/2	F-316-250	68.16
3	F-316-300	91.52

**304 Stainless**

npt size	part number	list each
1/2	F-SS-50	12.79
3/4	F-SS-75	12.23
1	F-SS-100	15.50
1-1/4	F-SS-125	22.62
1-1/2	F-SS-150	28.25
2	F-SS-200	35.27
2-1/2	F-SS-250	48.92
3	F-SS-300	70.57
4	F-SS-400	121.58
5	F-SS-500	191.01
6	F-SS-600	264.14

**Aluminum**

1/2	F-AL-50	5.44
3/4	F-AL-75	4.47
1	F-AL-100	4.76
1-1/4	F-AL-125	7.82
1-1/2	F-AL-150	5.91
2	F-AL-200	6.99
2-1/2	F-AL-250	13.89
3	F-AL-300	14.62
4	F-AL-400	20.99
5	F-AL-500	45.89
6	F-AL-600	51.53
8	F-AL-800	200.32

**Brass**

1/2	F-BR-50	11.19
3/4	F-BR-75	11.19
1	F-BR-100	13.99
1-1/4	F-BR-125	20.94
1-1/2	F-BR-150	21.99
2	F-BR-200	30.60
2-1/2	F-BR-250	49.29
3	F-BR-300	62.69
4	F-BR-400	98.42
5	F-BR-500	202.82
6	F-BR-600	267.41

**Ductile Iron**

1-1/2	F-DI-150	17.29
2	F-DI-200	21.99
2-1/2	F-DI-250	POR
3	F-DI-300	33.82
4	F-DI-400	53.64
5	F-DI-500	77.27

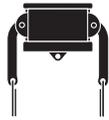
**Poly-Glass**

1/2	F-PP-50	2.60
3/4	F-PP-75	2.60
1	F-PP-100	2.89
1-1/4	F-PP-125	4.08
1-1/2	F-PP-150	4.32
2	F-PP-200	4.70
3	F-PP-300	10.05
4	F-PP-400	18.13

**Ny-Glass**

1/2	F-NY-50	3.28
3/4	F-NY-75	3.45
1	F-NY-100	3.73
1-1/4	F-NY-125	5.41
1-1/2	F-NY-150	5.18
2	F-NY-200	7.61
3	F-NY-300	15.42
4	F-NY-400	26.20

**PART DC**



**316 Stainless**

size	part number	list each
1/2	DC-316-50	18.15
3/4	DC-316-75	18.28
1	DC-316-100	22.21
1-1/4	DC-316-125	30.23
1-1/2	DC-316-150	34.72
2	DC-316-200	42.04
2-1/2	DC-316-250	60.03
3	DC-316-300	80.13
4	DC-316-400	110.63
5	DC-316-500	215.50
6	DC-316-600	286.34

**304 Stainless**

1/2	DC-SS-50	14.19
3/4	DC-SS-75	14.75
1	DC-SS-100	17.29
1-1/4	DC-SS-125	24.82
1-1/2	DC-SS-150	26.30
2	DC-SS-200	32.47
2-1/2	DC-SS-250	45.95
3	DC-SS-300	64.95
4	DC-SS-400	89.26
5	DC-SS-500	163.20
6	DC-SS-600	205.36

**Aluminum**

1/2	DC-AL-50	6.91
3/4	DC-AL-75	7.52
1	DC-AL-100	7.93
1-1/4	DC-AL-125	12.92
1-1/2	DC-AL-150	9.88
2	DC-AL-200	11.42
2-1/2	DC-AL-250	16.04
3	DC-AL-300	18.97
4	DC-AL-400	23.95
5	DC-AL-500	40.60
6	DC-AL-600	60.45
8	DC-AL-800	242.85

**Aluminum**

**(with stainless handles)**

3/4	DC-ALS-75	6.71
1	DC-ALS-100	7.29
1-1/4	DC-ALS-125	7.69
1-1/2	DC-ALS-150	12.53
2	DC-ALS-200	9.59
2-1/2	DC-ALS-250	11.08
3	DC-ALS-300	15.56
4	DC-ALS-400	18.40
6	DC-ALS-600	23.32

**Brass**

1/2	DC-BR-50	15.87
3/4	DC-BR-75	16.92
1	DC-BR-100	20.26
1-1/4	DC-BR-125	26.13
1-1/2	DC-BR-150	28.42
2	DC-BR-200	34.77
2-1/2	DC-BR-250	42.45
3	DC-BR-300	63.80
4	DC-BR-400	85.90
5	DC-BR-500	198.05
6	DC-BR-600	227.36

**Ductile Iron**

1-1/2	DC-DI-150	22.22
2	DC-DI-200	24.49
2-1/2	DC-DI-250	POR
3	DC-DI-300	39.65
4	DC-DI-400	55.20
5	DC-DI-500	84.09

**Poly-Glass**

1/2	DC-PP-50	7.01
3/4	DC-PP-75	7.01
1	DC-PP-100	7.60
1-1/4	DC-PP-125	9.79
1-1/2	DC-PP-150	10.73
2	DC-PP-200	12.89
3	DC-PP-300	20.95
4	DC-PP-400	34.28

**Ny-Glass**

1/2	DC-NY-50	8.16
3/4	DC-NY-75	8.53
1	DC-NY-100	9.60
1-1/4	DC-NY-125	13.65
1-1/2	DC-NY-150	14.21
2	DC-NY-200	16.18
3	DC-NY-300	25.22
4	DC-NY-400	36.26

**PART DP**



**316 Stainless**

size	part number	list each
1/2	DP-316-50	8.30
3/4	DP-316-75	8.30
1	DP-316-100	10.34
1-1/4	DP-316-125	17.58
1-1/2	DP-316-150	21.37
2	DP-316-200	31.90
2-1/2	DP-316-250	46.39
3	DP-316-300	53.57
4	DP-316-400	91.79
6	DP-316-600	239.67

**304 Stainless**

1/2	DP-SS-50	8.30
3/4	DP-SS-75	6.60
1	DP-SS-100	7.93
1-1/4	DP-SS-125	13.92
1-1/2	DP-SS-150	15.59
2	DP-SS-200	23.20
2-1/2	DP-SS-250	35.27
3	DP-SS-300	40.06
4	DP-SS-400	67.34
6	DP-SS-600	164.61

**Aluminum**

1/2	DP-AL-50	3.92
3/4	DP-AL-75	3.73
1	DP-AL-100	3.99
1-1/4	DP-AL-125	4.66
1-1/2	DP-AL-150	3.98
2	DP-AL-200	4.66
2-1/2	DP-AL-250	9.58
3	DP-AL-300	9.06
4	DP-AL-400	14.51
5	DP-AL-500	26.59
6	DP-AL-600	30.25

**Brass**

1/2	DP-BR-50	9.80
3/4	DP-BR-75	9.90
1	DP-BR-100	12.18
1-1/4	DP-BR-125	14.15
1-1/2	DP-BR-150	14.42
2	DP-BR-200	20.36
2-1/2	DP-BR-250	28.26
3	DP-BR-300	34.56
4	DP-BR-400	52.48
5	DP-BR-500	137.09
6	DP-BR-600	163.47

**Ductile Iron**

1-1/2	DP-DI-150	12.36
2	DP-DI-200	16.05
2-1/2	DP-DI-250	POR
3	DP-DI-300	21.82
4	DP-DI-400	31.23
5	DP-DI-500	52.28

**Poly-Glass**

1/2	DP-PP-50	2.53
3/4	DP-PP-75	2.43
1	DP-PP-100	2.64
1-1/4	DP-PP-125	3.01
1-1/2	DP-PP-150	3.19
2	DP-PP-200	4.07
3	DP-PP-300	7.85
4	DP-PP-400	14.19

**Ny-Glass**

1/2	DP-NY-50	3.28
3/4	DP-NY-75	3.62
1	DP-NY-100	3.84
1-1/4	DP-NY-125	4.17
1-1/2	DP-NY-150	4.65
2	DP-NY-200	5.36
3	DP-NY-300	13.39
4	DP-NY-400	21.19

**SPOOL ADAPTER****316 Stainless**

adapter x adapter	part number	list each
1	AA-316-100	67.09
1-1/2	AA-316-150	85.68
1-1/2 x 2	AA-316-1520	102.13
2	AA-316-200	108.31
2 x 3	AA-316-2030	139.90
3	AA-316-300	187.98
3 x 4	AA-316-3040	229.62
4	AA-316-400	289.79

**Aluminum**

1	AA-AL-100	13.60
1-1/2	AA-AL-150	15.79
2	AA-AL-200	17.88
2 x 3	AA-AL-2030	25.24
2-1/2	AA-AL-250	26.26
3	AA-AL-300	33.84
3 x 4	AA-AL-3040	44.16
4	AA-AL-400	44.90

**Brass**

1-1/2	AA-BR-150	62.49
2	AA-BR-200	78.78
2-1/2	AA-BR-250	111.63
3	AA-BR-300	134.14
4	AA-BR-400	185.67

**DOUBLE D****316 Stainless**

coupler size	part number	list each
1-1/2	DD-316-150	111.32
2	DD-316-200	143.65
3	DD-316-300	222.37
4	DD-316-400	299.54

**Aluminum**

1-1/2	DD-AL-150	47.08
2	DD-AL-200	52.55
3	DD-AL-300	73.66
4	DD-AL-400	97.89

**JUMP SIZE COUPLER X ADAPTER****316 Stainless**

coupler x adapter	part number	list each
2 x 1-1/2	DA-316-2015	131.05
3 x 2	DA-316-3020	162.04
4 x 3	DA-316-4030	241.03
6 x 4	DA-316-6040	432.36

**Aluminum**

1-1/2 x 1	DA-AL-1510	45.29
1-1/2 x 2	DA-AL-1520	49.00
2 x 1-1/2	DA-AL-2015	44.03
2 x 3	DA-AL-2030	41.83
2 x 4	DA-AL-2040	79.27
3 x 1-1/2	DA-AL-3015	61.42
3 x 2	DA-AL-3020	51.96
3 x 4	DA-AL-3040	67.15
4 x 2	DA-AL-4020	70.27
4 x 3	DA-AL-4030	65.59
4 x 6	DA-AL-4060	131.56
6 x 4	DA-AL-6040	145.46

**Brass**

2 x 3	DA-BR-2030	153.86
3 x 2	DA-BR-3020	186.46
4 x 2	DA-BR-4020	260.28
4 x 3	DA-BR-4030	270.40
6 x 4	DA-BR-6040	454.18

**JUMP SIZE A****Aluminum**

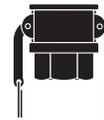
adapter x female npt	part number	list each
2 x 3	A-AL-2030	35.15
3 x 2	A-AL-3020	34.66
3 x 4	A-AL-3040	59.60
4 x 3	A-AL-4030	54.33
4 x 6	A-AL-4060	139.35
6 x 4	A-AL-6040	139.35

**JUMP SIZE B****Aluminum**

coupler x male npt	part number	list each
1-1/2 x 1	B-AL-1510	65.63
2 x 1-1/2	B-AL-2015	44.66
3 x 2	B-AL-3020	46.34
3 x 4	B-AL-3040	87.66

**JUMP SIZE C  
(for use with sleeves or bands)****Aluminum**

coupler x hose	part number	list each
3 x 2	C-AL-3020	57.83
3 x 4	C-AL-3040	88.25
4 x 3	C-AL-4030	77.45

**JUMP SIZE D****Aluminum**

coupler x female npt	part number	list each
1-1/2 x 1	D-AL-1510	44.61
2 x 1-1/2	D-AL-2015	44.61
3 x 2	D-AL-3020	54.56
4 x 3	D-AL-4030	82.95

**JUMP SIZE E  
(for use with sleeves or bands)****Aluminum**

adapter x hose	part number	list each
2 x 1-1/2	E-AL-2015	14.41
2 x 2-1/2	E-AL-2025	19.25
2 x 3	E-AL-2030	21.55
3 x 2	E-AL-3020	29.19
3 x 2-1/2	E-AL-3025	31.58
3 x 4	E-AL-3040	36.35
4 x 2	E-AL-4020	33.65
4 x 3	E-AL-4030	43.00

**JUMP SIZE F****Aluminum**

adapter x male npt	part number	list each
3 x 1-1/2	F-AL-3015	46.13
3 x 2	F-AL-3020	44.40
3 x 4	F-AL-3040	64.29

**HANDLE, RING AND PIN****Ring/Pin: Stainless  
Handle: Investment Cast  
Stainless**

size	part number	list each
3/4	HRPSS-75	4.04
1	HRPSS-100	4.04
1-1/4	HRPSS-200	11.52
1-1/2	HRPSS-200	11.52
2	HRPSS-200	11.52
2-1/2	HRPSS-200	11.52
3	HRPSS-300	14.71
4	HRPSS-300	14.71
6	HRPSS-600	40.62

*continued on next page*

**Ring/Pin: Steel  
Handle: Forged Brass**

3/4	HRPB-75	3.68
1	HRPB-100	5.42
1-1/4	HRPB-200	5.97
1-1/2	HRPB-200	5.97
2	HRPB-200	5.97
2-1/2	HRPB-200	5.97
3	HRPB-300	8.08
4	HRPB-300	8.08
6	HRPB-600	34.27



**304 Stainless**

hose size	ferrule i.d.	part number	list each
1	1-32/64	FSS100132	9.85
1	1-36/64	FSS100136	9.85
1	1-40/64	FSS100140	9.85
1	1-44/64	FSS100144	9.85
1	1-48/64	FSS100148	9.85
1	1-52/64	FSS100152	9.85
1-1/4	1-52/64	FSS125152	11.84
1-1/4	1-56/64	FSS125156	11.84
1-1/4	1-60/64	FSS125160	11.84
1-1/2	1-60/64	FSS150160	15.45
1-1/2	2	FSS150200	15.45
1-1/2	2-4/64	FSS150204	15.45
1-1/2	2-8/64	FSS150208	15.45
1-1/2	2-12/64	FSS150212	15.45
1-1/2	2-16/64	FSS150216	15.45
1-1/2	2-20/64	FSS150220	15.45
1-1/2	2-24/64	FSS150224	15.45
2	2-32/64	FSS200232	17.12
2	2-36/64	FSS200236	17.12
2	2-40/64	FSS200240	17.12
2	2-44/64	FSS200244	17.12
2	2-48/64	FSS200248	17.12
2	2-52/64	FSS200252	17.12
2	2-56/64	FSS200256	17.12
2	2-60/64	FSS200260	17.12
2-1/2	3-8/64	FSS250308	17.12
2-1/2	3-12/64	FSS250312	17.12
2-1/2	3-16/64	FSS250316	17.12
2-1/2	3-20/64	FSS250320	17.12
2-1/2	3-28/64	FSS250328	17.12
3	3-36/64	FSS300336	28.08
3	3-40/64	FSS300340	28.08
3	3-44/64	FSS300344	28.08
3	3-48/64	FSS300348	28.08
3	3-52/64	FSS300352	28.08
3	3-56/64	FSS300356	28.08
3	3-60/64	FSS300360	28.08
3	4	FSS300400	28.08
3	4-8/64	FSS300408	28.08
3	4-16/64	FSS300416	28.08
4	4-36/64	FSS400436	65.18
4	4-40/64	FSS400440	65.18
4	4-44/64	FSS400444	65.18
4	4-48/64	FSS400448	65.18
4	4-52/64	FSS400452	65.18
4	4-56/64	FSS400456	65.18
4	4-60/64	FSS400460	65.18
4	5	FSS400500	65.18
4	5-4/64	FSS400504	65.18
6	6-56/64	FSS600656	82.45
6	7-8/64	FSS600708	82.45
6	7-24/64	FSS600724	82.45

**GASKET**



**Buna-N**

size	part number	list each
1/2	BG-50	0.68
3/4	BG-75	0.68
1	BG-100	0.68
1-1/4	BG-125	0.76
1-1/2	BG-150	0.76
2	BG-200	0.76
2-1/2	BG-250	0.90
3	BG-300	0.97
4	BG-400	1.36
5	BG-500	3.41
6	BG-600	3.67
8	BG-800	17.08

**Viton®**

1	VG-100	6.46
1-1/2	VG-150	9.06
2	VG-200	9.61
2-1/2	VG-250	12.91
3	VG-300	15.33
4	VG-400	23.06

**Teflon® (Teflon®**

**Encapsulated Viton®)**

1	TG-100	36.57
1-1/2	TG-150	47.82
2	TG-200	54.27
2-1/2	TG-250	54.27
3	TG-300	61.95
4	TG-400	85.61

**FERRULES**

**for Campbell Cobra Parts C and E**



**Plated Steel**

hose size	ferrule i.d.	part number	list each
1-1/2	1-60/64	FPS150160	11.24
1-1/2	2	FPS150200	11.24
1-1/2	2-4/64	FPS150204	11.24
1-1/2	2-8/64	FPS150208	11.24
1-1/2	2-12/64	FPS150212	11.24
1-1/2	2-16/64	FPS150216	11.24
1-1/2	2-20/64	FPS150220	11.24
1-1/2	2-24/64	FPS150224	11.24
2	2-32/64	FPS200232	12.56
2	2-36/64	FPS200236	12.56
2	2-40/64	FPS200240	12.56
2	2-44/64	FPS200244	12.56
2	2-48/64	FPS200248	12.56
2	2-52/64	FPS200252	12.56
2	2-56/64	FPS200256	12.56
2	2-60/64	FPS200260	12.56
2-1/2	3-8/64	FPS250308	16.72
2-1/2	3-12/64	FPS250312	16.72
2-1/2	3-16/64	FPS250316	16.72
2-1/2	3-20/64	FPS250320	16.72
2-1/2	3-28/64	FPS250328	16.72
3	3-36/64	FPS300336	16.98
3	3-40/64	FPS300340	16.98
3	3-44/64	FPS300344	16.98
3	3-48/64	FPS300348	16.98
3	3-52/64	FPS300352	16.98
3	3-56/64	FPS300356	16.98
3	3-60/64	FPS300360	16.98
3	4	FPS300400	16.98
3	4-8/64	FPS300408	16.98
3	4-16/64	FPS300416	16.98
4	4-36/64	FPS400436	22.31
4	4-40/64	FPS400440	22.31
4	4-44/64	FPS400444	22.31
4	4-48/64	FPS400448	22.31
4	4-52/64	FPS400452	22.31
4	4-56/64	FPS400456	22.31
4	4-60/64	FPS400460	22.31
4	5	FPS400500	22.31
4	5-4/64	FPS400504	22.31
6	6-40/64	FPS600640	49.99
6	6-56/64	FPS600656	49.99
6	7-8/64	FPS600708	49.99
6	7-24/64	FPS600724	49.99

For a complete listing of all Ferrules and Sleeves, go to Section G.



## SLEEVES for Standard or Campbell Cobra Parts C and E

### Plated Steel

hose size	sleeve i.d.	part number	list each
3/4	1-8/64	SPS075108	4.81
3/4	1-12/64	SPS075112	4.81
3/4	1-16/64	SPS075116	4.81
3/4	1-20/64	SPS075120	4.81
3/4	1-24/64	SPS075124	4.81
1	1-16/64	SPS100116	4.70
1	1-20/64	SPS100120	4.70
1	1-24/64	SPS100124	4.70
1	1-28/64	SPS100128	4.70
1	1-32/64	SPS100132	4.70
1	1-36/64	SPS100136	4.70
1	1-40/64	SPS100140	4.70
1	1-44/64	SPS100144	4.70
1	1-48/64	SPS100148	4.70
1-1/4	1-56/64	SPS125156	4.70
1-1/4	2	SPS125200	4.70
1-1/2	1-48/64	SPS150148	4.83
1-1/2	1-52/64	SPS150152	4.83
1-1/2	1-56/64	SPS150156	4.83
1-1/2	1-60/64	SPS150160	4.83
1-1/2	2	SPS150200	4.83
1-1/2	2-4/64	SPS150204	4.83
1-1/2	2-8/64	SPS150208	4.83
1-1/2	2-12/64	SPS150212	4.83
1-1/2	2-16/64	SPS150216	4.83
1-1/2	2-20/64	SPS150220	4.83
1-1/2	2-24/64	SPS150224	4.83
2	2-16/64	SPS200216	5.53
2	2-24/64	SPS200224	5.53
2	2-28/64	SPS200228	5.53
2	2-32/64	SPS200232	5.53
2	2-36/64	SPS200236	5.53
2	2-40/64	SPS200240	5.53
2	2-44/64	SPS200244	5.53
2	2-48/64	SPS200248	5.53
2	2-52/64	SPS200252	5.53
2	2-56/64	SPS200256	5.53
2	2-60/64	SPS200260	5.53
2	3	SPS200300	5.53
2	3-2/64	SSS200302	5.53
2-1/2	3	SPS250300	8.45
2-1/2	3-8/64	SPS250308	8.45
2-1/2	3-16/64	SPS250316	8.45
2-1/2	3-24/64	SPS250324	8.45
2-1/2	3-32/64	SPS250332	8.45
2-1/2	3-34/64	SPS250334	8.45
3	3-16/64	SPS300316	9.75
3	3-24/64	SPS300324	9.75
3	3-28/64	SPS300328	9.75
3	3-32/64	SPS300332	9.75
3	3-36/64	SPS300336	9.75
3	3-40/64	SPS300340	9.75
3	3-44/64	SPS300344	9.75
3	3-48/64	SPS300348	9.75
3	3-52/64	SPS300352	9.75
3	3-56/64	SPS300356	9.75
3	3-60/64	SPS300360	9.75
3	4	SPS300400	9.75
3	4-2/64	SPS300402	9.75
4	4-16/64	SPS400416	13.14
4	4-24/64	SPS400424	13.14
4	4-32/64	SPS400432	13.14
4	4-36/64	SPS400436	13.14
4	4-40/64	SPS400440	13.14
4	4-44/64	SPS400444	13.14
4	4-48/64	SPS400448	13.14
4	4-52/64	SPS400452	13.14
4	4-56/64	SPS400456	13.14
4	4-60/64	SPS400460	13.14
4	5	SPS400500	13.14
4	5-2/64	SPS400502	13.14
5	5-36/64	SPS500536	32.09
5	5-48/64	SPS500548	32.09
5	5-60/64	SPS500560	32.09
6	6-16/64	SPS600616	36.76
6	6-24/64	SPS600624	36.76
6	6-32/64	SPS600632	36.76
6	6-40/64	SPS600640	36.76
6	6-48/64	SPS600648	36.76
6	6-56/64	SPS600656	36.76
6	7	SPS600700	36.76
6	7-8/64	SPS600708	36.76
6	7-16/64	SPS600716	36.76
6	7-24/64	SPS600724	36.76
8	8-16/64	SPS800816	62.46
8	8-32/64	SPS800832	62.46
8	8-48/64	SPS800848	62.46
8	9	SPS800900	62.46
8	9-16/64	SPS800916	62.46
8	9-32/64	SPS800932	62.46
8	9-48/64	SPS800948	62.46

**304 Stainless**

3/4	1-4/64	SSS075104	7.55
3/4	1-8/64	SSS075108	7.55
3/4	1-12/64	SSS075112	7.55
3/4	1-16/64	SSS075116	7.55
3/4	1-24/64	SSS075124	7.55
1	1-16/64	SSS100116	7.55
1	1-20/64	SSS100120	7.55
1	1-24/64	SSS100124	7.55
1	1-28/64	SSS100128	7.55
1	1-32/64	SSS100132	7.55
1	1-36/64	SSS100136	7.55
1	1-40/64	SSS100140	7.55
1	1-44/64	SSS100144	7.55
1	1-48/64	SSS100148	7.55
1-1/4	1-56/64	SSS125156	8.53
1-1/4	2	SSS125200	8.53
1-1/2	1-52/64	SSS150152	8.35
1-1/2	1-56/64	SSS150156	8.35
1-1/2	1-60/64	SSS150160	8.35
1-1/2	2	SSS150200	8.35
1-1/2	2-4/64	SSS150204	8.35
1-1/2	2-8/64	SSS150208	8.35
1-1/2	2-12/64	SSS150212	8.35
1-1/2	2-16/64	SSS150216	8.35
1-1/2	2-20/64	SSS150220	8.35
1-1/2	2-24/64	SSS150224	8.35
2	2-16/64	SSS200216	11.40
2	2-24/64	SSS200224	11.40
2	2-28/64	SSS200228	11.40
2	2-32/64	SSS200232	11.40
2	2-36/64	SSS200236	11.40
2	2-40/64	SSS200240	11.40
2	2-44/64	SSS200244	11.40
2	2-48/64	SSS200248	11.40
2	2-52/64	SSS200252	11.40
2	2-56/64	SSS200256	11.40
2	2-60/64	SSS200260	11.40
2	3	SSS200300	11.40
2	3-2/64	SSS200302	11.40
2-1/2	3	SSS250300	16.08
2-1/2	3-8/64	SSS250308	16.08
2-1/2	3-16/64	SSS250316	16.08
2-1/2	3-24/64	SSS250324	16.08
2-1/2	3-32/64	SSS250332	16.08
2-1/2	3-34/64	SSS250334	16.08
3	3-24/64	SSS300324	16.54
3	3-28/64	SSS300328	16.54
3	3-32/64	SSS300332	16.54
3	3-36/64	SSS300336	16.54
3	3-40/64	SSS300340	16.54
3	3-44/64	SSS300344	16.54
3	3-48/64	SSS300348	16.54
3	3-52/64	SSS300352	16.54
3	3-56/64	SSS300356	16.54
3	3-60/64	SSS300360	16.54
3	4	SSS300400	16.54
3	4-2/64	SSS300402	16.54

4	4-32/64	SSS400432	27.50
4	4-36/64	SSS400436	27.50
4	4-40/64	SSS400440	27.50
4	4-44/64	SSS400444	27.50
4	4-48/64	SSS400448	27.50
4	4-52/64	SSS400452	27.50
4	4-56/64	SSS400456	27.50
4	4-60/64	SSS400460	27.50
4	5	SSS400500	27.50
4	5-2/64	SSS400502	27.50
6	6-16/64	SSS600616	69.10
6	6-24/64	SSS600624	69.10
6	6-32/64	SSS600632	69.10
6	6-40/64	SSS600640	69.10
6	6-48/64	SSS600648	69.10
6	6-56/64	SSS600656	69.10
6	7	SSS600700	69.10
6	7-8/64	SSS600708	69.10
6	7-16/64	SSS600716	69.10
6	7-24/64	SSS600724	69.10

**Aluminum**

2	2-28/64	SAL200228	10.63
2	2-32/64	SAL200232	10.63
2	2-36/64	SAL200236	10.63
2	2-40/64	SAL200240	10.63
2	2-44/64	SAL200244	10.63
2	2-48/64	SAL200248	10.63
2	2-52/64	SAL200252	10.63
2	2-56/64	SAL200256	10.63
2	2-60/64	SAL200260	10.63
2	3	SAL200300	10.63
3	3-32/64	SAL300332	16.07
3	3-36/64	SAL300336	16.07
3	3-40/64	SAL300340	16.07
3	3-44/64	SAL300344	16.07
3	3-48/64	SAL300348	16.07
3	3-52/64	SAL300352	16.07
3	3-56/64	SAL300356	16.07
3	3-60/64	SAL300360	16.07
3	4	SAL300400	16.07
3	4-4/64	SAL300404	16.07
4	4-36/64	SAL400436	21.51
4	4-40/64	SAL400440	21.51
4	4-44/64	SAL400444	21.51
4	4-48/64	SAL400448	21.51
4	4-52/64	SAL400452	21.51
4	4-56/64	SAL400456	21.51
4	4-60/64	SAL400460	21.51
4	5	SAL400500	21.51
4	5-4/64	SAL400504	21.51
4	5-8/64	SAL400508	21.51
6	6-32/64	SAL600632	63.55
6	6-40/64	SAL600640	63.55
6	6-48/64	SAL600648	63.55
6	6-56/64	SAL600656	63.55



**Campbell Fittings**

**D**



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**We Ship**  
**World Wide**

**CampbellCrimpnology™ offers hose assembly systems for your high-pressure steam and air applications**



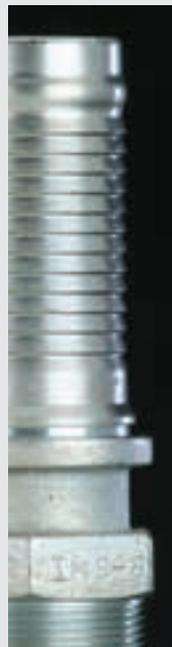
Smooth End Detail

Interlock Groove

## VITON SEAL GROUND JOINT COUPLINGS, AIR HAMMER COUPLINGS, AND MALE STEMS

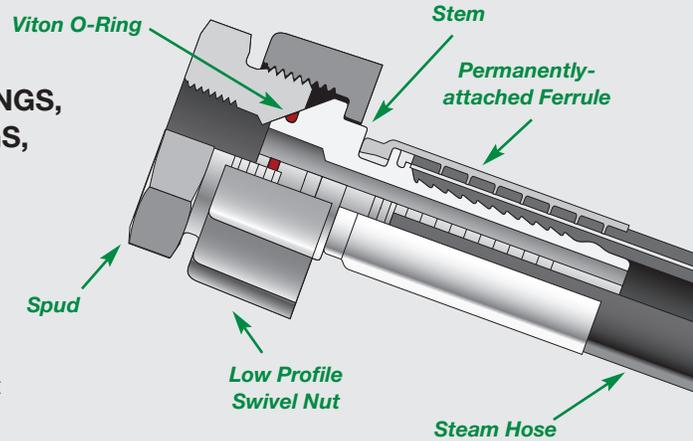
### Features & Benefits

- Viton Seal Couplings pass 1000 hour MIL-H-29210 steam test.
- Eliminates leaks with nut hand tightened.
- Viton seal (formulated by DuPont for high pressure steam and air applications) is protected inside machined stem groove and by swivel nut, extending working life.
- Spud does not contain plastic seat, extending working life.
- Interchangeable with old-style domestic ground joint couplings.
- Machined hose ends with smooth end detail to reduce potential failure due to abrasion - grips, seals, and protects hose.
- Interlock groove locks ferrule into place for superior holding power.
- Crimped assemblies are low profile and eliminate sharp edges from bolts.
- Machined from carbon steel, cast ductile iron (meets ASTM A395 specification), and 316 stainless steel.



### Recommended hose attachment

- Interlocking ferrules
- Interlocking U-bolt clamps (Page 29)



### Swivel Interlocking Male Stem

- Designed for use with steam.
- Available with staked ferrule for crimped steam applications.
- Allows end-user easy connection into plant facilities.

### Staked-On Ferrule for steam hose

Designed specifically for certain hose brands. Check with factory for information.

- Crimped steam assemblies eliminate the need for retightening bolts.
- Eliminates leaks, cuts costs caused by leaky clamps.
- Ferrule serrations bite to the wire achieving electrical continuity.
- Meets 250 PSI pressure rating for steam applications.

## INTERLOCKING U-BOLT CLAMPS

### Features & Benefits

- 360° design wraps completely around hose for superior retention.
- Clamps fit hoses tightly without cracking, eliminating costly rework.
- Bolts on "up side" allow easier tightening/re-tightening and improve "dragability".
- Field repairable.

### MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1

Hose System Components			Hose Size										
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8
Viton Ground Joint/Air Hammer Cplg	U-Bolt Clamp	Rubber/Steam	1500	1250	1250	1250	1250	1250	800	500	500	-	-
Male Stem and Mender	U-Bolt Clamp	Rubber/Steam	1500	1250	1250	1250	1250	1250	800	500	500	-	-
Viton Ground Joint Coupling	Staked Ferrule	Steam	1250	1250	1250	-	-	-	-	-	-	-	-
Viton Ground Joint/Air Hammer Cplg	Long Ferrule	Rubber	1000	1000	1000	1000	1000	1000	650	400	400	-	-
Male Stem	Long Ferrule	Rubber	1000	1000	1000	1000	1000	1000	650	400	400	-	-
Male Stem	Staked Ferrule	Steam	1250	1250	1250	-	-	-	-	-	-	-	-



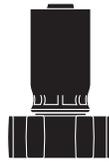
**VITON SEAL GROUND JOINT COUPLINGS**

**DISTRIBUTOR AUTHORIZATION**

Safety is of paramount concern to everyone. Due to the volatile nature of compressed air and steam, and in accordance with our ISO 9000 quality system, we reserve the right to restrict sales of our Ground Joint Viton® Seal Couplings and U-Bolt Clamps to only those distributors authorized by Campbell Fittings.

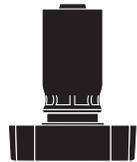
Please contact our customer service department for more information.

**VITON SEAL HOSE STEM (staked ferrule & low profile nut)**



Steel hose size	part number	list each
1/2	**	**
3/4	**	**
1	**	**

**VITON SEAL HOSE STEM (staked ferrule & wing nut)**



Steel hose size	part number	list each
1/2	**	**
3/4	**	**
1	**	**

**INTERLOCKING MALE STEM**



Steel npt x hose	part number	list each
1/4 X 1/4	IMS-1	7.25
1/4 X 3/8	IMS-1X38	8.00
3/8 X 1/4	IMS-38X1	8.40
3/8 X 3/8	IMS-38	6.30
3/8 X 1/2	IMS-38X2	7.80
1/4 X 1/2	IMS-1X2	7.80
1/2 X 3/8	IMS-2X38	11.10
1/2 X 1/2	IMS-2	6.45
1/2 X 3/4	IMS-2X3	14.60
3/4 X 1/2	IMS-3X2	18.60
3/4 X 3/4	IMS-3	9.89
3/4 X 1	IMS-3X4	22.77
1 X 3/4	IMS-4X3	22.37
1 X 1	IMS-4	14.47

Machined Ductile Iron	part number	list each
1-1/4 X 1-1/4	IMS-5	22.89
1-1/2 X 1-1/2	IMS-6	25.02
2 X 2	IMS-8	34.82
2-1/2 X 2-1/2	IMS-10	63.77
3 X 3	IMS-12	86.98
4 X 4	IMS-16	153.08

316 Stainless	part number	list each
1/2 X 1/2	IMSS-2	63.00
3/4 X 3/4	IMSS-3	64.00
1 X 1	IMSS-4	65.00

**SWIVEL MALE STEM (for use with steam)**



Plated Steel hose size	part number	list each
3/4	IMS-3SW	36.43

**SWIVEL MALE STEM (with staked ferrule for use with steam)**



Plated Steel hose size	part number	list each
3/4	**	**
1	**	**

**VITON SEAL HOSE STEM**



Steel hose size	part number	list each
1/2	GJS-2	10.08
3/4	GJS-3	18.18
1	GJS-4	18.18

**Machined Ductile Iron**

1-1/4	GJS-5	28.04
1-1/2	GJS-6	28.70
2	GJS-8	35.99
2-1/2	GJS-10	59.92
3	GJS-12	91.78
4	GJS-16	170.32

**316 Stainless**

1/2	GJSS-2	93.40
3/4	GJSS-3	100.19
1	GJSS-4	127.37

**VITON SEAL MALE END (Viton seal x male npt)**



Steel npt size	part number	list each
3/4	GJMS-3	52.59
1	GJMS-4	52.59
1-1/2	GJMS-6	85.94
2	GJMS-8	90.62

**VITON SEAL FEMALE END (Viton seal x female npt)**



Steel npt size	part number	list each
3/4	GJFS-3	107.85

**FEMALE SET (with low-profile nut)**



Steel/Ductile Iron hose size	part number	list each
1/2	RGJF-2	32.72
3/4	RGJF-3	41.15
1	RGJF-4	41.15
1-1/4	RGJF-5	72.87
1-1/2	RGJF-6	69.93
2	RGJF-8	84.23
2-1/2	RGJF-10	220.55
3	RGJF-12	224.29
4	RGJF-16	508.72

316 Stainless hose size	part number	list each
1/2	RGJFSS-2	260.61
3/4	RGJFSS-3	270.37
1	RGJFSS-4	299.34

**FEMALE SET (with wing nut)**



Steel/Ductile hose size	part number	list each
1/2	GJF-2	32.72
3/4	GJF-3	41.15
1	GJF-4	41.15
1-1/4	GJF-5	72.87
1-1/2	GJF-6	69.93
2	GJF-8	84.23
2-1/2	GJF-10	220.55
3	GJF-12	221.45
4	GJF-16	494.72

**INTERLOCKING MALE STEM (with staked ferrule)**



Steel hose size	part number	list each
1/2	**	**
3/4	**	**
1	**	**

\*\* Contact Customer Service for part numbers, prices, and availability

Viton should never be used with ammonia. Please contact

**FEMALE SPUD**



**Steel**

npt size	part number	list each
1/2	GFS-2	16.70
3/4	GFS-3	14.16
1	GFS-4	14.16

**Machined Ductile Iron**

1-1/4	GFS-5	31.11
1-1/2	GFS-6	27.50
2	GFS-8	32.91
2-1/2	GFS-10	88.84
3	GFS-12	72.74
4	GFS-16	168.78

**316 Stainless**

1/2	GFSS-2	81.50
3/4	GFSS-3	88.32
1	GFSS-4	90.00

**MALE SPUD**



**Steel**

npt size	part number	list each
1/2	GMS-2	23.59
3/4	GMS-3	22.28
1	GMS-4	23.43

**Machined Ductile Iron**

1-1/4	GMS-5	53.32
1-1/2	GMS-6	51.37
2	GMS-8	54.11
2-1/2	GMS-10	133.12
3	GMS-12	140.55

**DOUBLE SPUD**



**Steel**

size	part number	list each
1/2	GDS-2	38.77
3/4	GDS-3	36.14
1	GDS-3	36.14

**Machined Ductile Iron**

1-1/4	GDS-5	64.62
1-1/2	GDS-5	64.62
2	GDS-8	64.54
2-1/2	GDS-10	137.32
3	GDS-12	145.39

**SOCKET WELD SPUD**



**316 Stainless**

size	part number	list each
3/4	GWSS-3	88.32
1	GWSS-4	90.00

All steel and machined ductile iron parts are zinc plated. DuPont Viton is the best O-ring material for couplings used in both air and steam applications. For special applications, O-rings of other materials are available upon request.

**LOW PROFILE NUT**



**Machined Ductile Iron**

size	part number	list each
1/2	RGN-2	5.41
3/4	RGN-3	8.82
1	RGN-3	8.82
1-1/4	RGN-5	13.73
1-1/2	RGN-5	13.73
2	RGN-8	15.34
2-1/2	RGN-10	68.64
3	RGN-12	59.79
4	RGN-16	169.62

**316 Stainless**

1/2	RGNSS-2	85.18
3/4	RGNSS-3	95.71
1	RGNSS-3	95.71

**WING NUT**



**Machined Ductile Iron**

size	part number	list each
1/2	GN-2	5.41
3/4	GN-3	8.82
1	GN-3	8.82
1-1/4	GN-5	13.73
1-1/2	GN-5	13.73
2	GN-8	15.34
2-1/2	GN-10	68.64
3	GN-12	59.79
4	GN-16	169.62

**INTERLOCKING HOSE MENDER**



**Steel**

hose size	part number	list each
1/2	IHM-2	22.71
3/4	IHM-3	23.90
1	IHM-4	35.14
1-1/4	IHM-5	50.66
1-1/2	IHM-6	68.63
2	IHM-8	42.49

**DEAD-END**



size	part number	list each
3/4	GDC-3	55.86
1	GDC-3	55.86

**VITON O-RING**



size	part number	list each
1/2	VO-2	1.02
3/4	VO-3	1.19
1	VO-3	1.19
1-1/4	VO-5	2.19
1-1/2	VO-5	2.19
2	VO-8	3.03
2-1/2	VO-10	4.63
3	VO-12	6.37

**HEAVY DUTY  
VITON SEAL  
AIR HAMMER  
COUPLINGS**



**FEMALE SET  
(with low profile nut)**



hose size	part number	list each
3/4	RHJF-3	59.36
1	RHJF-4	54.44

**FEMALE SET  
(with wing nut)**



hose size	part number	list each
3/4	HJF-3	59.36
1	HJF-4	54.44

**HOSE STEM**



hose size	part number	list each
3/4	HJS-3	19.97
1	HJS-4	17.40

**FEMALE SPUD**



npt size	part number	list each
3/4	HFS-3	25.48
1	HFS-4	23.12

**MALE SPUD**



npt size	part number	list each
3/4	HMS-3	33.74
1	HMS-4	31.67

**LOW PROFILE SWIVEL NUT**



size	part number	list each
3/4	RHN-3	13.92

**WING NUT**



**Ductile Iron**

size	part number	list each
3/4	HN-3	13.92
1	HN-3	13.92

**DOUBLE SPUD**



**Steel**

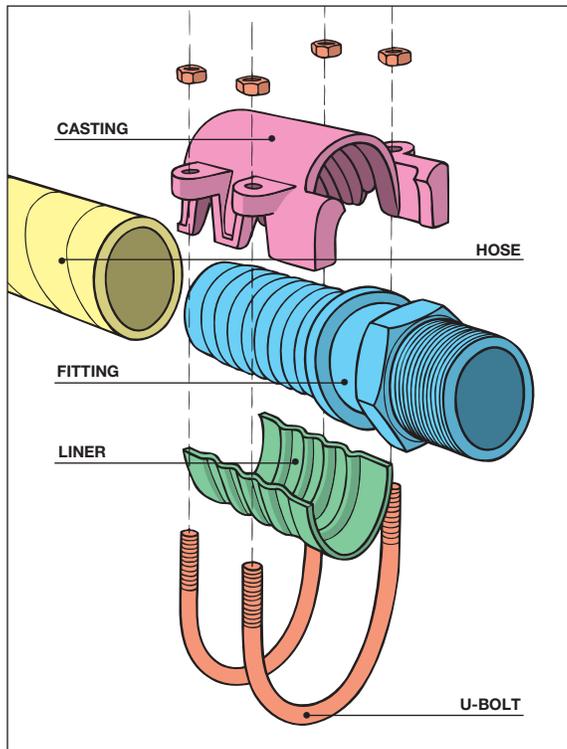
size	part number	list each
3/4	HDS-3	34.39
1	HDS-3	34.39

**DEAD END**



**Steel**

size	part number	list each
3/4	HDC-3	69.16
1	HDC-3	69.16



**INTERLOCKING U-BOLT CLAMPS**



**SINGLE U-BOLT**



hose o.d. min	hose o.d. max	hose size	part number	list each
13/16	1-1/32	1/2	IC-2	8.09
1-1/16	1-1/4	3/4	IC-3S	10.47
1-3/32	1-3/8	3/4	IC-3	10.47

**DOUBLE U-BOLT**



hose o.d. min	hose o.d. max	hose size	part number	list each
1-5/16	1-1/2	1	IC-4	18.67
1-1/2	1-11/16	1	IC-4L	18.94
1-9/16	2	1-1/4	IC-5	31.03
1-15/16	2-3/16	1-1/2	IC-6	26.25
2-3/16	2-3/8	1-1/2	IC-6L	28.62
2-11/32	2-11/16	2	IC-8	39.50
2-11/16	2-15/16	2	IC-8L	34.15
3	3-9/32	2-1/2	IC-10	50.17
3-9/32	3-9/16	2-1/2	IC-10L	67.49

**TRIPLE U-BOLT**



hose o.d. min	hose o.d. max	hose size	part number	list each
3-5/16	3-3/4	3	IC-12S	77.59
3-11/16	4-1/8	3	IC-12	83.63
4-1/16	4-1/2	3	IC-12L	116.67
4-5/16	4-3/4	4	IC-16S	221.87
4-11/16	5-1/8	4	IC-16	232.34
5-1/16	5-1/2	4	IC-16L	381.01

For your convenience, clamps are available bulk packed, upon request. Bulk pack price is the same as listed above. (IC-2 through IC-4L are packed 25 pieces per carton. IC-5 through IC-8L are packed 10 per carton.)

**WHIP CHEK® SAFETY CABLE (hose to hose)**



hose size	part number	list each
1/2	WC-1	26.08
3/4	WC-1	26.08
1	WC-1	26.08
1-1/4	WC-2	40.74
1-1/2	WC-2	40.74
2	WC-2	40.74
3	WC-2	40.74
4	WC-4	99.17

FERRULES FOR GROUND JOINT COUPLINGS,



**FERRULES**

**FERRULES  
 for ground joints**

<b>Plated Steel</b>			
<b>hose size</b>	<b>ferrule i.d.</b>	<b>part number</b>	<b>list each</b>
1/2	1	FPS050100S	8.64
1/2	1-4/64	FPS050104S	8.64
1/2	1-8/64	FPS050108S	8.64
3/4	1-16/64	FPS075116	7.85
3/4	1-20/64	FPS075120	7.85
3/4	1-24/64	FPS075124	7.85
3/4	1-28/64	FPS075128	7.85
3/4	1-32/64	FPS075132	7.85
1	1-32/64	FPS100132	9.86
1	1-36/64	FPS100136	9.86
1	1-40/64	FPS100140	9.86
1	1-44/64	FPS100144	9.86
1	1-48/64	FPS100148	9.86
1	1-52/64	FPS100152	9.86
1-1/4	1-52/64	FPS125152L	13.87
1-1/4	1-56/64	FPS125156L	13.87
1-1/4	1-60/64	FPS125160L	13.87
1-1/2	1-60/64	FPS150160L	16.60
1-1/2	2	FPS150200L	16.60
1-1/2	2-4/64	FPS150204L	16.60
1-1/2	2-8/64	FPS150208L	16.60
1-1/2	2-12/64	FPS150212L	16.60
1-1/2	2-16/64	FPS150216L	16.60
1-1/2	2-20/64	FPS150220L	16.60
1-1/2	2-24/64	FPS150224L	16.60

2	2-32/64	FPS200232L	20.16
2	2-36/64	FPS200236L	20.16
2	2-40/64	FPS200240L	20.16
2	2-44/64	FPS200244L	20.16
2	2-48/64	FPS200248L	20.16
2	2-52/64	FPS200252L	20.16
2	2-56/64	FPS200256L	20.16
2	2-60/64	FPS200260L	20.16
2-1/2	3-8/64	FPS250308L	27.72
2-1/2	3-12/64	FPS250312L	27.72
2-1/2	3-16/64	FPS250316L	27.72
2-1/2	3-20/64	FPS250320L	27.72
2-1/2	3-28/64	FPS250328L	27.72
3	3-36/64	FPS300336L	27.88
3	3-40/64	FPS300340L	27.88
3	3-44/64	FPS300344L	27.88
3	3-48/64	FPS300348L	27.88
3	3-52/64	FPS300352L	27.88
3	3-56/64	FPS300356L	27.88
3	3-60/64	FPS300360L	27.88
3	4	FPS300400L	27.88
3	4-8/64	FPS300408L	27.88
3	4-16/64	FPS300416L	27.88
4	4-40/64	FPS400440L	37.85
4	4-44/64	FPS400444L	37.85
4	4-48/64	FPS400448L	37.85
4	4-52/64	FPS400452L	37.85
4	4-56/64	FPS400456L	37.85
4	4-60/64	FPS400460L	37.85
4	5	FPS400500L	37.85
4	5-4/64	FPS400504L	37.85
4	5-12/64	FPS400512L	37.85
4	5-20/64	FPS400520L	37.85
4	5-28/64	FPS400528L	37.85

**These ferrules should never be used for steam applications**

For a complete listing of all Ferrules and Sleeves, go to Section G.



**CampbellCrimpnology™ offers hose assembly systems for all your air applications:**



## Nitrogen Kills!

**Introducing Nitrogen-only Single-lock and Double-lock Couplings.**

**Specify the yellow ring!**

**Simply the best and safest way to avoid deadly nitrogen accidents in plant.**



## CAMPBELL SINGLE-LOCK (Bowes-style) DOUBLE-LOCK (Thor-style) COUPLINGS

### Features & Benefits

- High strength zinc-aluminum alloy sleeves never rust, never seize or gall.
- Crimpnology hose ends provide the ultimate in hose retention.
- New 1" sizes added
- Interchangeable with other Bowes and Thor style couplings.

## CAMPBELL SINGLE-LOCK (Nitrogen) DOUBLE-LOCK (Nitrogen) COUPLINGS

### Features & Benefits

- High strength zinc-aluminum alloy sleeves never rust, never seize or gall.
- Crimpnology hose ends provide the ultimate in hose retention.
- New 1" sizes added
- Interchangeable with other Bowes and Thor style couplings.

## SAFETY AND SAVINGS!

Universallock, Single-lock and Double-lock couplings meet OSHA regulation 29CFR1915.131 and MSHA 30 CFR65. 13021 requirements for air hose couplings. The fine for an unpinned/unlocked air hose coupling can be \$800 or more per infraction. Save your customer money and headaches. Use Campbell safety air hose couplings.



## UNIVERSAL COUPLINGS AND UNIVERSALOCK™ COUPLINGS

### Features & Benefits

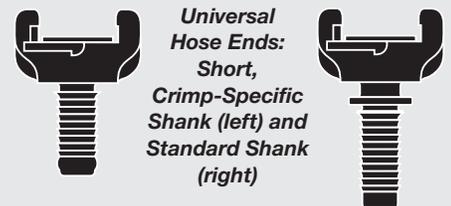
- Mates with domestic and imported universal couplings.
- UniversaLocks automatically lock onto mating coupling.
- Crimpnology hose end for superior retention and sealing.
- Cast ductile iron meets ASTM A536 specification.
- Washers manufactured from nitrile for superior oil resistance.

### Investment Cast Universal Hose Ends

- Investment casting provides a crisp high quality, hose-end surface-finish without costly machining.
- Crimpnology hose ends for superior retention and sealing.

#### Investment Cast

**Universal Hose Ends: Short, Crimp-Specific Shank (left) and Standard Shank (right)**



### MAXIMUM SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1

Hose System Components			Hose Size		
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1
UniversaLock	Ferrule	Air	300	300	300
UniversaLock	Bolt Clamp	Air	150	150	150
Universal	Ferrule	Air	150	150	150

## UNIVERSAL COUPLINGS



### MALE NPT



#### Ductile Iron

npt size	part number	list each	ctn qty
3/8	UM-38	9.35	25
1/2	UM-2	8.20	25
3/4	UM-3	8.40	25
1	UM-4	9.20	25

#### 316 Stainless

1/2	UMSS-2	60.24	25
3/4	UMSS-3	52.21	25
1	UMSS-4	56.24	25

### BLANK END



#### Ductile Iron

size	part number	list each	ctn qty
All	UB	13.03	25

### THREE WAY



#### Ductile Iron

size	part number	list each	ctn qty
All	UTW	24.06	12

### UNIVERSAL WASHER



#### Nitrile

size	part number	list each	ctn qty
All	UG	0.70	25

**Never use Universal Washers in UniversaLock Couplings**

### SAFETY CLIP



size	part number	list each	ctn qty
All	SC	0.35	25

### TWO-BOLT UNIVERSAL CLAMP



#### Ductile Iron

hose o.d. min to max	part no.	list each	ctn qty
3/4 to 15/16	UC-2	7.42	25
1 to 1-1/4	UC-3	7.48	25
1-1/4 to 1-17/32	UC-4	12.93	25

## UNIVERSALOCK™ COUPLINGS



### DISTRIBUTOR AUTHORIZATION

Safety is of paramount concern to everyone. Due to the volatile nature of compressed air, and in accordance with our ISO 9000 quality system, we reserve the right to restrict sales of our UniversaLock® Couplings to only those distributors authorized by Campbell Fittings.

Please contact our customer service department.

### HOSE END



#### Ductile Iron

#### (machined serrations)

hose size	part number	list each	ctn qty
3/8	UH-38	10.74	25
1/2	UH-2	6.90	25
5/8	UH-58	10.56	25
3/4	UH-3	7.05	25
1	UH-4	9.29	25

#### Plated Steel

#### (investment cast)

1/2	UH-2i	5.54	25
3/4	UH-3i	5.64	25
1	UH-4i	7.33	25

#### 316 Stainless

#### (machined serrations)

1/2	UHSS-2	55.68	25
3/4	UHSS-3	46.80	25
1	UHSS-4	51.75	25

### HOSE END (crimp specific)



#### Plated Steel

#### (investment cast)

hose size	part number	list each	ctn qty
3/4	UH-3C	4.94	25

### FEMALE NPT



#### Ductile Iron

npt size	part number	list each	ctn qty
3/8	UF-38	9.26	25
1/2	UF-2	8.50	25
3/4	UF-3	8.15	25
1	UF-4	10.41	25

#### 316 Stainless

1/2	UFSS-2	60.24	25
3/4	UFSS-3	52.21	25
1	UFSS-4	56.24	25

### HOSE END



#### Ductile Iron

#### (machined serrations)

hose size	part number	list each	ctn qty
1/2	ULH-2	26.54	10
3/4	ULH-3	26.54	10
1	ULH-4	27.05	10

### MALE END



#### Ductile Iron

npt size	part number	list each	ctn qty
1/2	ULM-2	26.54	10
3/4	ULM-3	26.54	10
1	ULM-4	27.05	10

### FEMALE END



#### Ductile Iron

npt size	part number	list each	ctn qty
1/2	ULF-2	26.54	10
3/4	ULF-3	26.54	10

### UNIVERSALOCK WASHER



#### Nitrile

size	part number	list each	ctn qty
All	ULW	2.75	25



**MALE X HOSE**



Plated Steel		list each
hose size	part number	
1/2	BMHS-2	23.88
3/4	BMHS-3	23.88
Brass		list each
hose size	part number	
1/2	BMHB-2	40.21
3/4	BMHB-3	40.21

**MALE X MALE NPT**



Plated Steel		list each
npt size	part number	
1/2	BMMS-2	24.68
3/4	BMMS-3	24.68
Brass		list each
npt size	part number	
1/2	BMMB-2	36.07
3/4	BMMB-3	36.07

**MALE X FEMALE NPT**



Plated Steel		list each
npt size	part number	
1/2	BMFS-2	23.88
3/4	BMFS-3	23.88
Brass		list each
npt size	part number	
1/2	BMFB-2	37.61
3/4	BMFB-3	37.61

**FEMALE X HOSE**



Plated Steel		list each
hose size	part number	
1/2	BFHS-2	19.35
3/4	BFHS-3	19.35
Brass		list each
hose size	part number	
1/2	BFHB-2	29.94
3/4	BFHB-3	28.94

**FEMALE X MALE NPT**



Plated Steel		list each
npt size	part number	
3/8	BFMS-38	19.35
1/2	BFMS-2	19.35
3/4	BFMS-3	19.35
1	BFMS-4	22.22
Brass		list each
npt size	part number	
3/8	BFMB-38	28.94
1/2	BFMB-2	28.94
3/4	BFMB-3	28.94
1	BFMB-4	33.28

**FEMALE X FEMALE NPT**



Plated Steel		list each
npt size	part number	
3/8	BFFS-38	19.35
1/2	BFFS-2	19.35
3/4	BFFS-3	19.35
1	BFFS-4	22.22
Brass		list each
npt size	part number	
3/8	BFFB-38	28.94
1/2	BFFB-2	28.94
3/4	BFFB-3	28.94
1	BFFB-4	33.28

**MALE X HOSE (with locking ring)**



Plated Steel		list each
hose size	part number	
3/8	BMHS-38L	32.72
1/2	BMHS-2L	32.72
3/4	BMHS-3L	32.72
1	BMHS-4L	36.65
Brass		list each
hose size	part number	
1/2	BMHB-2L	43.86
3/4	BMHB-3L	43.86
1	BMHB-4L	49.43

**MALE X MALE NPT (with locking ring)**



Plated Steel		list each
npt size	part number	
3/8	BMMS-38L	32.72
1/2	BMMS-2L	32.72
3/4	BMMS-3L	32.72
1	BMMS-4L	37.62
Brass		list each
npt size	part number	
1/2	BMMB-2L	43.86
3/4	BMMB-3L	43.86
1	BMMB-4L	49.43

**MALE X FEMALE NPT (with locking ring)**



Plated Steel		list each
npt size	part number	
3/8	BMFS-38L	32.72
1/2	BMFS-2L	32.72
3/4	BMFS-3L	32.72
1	BMFS-4L	37.62
Brass		list each
npt size	part number	
1/2	BMFB-2L	43.86
3/4	BMFB-3L	43.86
1	BMFB-4L	49.43

**GASKET**



Nitrile		list each
size	part number	
ALL	BGN-1	1.39



**DISTRIBUTOR AUTHORIZATION**

Safety is of paramount concern to everyone. Due to the dangers of Nitrogen, and in accordance with our ISO 9000 quality system, we reserve the right to restrict sales of our Nitrogen Couplings to only those distributors authorized by Campbell Fittings.

**MALE X HOSE (with Nitrogen ring)**



Plated Steel		list each
hose size	part number	
3/8	BMHS-38N	32.72
1/2	BMHS-2N	32.72
3/4	BMHS-3N	31.87
1	BMHS-4N	36.65
Brass		list each
hose size	part number	
1/2	BMHB-2N	43.86
3/4	BMHB-3N	43.86

**MALE X MALE NPT  
(with Nitrogen ring)**



<b>Plated Steel</b>			
npt size	part number	list each	
3/8	BMMS-38N	32.72	
1/2	BMMS-2N	32.72	
3/4	BMMS-3N	32.72	
1	BMMS-4N	37.62	
<b>Brass</b>			
1/2	BMMSB-2N	43.86	
3/4	BMMSB-3N	43.86	
1	BMMSB-4N	49.43	

**MALE X FEMALE NPT  
(with Nitrogen ring)**



<b>Plated Steel</b>			
npt size	part number	list each	
3/8	BMFS-38N	32.72	
1/2	BMFS-2N	32.72	
3/4	BMFS-3N	32.72	
1	BMFS-4N	37.62	
<b>Brass</b>			
1/2	BMFSB-2N	43.86	
3/4	BMFSB-3N	43.86	
1	BMFSB-4N	49.43	



**DOUBLE-LOCK COUPLINGS  
(Thor interchange)**

**HOSE END**



<b>Plated Steel</b>			
hose size	part number	list each	
3/8	TLH-38	35.23	
1/2	TLH-2	35.23	
3/4	TLH-3	37.22	
1	TLH-4	56.71	
<b>Stainless</b>			
3/4	TLHSS-3	315.45	

**MALE NPT**



<b>Plated Steel</b>			
npt size	part number	list each	
3/8	TLM-38	33.33	
1/2	TLM-2	33.15	
3/4	TLM-3	33.15	
<b>Stainless</b>			
3/4	TLMSS-3	279.64	

**FEMALE NPT**



<b>Plated Steel</b>			
npt size	part number	list each	
1/2	TLF-2	37.96	
3/4	TLF-3	37.96	
<b>Stainless</b>			
3/4	TLFSS-3	279.64	

**MALE NPT  
(without locking sleeve)**



<b>Plated Steel</b>			
npt size	part number	list each	
3/8	TM-38	19.72	
1/2	TM-2	19.35	
3/4	TM-3	20.32	
1	TM-4	22.78	
<b>Stainless</b>			
3/4	TMSS-3	138.73	

**FEMALE NPT  
(without locking sleeve)**



<b>Plated Steel</b>			
npt size	part number	list each	
3/8	TF-38	22.74	
1/2	TF-2	24.63	
3/4	TF-3	24.74	
1	TF-4	26.94	
<b>Stainless</b>			
3/4	TFSS-3	138.73	

**GASKET**



<b>Nitrile</b>			
size	part number	list each	
ALL	TGN-1	2.63	

**DOUBLE-LOCK COUPLINGS  
(for Nitrogen use only)**



**DISTRIBUTOR AUTHORIZATION**

Safety is of paramount concern to everyone. Due to the dangers of Nitrogen, and in accordance with our ISO 9000 quality system, we reserve the right to restrict sales of our Nitrogen Couplings to only those distributors authorized by Campbell Fittings.

**HOSE END  
(with Nitrogen ring)**



<b>Plated Steel</b>			
hose size	part number	list each	
3/8	TLH-38N	46.86	
1/2	TLH-2N	46.86	
3/4	TLH-3N	49.50	
1	TLH-4N	75.42	

**MALE NPT  
(with Nitrogen ring)**



<b>Plated Steel</b>			
hose size	part number	list each	
3/8	TLM-38N	44.33	
1/2	TLM-2N	44.09	
3/4	TLM-3N	44.09	
1	TLM-4N	61.60	

**FEMALE NPT  
(with Nitrogen ring)**



<b>Plated Steel</b>			
hose size	part number	list each	
3/8	TLF-38N	50.49	
1/2	TLF-2N	50.49	
3/4	TLF-3N	50.49	
1	TLF-4N	61.60	

FERRULES FOR AIR HOSE COUPLINGS



**FEMALE X FEMALE**



npt size	part number	list each
1/2	ADI-12	POR
3/4	ADI-34	POR
1	ADI-10	POR

**MALE X MALE**



npt size	part number	list each
1/2	ADA-12	POR
3/4	ADA-34	POR
1	ADA-10	POR

**FEMALE X DOUBLE MALE  
 (female 1" npt)**



npt size	part number	list each
1 X 3/4	DHA-10	POR

DHA-10 has downstream venting.

**FERRULES  
 (light duty)**



**Plated Steel**

hose size	ferrule i.d.	part number	list each	ctn qty
1/2	58/64	FLPS050058	1.07	25
1/2	60/64	FLPS050060	1.07	25
3/4	1-8/64	FLPS075108	1.43	25
3/4	1-10/64	FLPS075110	1.43	25
3/4	1-12/64	FLPS075112	1.43	25
3/4	1-14/64	FLPS075114	1.43	25
3/4	1-16/64	FLPS075116	1.43	25
3/4	1-18/64	FLPS075118	1.43	25
1	1-28/64	FLPS100128	2.06	25
1	1-30/64	FLPS100130	2.06	25
1	1-32/64	FLPS100132	2.06	25
1	1-34/64	FLPS100134	2.06	25
1	1-36/64	FLPS100136	2.06	25

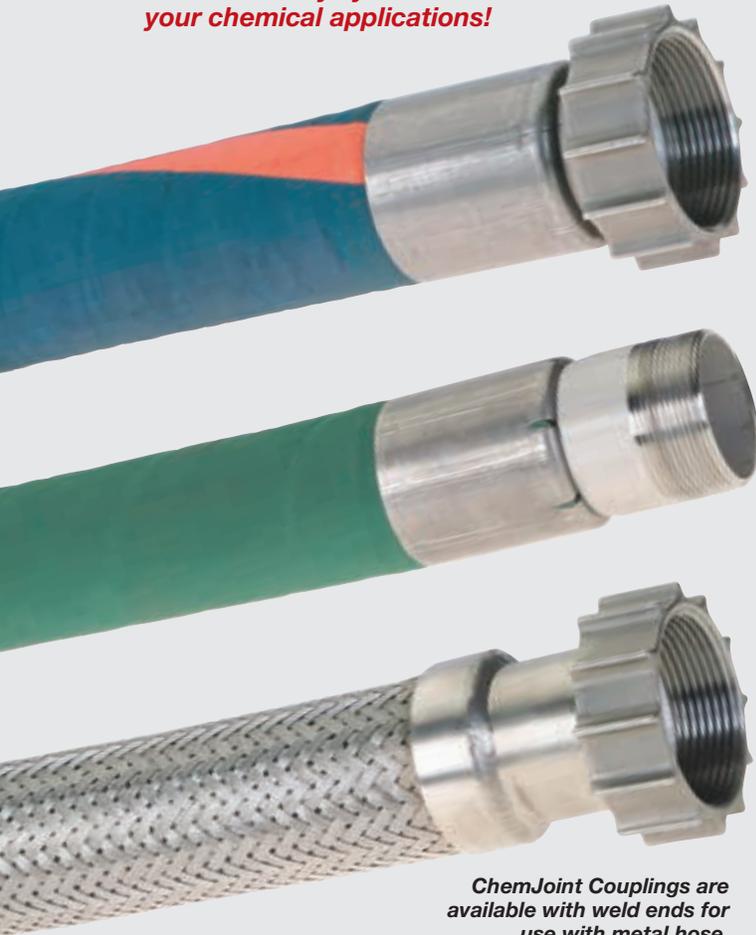
**304 Stainless**

1/2	58/64	FLSS050058	2.28	25
3/4	1-8/64	FLSS075108	2.64	25
3/4	1-12/64	FLSS075112	2.64	25
3/4	1-14/64	FLSS075114	2.64	25
3/4	1-16/64	FLSS075116	2.64	25
3/4	1-18/64	FLSS075118	2.64	25
1	1-28/64	FLSS100128	3.89	25
1	1-30/64	FLSS100130	3.89	25
1	1-32/64	FLSS100132	3.89	25
1	1-34/64	FLSS100134	3.89	25
1	1-36/64	FLSS100136	3.89	25

For a complete listing of all Ferrules and Sleeves, go to Section G.



**CampbellCrimpnology™ offers hose assembly systems for all your chemical applications!**



*ChemJoint Couplings are available with weld ends for use with metal hose.*

**CHEMJOUNT™ COUPLINGS & MALE STEMS**

**Description**

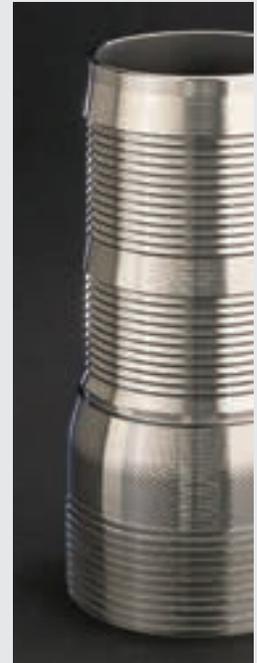
ChemJoint Couplings and Male Stems create an extremely versatile chemical hose assembly system. The system solves problematic cam and groove issues such as pressure, temperature, side load, viscosity, line dedication and ergonomics.

**Features and Benefits**

- Graduated serration pattern - sharper near the interlock, rounder near the end. Grips and seals plastic lined chemical hose without cutting through the tube.
- Interlock-groove locks ferrule into place for the ultimate in holding power.
- Crimped assemblies are low profile and eliminate sharp edges from bands.
- Viton seal allows coupling to meet pressure ratings with nut hand tightened.

**Recommended hose attachment**

- Interlocking ferrules
- Preformed bands (Section I)



*(left)  
1" ChemJoint Coupling Set*



*(right)  
1" ChemJoint Union with Viton Spud*

**MAX. SYSTEM WORKING PRESSURE (PSI @ 70°F) SEE NOTE 1**

Hose System Components			Hose Size										
Fitting/Coupling	Attachment	Hose Type <sup>2</sup>	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8
ChemJoint/Male Stem	Ferrule	Chemical	350	400	450	325	250	250	225	225	200	-	-
ChemJoint/Male Stem	Ferrule	Rubber	350	400	450	425	400	350	325	300	250	-	-
ChemJoint Weld-On and Union	None	None	-	800	800	-	650	600	-	600	-	-	-

See footnotes 1 and 2 on Page 1



## CHEMJOINT COUPLINGS

### DISTRIBUTOR AUTHORIZATION

Safety is of paramount concern to everyone. Due to the dangerous nature of chemical hose applications, and in accordance with our ISO 9000 quality system, we reserve the right to restrict sales of our ChemJoint™ Couplings and Male Stems to only those distributors authorized by Campbell Fittings.

Please contact our customer service department for

## CHEMJOINT MALE STEM



### 316 Stainless

hose size	part number	list each
1/2	CJMS-2	41.70
3/4	CJMS-3	41.70
1	CJMS-4	50.03
1-1/4	CJMS-5	58.36
1-1/2	CJMS-6	65.03
2	CJMS-8	71.70
2-1/2	CJMS-10	113.41
3	CJMS-12	146.38
4	CJMS-16	216.29

## CHEMJOINT COUPLING FEMALE SET



### 316 Stainless

hose size	part number	list each
3/4	CJSS-3	321.84
1	CJSS-4	321.84
1-1/2	CJSS-6	398.57
2	CJSS-8	541.97
3	CJSS-12	975.54

## CHEMJOINT FEMALE VITON SPUD



### 316 Stainless

npt size	part number	list each
3/4	CJVS-3	125.08
1	CJVS-4	125.08
1-1/2	CJVS-6	140.90
2	CJVS-8	250.14
3	CJVS-12	483.60

### 316 Stainless with ACME threads

npt size	part number	list each
1	CJVS-4A	158.00
2	CJVS-8A	311.00

## CHEMJOINT HOSE STEM



### 316 Stainless

hose size	part number	list each
3/4	CJHS-3	108.40
1	CJHS-4	108.40
1-1/2	CJHS-6	108.40
2	CJHS-8	116.73
3	CJHS-12	161.73

## CHEMJOINT WELD-ON STEM



### 316 Stainless

size	part number	list each
1	CJWS-4	100.08
1-1/2	CJWS-6	100.08
2	CJWS-8	108.40
3	CJWS-12	133.40

## CHEMJOINT MALE THREADED STEM



### 316 Stainless

npt size	part number	list each
1	CJTS-4	108.40
1-1/2	CJTS-6	108.40
2	CJTS-8	116.73
3	CJTS-12	161.73

## CHEMJOINT UNION WITH VITON SPUD



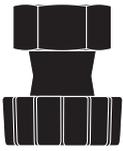
### 316 Stainless

npt size	part number	list each
3/4	CJFU-3	541.97
1	CJFU-4	625.34
2	CJFU-8	792.10
3	CJFU-12	1067.27

Viton should never be used with ammonia.

Please contact our engineering department for information on all our gasketing materials.

**CHEMJOINT UNION (without Viton Spud)**



**316 Stainless**

npt size	part number	list each
3/4	CJFS-3	416.92
1	CJFS-4	500.26
2	CJFS-8	541.97
3	CJFS-12	583.66

**316 Stainless with ACME threads**

npt size	part number	list each
1	CJFS-4A	591.00
2	CJFS-8A	633.00

**CHEMJOINT NUT**



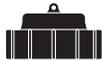
**316 Stainless**

size	part number	list each
3/4	CJN-3	85.19
1	CJN-3	85.19
1-1/2	CJN-6	149.26
2	CJN-8	175.08
3	CJN-12	330.19

**316 Stainless with ACME threads**

npt size	part number	list each
1	CJN-4A	103.00
2	CJN-8A	187.00

**CHEMJOINT DUST CAP**



**316 Stainless**

size	part number	list each
3/4	CJDC-3	83.38
1	CJDC-3	83.38
2	CJDC-8	166.78
3	CJDC-12	333.53

**316 Stainless with ACME threads**

npt size	part number	list each
1	CJDC-4A	125.00
2	CJDC-8A	174.00

**CHEMJOINT VITON® SEAL DUST PLUG**



**316 Stainless**

size	part number	list each
3/4	CJDP-3	119.15
1	CJDP-3	119.15
2	CJDP-8	303.49
3	CJDP-12	546.62

**316 Stainless with ACME threads**

npt size	part number	list each
1	CJDP-4A	165.00
2	CJDP-8A	374.00

**FERRULES**



**FERRULES for chemjoint couplings**



**304 Stainless**

hose size	ferrule i.d.	part number	list each
1/2	1	FSS050100	9.18
1/2	1-4/64	FSS050104	9.18
1/2	1-8/64	FSS050108	9.18
3/4	1-12/64	FSS075112	9.51
3/4	1-16/64	FSS075116	9.51
3/4	1-20/64	FSS075120	9.51
3/4	1-24/64	FSS075124	9.51
3/4	1-28/64	FSS075128	9.51
3/4	1-32/64	FSS075132	9.51
1	1-32/64	FSS100132	9.85
1	1-36/64	FSS100136	9.85
1	1-40/64	FSS100140	9.85
1	1-44/64	FSS100144	9.85
1	1-48/64	FSS100148	9.85
1	1-52/64	FSS100152	9.85
1-1/4	1-52/64	FSS125152	11.84
1-1/4	1-56/64	FSS125156	11.84
1-1/4	1-60/64	FSS125160	11.84
1-1/2	1-60/64	FSS150160	15.45
1-1/2	2	FSS150200	15.45
1-1/2	2-4/64	FSS150204	15.45
1-1/2	2-8/64	FSS150208	15.45
1-1/2	2-12/64	FSS150212	15.45
1-1/2	2-16/64	FSS150216	15.45
1-1/2	2-20/64	FSS150220	15.45
1-1/2	2-24/64	FSS150224	15.45
2	2-32/64	FSS200232	17.12
2	2-36/64	FSS200236	17.12
2	2-40/64	FSS200240	17.12
2	2-44/64	FSS200244	17.12
2	2-48/64	FSS200248	17.12
2	2-52/64	FSS200252	17.12
2	2-56/64	FSS200256	17.12
2	2-60/64	FSS200260	17.12
2-1/2	3-8/64	FSS250308	17.12
2-1/2	3-12/64	FSS250312	17.12
2-1/2	3-16/64	FSS250316	17.12
2-1/2	3-20/64	FSS250320	17.12
2-1/2	3-28/64	FSS250328	17.12
3	3-36/64	FSS300336	28.08
3	3-40/64	FSS300340	28.08
3	3-44/64	FSS300344	28.08
3	3-48/64	FSS300348	28.08
3	3-52/64	FSS300352	28.08
3	3-56/64	FSS300356	28.08
3	3-60/64	FSS300360	28.08
3	4	FSS300400	28.08
4	4-36/64	FSS400436	65.18
4	4-40/64	FSS400440	65.18
4	4-44/64	FSS400444	65.18
4	4-48/64	FSS400448	65.18
4	4-52/64	FSS400452	65.18
4	4-56/64	FSS400456	65.18

For a complete listing of all Ferrules and Sleeves



**Call Toll Free: 1-866-711-4673**  
**International: +1-727-342-5086**



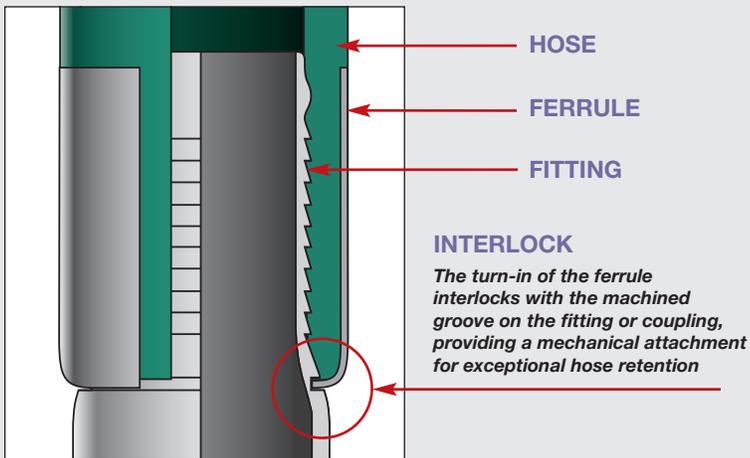


**CampbellCrimpnology™ ...  
the only comprehensive package of  
crimping products in the industry!**



## CampbellCrimpnology™

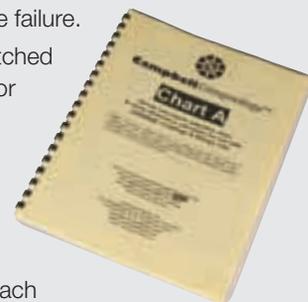
Crimpnology refers to all of the technology involved in crimping: the integrated design of every fitting, coupling, ferrule, and sleeve; the crimp procedures; crimp specifications; and crimp training & support.



## Features and Benefits

Crimpnology offers the following “7 Essentials” for crimping safe, repeatable, performance-rated hose systems:

- Interlock groove on all fittings and couplings is compatible with the turn-in end of the ferrule to ensure a 360° ferrule-to-fitting interlock.
- Serrations specifically designed for crimping provide maximum hose retention without potential tube failure.
- Shank length and ferrule/sleeve length are matched to maximize retention and to avoid hose tube or cover damage.
- Detailed assembly procedures are provided, including information to ensure use of compatible components.
- Detailed crimping procedures (right) ensure appropriate crimp specification is derived for each hose and fitting combination.



- On-site crimping training by a Hose System Specialist, including a CD/video for review (left), is offered by Campbell to assist distributor personnel.
- A daytime, toll-free “hotline” is manned by a Campbell Hose System Specialist to assist in all aspects of training.

### FERRULE & SLEEVE PART NUMBERING

PRODUCT	MATERIAL	FERRULE/SLEEVE I.D.
F = Ferrule	PS = Plated Steel	216 = 2-16/64"
S = Sleeve	SS = Stainless Steel	340 = 3-40/64"

**F PS 150 216 L**

NOMINAL HOSE SIZE      NON-STANDARD LENGTH

## Performance-Rated

All Campbell pressure ratings are established and verified by hydrostatic testing to a 4X safety factor where applicable (see page 1 for pressure rating information). Test data and information regarding various combinations of hoses and fittings are available upon request.

Note: Campbell sleeves may be used on non-Campbell fittings. We cannot provide crimp specifications or recommend working pressures for non-Campbell parts. The pressure ratings in this catalog are valid only



**FERRULES**

**FERRULES**

for use with products shown below only:



**Crimpnology  
Nipples**  
(page 13)



**Campbell  
Cobra  
Parts C & E**  
(page 17)



**ChemJoint  
Couplings &  
Male Stems**  
(page 39)

**Plated Steel**



hose size	ferrule i.d.	part number	list each
3/4	1-12/64	FPS075112	7.85
3/4	1-20/64	FPS075120	7.85
3/4	1-24/64	FPS075124	7.85
3/4	1-28/64	FPS075128	7.85
3/4	1-32/64	FPS075132	7.85
1	1-32/64	FPS100132	9.86
1	1-36/64	FPS100136	9.86
1	1-40/64	FPS100140	9.86
1	1-44/64	FPS100144	9.86
1	1-48/64	FPS100148	9.86
1	1-52/64	FPS100152	9.86
1-1/4	1-52/64	FPS125152	10.25
1-1/4	1-56/64	FPS125156	10.25
1-1/4	1-60/64	FPS125160	10.25
1-1/2	1-60/64	FPS150160	11.24
1-1/2	2	FPS150200	11.24
1-1/2	2-4/64	FPS150204	11.24
1-1/2	2-8/64	FPS150208	11.24
1-1/2	2-12/64	FPS150212	11.24
1-1/2	2-16/64	FPS150216	11.24
1-1/2	2-20/64	FPS150220	11.24
1-1/2	2-24/64	FPS150224	11.24
2	2-32/64	FPS200232	12.56
2	2-36/64	FPS200236	12.56
2	2-40/64	FPS200240	12.56
2	2-44/64	FPS200244	12.56
2	2-48/64	FPS200248	12.56
2	2-52/64	FPS200252	12.56
2	2-56/64	FPS200256	12.56
2	2-60/64	FPS200260	12.56
2-1/2	3-8/64	FPS250308	16.72
2-1/2	3-12/64	FPS250312	16.72
2-1/2	3-16/64	FPS250316	16.72
2-1/2	3-20/64	FPS250320	16.72
2-1/2	3-28/64	FPS250328	16.72
3	3-36/64	FPS300336	16.98
3	3-40/64	FPS300340	16.98
3	3-44/64	FPS300344	16.98
3	3-48/64	FPS300348	16.98
3	3-52/64	FPS300352	16.98
3	3-56/64	FPS300356	16.98
3	3-60/64	FPS300360	16.98
3	4	FPS300400	16.98
3	4-8/64	FPS300408	16.98
3	4-16/64	FPS300416	16.98
4	4-36/64	FPS400436	22.31

4	4-52/64	FPS400452	22.31
4	4-56/64	FPS400456	22.31
4	4-60/64	FPS400460	22.31
4	5	FPS400500	22.31
4	5-4/64	FPS400504	22.31
6	6-40/64	FPS600640	49.99
6	6-56/64	FPS600656	49.99
6	7-8/64	FPS600708	49.99
6	7-24/64	FPS600724	49.99

**304 Stainless**

1/2	1	FSS050100	9.18
1/2	1-4/64	FSS050104	9.18
1/2	1-8/64	FSS050108	9.18
3/4	1-12/64	FSS075112	9.51
3/4	1-16/64	FSS075116	9.51
3/4	1-20/64	FSS075120	9.51
3/4	1-24/64	FSS075124	9.51
3/4	1-28/64	FSS075128	9.51
3/4	1-32/64	FSS075132	9.51
1	1-32/64	FSS100132	9.85
1	1-36/64	FSS100136	9.85
1	1-40/64	FSS100140	9.85
1	1-44/64	FSS100144	9.85
1	1-48/64	FSS100148	9.85
1	1-52/64	FSS100152	9.85
1-1/4	1-52/64	FSS125152	11.84
1-1/4	1-56/64	FSS125156	11.84
1-1/4	1-60/64	FSS125160	11.84
1-1/2	1-60/64	FSS150160	15.45
1-1/2	2	FSS150200	15.45
1-1/2	2-4/64	FSS150204	15.45
1-1/2	2-8/64	FSS150208	15.45
1-1/2	2-12/64	FSS150212	15.45
1-1/2	2-16/64	FSS150216	15.45
1-1/2	2-20/64	FSS150220	15.45
1-1/2	2-24/64	FSS150224	15.45
2	2-32/64	FSS200232	17.12
2	2-36/64	FSS200236	17.12
2	2-40/64	FSS200240	17.12
2	2-44/64	FSS200244	17.12
2	2-48/64	FSS200248	17.12
2	2-52/64	FSS200252	17.12
2	2-56/64	FSS200256	17.12
2	2-60/64	FSS200260	17.12
2-1/2	3-8/64	FSS250308	17.12
2-1/2	3-12/64	FSS250312	17.12
2-1/2	3-16/64	FSS250316	17.12
2-1/2	3-20/64	FSS250320	17.12
2-1/2	3-28/64	FSS250328	17.12
3	3-36/64	FSS300336	28.08
3	3-40/64	FSS300340	28.08
3	3-44/64	FSS300344	28.08
3	3-48/64	FSS300348	28.08
3	3-52/64	FSS300352	28.08
3	3-56/64	FSS300356	28.08
3	3-60/64	FSS300360	28.08
3	4	FSS300400	28.08
4	4-36/64	FSS400436	65.18
4	4-40/64	FSS400440	65.18
4	4-44/64	FSS400444	65.18
4	4-48/64	FSS400448	65.18
4	4-52/64	FSS400452	65.18
4	4-56/64	FSS400456	65.18
4	4-60/64	FSS400460	65.18
4	5	FSS400500	65.18
4	5-4/64	FSS400504	65.18



**Call Toll Free: 1-866-711-4673**  
**International: +1-727-342-5086**



**Plated Steel-Heavy Duty  
(for FRAC-16 fittings only)**

hose size	ferrule i.d.	part number	list each
4	4-48/64	FPS400448F	31.20
4	4-52/64	FPS400452F	31.20
4	4-56/64	FPS400456F	31.20
4	4-60/64	FPS400460F	31.20
4	5	FPS400500F	31.20

3	4-8/64	FPS300408L	27.88
3	4-16/64	FPS300416L	27.88
4	4-40/64	FPS400440L	37.85
4	4-44/64	FPS400444L	37.85
4	4-48/64	FPS400448L	37.85
4	4-52/64	FPS400452L	37.85
4	4-56/64	FPS400456L	37.85
4	4-60/64	FPS400460L	37.85
4	5	FPS400500L	37.85
4	5-4/64	FPS400504L	37.85
4	5-12/64	FPS400512L	37.85
4	5-20/64	FPS400520L	37.85
4	5-28/64	FPS400528L	37.85

**FERRULES  
for use with products shown below only:**

**WARNING: NOT FOR USE WITH STEAM**



**Long  
Crimpnology  
Nipples**  
(page 13)



**Viton Seal  
Ground  
Joints and  
Male Stems**  
(page 27)



**Plated Steel**

hose size	ferrule i.d.	part number	list each
1/2	1	FPS050100S	8.64
1/2	1-4/64	FPS050104S	8.64
1/2	1-8/64	FPS050108S	8.64
3/4	1-16/64	FPS075116	7.85
3/4	1-20/64	FPS075120	7.85
3/4	1-24/64	FPS075124	7.85
3/4	1-28/64	FPS075128	7.85
3/4	1-32/64	FPS075132	7.85
1	1-32/64	FPS100132	9.86
1	1-36/64	FPS100136	9.86
1	1-40/64	FPS100140	9.86
1	1-44/64	FPS100144	9.86
1	1-48/64	FPS100148	9.86
1	1-52/64	FPS100152	9.86
1-1/4	1-52/64	FPS125152L	13.87
1-1/4	1-56/64	FPS125156L	13.87
1-1/4	1-60/64	FPS125160L	13.87
1-1/2	1-60/64	FPS150160L	16.60
1-1/2	2	FPS150200L	16.60
1-1/2	2-4/64	FPS150204L	16.60
1-1/2	2-8/64	FPS150208L	16.60
1-1/2	2-12/64	FPS150212L	16.60
1-1/2	2-16/64	FPS150216L	16.60
1-1/2	2-20/64	FPS150220L	16.60
1-1/2	2-24/64	FPS150224L	16.60
2	2-32/64	FPS200232L	20.16
2	2-36/64	FPS200236L	20.16
2	2-40/64	FPS200240L	20.16
2	2-44/64	FPS200244L	20.16
2	2-48/64	FPS200248L	20.16
2	2-52/64	FPS200252L	20.16
2	2-56/64	FPS200256L	20.16
2	2-60/64	FPS200260L	20.16
2-1/2	3-8/64	FPS250308L	27.72
2-1/2	3-12/64	FPS250312L	27.72
2-1/2	3-16/64	FPS250316L	27.72
2-1/2	3-20/64	FPS250320L	27.72
2-1/2	3-28/64	FPS250328L	27.72
3	3-36/64	FPS300336L	27.88
3	3-40/64	FPS300340L	27.88
3	3-44/64	FPS300344L	27.88
3	3-48/64	FPS300348L	27.88



**LIGHT DUTY  
FERRULES**

**FERRULES (light duty)  
for use with couplings shown below only:**



**All  
Campbell  
Universals**  
(page 33)



**UniversaLock**  
(page 33)



**Single-Lock  
(Bowes)**  
(page 34)



**Double-Lock  
(Thor)**  
(page 34)



**Plated Steel**

hose size	ferrule i.d.	part number	list each
1/2	58/64	FLPS050058	1.12
1/2	60/64	FLPS050060	1.12
3/4	1-8/64	FLPS075108	1.50
3/4	1-10/64	FLPS075110	1.50
3/4	1-12/64	FLPS075112	1.50
3/4	1-14/64	FLPS075114	1.50
3/4	1-16/64	FLPS075116	1.50
3/4	1-18/64	FLPS075118	1.50
1	1-28/64	FLPS100128	2.16
1	1-30/64	FLPS100130	2.16
1	1-32/64	FLPS100132	2.16
1	1-34/64	FLPS100134	2.16
1	1-36/64	FLPS100136	2.16

**304 Stainless**

1/2	58/64	FLSS050058	2.39
3/4	1-8/64	FLSS075108	2.77
3/4	1-12/64	FLSS075112	2.77
3/4	1-14/64	FLSS075114	2.77
3/4	1-16/64	FLSS075116	2.77
3/4	1-18/64	FLSS075118	2.77
1	1-28/64	FLSS100128	4.08
1	1-30/64	FLSS100130	4.08

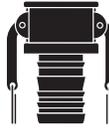


**SLEEVES**

**SLEEVES**  
for use with products shown below only:



**Campbell  
Cobra™  
Parts C & E**  
(page 17)



**Standard  
Cobra™  
Parts C & E**  
(page 18, 19)

**Plated Steel**

hose size	sleeve i.d.	part number	list each
3/4	1-8/64	SPS075108	4.81
3/4	1-12/64	SPS075112	4.81
3/4	1-16/64	SPS075116	4.81
3/4	1-20/64	SPS075120	4.81
3/4	1-24/64	SPS075124	4.81
1	1-16/64	SPS100116	4.70
1	1-20/64	SPS100120	4.70
1	1-24/64	SPS100124	4.70
1	1-28/64	SPS100128	4.70
1	1-32/64	SPS100132	4.70
1	1-36/64	SPS100136	4.70
1	1-40/64	SPS100140	4.70
1	1-44/64	SPS100144	4.70
1	1-48/64	SPS100148	4.70
1-1/4	1-56/64	SPS125156	4.70
1-1/4	2	SPS125200	4.70
1-1/2	1-48/64	SPS150148	4.83
1-1/2	1-52/64	SPS150152	4.83
1-1/2	1-56/64	SPS150156	4.83
1-1/2	1-60/64	SPS150160	4.83
1-1/2	2	SPS150200	4.83
1-1/2	2-4/64	SPS150204	4.83
1-1/2	2-8/64	SPS150208	4.83
1-1/2	2-12/64	SPS150212	4.83
1-1/2	2-16/64	SPS150216	4.83
1-1/2	2-20/64	SPS150220	4.83
1-1/2	2-24/64	SPS150224	4.83
2	2-16/64	SPS200216	5.53
2	2-24/64	SPS200224	5.53
2	2-28/64	SPS200228	5.53
2	2-32/64	SPS200232	5.53
2	2-36/64	SPS200236	5.53
2	2-40/64	SPS200240	5.53
2	2-44/64	SPS200244	5.53
2	2-48/64	SPS200248	5.53
2	2-52/64	SPS200252	5.53
2	2-56/64	SPS200256	5.53
2	2-60/64	SPS200260	5.53

2-1/2	3	SPS250300	8.45
2-1/2	3-8/64	SPS250308	8.45
2-1/2	3-16/64	SPS250316	8.45
2-1/2	3-24/64	SPS250324	8.45
2-1/2	3-32/64	SPS250332	8.45
2-1/2	3-34/64	SPS250334	8.45
3	3-16/64	SPS300316	9.75
3	3-24/64	SPS300324	9.75
3	3-28/64	SPS300328	9.75
3	3-32/64	SPS300332	9.75
3	3-36/64	SPS300336	9.75
3	3-40/64	SPS300340	9.75
3	3-44/64	SPS300344	9.75
3	3-48/64	SPS300348	9.75
3	3-52/64	SPS300352	9.75
3	3-56/64	SPS300356	9.75
3	3-60/64	SPS300360	9.75
3	4	SPS300400	9.75
3	4-2/64	SPS300402	9.75
4	4-16/64	SPS400416	13.14
4	4-24/64	SPS400424	13.14
4	4-32/64	SPS400432	13.14
4	4-36/64	SPS400436	13.14
4	4-40/64	SPS400440	13.14
4	4-44/64	SPS400444	13.14
4	4-48/64	SPS400448	13.14
4	4-52/64	SPS400452	13.14
4	4-56/64	SPS400456	13.14
4	4-60/64	SPS400460	13.14
4	5	SPS400500	13.14
4	5-2/64	SPS400502	13.14
5	5-36/64	SPS500536	32.09
5	5-48/64	SPS500548	32.09
5	5-60/64	SPS500560	32.09
6	6-16/64	SPS600616	36.76
6	6-24/64	SPS600624	36.76
6	6-32/64	SPS600632	36.76
6	6-40/64	SPS600640	36.76
6	6-48/64	SPS600648	36.76
6	6-56/64	SPS600656	36.76
6	7	SPS600700	36.76
6	7-8/64	SPS600708	36.76
6	7-16/64	SPS600716	36.76
6	7-24/64	SPS600724	36.76
8	8-16/64	SPS800816	62.46
8	8-32/64	SPS800832	62.46
8	8-48/64	SPS800848	62.46
8	9	SPS800900	62.46
8	9-16/64	SPS800916	62.46
8	9-32/64	SPS800932	62.46
8	9-48/64	SPS800948	62.46

**304 Stainless**

3/4	1-4/64	SSS075104	7.55
3/4	1-8/64	SSS075108	7.55
3/4	1-12/64	SSS075112	7.55
3/4	1-16/64	SSS075116	7.55
3/4	1-24/64	SSS075124	7.55
1	1-16/64	SSS100116	7.55
1	1-20/64	SSS100120	7.55
1	1-24/64	SSS100124	7.55
1	1-28/64	SSS100128	7.55
1	1-32/64	SSS100132	7.55
1	1-36/64	SSS100136	7.55
1	1-40/64	SSS100140	7.55
1	1-44/64	SSS100144	7.55
1	1-48/64	SSS100148	7.55

**304 Stainless Sleeves**

*(continued from previous page)*

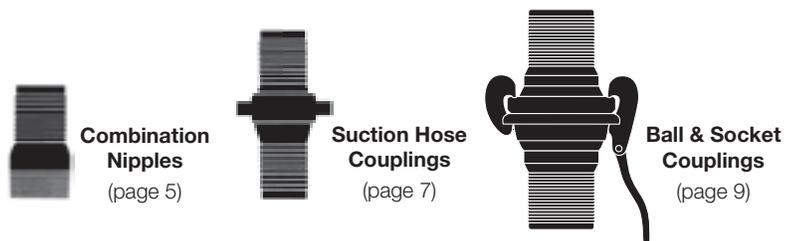
1-1/4	1-56/64	SSS125156	8.53
1-1/4	2	SSS125200	8.53
1-1/2	1-52/64	SSS150152	8.35
1-1/2	1-56/64	SSS150156	8.35
1-1/2	1-60/64	SSS150160	8.35
1-1/2	2	SSS150200	8.35
1-1/2	2-4/64	SSS150204	8.35
1-1/2	2-8/64	SSS150208	8.35
1-1/2	2-12/64	SSS150212	8.35
1-1/2	2-16/64	SSS150216	8.35
1-1/2	2-20/64	SSS150220	8.35
1-1/2	2-24/64	SSS150224	8.35
2	2-16/64	SSS200216	11.40
2	2-24/64	SSS200224	11.40
2	2-28/64	SSS200228	11.40
2	2-32/64	SSS200232	11.40
2	2-36/64	SSS200236	11.40
2	2-40/64	SSS200240	11.40
2	2-44/64	SSS200244	11.40
2	2-48/64	SSS200248	11.40
2	2-52/64	SSS200252	11.40
2	2-56/64	SSS200256	11.40
2	2-60/64	SSS200260	11.40
2	3	SSS200300	11.40
2	3-2/64	SSS200302	11.40
2-1/2	3	SSS250300	16.08
2-1/2	3-8/64	SSS250308	16.08
2-1/2	3-16/64	SSS250316	16.08
2-1/2	3-24/64	SSS250324	16.08
2-1/2	3-32/64	SSS250332	16.08
2-1/2	3-34/64	SSS250334	16.08
3	3-24/64	SSS300324	16.54
3	3-28/64	SSS300328	16.54
3	3-32/64	SSS300332	16.54
3	3-36/64	SSS300336	16.54
3	3-40/64	SSS300340	16.54
3	3-44/64	SSS300344	16.54
3	3-48/64	SSS300348	16.54
3	3-52/64	SSS300352	16.54
3	3-56/64	SSS300356	16.54
3	3-60/64	SSS300360	16.54
3	4	SSS300400	16.54
3	4-2/64	SSS300402	16.54
4	4-32/64	SSS400432	27.50
4	4-36/64	SSS400436	27.50
4	4-40/64	SSS400440	27.50
4	4-44/64	SSS400444	27.50
4	4-48/64	SSS400448	27.50
4	4-52/64	SSS400452	27.50
4	4-56/64	SSS400456	27.50
4	4-60/64	SSS400460	27.50
4	5	SSS400500	27.50
4	5-2/64	SSS400502	27.50
6	6-16/64	SSS600616	69.10
6	6-24/64	SSS600624	69.10
6	6-32/64	SSS600632	69.10
6	6-40/64	SSS600640	69.10
6	6-48/64	SSS600648	69.10
6	6-56/64	SSS600656	69.10
6	7	SSS600700	69.10
6	7	SSS600700	69.10
8		SSS800XXX	POR
10		SSS101XXX	POR

**Aluminum**

2	2-28/64	SAL200228	10.63
2	2-32/64	SAL200232	10.63
2	2-36/64	SAL200236	10.63
2	2-40/64	SAL200240	10.63
2	2-44/64	SAL200244	10.63
2	2-48/64	SAL200248	10.63
2	2-52/64	SAL200252	10.63
2	2-56/64	SAL200256	10.63
2	2-60/64	SAL200260	10.63
2	3	SAL200300	10.63
3	3-32/64	SAL300332	16.07
3	3-36/64	SAL300336	16.07
3	3-40/64	SAL300340	16.07
3	3-44/64	SAL300344	16.07
3	3-48/64	SAL300348	16.07
3	3-52/64	SAL300352	16.07
3	3-56/64	SAL300356	16.07
3	3-60/64	SAL300360	16.07
3	4	SAL300400	16.07
3	4-4/64	SAL300404	16.07
4	4-36/64	SAL400436	21.51
4	4-40/64	SAL400440	21.51
4	4-44/64	SAL400444	21.51
4	4-48/64	SAL400448	21.51
4	4-52/64	SAL400452	21.51
4	4-56/64	SAL400456	21.51
4	4-60/64	SAL400460	21.51
4	5	SAL400500	21.51
4	5-4/64	SAL400504	21.51
4	5-8/64	SAL400508	21.51
6	6-32/64	SAL600632	63.55
6	6-40/64	SAL600640	63.55
6	6-48/64	SAL600648	63.55
6	6-56/64	SAL600656	63.55

**SLEEVES**

for use with products shown below only:



**Plated Steel**

hose size	sleeve i.d.	part number	list each
1/2	1	SPS050100S	4.73
3/4	1-8/64	SPS075108S	4.90
3/4	1-12/64	SPS075112S	4.90
3/4	1-16/64	SPS075116S	4.90
3/4	1-20/64	SPS075120S	4.90
3/4	1-24/64	SPS075124S	4.90
1	1-28/64	SPS100128S	4.70
1	1-32/64	SPS100132S	4.70
1	1-36/64	SPS100136S	4.70
1	1-40/64	SPS100140S	4.70
1	1-44/64	SPS100144S	4.70
1	1-48/64	SPS100148S	4.70

1-1/4	1-40/64	SPS125140S	4.70	6	7-24/64	SPS600724	36.76	2-1/2	3-24/64	SSS250324S	16.08
1-1/4	1-48/64	SPS125148S	4.70	8	8-16/64	SPS800816	62.46	2-1/2	3-32/64	SSS250332S	16.08
1-1/4	1-52/64	SPS125152S	4.70	8	8-32/64	SPS800832	62.46	3	3-8/64	SSS300308S	16.54
1-1/4	1-56/64	SPS125156S	4.70	8	8-48/64	SPS800848	62.46	3	3-16/64	SSS300316S	16.54
1-1/2	1-60/64	SPS150160S	4.94	8	9	SPS800900	62.46	3	3-24/64	SSS300324S	16.54
1-1/2	2	SPS150200S	4.94	8	9-16/64	SPS800916	62.46	3	3-28/64	SSS300328S	16.54
1-1/2	2-4/64	SPS150204S	4.94	8	9-32/64	SPS800932	62.46	3	3-32/64	SSS300332S	16.54
1-1/2	2-8/64	SPS150208S	4.94	8	9-48/64	SPS800948	62.46	3	3-36/64	SSS300336S	16.54
1-1/2	2-12/64	SPS150212S	4.94	10	10-32/64	SPS101032	118.00	3	3-40/64	SSS300340S	16.54
1-1/2	2-16/64	SPS150216S	4.94	10	10-48/64	SPS101048	118.00	3	3-44/64	SSS300344S	16.54
1-1/2	2-20/64	SPS150220S	4.94	10	10-56/64	SPS101056	118.00	3	3-48/64	SSS300348S	16.54
1-1/2	2-24/64	SPS150224S	4.94	10	11	SPS101100	118.00	3	3-52/64	SSS300352S	16.54
2	2-8/64	SPS200208S	5.99	10	11-16/64	SPS101116	118.00	3	3-56/64	SSS300356S	16.54
2	2-16/64	SPS200216S	5.99	10	11-32/64	SPS101132	118.00	3	3-60/64	SSS300360S	16.54
2	2-24/64	SPS200224S	5.99	10	11-48/64	SPS101148	118.00	4	4	SSS400400S	27.50
2	2-28/64	SPS200228S	5.99	12	11-48/64	SPS101148	POR	4	4-16/64	SSS400416S	27.50
2	2-32/64	SPS200232S	5.99					4	4-24/64	SSS400424S	27.50
2	2-36/64	SPS200236S	5.99					4	4-32/64	SSS400432S	27.50
2	2-40/64	SPS200240S	5.99					4	4-36/64	SSS400436S	27.50
2	2-44/64	SPS200244S	5.99					4	4-40/64	SSS400440S	27.50
2	2-48/64	SPS200248S	5.99					4	4-44/64	SSS400444S	27.50
2	2-52/64	SPS200252S	5.99					4	4-48/64	SSS400448S	27.50
2	2-56/64	SPS200256S	5.99					4	4-52/64	SSS400452S	27.50
2	2-60/64	SPS200260S	5.99					4	4-56/64	SSS400456S	27.50
2	3	SPS200300S	5.99					4	4-60/64	SSS400460S	27.50
2-1/2	2-48/64	SPS250248S	8.18	1	1-28/64	SSS100128S	7.20	4	5	SSS400500S	27.50
2-1/2	2-56/64	SPS250256S	8.18	1	1-32/64	SSS100132S	7.20	6	6-16/64	SSS600616	69.10
2-1/2	3	SPS250300S	8.18	1	1-36/64	SSS100136S	7.20	6	6-24/64	SSS600624	69.10
2-1/2	3-8/64	SPS250308S	8.18	1	1-40/64	SSS100140S	7.20	6	6-32/64	SSS600632	69.10
2-1/2	3-16/64	SPS250316S	8.18	1	1-44/64	SSS100144S	7.20	6	6-40/64	SSS600640	69.10
2-1/2	3-24/64	SPS250324S	8.18	1	1-48/64	SSS100148S	7.20	6	6-48/64	SSS600648	69.10
2-1/2	3-32/64	SPS250332S	8.18	1-1/4	1-40/64	SSS125140S	8.58	6	6-56/64	SSS600656	69.10
3	3-8/64	SPS300308S	9.75	1-1/4	1-48/64	SSS125148S	8.58	6	7	SSS600700	69.10
3	3-16/64	SPS300316S	9.75	1-1/4	1-52/64	SSS125152S	8.58	6	7-8/64	SSS600708	69.10
3	3-24/64	SPS300324S	9.75	1-1/4	1-56/64	SSS125156S	8.58	6	7-16/64	SSS600716	69.10
3	3-28/64	SPS300328S	9.75	1-1/2	1-60/64	SSS150150S	8.58	6	7-24/64	SSS600724	69.10
3	3-32/64	SPS300332S	9.75	1-1/2	2	SSS150200S	8.58	8		SSS800XXX	POR
3	3-36/64	SPS300336S	9.75	1-1/2	2-4/64	SSS150204S	8.58				
3	3-40/64	SPS300340S	9.75	1-1/2	2-8/64	SSS150208S	8.58				
3	3-44/64	SPS300344S	9.75	1-1/2	2-12/64	SSS150212S	8.58				
3	3-48/64	SPS300348S	9.75	1-1/2	2-16/64	SSS150216S	8.58				
3	3-52/64	SPS300352S	9.75	1-1/2	2-20/64	SSS150220S	8.58				
3	3-56/64	SPS300356S	9.75	1-1/2	2-24/64	SSS150224S	8.58				
3	3-60/64	SPS300360S	9.75	2	2-8/64	SSS200208S	12.33				
3	4	SPS300400S	9.75	2	2-16/64	SSS200216S	12.33				
4	4-16/64	SPS400416S	13.14	2	2-24/64	SSS200224S	12.33				
4	4-24/64	SPS400424S	13.14	2	2-28/64	SSS200228S	12.33				
4	4-32/64	SPS400432S	13.14	2	2-32/64	SSS200232S	12.33				
4	4-36/64	SPS400436S	13.14	2	2-36/64	SSS200236S	12.33				
4	4-40/64	SPS400440S	13.14	2	2-40/64	SSS200240S	12.33				
4	4-44/64	SPS400444S	13.14	2	2-44/64	SSS200244S	12.33				
4	4-48/64	SPS400448S	13.14	2	2-48/64	SSS200248S	12.33				
4	4-52/64	SPS400452S	13.14	2	2-52/64	SSS200252S	12.33				
4	4-56/64	SPS400456S	13.14	2	2-56/64	SSS200256S	12.33				
4	4-60/64	SPS400460S	13.14	2	2-60/64	SSS200260S	12.33				
4	5	SPS400500S	13.14	2-1/2	3	SSS250300S	16.08				
5	5-36/64	SPS500536	32.09	2-1/2	3-8/64	SSS250308S	16.08				
5	5-48/64	SPS500548	32.09	2-1/2	3-16/64	SSS250316S	16.08				
5	5-60/64	SPS500560	32.09								
6	6-16/64	SPS600616	36.76								
6	6-24/64	SPS600624	36.76								
6	6-32/64	SPS600632	36.76								
6	6-40/64	SPS600640	36.76								
6	6-48/64	SPS600648	36.76								
6	6-56/64	SPS600656	36.76								
6	7	SPS600700	36.76								
6	7-8/64	SPS600708	36.76								

**304 Stainless**

1/2	1	SSS050100S	7.20
3/4	1-4/64	SSS075104S	7.20
3/4	1-8/64	SSS075108S	7.20
3/4	1-12/64	SSS075112S	7.20
3/4	1-16/64	SSS075116S	7.20
3/4	1-20/64	SSS075120S	7.20
3/4	1-24/64	SSS075124S	7.20
1	1-28/64	SSS100128S	7.20
1	1-32/64	SSS100132S	7.20
1	1-36/64	SSS100136S	7.20
1	1-40/64	SSS100140S	7.20
1	1-44/64	SSS100144S	7.20
1	1-48/64	SSS100148S	7.20
1-1/4	1-40/64	SSS125140S	8.58
1-1/4	1-48/64	SSS125148S	8.58
1-1/4	1-52/64	SSS125152S	8.58
1-1/4	1-56/64	SSS125156S	8.58
1-1/2	1-60/64	SSS150150S	8.58
1-1/2	2	SSS150200S	8.58
1-1/2	2-4/64	SSS150204S	8.58
1-1/2	2-8/64	SSS150208S	8.58
1-1/2	2-12/64	SSS150212S	8.58
1-1/2	2-16/64	SSS150216S	8.58
1-1/2	2-20/64	SSS150220S	8.58
1-1/2	2-24/64	SSS150224S	8.58
2	2-8/64	SSS200208S	12.33
2	2-16/64	SSS200216S	12.33
2	2-24/64	SSS200224S	12.33
2	2-28/64	SSS200228S	12.33
2	2-32/64	SSS200232S	12.33
2	2-36/64	SSS200236S	12.33
2	2-40/64	SSS200240S	12.33
2	2-44/64	SSS200244S	12.33
2	2-48/64	SSS200248S	12.33
2	2-52/64	SSS200252S	12.33
2	2-56/64	SSS200256S	12.33
2	2-60/64	SSS200260S	12.33
2-1/2	3	SSS250300S	16.08
2-1/2	3-8/64	SSS250308S	16.08
2-1/2	3-16/64	SSS250316S	16.08

## Glossary of CampbellCrimpnology™ Terms

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**Crimp chart:** a chart designed to assist in determining the crimp spec, which includes allowances for serration style, fitting and ferrule/sleeve O.D. and design.

**Crimp spec (or specification):** the outside diameter of the ferrule/sleeve after assembling and crimping.

**Cut-slots:** notches cut into the turned-in end of a ferrule that allows the interlock portion to crimp straight down into the fitting interlock without opening outward during crimping.

**Ferrule:** a tube-like product with one end turned in so as to affect an interlock into a groove on a mating fitting or coupling.

**Ferrule length:** the overall length of the ferrule as measured from the turn-in end to the open end.

**Ferrule/Sleeve I.D.:** the inside bowl diameter of the ferrule; the inside diameter of the sleeve; the inside diameter of either where the hose is placed

**Gauge:** the thickness of the ferrule/sleeve material.

**Interlock groove:** a groove designed into the fitting/coupling to accept the turn-in end of the ferrule.

**Shank length:** the hose barb area measured from the end of the fitting to the interlock groove.

**Sleeve:** a tube-like product with no interlock provisions.

**Sleeve length:** the overall length of the sleeve from end to end.

**Turn-in:** the interlocking end of the ferrule.



**Campbell Fittings**

**H**



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### MALE & FEMALE INSERT FITTINGS

Insert fittings are precision screw machined in steel, stainless steel and brass.

#### Recommended use

- Low pressure air, water

#### Recommended hose attachment

- Brass Crimp-on Ferrules (Page 53)
- Worm Gear Clamps (Page 59)
- Preformed Band Clamps (Page 57)

### BRASS GARDEN HOSE COUPLINGS

Precision screw machined from brass. Available with short shank or long shank.

#### Recommended use

- Low pressure water

#### Recommended hose attachment

- Brass Crimp-on Ferrules (Page 53)
- Worm Gear Clamps (Page 59)
- Preformed Band Clamps (Page 57)

### BRASS PUSH-ON FITTINGS



#### Recommended use

- Low pressure air, water

#### Recommended hose attachment

- None. When used with special Push-on Hose, no clamp or ferrule is needed. The liner of the hose grabs securely onto the barb of the fitting.

**DO NOT use Push-on Fittings with conventional hose.**



### BRASS FERRULES

Brass ferrules are lightweight, easy to assemble, and provide a smooth outer surface.

#### Recommended use

- Crimp-on hose assemblies to secure hose and fittings for low-pressure air and water applications

**BARBED HOSE INSERTS**



**Brass**

hose x npt	part number	list/100	carton qty.
1/4 x 1/8	BM-0402	184.00	25
1/4 x 1/4	BM-0404	184.00	25
1/4 x 3/8	BM-0406	284.00	25
5/16 x 1/8	BM-0502	189.00	25
5/16 x 1/4	BM-0504	231.00	25
3/8 x 1/8	BM-0602	231.00	25
3/8 x 1/4	BM-0604	184.00	25
3/8 x 3/8	BM-0606	284.00	25
3/8 x 1/2	BM-0608	498.00	25
1/2 x 1/4	BM-0804	284.00	25
1/2 x 3/8	BM-0806	296.00	25
1/2 x 1/2	BM-0808	415.00	25
1/2 x 3/4	BM-0812	628.00	25
5/8 x 3/8	BM-1006	355.00	25
5/8 x 1/2	BM-1008	455.99	25
5/8 x 3/4	BM-1012	621.00	25
3/4 x 1/2	BM-1208	509.00	25
3/4 x 3/4	BM-1212	598.00	25
1 x 3/4	BM-1612	776.00	25
1 x 1	BM-1616	1256.00	25
1-1/4 x 1	BM-2016	1682.00	25

**MALE INSERT**



**Plated Steel**

hose x npt	part number	list each
1/4 x 1/8	SM-0402	6.75
1/4 x 1/4	SM-0404	10.93
1/4 x 3/8	SM-0406	8.45
3/8 x 1/8	SM-0602	8.75
3/8 x 1/4	SM-0604	10.42
3/8 x 3/8	SM-0606	9.65
3/8 x 1/2	SM-0608	12.25
1/2 x 1/4	SM-0804	12.40
1/2 x 3/8	SM-0806	12.06
1/2 x 1/2	SM-0808	9.59
1/2 x 3/4	SM-0812	17.33
3/4 x 1/2	SM-1208	14.27
3/4 x 3/4	SM-1212	14.22
1 x 3/4	SM-1612	17.31
1 x 1	SM-1616	17.97

**316 Stainless Steel**

1/4 x 1/8	SSM-0402	30.97
1/4 x 1/4	SSM-0404	11.30
1/4 x 3/8	SSM-0406	28.65
3/8 x 1/4	SSM-0604	25.07
3/8 x 3/8	SSM-0606	24.01
3/8 x 1/2	SSM-0608	43.60
1/2 x 1/4	SSM-0804	23.39
1/2 x 3/8	SSM-0806	28.35
1/2 x 1/2	SSM-0808	39.50
1/2 x 3/4	SSM-0812	54.50
5/8 x 1/2	SSM-1008	52.65
3/4 x 1/2	SSM-1208	52.65
3/4 x 3/4	SSM-1212	71.23
3/4 x 1	SSM-1216	118.47
1 x 3/4	SSM-1612	60.70
1 x 1	SSM-1616	91.35

**FEMALE INSERT**



**Brass**

hose x npt	part number	list/100	carton qty.
1/4 x 1/8	BF-0402	213.00	25
1/4 x 1/4	BF-0404	260.00	25
5/16 x 1/4	BF-0504	320.00	25
3/8 x 1/4	BF-0604	267.00	25
3/8 x 3/8	BF-0606	350.00	25
1/2 x 3/8	BF-0806	401.99	25
1/2 x 1/2	BF-0808	503.00	25

**HOSE MENDER**



**Brass**

hose size	part number	list/100	carton qty.
1/4	BH-0404	184.00	25
5/16	BH-0505	207.00	25
3/8	BH-0606	225.00	25
1/2	BH-0808	308.00	25
5/8	BH-1010	401.99	25
3/4	BH-1212	503.00	25

**FEMALE SWIVEL (with ball seat)**



**Brass**

hose x npsm	part number	list/100	carton qty.
1/4 x 1/4	BFS-0404	314.00	25
5/16 x 1/4	BFS-0504	308.00	25
3/8 x 1/4	BFS-0604	290.00	25
3/8 x 3/8	BFS-0606	415.00	25
1/2 x 3/8	BFS-0806	498.00	25
1/2 x 1/2	BFS-0808	657.00	25
3/4 x 3/4	BFS-1212	888.00	25



**OXYGEN ACETYLENE FITTINGS**

**OXYGEN HOSE END  
 (9/16-18 right hand thread)**



Brass hose size	part number	list each	carton qty.
3/16	ORH-03	3.32	25
1/4	ORH-04	3.32	25
5/16	ORH-05	3.32	25
3/8	ORH-06	3.32	25

**ACETYLENE HOSE END  
 (9/16-18 left hand thread)**



Brass hose size	part number	list each	carton qty.
3/16	ALH-03	3.32	25
1/4	ALH-04	3.32	25
5/16	ALH-05	3.32	25
3/8	ALH-06	3.32	25



**BRASS PUSH-ON FITTINGS**

**MALE PUSH-ON**



hose x npt	part number	list/100	carton qty.
1/4 x 1/8	BMP-0402	225.00	25
1/4 x 1/4	BMP-0404	255.00	25
1/4 x 3/8	BMP-0406	320.00	25
5/16 x 1/4	BMP-0504	284.00	25
3/8 x 1/8	BMP-0602	272.00	25
3/8 x 1/4	BMP-0604	267.00	25
3/8 x 3/8	BMP-0606	320.00	25
3/8 x 1/2	BMP-0608	485.00	25
1/2 x 1/4	BMP-0804	379.00	25
1/2 x 3/8	BMP-0806	350.00	25
1/2 x 1/2	BMP-0808	462.00	25
1/2 x 3/4	BMP-0812	693.00	25
5/8 x 1/2	BMP-1008	669.00	25
5/8 x 3/4	BMP-1012	852.00	25
3/4 x 1/2	BMP-1208	770.00	25
3/4 x 3/4	BMP-1212	763.00	25

**FEMALE PUSH-ON**



hose x npt	part number	list/100	carton qty.
1/4 x 1/8	BFP-0402	284.00	25
1/4 x 1/4	BFP-0404	308.00	25
5/16 x 1/4	BFP-0504	386.00	25
3/8 x 1/4	BFP-0604	350.00	25
3/8 x 3/8	BFP-0606	391.00	25
1/2 x 3/8	BFP-0806	433.00	25
1/2 x 1/2	BFP-0808	515.00	25

**HOSE MENDER PUSH-ON**



hose size	part number	list/100	carton qty.
1/4	BHP-0404	290.00	25
5/16	BHP-0505	314.00	25
3/8	BHP-0606	320.00	25
1/2	BHP-0808	498.00	25
5/8	BHP-1010	657.00	25
3/4	BHP-1212	799.00	25



**MACHINED BRASS  
GARDEN HOSE COUPLINGS**

**GARDEN HOSE SET**

	hose size	part number	list each	carton qty.
	3/8	GHS-06	12.08	25
	1/2	GHS-08	11.96	25
	5/8	GHS-10	12.25	25
	3/4	GHS-12	12.55	25
	1(NPSH)	NPS-16	30.91	25

**GARDEN HOSE FEMALE**

	hose size	part number	list each	carton qty.
	3/8	GHF-06	6.52	25
	1/2	GHF-08	6.52	25
	5/8	GHF-10	6.52	25
	3/4	GHF-12	6.80	25
	1(NPSH)	NPF-16	17.52	25

**GARDEN HOSE MALE**

	hose size	part number	list each	carton qty.
	3/8	GHM-06	5.55	25
	1/2	GHM-08	5.45	25
	5/8	GHM-10	5.74	25
	3/4	GHM-12	5.74	25
	1(NPSH)	NPM-16	13.38	25

**LONG SHANK SET**

	hose size	part number	list each	carton qty.
	1/2	GHSL-08	15.69	25
	5/8	GHSL-10	15.69	25
	3/4	GHSL-12	16.04	25
	1(NPSH)	NPSL-16	39.55	25

**FEMALE LONG SHANK**

	hose size	part number	list each	carton qty.
	1/2	GHFL-08	8.35	25
	5/8	GHFL-10	8.35	25
	3/4	GHFL-12	8.70	25
	1(NPSH)	NPFL-16	19.06	25

**MALE LONG SHANK**

	hose size	part number	list each	carton qty.
	1/2	GHML-08	7.35	25
	5/8	GHML-10	7.35	25
	3/4	GHML-12	7.35	25
	1(NPSH)	NPML-16	20.49	25

**WASHER**

	Neoprene washer size	part number	list/100	carton qty.
	3/4	GHW-12	27.00	100
	1	GHW-16	49.00	100

**BRASS FERRULES**

	i.d. x length	pierce dia.	part number	list/100	bag qty.
	0.410 x 0.500	0.266	F-222	33.60	50
	0.450 x 0.563	0.344	F-316	33.60	50
	0.478 x 0.687	0.328	F-157	46.20	50
	0.500 x 0.500	0.344	F-225	33.60	50
	0.500 x 1.000	0.344	F-265	58.80	50
	0.525 x 0.500	0.344	F-230	33.60	50
	0.525 x 1.000	0.375	F-268	60.90	50
	0.531 x 1.000	0.438	F-273	63.00	50
	0.548 x 0.484	0.375	F-236	33.60	50
	0.562 x 1.000	0.438	F-278	66.15	50
	0.575 x 0.484	0.468	F-031	38.85	50
	0.593 x 1.000	0.438	F-284	68.25	50
	0.600 x 0.500	0.500	F-030	38.85	50
	0.625 x 0.500	0.500	F-028	40.95	50
	0.625 x 1.000	0.438	F-288	72.44	50
	0.650 x 0.500	0.500	F-025	40.95	50
	0.656 x 1.000	0.438	F-294	75.60	50
	0.675 x 0.516	0.500	F-022	44.10	50
	0.687 x 1.000	0.500	F-300	75.60	50
	0.700 x 0.516	0.500	F-018	80.85	50
	0.718 x 1.000	0.625	F-302	80.85	50
	0.718 x 1.000	0.500	F-302B	79.80	50
	0.725 x 0.531	0.500	F-016	44.10	50
	0.750 x 0.531	0.500	F-013	46.20	50
	0.750 x 1.000	0.625	F-305	80.85	50
	0.750 x 1.000	0.500	F-305B	77.70	50
	0.775 x 0.563	0.500	F-009	79.80	50
	0.782 x 1.000	0.625	F-310	85.05	50
	0.782 x 1.000	0.500	F-310B	85.05	50
	0.800 x 0.563	0.562	F-008	-	50
	0.812 x 1.000	0.625	F-314	87.15	50
	0.825 x 0.547	0.562	F-001	88.20	50
	0.875 x 0.844	0.688	F-255	75.60	50
	0.937 x 0.844	0.688	F-242	127.05	50
	0.975 x 0.844	0.688	F-181	92.40	50
	1.150 x 0.844	0.875	F-241	109.20	50

Please order by part number.

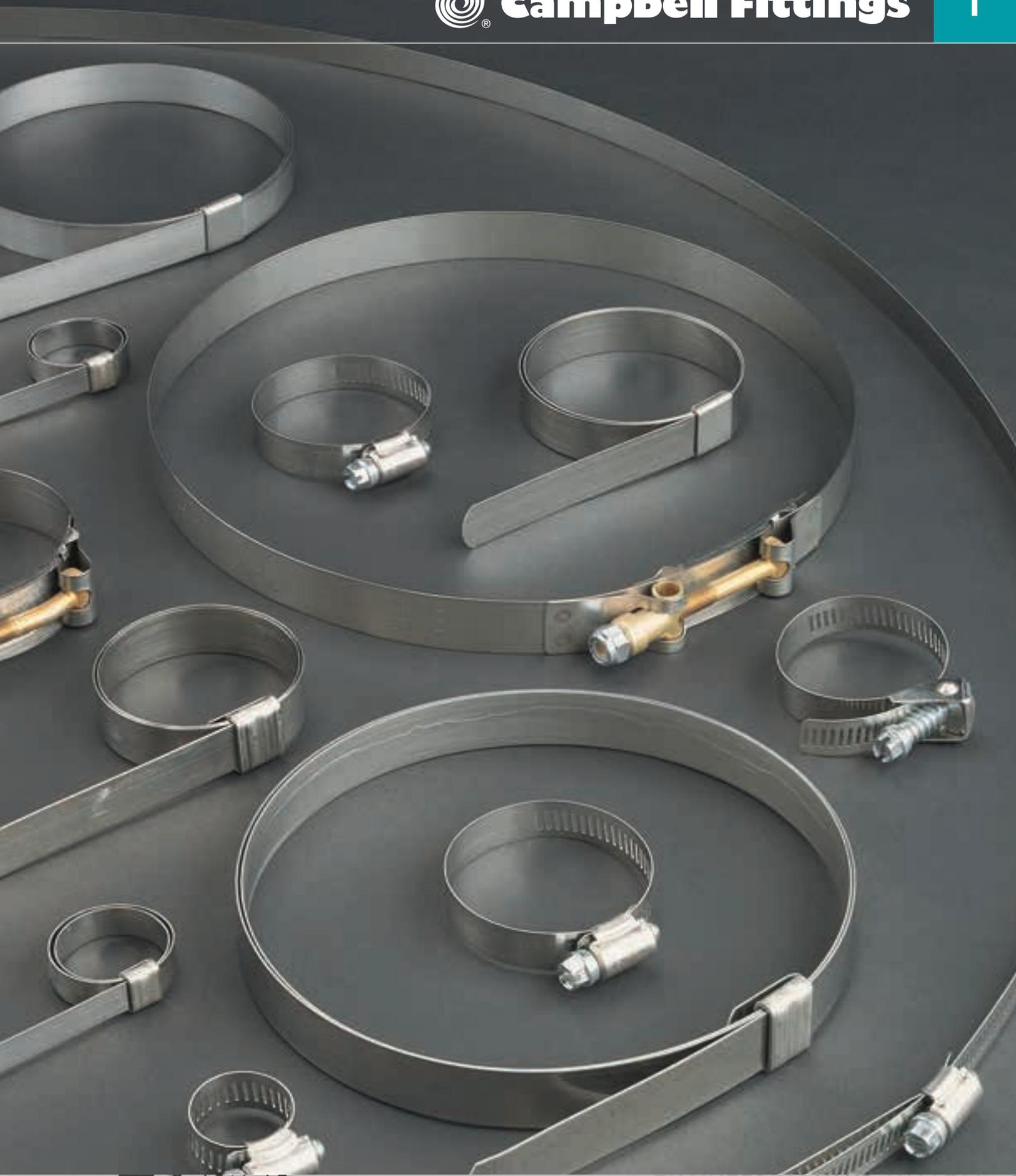
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# Multi-Purpose Clamps & Tools

## PREFORMED BAND CLAMPS



## **BAND-IT**

All band clamps, banding, tools and accessories are genuine Band-It products. Ultra-Lok® and Jr® are registered trademarks of Band-It®.

### ULTRA-LOK® CLAMPS

Ultra-Lok® Clamps are manufactured from 201 Stainless Steel. The buckle is thicker and stronger than standard band clamps for superior holding strength. The powerful Ultra-Lok® Tool is portable which enables the operator to bring the tool to the hose, instead of the hose to the tool, for much easier assembly.

### JR®-TYPE PREFORMED CLAMPS

Jr®-type preformed clamps are available in both galvanized carbon steel and 201 stainless steel. All buckles are stainless steel.

Jr® clamps are designed for use with high production air tools, or the C001 Banding Tool (Page 57).

### PUNCH-TYPE PREFORMED CLAMPS

Punch type preformed clamps are available in galvanized carbon steel and 201 stainless steel. All buckles are stainless steel.

Punch clamps are designed for use with the punch style tool (Page 58) for the ultimate in field serviceability.

## BANDING AND BUCKLES



Banding is cartoned in 100 foot rolls and available in 201 stainless steel. Buckles, sold separately, are 201 stainless steel. Banding features specially rolled edges to reduce the possibility of injury. Use the C001 Banding Tool (Page 59) to install.

## WORM GEAR CLAMPS

Worm gear clamps are available in standard 1/2" band, miniature 5/16" band and quick release 1/2" band. All are manufactured with stainless steel band and stainless steel housing, with your choice of a carbon steel or stainless steel screw.



## T-BOLT CLAMPS

T-Bolt clamps provide 360 degrees of sealing surface, and are particularly useful for high torque applications.



### BAND CLAMPS, BANDING, AND BUCKLES

5/8	1-1/2	JS305	198.00	100
5/8	1-3/4	JS306	219.00	100
5/8	2	JS307	240.00	100
5/8	2-1/4	JS308	255.00	100
5/8	2-1/2	JS309	275.99	100
3/4	2	JS327	294.00	100
3/4	2-3/4	JS310	330.00	50
3/4	3	JS311	348.00	50
3/4	3-1/2	JS312	375.00	50
3/4	4	JS313	434.00	25
3/4	4-1/2	JS314	458.00	25
3/4	5	JS315	501.00	25
3/4	5-1/4	JS370	617.00	25
3/4	6	JS316	576.00	25
3/4	7	JS318	683.00	25
3/4	8	JS319	971.00	25

### ULTRA-LOK® SMOOTH I.D. CLAMPS



**Band: 201 Stainless**  
**Buckle: 201 Stainless**

clamp width	clamp i.d.	part number	list/100	carton qty.
3/4	2	UL227	822.00	100
3/4	2-3/4	UL210	896.00	50
3/4	3	UL211	971.00	50
3/4	3-1/2	UL212	1033.00	50
3/4	4	UL213	1186.00	25
3/4	4-1/2	UL214	1273.00	25
3/4	5	UL215	1376.00	25
3/4	5-1/2	UL270	1428.00	25
3/4	6	UL216	1582.00	25
3/4	6-1/2	UL217	1744.00	25
3/4	7	UL218	1904.00	25
3/4	8	UL219	2144.00	25
3/4	9	UL228	2400.00	10

**Band: 201 Stainless**

**Buckle: 201 Stainless**

1/4	13/16	JS240	270.00	100
1/4	1	JS242	272.00	100
1/4	1-3/8	JS241	296.00	100
1/4	1-1/2	JS252	294.00	100
1/4	2	JS253	329.00	100
1/4	2-1/2	JS220	366.00	100
1/4	2-3/4	JS256	393.00	100
1/4	3	JS244	389.00	100
1/4	3-1/2	JS257	417.00	100
1/4	4	JS258	505.99	100
1/4	4-1/2	JS259	596.00	100
3/8	13/16	JS201	280.00	100
3/8	1	JS243	322.00	100
3/8	1-3/8	JS202	315.00	100
3/8	2	JS245	357.00	100
3/8	2-1/2	JS221	407.00	100
3/8	3	JS246	457.00	100
3/8	3-1/2	JS255	562.00	100
3/8	4	JS248	541.00	100

### Jr®-TYPE PREFORMED-SMOOTH I.D.



**Band: Galvanized Steel**  
**Buckle: 201 Stainless**

clamp width	clamp i.d.	part number	list/100	carton qty.
3/8	13/16	JS301	115.00	100
3/8	1	JS343	120.00	100
3/8	1-3/8	JS302	126.00	100
3/8	2	JS345	157.00	100
3/8	2-1/2	JS321	232.00	100
3/8	3	JS346	202.00	100
3/8	3-1/2	JS355	291.00	100
3/8	4	JS348	320.00	100
1/2	1	JS303	153.00	100
1/2	1-1/4	JS304	168.00	100
1/2	1-1/2	JS331	190.00	100
1/2	1-3/4	JS336	222.00	100
1/2	2	JS337	230.00	100
1/2	2-1/2	JS333	244.00	100
1/2	2-3/4	JS330	264.00	100
1/2	3	JS334	293.00	100
1/2	3-1/2	JS347	330.00	100
1/2	4	JS349	371.00	100

1/2	1	JS203	390.00	100
1/2	1-1/4	JS204	430.00	100
1/2	1-1/2	JS231	495.00	100
1/2	1-3/4	JS236	562.00	100
1/2	2	JS237	589.00	100
1/2	2-1/2	JS233	618.00	100
1/2	2-3/4	JS230	649.00	100
1/2	3	JS234	718.00	100
1/2	3-1/2	JS247	788.00	100
1/2	4	JS249	860.00	100
5/8	1-1/2	JS205	518.00	100
5/8	1-3/4	JS206	572.00	100
5/8	2	JS207	626.99	100
5/8	2-1/4	JS208	667.00	100
5/8	2-1/2	JS209	712.00	100
3/4	2	JS227	775.00	100
3/4	2-3/4	JS210	844.00	50
3/4	3	JS211	915.00	50
3/4	3-1/2	JS212	973.00	50
3/4	4	JS213	1117.00	25
3/4	4-1/2	JS214	1199.00	25
3/4	5	JS215	1296.00	25
3/4	5-1/4	JS270	1346.00	25
3/4	6	JS216	1491.00	25
3/4	7	JS218	1704.00	25

**PUNCH-TYPE PREFORMED**



**Band: Galvanized Steel**  
**Buckle: 201 Stainless**

clamp width	clamp i.d.	part number	list/100	carton qty.
3/8	13/16	CP3	83.00	100
3/8	1-3/8	CP311	98.00	100
5/8	1	CP4	98.00	100
5/8	1-1/4	CP5	103.00	100
5/8	1-1/2	CP6	110.00	100
5/8	1-3/4	CP7	121.00	100
5/8	2	CP8	129.00	100
5/8	2-1/4	CP9	137.98	100
5/8	2-1/2	CP10	166.00	50
5/8	2-3/4	CP11	174.00	50
5/8	3	CP12	182.00	50
5/8	3-1/2	CP14	195.00	50
5/8	4	CP16	224.00	25
5/8	4-1/2	CP18	237.00	25
5/8	5	CP20	250.00	25
5/8	6	CP24	272.00	25
5/8	7	CP28	314.00	25
5/8	8	CP32	440.00	25

**Band: 201 Stainless**  
**Buckle: 201 Stainless**

clamp width	clamp i.d.	part number	list/100	carton qty.
3/8	13/16	CP3-S	193.00	100
3/8	1-3/8	CP311-S	221.00	100
5/8	1	CP4-S	293.00	100
5/8	1-1/4	CP5-S	308.00	100
5/8	1-1/2	CP6-S	327.00	100
5/8	1-3/4	CP7-S	359.00	100
5/8	2	CP8-S	379.00	100
5/8	2-1/4	CP9-S	404.00	100
5/8	2-1/2	CP10-S	438.00	50
5/8	2-3/4	CP11-S	464.00	50
5/8	3	CP12-S	485.00	50
5/8	3-1/2	CP14-S	535.00	50
5/8	4	CP16-S	607.00	25
5/8	4-1/2	CP18-S	654.00	25
5/8	5	CP20-S	703.00	25
5/8	6	CP24-S	794.00	25
5/8	7	CP28-S	945.00	25
5/8	8	CP32-S	1033.00	25

**I.D. TIE-LOK TIES**



**304 Stainless**

width in.	length in.	part number	list/100	carton qty.
1/4	10	AS211	254.00	100
1/4	16-1/2	AS212	333.00	100
1/4	22-1/2	AS213	412.00	100
1/4	29	AS214	494.00	100
1/4	35	AS215	568.00	100

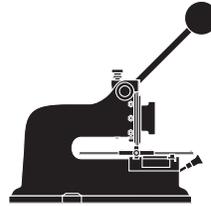
**I.D. TAGS**



**304 Stainless**

width in.	length in.	part number	list/100	carton qty.
3/4	2	ID100	194.00	100
1-1/2	2-1/2	ID101	266.00	100
3/4	3-1/2	ID102	255.00	100

**I.D. TAG IMPRINTERS**



character wheel	part number	list each	carton qty.
3/32"	ID200	POR	1
1/16"	ID202	POR	1
1/8"	ID203	POR	1
3/16"	ID204	POR	1
1/4"	ID205	POR	1

**HANDY I.D. KIT**

**kit contains:**

- 1 tie-loc tool
- 200 i.d. tags (3/4 x 2)
- 100 i.d. tags (1-1/2 x 2-1/2)
- 100 tie-loks (1/4 x 8)
- 200 tie-loks (1/4 x 14-1/2)
- 100 tie-loks (1/4 x 21)

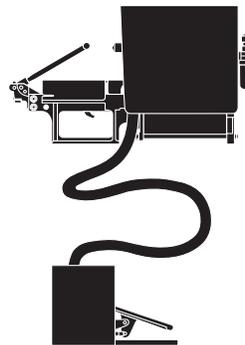
part number	list each	carton qty.
ID300	POR	1

**ULTRA-LOK ELECTRIC INSTALLATION TOOL**



part number	description	list each
UL9010	for Ultra-Lok Preformed Clamps	POR

**STANDARD AIR TOOL & COMPONENTS**



part number	description	list each
S750	with S180 head	POR

**CENTER PUNCH TOOLS & ACCESSORIES**



part number	description	list each
T300	for 5/8" wide clamps	POR

**COMPACT TOOL SET**



part number	list each
S38	POR

**BAND TOOL**



part number	list each
C001	POR

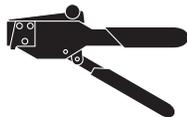


## BAND TOOL ADAPTER



part number	description	list each
J001	Jr adapter	POR
J050	heavy duty adapter	POR

## TIE-LOK TOOL



part number	list each
A920	POR

## BAND



201 Stainless Steel			
band width	part number	list/100 ft.	carton qty.
1/4	C202	126.39	100 ft.
3/8	C203	164.63	100 ft.
1/2	C204	222.52	100 ft.
5/8	C205	269.29	100 ft.
3/4	C206	332.09	100 ft.
Galvanized Carbon Steel			
3/8	C303	75.69	100 ft.
1/2	C304	98.14	100 ft.
5/8	C305	121.08	100 ft.
3/4	C306	143.45	100 ft.

## BUCKLES



201 Stainless Steel			
band width	part number	list/100	carton qty.
1/4	C252	103.00	100
3/8	C253	113.99	100
1/2	C254	154.00	100
5/8	C255	192.00	100
3/4	C256	232.00	100
Galvanized Carbon Steel			
3/8	C353	59.00	100
1/2	C354	77.00	100
5/8	C355	91.00	100
3/4	C356	108.00	100

## WORM GEAR CLAMPS



## STANDARD WORM GEAR (5/16" screw, 1/2" band)



### Screw: Galvanized Steel Band: 301 Stainless Steel

size range	part number	list/100	carton qty.
3/8 x 7/8	WGCS-6	153.02	10
7/16 x 1	WGCS-8	153.02	10
9/16 x 1-1/16	WGCS-10	153.02	10
9/16 x 1-1/4	WGCS-12	160.21	10
11/16 x 1-1/2	WGCS-16	160.21	10
3/4 x 1-3/4	WGCS-20	160.21	10
1-1/16 x 2	WGCS-24	160.21	10
1-5/16 x 2-1/4	WGCS-28	160.21	10
1-9/16 x 2-1/2	WGCS-32	160.21	10
1-13/16 x 2-3/4	WGCS-36	165.35	10
2-1/16 x 3	WGCS-40	209.51	10
2-5/16 x 3-1/4	WGCS-44	239.29	10
2-9/16 x 3-1/2	WGCS-48	239.29	10
2-13/16 x 3-3/4	WGCS-52	261.89	10
3-1/16 x 4	WGCS-56	261.89	10
3-5/16 x 4-1/4	WGCS-60	274.21	10
3-9/16 x 4-1/2	WGCS-64	274.21	10
4-1/16 x 5	WGCS-72	291.67	10
4-5/8 x 5-1/2	WGCS-80	337.88	10
4-3/32 x 6	WGCS-88	344.05	10
4-1/2 x 6-1/2	WGCS-96	350.21	10
5 x 7	WGCS-104	355.34	10
6-1/2 x 8-1/2	WGCS-128	478.58	10
8 x 10	WGCS-152	513.30	10
10-1/4 x 12-1/4	WGCS-188	565.88	10
11 x 13	WGCS-200	589.50	10
11-3/4 x 13-3/4	WGCS-212	635.71	10
12-1/2 x 14-1/2	WGCS-224	699.39	10
14 x 16	WGCS-248	805.17	10
15-3/8 x 17-3/8	WGCS-270	875.00	10
18 x 20	WGCS-312	979.75	10
19-1/8 x 21-1/4	WGCS-332	1003.38	10
22-7/8 x 24-7/8	WGCS-390	1014.68	10

STANDARD WORM GEAR  
(continued on next page)

**STANDARD WORM GEAR** (continued from previous page)

**Screw: 305 Stainless Steel**

**Band: 301 Stainless Steel**

size range	part number	list/ 100	carton qty.
3/8 x 7/8	WGSS-6	198.21	10
7/16 x 1	WGSS-8	198.21	10
9/16 x 1-1/16	WGSS-10	198.21	10
9/16 x 1-1/4	WGSS-12	205.40	10
11/16 x 1-1/2	WGSS-16	205.40	10
3/4 x 1-3/4	WGSS-20	211.56	10
1-1/16 x 2	WGSS-24	211.56	10
1-5/16 x 2-1/4	WGSS-28	211.56	10
1-9/16 x 2-1/2	WGSS-32	211.56	10
1-13/16 x 2-3/4	WGSS-36	223.89	10
2-1/16 x 3	WGSS-40	249.56	10
2-5/16 x 3-1/4	WGSS-44	285.50	10
2-9/16 x 3-1/2	WGSS-48	285.50	10
2-13/16 x 3-3/4	WGSS-52	303.99	10
3-1/16 x 4	WGSS-56	303.99	10
3-5/16 x 4-1/4	WGSS-60	317.34	10
3-9/16 x 4-1/2	WGSS-64	317.34	10
4-1/16 x 5	WGSS-72	349.18	10
4-5/8 x 5-1/2	WGSS-80	360.48	10
4-3/32 x 6	WGSS-88	404.64	10
4-1/2 x 6-1/2	WGSS-96	415.94	10
5 x 7	WGSS-104	415.94	10
6-1/2 x 8-1/2	WGSS-128	622.35	10
8 x 10	WGSS-152	685.01	10
10-1/4 x 12-1/4	WGSS-188	746.63	10
11 x 13	WGSS-200	758.95	10
11-3/4 x 13-3/4	WGSS-212	796.95	10
12-1/2 x 14-1/2	WGSS-224	852.41	10
14 x 16	WGSS-248	1046.51	10
15-3/8 x 17-3/8	WGSS-270	1109.16	10
18 x 20	WGSS-312	1201.59	10

**QUICK RELEASE WORM GEAR**  
(5/16" screw, 1/2" band)



**Screw: Galvanized Steel**  
**Band: 301 Stainless Steel**

size range	part number	list/ 100	carton qty.
1/2 x 1-1/4	QGCS-12	217.72	10
3/4 x 1-3/4	QGCS-20	221.83	10
1 x 2-1/4	QGCS-28	230.05	10
1 x 2-3/4	QGCS-36	231.08	10
1-1/2 x 3-1/2	QGCS-48	250.59	10
1 x 4	QGCS-56	268.05	10
2 x 5	QGCS-72	309.12	10
2-1/16 x 6	QGCS-88	361.50	10
1-3/4 x 7	QGCS-104	448.80	10
1-3/4 x 8-9/16	QGCS-128	448.80	10
2 x 10	QGCS-152	653.17	10
2-1/16 x 12-5/16	QGCS-188	530.96	10

**Screw: 410 Stainless Steel**

**Band: 301 Stainless Steel**

1/2 x 1-1/4	QGSS-12	283.44	10
3/4 x 1-3/4	QGSS-20	302.97	10
1 x 2-1/4	QGSS-28	323.51	10
1 x 2-3/4	QGSS-36	329.67	10
1-1/2 x 3-1/2	QGSS-48	417.99	10
1 x 4	QGSS-56	429.29	10
2 x 5	QGSS-72	436.48	10
2-1/16 x 6	QGSS-88	516.58	10
1-3/4 x 7	QGSS-104	585.39	10
1-3/4 x 8-9/16	QGSS-128	585.39	10
2 x 10	QGSS-152	624.42	10
2-1/16 x 12-5/16	QGSS-188	672.69	10
10-3/16 x 14	QGSS-216	734.31	10
10 x 16	QGSS-248	822.63	10
14-1/4 x 18	QGSS-280	896.57	10
14 x 20	QGSS-312	1066.03	10

**MINIATURE WORM GEAR**  
(1/4" screw, 5/16" band)



**Screw: Galvanized Steel**

**Band: 301 Stainless Steel**

size range	part number	list/ 100	carton qty.
7/32 x 5/8	MGCS-4	117.07	10
7/16 x 11/16	MGCS-5	117.07	10
5/16 x 7/8	MGCS-6	128.38	10
7/16 x 1	MGCS-8	139.67	10
1/2 x 1-1/16	MGCS-10	139.67	10
9/16 x 1-1/4	MGCS-12	145.83	10
11/16 x 1-1/2	MGCS-16	145.83	10
7/8 x 1-3/4	MGCS-20	152.00	10

**Screw: 305 Stainless Steel**

**Band: 301 Stainless Steel**

7/32 x 5/8	MGSS-4	148.92	10
7/16 x 11/16	MGSS-5	148.92	10
5/16 x 7/8	MGSS-6	160.21	10
7/16 x 1	MGSS-8	180.75	10
1/2 x 1-1/16	MGSS-10	180.75	10
9/16 x 1-1/4	MGSS-12	193.08	10
11/16 x 1-1/2	MGSS-16	193.08	10
7/8 x 1-3/4	MGSS-20	198.21	10



## T-BOLT CLAMPS

### Bolt & Trunion: Stainless Steel Band: Stainless Steel

1.31 x 1.56	TBSS-21	13.30
1.56 x 1.81	TBSS-25	13.30
1.69 x 1.94	TBSS-27	13.30
1.81 x 2.06	TBSS-29	13.30
2.06 x 2.31	TBSS-33	13.30
2.19 x 2.50	TBSS-35	13.30
2.31 x 2.62	TBSS-37	13.30
2.38 x 2.69	TBSS-38	13.31
2.44 x 2.75	TBSS-39	13.31
2.56 x 2.87	TBSS-41	13.31
2.69 x 3.00	TBSS-43	13.31
2.81 x 3.12	TBSS-45	13.31
2.94 x 3.25	TBSS-47	13.31
3.06 x 3.37	TBSS-49	13.52
3.31 x 3.62	TBSS-53	13.52
3.56 x 3.87	TBSS-57	13.52
3.63 x 3.94	TBSS-58	13.52
3.81 x 4.12	TBSS-61	13.52
4.06 x 4.37	TBSS-65	13.67
4.31 x 4.62	TBSS-69	13.67
4.56 x 4.87	TBSS-73	14.46
4.81 x 5.12	TBSS-77	14.46
5.06 x 5.37	TBSS-81	14.57
5.31 x 5.62	TBSS-85	14.76
5.56 x 5.87	TBSS-89	14.76
5.81 x 6.12	TBSS-93	14.98
6.06 x 6.37	TBSS-97	14.98
6.31 x 6.62	TBSS-101	14.98
6.56 x 6.87	TBSS-105	14.98
6.81 x 7.12	TBSS-109	14.98
7.06 x 7.37	TBSS-113	15.26
7.31 x 7.62	TBSS-117	15.69
7.56 x 7.87	TBSS-121	15.69
7.81 x 8.12	TBSS-125	15.69
8.06 x 8.37	TBSS-129	16.09
8.69 x 9.19	TBSS-139	17.18
10.63 x 11.13	TBSS-170	19.14
12.63 x 13.13	TBSS-202	19.55

## T-BOLT CLAMPS



### Bolt & Trunion: Galvanized Steel Band: Stainless Steel

size range	part number	list each
1.31 x 1.56	TBCS-21	9.69
1.56 x 1.81	TBCS-25	9.69
1.69 x 1.94	TBCS-27	9.69
1.81 x 2.06	TBCS-29	9.69
2.06 x 2.31	TBCS-33	9.89
2.19 x 2.50	TBCS-35	9.89
2.31 x 2.62	TBCS-37	9.89
2.38 x 2.69	TBCS-38	9.89
2.44 x 2.75	TBCS-39	9.65
2.56 x 2.87	TBCS-41	9.65
2.69 x 3.00	TBCS-43	9.65
2.81 x 3.12	TBCS-45	10.12
2.94 x 3.25	TBCS-47	10.12
3.06 x 3.37	TBCS-49	10.12
3.31 x 3.62	TBCS-53	10.12
3.56 x 3.87	TBCS-57	10.12
3.63 x 3.94	TBCS-58	10.12
3.81 x 4.12	TBCS-61	10.12
4.06 x 4.37	TBCS-65	10.12
4.31 x 4.62	TBCS-69	10.12
4.56 x 4.87	TBCS-73	10.12
4.81 x 5.12	TBCS-77	10.40
5.06 x 5.37	TBCS-81	10.40
5.31 x 5.62	TBCS-85	10.50
5.56 x 5.87	TBCS-89	10.50
5.81 x 6.12	TBCS-93	10.31
6.06 x 6.37	TBCS-97	10.31
6.31 x 6.62	TBCS-101	10.31
6.56 x 6.87	TBCS-105	10.31
6.81 x 7.12	TBCS-109	10.50
7.06 x 7.37	TBCS-113	11.17
7.31 x 7.62	TBCS-117	11.17
7.56 x 7.87	TBCS-121	11.17
7.81 x 8.12	TBCS-125	11.17
8.06 x 8.37	TBCS-129	11.01
8.69 x 9.19	TBCS-139	12.02
10.63 x 11.13	TBCS-170	13.37
12.63 x 13.13	TBCS-202	13.73

All T-Bolt Clamps are packaged 10 per bag.

PHONE 800-367-3678  
FAX 800-367-3670

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The primary goal of providing imported products is to offer a convenient and consistent source for low-cost commodity hose fittings to our customers.

While imported products are rarely innovative or technologically advanced, they do fill a need when economy is of primary importance.

Campbell makes no claims as to performance or pressure ratings for any products in Section J.



Please note: we are now cataloging our line of Cobra Cam & Groove Couplings in Section C (pages 17 thru 24) joining the Campbell Cobra part C's and E's. Campbell Cobra C's and E's are designed for use with ferrules. Standard Cobra C's and E's can be used with sleeves.

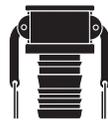
Part A



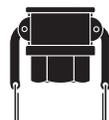
Part B



Part C



Part D



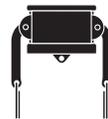
Part E



Part F



Part DC



Part DP



**COMBINATION NIPPLES**

**THREADED**



**Steel**

hose size	part number	list each
1/2	CNPS-50	2.38
3/4	CNPS-75	2.58
1	CNPS-100	3.20
1-1/4	CNPS-125	4.39
1-1/2	CNPS-150	5.04
2	CNPS-200	6.14
2-1/2	CNPS-250	13.62
3	CNPS-300	16.08
4	CNPS-400	24.21
6	CNPS-600	70.15
8	CNPS-800	140.91

**Stainless**

1/2	CNSS-50	8.79
3/4	CNSS-75	8.94
1	CNSS-100	12.27
1-1/4	CNSS-125	16.21
1-1/2	CNSS-150	18.64
2	CNSS-200	24.85
2-1/2	CNSS-250	41.67
3	CNSS-300	46.82
4	CNSS-400	73.94
6	CNSS-600	243.12

**SUCTION HOSE COUPLINGS**

**COMPLETE SET**



**Shanks: Aluminum  
Nut: Brass**

hose size	part number	list each
1-1/2	CAB-150	11.73
2	CAB-200	17.38
2-1/2	CAB-250	32.23
3	CAB-300	36.21
4	CAB-400	63.88
6	CAB-600	150.58

**Shanks: Brass**

**Nut: Brass**

hose size	part number	list each
1-1/2	CBB-150	50.68
2	CBB-200	71.99
3	CBB-300	160.27
4	CBB-400	316.17

**FEMALE SHANK**



**Shank: Aluminum  
Nut: Brass**

hose size	part number	list each
1-1/2	FAB-150	8.20
2	FAB-200	11.92
2-1/2	FAB-250	20.31
3	FAB-300	24.32
4	FAB-400	43.18
6	FAB-600	102.01

**Shank: Brass**

**Nut: Brass**

1-1/2	FBB-150	25.14
2	FBB-200	42.53
3	FBB-300	89.80
4	FBB-400	162.21

**MALE SHANK**



**Aluminum**

hose size	part number	list each
1-1/2	MA-150	4.52
2	MA-200	6.30
2-1/2	MA-250	11.52
3	MA-300	14.34
4	MA-400	24.02
6	MA-600	50.86

**Brass**

1-1/2	MB-150	21.90
2	MB-200	32.78
3	MB-300	78.29
4	MB-400	128.61

**LONG SHANK SUCTION HOSE COUPLINGS**

**COMPLETE SET**



**Shanks: Steel/Ductile  
Hex Nut: Ductile Iron**

hose size	part number	list each
1/2	SLS-50	19.32
3/4	SLS-75	19.32
1	SLS-100	20.71
1-1/4	SLS-125	22.72
1-1/2	SLS-150	26.70
2	SLS-200	37.47

**Shanks: Brass**

**Hex Nut: Brass**

1/2	SLB-50	39.74
3/4	SLB-75	39.74
1	SLB-100	45.08
1-1/4	SLB-125	78.25
1-1/2	SLB-150	92.91
2	SLB-200	134.03

**FEMALE LONG SHANK**



**Shank: Steel/Ductile  
Hex Nut: Ductile Iron**

hose size	part number	list each
1/2	FLS-50	12.29
3/4	FLS-75	12.29
1	FLS-100	12.66
1-1/4	FLS-125	12.99
1-1/2	FLS-150	15.08
2	FLS-200	20.60

**Shank: Brass**

**Hex Nut: Brass**

1/2	FLB-50	20.53
3/4	FLB-75	20.53
1	FLB-100	25.87
1-1/4	FLB-125	38.77
1-1/2	FLB-150	45.21
2	FLB-200	63.09

**MALE LONG SHANK**



**Shank: Steel/Ductile**

hose size	part number	list each
1/2	MLS-50	8.86
3/4	MLS-75	8.86
1	MLS-100	9.43
1-1/4	MLS-125	9.51
1-1/2	MLS-150	11.42
2	MLS-200	16.76

**Shanks: Brass**

1/2	MLB-50	16.45
3/4	MLB-75	16.45
1	MLB-100	18.48
1-1/4	MLB-125	33.22
1-1/2	MLB-150	41.27
2	MLB-200	57.68

**WASHER (Neoprene)**



size	part number	list each
1-1/4	WN-5	0.69
1-1/2	WN-6	0.69
2	WN-8	0.76
2-1/2	WN-10	0.90
3	WN-12	1.42
4	WN-16	1.76
6	WN-24	7.14

## SUCTION HOSE COUPLINGS (NST threads)

### COMPLETE SET



**Shanks: Aluminum**

**Nut: Brass**

hose size	part number	list each
1-1/2	NSTA-150	19.28
2-1/2	NSTA-250	36.95

**Shanks: Ductile Iron**

**Nut: Ductile Iron**

1-1/2	NSTD-150	22.36
2-1/2	NSTD-250	59.13

**Shanks: Brass**

**Nut: Brass**

1-1/2	NSTB-150	64.92
2-1/2	NSTB-250	142.15

## UNIVERSAL COUPLINGS (includes safety clip)

### HOSE END



hose size	part number	list each
3/8	HE-37	3.95
1/2	HE-50	3.95
3/4	HE-75	4.31
1	HE-100	5.45

### HOSE END (Four Lug)



hose size	part number	list each
1-1/4	HE-125	14.42
1-1/2	HE-150	16.08
2	HE-200	20.00

### FEMALE NPT



npt size	part number	list each
1/4	FE-25	4.73
3/8	FE-37	4.73
1/2	FE-50	4.52
3/4	FE-75	4.64
1	FE-100	5.25

### FEMALE NPT (Four Lug)



npt size	part number	list each
1-1/4	FE-125	14.27
1-1/2	FE-150	14.60
2	FE-200	16.46

## MALE NPT



npt size	part number	list each
1/4	ME-25	4.73
3/8	ME-37	4.73
1/2	ME-50	4.52
3/4	ME-75	4.64
1	ME-100	5.45

## UNIVERSAL 3-WAY (Two Lug)



size range	part number	list each
all	TWC	11.11

## DEAD END (Two Lug)



size range	part number	list each
all	UD	5.20

## SAFETY CLIP



size	part number	list each
all	SC	0.37

## WASHER (Two lug)



Neoprene size range	part number	list each
all	UG	0.75

## WASHER (Four lug)



size range	part number	list each
all	FW	1.69

## ALUMINUM SAND BLAST COUPLINGS

### HOSE END



hose size	part number	list each
3/4	SBH-75	9.80
1	SBH-100	10.31
1-1/4	SBH-125	15.02
1-1/2	SBH-150	17.19

### NOZZLE



hose size	part number	list each
3/4	SBN-75	9.14
1	SBN-100	10.10
1-1/4	SBN-125	12.98
1-1/2	SBN-150	20.76

## FEMALE NPT



npt size	part number	list each
1-1/4	SBF-125	10.93
1-1/2	SBF-150	11.26

## WASHER



size	part number	list each
all	SBW	1.15

## GROUND JOINT COUPLINGS (with copper seat)

SEE WARNING BELOW

### FEMALE SET



hose size	part number	list each
1/2	GF-50	27.39
3/4	GF-75	29.82
1	GF-100	29.82
1-1/4	GF-125	50.44
1-1/2	GF-150	52.64
2	GF-200	74.95
2-1/2	GF-250	153.15
3	GF-300	197.30
4	GF-400	323.51

### HOSE STEM



hose size	part number	list each
1/2	GS-50	8.86
3/4	GS-75	7.72
1	GS-100	9.44
1-1/4	GS-125	14.77
1-1/2	GS-150	15.61
2	GS-200	19.93
2-1/2	GS-250	41.74
3	GS-300	54.23
4	GS-400	98.18

### WING NUT



size	part number	list each
1/2	N-50	6.26
3/4	N-75	9.37
1	N-75	9.37
1-1/4	N-125	15.03
1-1/2	N-125	15.03
2	N-200	27.65
2-1/2	N-250	55.11
3	N-300	60.85
4	N-400	107.23

### FEMALE SPUD



npt size	part number	list each
1/2	FSP-50	14.29
3/4	FSP-75	13.45
1	FSP-100	14.36
1-1/4	FSP-125	21.45
1-1/2	FSP-150	19.17
2	FSP-200	26.49
2-1/2	FSP-250	58.61

**MALE SPUD**

	npt size	part number	list each
	1/2	MSP-50	9.14
	3/4	MSP-75	15.40
	1	MSP-100	19.71
	1-1/4	MSP-125	26.64
	1-1/2	MSP-150	27.35
	2	MSP-200	37.45

**DOUBLE SPUD**

	size	part number	list each
	1/2	DSP-50	21.01
	3/4	DSP-75	35.20
	1	DSP-75	35.20
	1-1/4	DSP-125	42.94
	1-1/2	DSP-125	42.94
	2	DSP-200	49.87

**MALE STEM**

	hose size	part number	list each
	1/2	MST-50	6.14
	3/4	MST-75	10.97
	1	MST-100	16.54
	1-1/4	MST-125	17.34
	1-1/2	MST-150	20.12
	2	MST-200	30.44
	2-1/2	MST-250	53.63
	3	MST-300	64.62
	4	MST-400	113.13

**WARNING!**

We DO NOT RECOMMEND the use of imported ground joint couplings and clamps for steam, critical, toxic, or combustible fluids, nor in cyclic conditions involving temperature or pressure. Imported ground joint couplings and clamps do not meet NAHAD material guidelines for those applications.

We DO RECOMMEND Campbell Viton Seal Ground Joint Couplings and Interlocking U-bolt Clamps (page 27) for use

**INTERLOCKING CLAMP (four-bolt)**

	hose o.d. min.	hose o.d. max.	part number	list each
	1-17/32	1-23/32	LBU-14	13.01
	2-1/16	2-1/4	LB-19	19.99
	2-3/32	2-9/32	LBU-24	22.26
	2-1/4	2-7/16	LB-24	25.11
	2-1/2	2-25/32	LBU-29	28.42
	2-3/4	3-1/16	LB-29	38.34
	3-3/32	3-7/16	LBU-34	58.01
	3-1/2	3-15/16	LB-34	65.65
	3-13/16	4-3/16	LB-35	79.37
	4-1/16	4-7/16	LB-39	103.41

**INTERLOCKING CLAMP (six-bolt)**

	hose o.d. min.	hose o.d. max.	part number	list each
	4-1/4	4-13/16	LBU-39	110.41
	4-7/8	5-5/16	LBU-49	204.93
	5-1/8	6-3/16	LB-49	207.66

**DOUBLE BOLT CLAMPS**

	hose o.d. min.	hose o.d. max.	part number	list each
	7/8	1-1/8	SL-29	3.08
	1-3/16	1-5/16	SL-34	3.29
	1-5/16	1-17/32	SL-40	4.42
	1-3/4	1-31/32	SL-49	6.11
	2-3/16	2-9/16	SL-60	6.58
	2-5/16	2-15/16	SL-76	7.27
	3-3/16	3-3/4	SL-94	12.91
	3-7/16	3-13/16	400	15.07
	4	4-3/8	463	15.07
	4-1/2	5-1/8	525	21.16
	4-11/16	5-1/8	550	21.16
	5-1/2	5-15/16	600	22.22
	6-1/8	6-7/8	675	25.05
	6-7/8	7-3/8	769	30.97
	7-3/8	8	818	48.56
	8-1/4	8-7/8	875	43.48
	8-15/16	9-3/4	988	46.60
	9-5/16	11-3/8	1125	94.37
	11-3/16	13	1275	107.39
	13-3/16	15	1450	177.41
	15-1/16	17-1/2	1700	216.27

**HOSE CLAMPS**

**UNIVERSAL COUPLING CLAMP**

	hose o.d. min.	hose o.d. max.	part number	list each
	1	1-1/8	UHC-50	4.46
	1-1/8	1-5/16	UHC-75	6.05
	1-1/2	1-13/16	UHC-100	7.46

**INTERLOCKING CLAMP (two-bolt)**

	hose o.d. min.	hose o.d. max.	part number	list each
	15/16	1-1/16	LB-4	4.54
	1-3/16	1-5/16	LBU-9	6.64
	1-5/16	1-1/2	LB-9	8.49
	1-1/2	1-11/16	LB-10	10.46

**SPIRAL CLAMPS (right hand a.k.a. clockwise)**

**PLATED STEEL**

	hose size	part number	list each
	1-1/2	SC-150	11.72
	2	SC-200	13.15
	2-1/2	SC-250	15.51
	3	SC-300	16.55
	4	SC-400	18.40
	5	SC-500	25.51
	6	SC-600	25.07
	8	SC-800	28.75
	10	SC-1000	40.33
	12	SC-1200	42.28

continued on next page

## BRASS FIRE HOSE ACCESSORIES

### DOUBLE MALE HEX NIPPLE



npt x ght thread size	part number	list each
1 x 3/4	DMH1076	28.15

npt x npsh	part number	list each
1 x 1	DMH1010	26.87
1-1/2 x 1-1/2	DMH1515	29.39
2 x 2	DMH2020	72.27
2-1/2 x 2-1/2	DMH2525	72.27

npt x nst	part number	list each
1 x 1	DMH1010F	26.87
1-1/2 x 1-1/2	DMH1515F	30.63
2 x 2-1/2	DMH2025F	80.40
2-1/2 x 2-1/2	DMH2525F	76.50
3 x 2-1/2	DMH3025F	125.81

nst x nst	part number	list each
1-1/2 x 1-1/2	DMH15F15F	29.39

### FEMALE TO MALE HYDRANT ADAPTER



nst x ght thread size	part number	list each
1-1/2 x 3/4	HA1576	50.27
2-1/2 x 3/4	HA2576	43.42

nst x npsh	part number	list each
2-1/2 x 1	HA2510	41.36
2-1/2 x 1-1/2	HA2515	41.36
2-1/2 x 2	HA2520	58.62

nst x npt	part number	list each
1-1/2 x 1-1/2	HA1515T	51.75
2-1/2 x 3/4	HA2575T	43.42
2-1/2 x 1	HA2510T	41.37
2-1/2 x 1-1/2	HA2515T	43.42
2-1/2 x 2	HA2520T	58.62

nst x nst	part number	list each
2-1/2 x 1-1/2	HA2515F	43.41
3 x 2-1/2	HA3025F	106.05

npsh x nst	part number	list each
1-1/2 x 1-1/2	HA15S15F	47.58
3 x 2-1/2	HA30S25F	106.05

### FEMALE TO MALE NIPPLE



npt x ght thread size	part number	list each
1 x 3/4	FM1076	27.58

npt x npsh	part number	list each
1-1/2 x 1-1/2	FM1515	36.32
2-1/2 x 2-1/2	FM2525	76.53

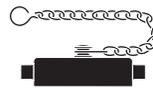
npt x nst	part number	list each
1-1/2 x 1-1/2	FM1515F	36.32
2-1/2 x 2-1/2	FM2525F	76.50
3 x 2-1/2	FM3025F	121.91

npsh x nst	part number	list each
1-1/2 x 1-1/2	FM15S15F	36.32
2-1/2 x 2-1/2	FM25S25F	76.50

nst x npt	part number	list each
1-1/2 x 1-1/2	FM15F15T	36.32
2-1/2 x 2-1/2	FM25F25T	80.14
2-1/2 x 2	FM25F20T	76.50
2-1/2 x 1-1/2	FM25F15T	86.72
2-1/2 x 3	FM25F30T	144.62

npsh x npt	part number	list each
1-1/2 x 1-1/2	FM15S15T	36.32

### CAPS WITH CHAIN



size thread	part number	list each
1-1/2 npsh	FC150	29.74
1-1/2 nst	FC150F	29.74
2-1/2 npsh	FC250	51.78
2-1/2 nst	FC250F	51.78

### BRASS NOZZLES



size thread	part number	list each
3/4 ght	BN6	27.16
3/4 npsh	BN7	27.16
1 npsh	BN10	33.18
1-1/4 npsh	BN12	66.44
1-1/2 npsh	BN15	61.61
1-1/2 nst	BN15F	61.61
2 npsh	BN20	101.96
2-1/2 npsh	BN25	120.98
2-1/2 nst	BN25F	120.98

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**WARRANTY** – Campbell Fittings, Inc. warrants the products described herein to be free from defects in materials or workmanship for a period of one year from the date of shipment by Campbell Fittings, Inc. under normal use and service. The obligation under this warranty is limited to replacing or repairing, without charge, any part supplied by Campbell Fittings, Inc. proven to have been defective at time of shipment, and is expressly conditioned on the Purchaser's giving Campbell Fittings, Inc. immediate notice upon discovery of the defect. Campbell Fittings, Inc. shall have the option of requiring the return of the defective material (transportation prepaid) to establish the claim.

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# Campbell Fittings

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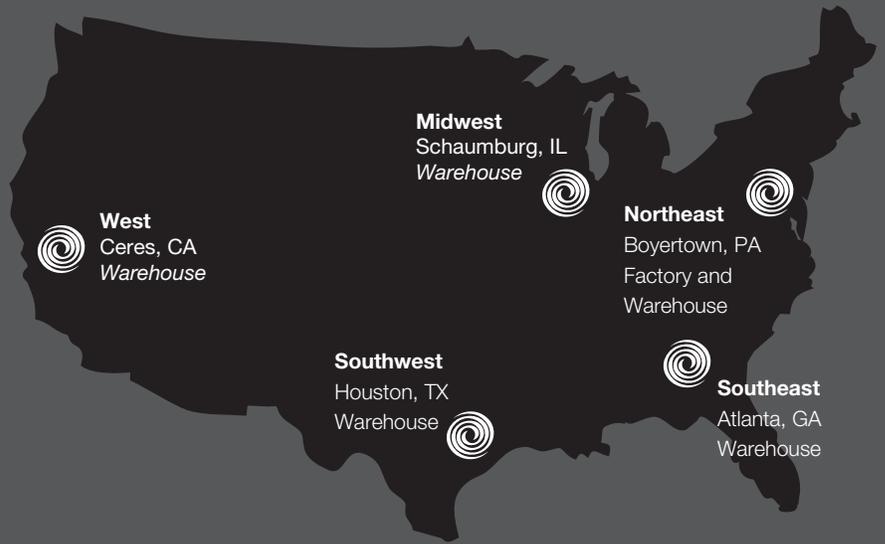
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