

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



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

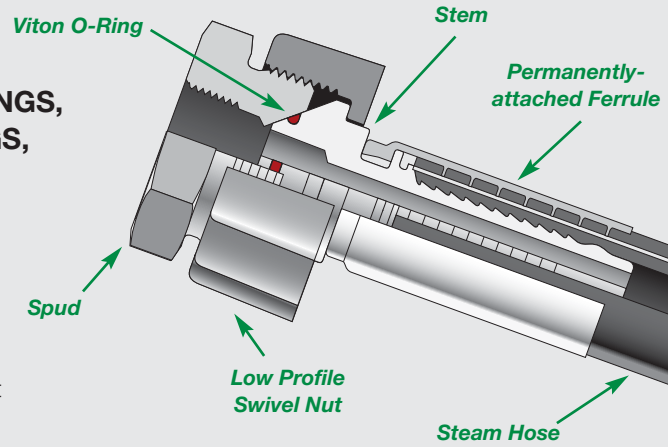
### Features & Benefits

- 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.

Smooth End Detail



Interlock Groove



### 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.

### Recommended hose attachment

- Interlocking ferrules
- Interlocking U-bolt clamps (Page 21)

### 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 Male Stem and Mender	U-Bolt Clamp	Rubber/Steam	1500	1250	1250	1250	1250	1250	800	500	500	-	-
	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 Male Stem	Long Ferrule	Rubber	1000	1000	1000	1000	1000	1000	650	400	400	-	-
	Long Ferrule	Rubber	1000	1000	1000	1000	1000	1000	650	400	400	-	-
	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	32.72	
3/4	RGJF-3	39.87	
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			
1/2	RGJFSS-2	260.61	
3/4	RGJFSS-3	270.37	
1	RGJFSS-4	299.34	

### FEMALE SET (with wing nut)



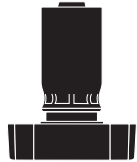
Steel/Ductile			
hose size	part number	list each	
1/2	GJF-2	32.72	
3/4	GJF-3	39.87	
1	GJF-4	41.15	
1-1/4	GJF-5	72.87	
1-1/2	GJF-6	69.93	
2	GJF-8	84.23	
2-1/2	GJF-10	220.55	
3	GJF-12	221.45	
4	GJF-16	494.72	

### 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	6.90	
1/4 X 3/8	IMS-1X38	7.65	
3/8 X 1/4	IMS-38X1	8.40	
3/8 X 3/8	IMS-38	6.20	
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	17.80	
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			
npt x hose	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			
npt x hose	part number	list each	
1/2 X 1/2	IMSS-2	78.90	
3/4 X 3/4	IMSS-3	86.07	
1 X 1	IMSS-4	87.87	

### 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	36.43	

### 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	10.08	
3/4	GJS-3	16.91	
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	

\*\* 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	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-	88.32
1	GWSS-4	90.00

**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
4	VO-16	7.04

**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
1	RHN-3	13.92

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.