



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

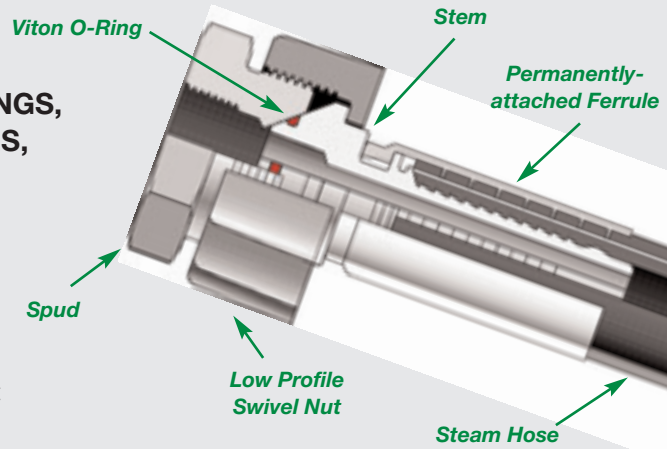
Features & Benefits

- Viton Seal Couplings pass 1000 hour MIL-H-29210.
- 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 21)



NEW! 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.

NEW! 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 ²	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	8
Viton Ground Joint Coupling	U-Bolt Clamp	Steam	1500	1250	1250	1250	1250	1250	800	500	500	-	-
Male Stem and Mender	U-Bolt Clamp	Steam	1500	1250	1250	1250	1250	1250	800	500	500	-	-
Viton Ground Joint Coupling	Staked Ferrule	Steam	1250	1250	1250	-	-	-	-	-	-	-	-
Viton Ground Joint Coupling	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	-	-	-	-	-	-	-	-

See footnotes 1 and 2 on Page 1

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.

FEMALE SET (with low-profile nut)



Steel/Ductile Iron			
hose size	part number	list each	
1/2	RGJF-2	30.09	
3/4	RGJF-3	36.44	
1	RGJF-4	37.60	
1-1/4	RGJF-5	65.97	
1-1/2	RGJF-6	61.83	
2	RGJF-8	74.48	
2-1/2	RGJF-10	199.67	
3	RGJF-12	208.00	
4	RGJF-16	471.78	
316 Stainless			
1/2	RGJFSS-2	235.93	
3/4	RGJFSS-3	244.77	
1	RGJFSS-4	270.99	

FEMALE SET (with wing nut)



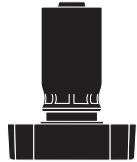
Steel/Ductile			
hose size	part number	list each	
1/2	GJF-2	30.09	
3/4	GJF-3	36.44	
1	GJF-4	37.60	
1-1/4	GJF-5	65.97	
1-1/2	GJF-6	61.83	
2	GJF-8	74.48	
2-1/2	GJF-10	199.67	
3	GJF-12	208.00	
4	GJF-16	471.78	

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	6.24	
1/4 X 3/8	IMS-1X38	6.94	
3/8 X 1/4	IMS-38X1	7.19	
3/8 X 3/8	IMS-38	5.39	
3/8 X 1/2	IMS-38X2	7.22	
1/4 X 1/2	IMS-1X2	7.22	
1/2 X 3/8	IMS-2X38	9.65	
1/2 X 1/2	IMS-2	6.01	
1/2 X 3/4	IMS-2X3	13.06	
3/4 X 1/2	IMS-3X2	15.17	
3/4 X 3/4	IMS-3	9.24	
3/4 X 1	IMS-3X4	20.61	
1 X 3/4	IMS-4X3	20.25	
1 X 1	IMS-4	13.57	

Machined Ductile Iron			
npt x hose	part number	list each	
1-1/4 X 1-1/4	IMS-5	20.72	
1-1/2 X 1-1/2	IMS-6	22.65	
2 X 2	IMS-8	30.73	
2-1/2 X 2-1/2	IMS-10	57.73	
3 X 3	IMS-12	78.74	
4 X 4	IMS-16	138.58	

316 Stainless			
npt x hose	part number	list each	
1/2 X 1/2	IMSS-2	71.43	
3/4 X 3/4	IMSS-3	77.92	
1 X 1	IMSS-4	79.55	

INTERLOCKING MALE STEM (with staked ferrule)



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

SWIVEL MALE STEM (for use with steam)



Plated Steel			
hose size	part number	list each	
3/4	IMS-3SW	32.98	

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



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

VITON SEAL HOSE STEM



Steel			
hose size	part number	list each	
1/2	GJS-2	9.60	
3/4	GJS-3	15.30	
1	GJS-4	16.46	

Machined Ductile Iron

1-1/4	GJS-5	25.38	
1-1/2	GJS-6	25.38	
2	GJS-8	31.82	
2-1/2	GJS-10	54.25	
3	GJS-12	85.11	
4	GJS-16	157.95	

316 Stainless

1/2	GJSS-2	84.55	
3/4	GJSS-3	90.70	
1	GJSS-4	115.30	

VITON SEAL MALE END (Viton seal x male npt)



Steel			
npt size	part number	list each	
3/4	GJMS-3	47.61	
1	GJMS-4	47.61	
1-1/2	GJMS-6	77.80	
2	GJMS-8	82.04	

VITON SEAL FEMALE END (Viton seal x female npt)



Steel			
npt size	part number	list each	
3/4	GJFS-3	97.64	

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

Viton should never be used with ammonia. Please contact our engineering department for information on all our gasketing materials.

FEMALE SPUD



Steel

npt size	part number	list each
1/2	GFS-2	15.26
3/4	GFS-3	13.17
1	GFS-4	13.17

Machined Ductile Iron

1-1/4	GFS-5	27.79
1-1/2	GFS-6	24.72
2	GFS-8	28.78
2-1/2	GFS-10	80.43
3	GFS-12	61.41
4	GFS-16	149.16

316 Stainless

1/2	GFSS-2	73.78
3/4	GFSS-3	79.95
1	GFSS-4	81.48

MALE SPUD



Steel

npt size	part number	list each
1/2	GMS-2	21.35
3/4	GMS-3	20.17
1	GMS-4	21.21

Machined Ductile Iron

1-1/4	GMS-5	48.27
1-1/2	GMS-6	46.50
2	GMS-8	48.99
2-1/2	GMS-10	120.51
3	GMS-12	127.24

DOUBLE SPUD



Steel

size	part number	list each
1/2	GDS-2	35.10
3/4	GDS-3	34.38
1	GDS-3	34.38

Machined Ductile Iron

1-1/4	GDS-5	58.50
1-1/2	GDS-5	58.50
2	GDS-8	59.98
2-1/2	GDS-10	124.31
3	GDS-12	131.62

SOCKET WELD SPUD



316 Stainless

size	part number	list each
3/4	GWSS-3	79.95
1	GWSS-4	81.48

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	4.90
3/4	RGN-3	7.98
1	RGN-3	7.98
1-1/4	RGN-5	12.43
1-1/2	RGN-5	12.43
2	RGN-8	13.89
2-1/2	RGN-10	62.14
3	RGN-12	54.12
4	RGN-16	153.56

316 Stainless

1/2	RGNSS-2	77.11
3/4	RGNSS-3	86.65
1	RGNSS-3	86.65

WING NUT



Machined Ductile Iron

size	part number	list each
1/2	GN-2	4.90
3/4	GN-3	7.98
1	GN-3	7.98
1-1/4	GN-5	12.43
1-1/2	GN-5	12.43
2	GN-8	13.89
2-1/2	GN-10	62.14
3	GN-12	54.12
4	GN-16	153.56

INTERLOCKING HOSE MENDER



Steel

hose size	part number	list each
1/2	IHM-2	20.56
3/4	IHM-3	21.64
1	IHM-4	31.81
1-1/4	IHM-5	45.87
1-1/2	IHM-6	62.13
2	IHM-8	38.47

DEAD-END



size	part number	list each
3/4	GDC-3	50.57
1	GDC-3	50.57

VITON O-RING



size	part number	list each
1/2	VO-2	0.92
3/4	VO-3	1.08
1	VO-3	1.08
1-1/4	VO-5	1.99
1-1/2	VO-5	1.99
2	VO-8	2.75
2-1/2	VO-10	4.20
3	VO-12	5.78
4	VO-16	6.38

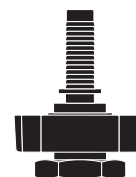


FEMALE SET (with low profile nut)



hose size	part number	list each
3/4	RHJF-3	53.74
1	RHJF-4	49.29

FEMALE SET (with wing nut)



hose size	part number	list each
3/4	HJF-3	53.74
1	HJF-4	49.29

HOSE STEM



hose size	part number	list each
3/4	HJS-3	18.08
1	HJS-4	15.75

FEMALE SPUD



npt size	part number	list each
3/4	HFS-3	23.08
1	HFS-4	21.09

MALE SPUD



npt size	part number	list each
3/4	HMS-3	30.54
1	HMS-4	28.67

LOW PROFILE SWIVEL NUT



size	part number	list each
3/4	RHN-3	12.60
1	RHN-3	12.60



WING NUT



Ductile Iron

size	part number	list each
3/4	HN-3	12.60
1	HN-3	12.60

DOUBLE SPUD



Steel

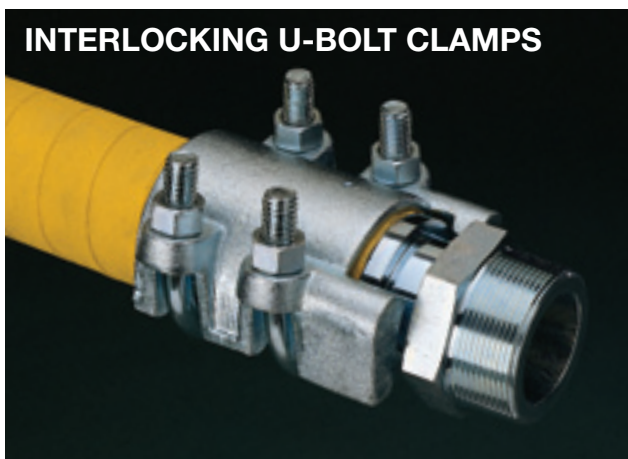
size	part number	list each
3/4	HDS-3	31.13
1	HDS-3	31.13

DEAD END



Steel

size	part number	list each
3/4	HDC-3	62.61
1	HDC-3	62.61



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	7.32
1-1/16	1-1/4	3/4	IC-3S	9.15
1-3/32	1-3/8	3/4	IC-3	9.08

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	17.14
1-1/2	1-11/16	1	IC-4L	17.14
1-9/16	2	1-1/4	IC-5	30.71
1-15/16	2-3/16	1-1/2	IC-6	29.80
2-3/16	2-3/8	1-1/2	IC-6L	25.91
2-11/32	2-11/16	2	IC-8	35.81
2-11/16	2-15/16	2	IC-8L	30.48
3	3-9/32	2-1/2	IC-10	45.42
3-9/32	3-9/16	2-1/2	IC-10L	62.49

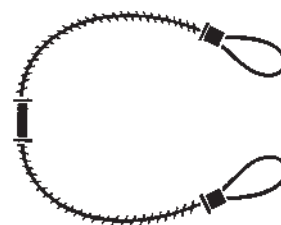
TRIPLE U-BOLT



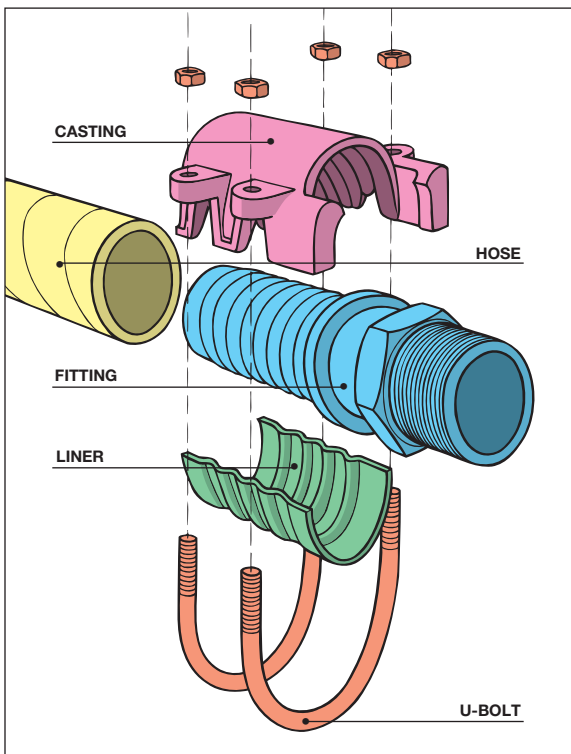
hose o.d. min	hose o.d. max	hose size	part number	list each
3-5/16	3-3/4	3	IC-12S	70.09
3-11/16	4-1/8	3	IC-12	74.53
4-1/16	4-1/2	3	IC-12L	109.71
4-5/16	4-3/4	4	IC-16S	210.34
4-11/16	5-1/8	4	IC-16	210.34
5-1/16	5-1/2	4	IC-16L	344.93

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 CHECK SAFETY CABLE (hose to hose)



hose size	part number	list each
1/2	WC-1	20.66
3/4	WC-1	20.66
1	WC-1	20.66
1-1/4	WC-2	34.27
1-1/2	WC-2	34.27
2	WC-2	34.27



This 2" 1000 psi rated hose exploded in a test at 5200 psi. The hose exceeded its minimum 4X safety factor. The fitting and clamp exceeded the capacity of the hose.



FERRULES

**FERRULES
 for ground joints**



Plated Steel

hose size	ferrule i.d.	part number	list each
1/2	1	FPS050100S	7.48
1/2	1-4/64	FPS050104S	7.48
1/2	1-8/64	FPS050108S	7.48
3/4	1-16/64	FPS075116	7.48
3/4	1-20/64	FPS075120	7.48
3/4	1-24/64	FPS075124	7.48
3/4	1-28/64	FPS075128	7.48
3/4	1-32/64	FPS075132	7.48
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	13.21
1-1/4	1-56/64	FPS125156L	13.21
1-1/4	1-60/64	FPS125160L	13.21
1-1/2	1-60/64	FPS150160L	15.81
1-1/2	2	FPS150200L	15.81
1-1/2	2-4/64	FPS150204L	15.81
1-1/2	2-8/64	FPS150208L	15.81
1-1/2	2-12/64	FPS150212L	15.81
1-1/2	2-16/64	FPS150216L	15.81
1-1/2	2-20/64	FPS150220L	15.81
1-1/2	2-24/64	FPS150224L	15.81

2	2-32/64	FPS200232L	19.20
2	2-36/64	FPS200236L	19.20
2	2-40/64	FPS200240L	19.20
2	2-44/64	FPS200244L	19.20
2	2-48/64	FPS200248L	19.20
2	2-52/64	FPS200252L	19.20
2	2-56/64	FPS200256L	19.20
2	2-60/64	FPS200260L	19.20
2-1/2	3-8/64	FPS250308L	26.40
2-1/2	3-12/64	FPS250312L	26.40
2-1/2	3-16/64	FPS250316L	26.40
2-1/2	3-20/64	FPS250320L	26.40
2-1/2	3-28/64	FPS250328L	26.40
3	3-36/64	FPS300336L	27.07
3	3-40/64	FPS300340L	27.07
3	3-44/64	FPS300344L	27.07
3	3-48/64	FPS300348L	27.07
3	3-52/64	FPS300352L	27.07
3	3-56/64	FPS300356L	27.07
3	3-60/64	FPS300360L	27.07
3	4	FPS300400L	27.07
4	4-40/64	FPS400440L	36.75
4	4-44/64	FPS400444L	36.75
4	4-48/64	FPS400448L	36.75
4	4-52/64	FPS400452L	36.75
4	4-56/64	FPS400456L	36.75
4	4-60/64	FPS400460L	36.75
4	5	FPS400500L	36.75
4	5-4/64	FPS400504L	36.75

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

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