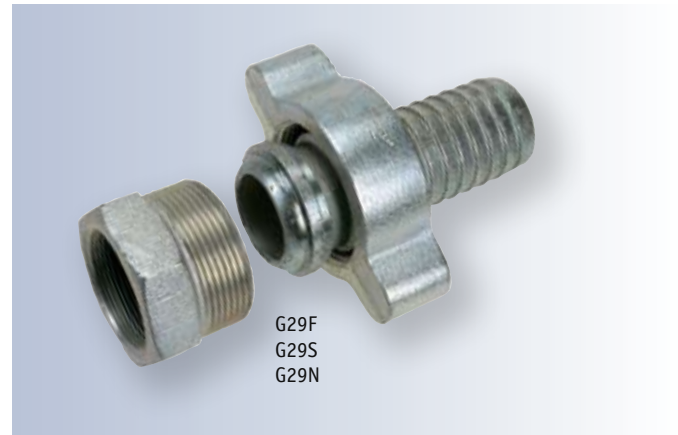


# GROUND JOINT FITTINGS

Ground joint fittings are for heavy-duty applications such as steam, air supply for construction, roadbuilding, and drilling applications. The coarse threads make G29 couplings easy to couple in the field, and the heavy wing nuts can be tightened using a hammer or mallet. Collars on the hose stems are designed for use with G29C interlocking clamps. Typical hose assemblies will have G29S stems and G29N wing nuts on both ends fastened with G29C clamps. Hose lengths can then be joined using G29DS double spuds. Male and female spuds are used to adapt to pipe thread ends on valves, pipe fittings, or manifolds. Ground joint fittings are made from plated ductile iron. Small size stems are plated carbon steel and small double spuds are brass.



G29F  
G29S  
G29N

Part Number	Hose Size	PRICE EACH		Pkg Qty
		Loose	Std Pkg	

### G29S... GROUND JOINT FEMALE STEM



G29S-050	1/2"	\$ 6.10	\$ 5.40	5
G29S-075	3/4"	8.10	7.30	5
G29S-100	1"	9.00	8.10	5
G29S-125	1 1/4"	11.90	10.80	5
G29S-150	1 1/2"	12.80	11.30	5
G29S-200	2"	13.90	12.50	5
G29S-250	2 1/2"		32.50	1
G29S-300	3"		37.50	1
G29S-400	4"		99.00	1

### G29N... GROUND JOINT WING NUT



G29N-050	1/2"	\$ 4.70	\$ 4.30	5
G29N-075	3/4" & 1"	7.10	6.50	5
G29N-125	1 1/4" & 1 1/2"	12.10	11.00	5
G29N-200	2"	20.20	18.20	5
G29N-250	2 1/2"		42.00	1
G29N-300	3"		43.50	1
G29N-400	4"		119.00	1

### G29F... GROUND JOINT FEMALE SPUD



Part Number	Female Pipe	PRICE EACH		Pkg Qty
		Loose	Std Pkg	
G29F-050	1/2"	\$ 9.40	\$ 8.50	5
G29F-075	3/4"	11.00	9.90	5
G29F-100	1"	11.00	9.90	5
G29F-125	1 1/4"	18.80	17.00	5
G29F-150	1 1/2"	18.80	17.00	5
G29F-200	2"	21.60	19.40	5
G29F-250	2 1/2"		46.00	1
G29F-300	3"		60.70	1
G29F-400	4"		97.50	1

Part Number	Hose Size	PRICE EACH		Pkg Qty
		Loose	Std Pkg	

### G29M... GROUND JOINT MALE SPUD



Part Number	Male Pipe	PRICE EACH		Pkg Qty
		Loose	Std Pkg	
G29M-050	1/2"	\$ 10.90	\$ 9.80	5
G29M-075	3/4"	14.20	12.80	5
G29M-100	1"	16.50	14.80	5
G29M-125	1 1/4"	23.00	20.70	5
G29M-150	1 1/2"	26.70	24.00	5
G29M-200	2"	33.00	29.70	5

### G29DS... GROUND JOINT DOUBLE SPUD



G29DS-050	1/2"	\$ 25.90	\$ 23.30	5
G29DS-075	3/4" & 1"	24.90	22.40	5
G29DS-125	1 1/4" & 1 1/2"	31.10	28.00	5
G29DS-200	2"	40.10	36.10	5
G29DS-300	3"		150.70	1

## HOSE STEMS

G23S Stems feature long shanks for extra fitting retention, and collars for use with G29C interlocking clamps. Sizes up to and including 1" are carbon steel. Sizes above 1" are made from ductile iron. All G23S series stems are zinc plated.

Part Number	Pipe Size	Hose Size	PRICE EACH		Pkg Qty
			Loose	Std Pkg	

### G23S... STEEL MALE NPT HOSE BARB



G23S-013-025	1/8"	1/4"	\$ 3.90	\$ 3.50	5
G23S-025-025	1/4"	1/4"	3.90	3.50	5
G23S-025-038	1/4"	3/8"	3.40	3.10	5
G23S-025-050	1/4"	1/2"	5.00	4.60	5
G23S-038-025	3/8"	1/4"	5.00	4.50	5
G23S-038-038	3/8"	3/8"	3.70	3.30	5
G23S-038-050	3/8"	1/2"	4.90	4.50	5
G23S-050-038	1/2"	3/8"	4.60	4.20	5
G23S-050-050	1/2"	1/2"	5.00	4.60	5
G23S-050-075	1/2"	3/4"	9.00	8.00	5
G23S-075-050	3/4"	1/2"	9.00	8.00	5
G23S-075-075	3/4"	3/4"	7.90	7.10	5
G23S-075-100	3/4"	1"	9.60	8.60	5
G23S-100-075	1"	3/4"	13.50	12.20	5
G23S-100-100	1"	1"	11.30	10.10	5
G23S-125-125	1 1/4"	1 1/4"	12.50	11.10	5
G23S-150-150	1 1/2"	1 1/2"	15.70	14.10	5
G23S-200-200	2"	2"	22.30	20.10	5
G23S-250-250	2 1/2"	2 1/2"		45.50	1
G23S-300-300	3"	3"		56.20	1
G23S-400-400	4"	4"		102.80	1

## G29C BOLT CLAMPS

G29C clamps are designed to lock into the collars provided on G23S and G29S hose stems. This feature prevents fitting pull-out. G29C clamps are plated ductile iron. Clamps have two, four, or even six bolts depending on size.

Part Number	Nom. Size	Hose Min	O.D. Max	Cross Ref	Tighten Torque*	PRICE EACH		Pkg Qty
						Loose	StdPkg	

### G29C... BOLT CLAMPS



G29C-038	3/8"	0.69"	0.88"	CD	6	\$ 5.10	\$ 4.70	5
G29C-050AA	1/2"	0.81"	0.94"	DD	6	5.40	5.00	5
G29C-050A	1/2"	0.94"	1.06"	B4	12	5.40	5.00	5
G29C-050B	1/2"	1.06"	1.19"	B5	12	5.90	5.30	5
G29C-075AA	3/4"	1.16"	1.28"	BU9S	21	6.60	6.00	5
G29C-075A	3/4"	1.19"	1.31"	BU9	21	6.60	6.00	5
G29C-075B	3/4"	1.31"	1.50"	B9	21	7.70	6.90	5
G29C-075C	3/4"	1.50"	1.69"	B10	21	9.10	8.10	5
G29C-100AA	1"	1.41"	1.56"	156	21	11.60	10.50	5
G29C-100A	1"	1.53"	1.72"	BU14	21	11.60	10.50	5
G29C-100B	1"	1.63"	1.84"	B14	21	11.60	10.50	5
G29C-100C	1"	1.88"	2.06"	B15	21	15.50	13.90	5
G29C-125	1 1/4"	2.06"	2.25"	B19	40	17.60	15.70	5
G29C-150AAA	1 1/2"	1.81"	2.00"	BU22	40	19.20	17.30	5
G29C-150AA	1 1/2"	2.00"	2.22"	B22	40	19.20	17.30	5
G29C-150A	1 1/2"	2.09"	2.28"	BU24	40	20.60	18.50	5
G29C-150B	1 1/2"	2.25"	2.44"	B24	40	20.60	18.50	5
G29C-150C	1 1/2"	2.47"	2.72"	B25	60	24.20	21.80	5
G29C-200AA	2"	2.34"	2.53"	BU28	60	25.10	22.50	5
G29C-200A	2"	2.50"	2.78"	BU29	60	25.10	22.50	5
G29C-200B	2"	2.75"	3.06"	B29	60	29.20	26.20	5
G29C-200C	2"	3.09"	3.44"	B30	150	50.90	45.80	5
G29C-250	2 1/2"	3.50"	3.94"	B34	150		51.40	1
G29C-300AA	3"	3.50"	3.94"	BU35	150		50.90	1
G29C-300A	3"	3.81"	4.19"	B35	200		53.00	1
G29C-400AA	4"	4.25"	4.81"	BS39	200		168.50	1

\* Recommended tightening torque for dry (un-lubricated) bolts in ft.lbs.

# MINING HOSE FITTINGS

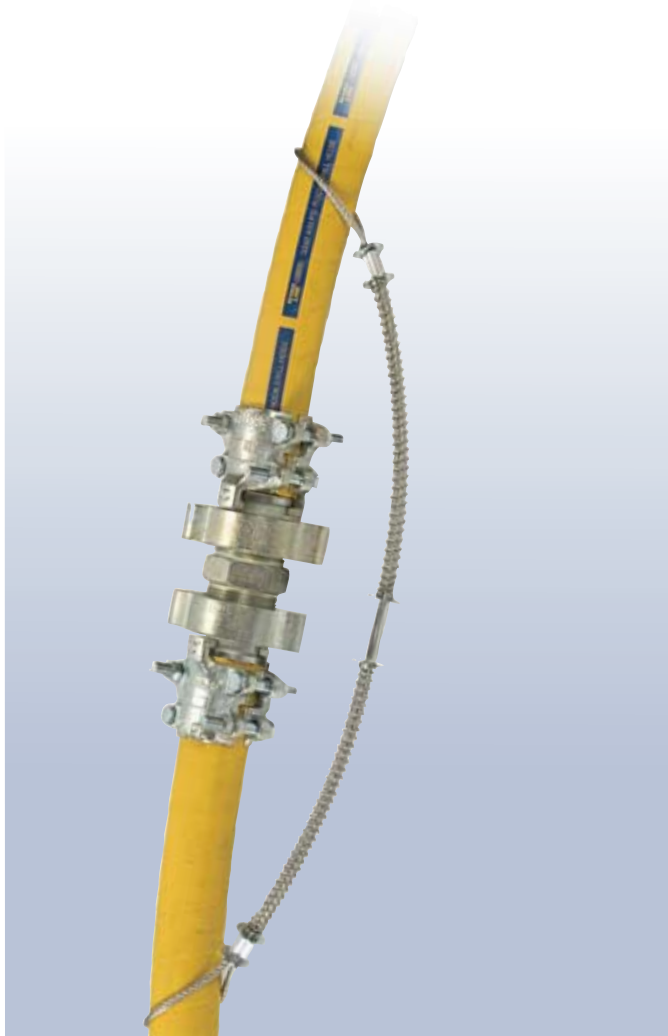
Hoses can whip if they become accidentally uncoupled or tear away from the fitting. G29R safety cables act to control whipping in the event of a failure. To function properly, restraint cables must be installed in a fully extended position with no slack.

**Part No.**                      **Description**                      **PRICE EACH**

## G29R... HOSE RESTRAINT CABLES



G29R-125	1/8" Cable for 1/2" to 1 1/4" Hose	\$ 12.50
G29R-300	1/4" Cable for 1 1/2" to 3" Hose	20.50



G29R... Hose Restraint Cable

**Part Number**                      **Pipe Size**                      **Hose Size**                      **PRICE EACH**                      **Pkg Qty**

## G19S... FEMALE STEM

G19 series fittings are unique to the mining industry and are not typically found in other applications. Our mining fittings are made from plated steel.



G19S-050-050	1/2"	1/2"	\$ 4.10	\$ 3.60	10
G19S-100-050	1"	1/2"	5.40	4.80	10
G19S-100-075	1"	3/4"	5.70	5.20	10
G19S-100-100	1"	1"	5.40	4.80	10
G19S-125-125	1 1/4"	1 1/4"	15.30	14.00	10
G19S-150-150	1 1/2"	1 1/2"	18.80	16.80	10
G19S-200-200	2"	2"	30.80	28.10	10

## G19N... HEX NUT



**Pipe Size**

G19N-050	1/2"	\$ 3.70	\$ 3.30	10
G19N-100*	1"	4.00	3.60	10
G19N-125	1 1/4"	9.70	8.70	10
G19N-150	1 1/2"	14.60	13.20	10
G19N-200	2"	20.00	18.00	10

\* The 1" hex nut is used with G19S-100-050, -100-075, and -100.

## G19F... FEMALE SPUD



**Female Pipe**                      **Male Pipe**

G19F-038-100	3/8"	1"	7.70	7.00	10
G19F-075-100	3/4"	1"	7.70	7.00	10
G19F-100-100	1"	1"	9.80	8.90	10

## G19DS... MINING HOSE UNION



**Pipe Size**

G19DS-100	1"	\$ 4.50	\$ 4.10	10
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# UNIVERSAL FITTINGS

Universal fittings are designed to offer a quick connection on air hoses, typically for jackhammer and similar applications. To ensure that couplings are fully connected, and to prevent accidental disconnection, safety clips should always be used. Universal couplings are rated for 110 psi maximum and are not designed for steam service. Larger sizes are available in four-lug style. See page 11 for details.

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Air & Mining

Part Number	Hose Size	IMPA Code	PRICE Loose	EACH Std Pkg	Pkg Qty
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### G25... UNIVERSAL HOSE END



G25-038	3/8"	35-10-21	\$ 3.40	\$ 3.00	10
G25-050	1/2"	35-10-22	3.40	3.00	10
G25-075	3/4"	35-10-23	3.50	3.20	10
G25-100	1"	35-10-24	4.30	3.90	10

### G25C... UNIVERSAL HOSE END WITH CRIMP FERRULE



Part Number	Pipe Size	Fits Hose O.D.		PRICE Loose	EACH Std Pkg	Pkg Qty
		Min	Max			
G25C-050	1/2"	0.84"	1.03"	\$ 7.00	\$ 6.75	10
G25C-075	3/4"	1.06"	1.34"	7.80	7.50	10
G25C-100	1"	1.28"	1.53"	8.60	8.20	10
G25C-101	1"	1.46"	1.71"	8.60	8.20	10

### G26... UNIVERSAL MALE PIPE ADAPTER



Part Number	Pipe Size	PRICE Loose	EACH Std Pkg	Pkg Qty
G26-025	1/4"	\$ 9.40	\$ 8.60	10
G26-038	3/8"	4.40	4.00	10
G26-050	1/2"	3.90	3.50	10
G26-075	3/4"	4.20	3.80	10
G26-100	1"	4.70	4.20	10

### G27... UNIVERSAL FEMALE PIPE ADAPTER



G27-025	1/4"	\$ 7.10	\$ 6.60	10
G27-038	3/8"	4.10	3.70	10
G27-050	1/2"	3.60	3.30	10
G27-075	3/4"	3.80	3.40	10
G27-100	1"	4.20	3.80	10

### G28C... CAP



G28C	Cap	\$ 7.60	\$ 6.80	5
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Part Number	PRICE Loose	EACH Std Pkg	Pkg Qty
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### G28Y... THREE-WAY CONNECTOR



G28Y	Three-way connector	\$ 10.20	\$ 9.10	5
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### G28... UNIVERSAL FITTING ACCESSORIES



G28	Standard gasket	\$ 0.42	\$ 0.32	50
G28L	Lanyard	0.34	0.22	50
G28P	Oil resistant gasket	1.05	0.84	50



G28SC



G28SP

G28SC	Safety clip	\$ 0.23	\$ 0.14	50
G28SP	Heavy duty safety pin	2.20	1.90	25

### G25B... BRONZE UNIVERSAL HOSE END



Part Number	Hose Size	PRICE Loose	EACH Std Pkg	Pkg Qty
G25B-038	3/8"	\$ 15.30	\$ 13.80	10
G25B-050	1/2"	12.60	11.20	10
G25B-075	3/4"	14.90	13.40	10
G25B-100	1"	18.10	16.40	10

### G26B... BRONZE UNIVERSAL MALE PIPE ADAPTER



G26B-025	1/4"	\$ 16.30	\$ 14.90	10
G26B-038	3/8"	16.30	14.90	10
G26B-050	1/2"	13.80	12.40	10
G26B-075	3/4"	16.00	14.40	10
G26B-100	1"	18.20	16.40	10

### G27B... BRONZE UNIVERSAL FEMALE PIPE ADAPTER



G27B-038	3/8"	\$ 16.30	\$ 14.70	10
G27B-050	1/2"	14.60	13.10	10
G27B-075	3/4"	14.60	13.10	10
G27B-100	1"	18.00	16.30	10

# FOUR-LUG UNIVERSAL FITTINGS

Four lug universals are still occasionally found in pulp mill wash-down and other mill applications. As with standard universals, they should be used with safety clips. Not recommended for steam or compressed air service.

Part Number	Hose Size	Material	PRICE EACH		Pkg Qty
			Loose	Std Pkg	

## G25... FOUR-LUG UNIVERSAL HOSE END



G25-125	1 1/4"	Plated iron	\$ 14.60	\$ 13.10	10
G25-150	1 1/2"	Plated iron	16.80	15.10	10
G25-200	2"	Plated iron	20.10	18.10	10

## G27... FOUR-LUG FEMALE PIPE ADAPTER



### Pipe Size

G27-125	1 1/4"	Plated iron	\$ 15.50	\$ 13.90	10
G27-150	1 1/2"	Plated iron	15.50	13.90	10
G27-200	2"	Plated iron	15.50	13.90	10

## G28... FOUR-LUG GASKET



G28-125	1 1/4" Standard gasket		\$ 2.10	\$ 1.80	
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# DOUBLE-LOCK QUICK ACTING COUPLINGS

Double-Lock Couplings offer maximum protection against accidental disconnection. All hose ends feature locking sleeves. To disconnect, the sleeve must be pulled back and the fitting rotated at the same time. For even additional protection, users can insert a spring-lock clip into the coupling that must be removed to allow disconnection. Brass fittings are available on special order.

Part Number	Hose Size	Material	PRICE EACH		Pkg Qty
			Loose	Std Pkg	

## G15L... DOUBLE-LOCK HOSE END



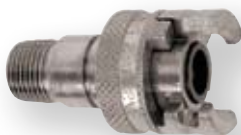
G15L-038	3/8"	Steel	\$ 30.60	\$ 27.60	10
G15L-050	1/2"	Steel	30.60	27.60	10
G15L-075	3/4"	Steel	32.40	29.20	10
G15L-100	1"	Steel	42.40	38.20	10

## G16... DOUBLE-LOCK MALE PIPE ADAPTER



	Pipe Size				
G16-038	3/8"	Steel	\$ 17.20	\$ 15.50	10
G16-050	1/2"	Steel	16.90	15.20	10
G16-075	3/4"	Steel	17.60	15.90	10
G16-100	1"	Steel	19.90	17.90	10

## G16L... DOUBLE-LOCK MALE W/LOCKING SLEEVE



G16L-038	3/8"	Steel	\$ 29.00	\$ 26.10	10
G16L-050	1/2"	Steel	28.90	26.00	10
G16L-075	3/4"	Steel	28.90	26.00	10

## G17... DOUBLE-LOCK FEMALE PIPE ADAPTER



G17-038	3/8"	Steel	\$ 19.80	\$ 17.80	10
G17-050	1/2"	Steel	21.40	19.30	10
G17-075	3/4"	Steel	21.60	19.40	10
G17-100	1"	Steel	23.40	21.10	10

## G17L... DOUBLE-LOCK FEMALE W/LOCKING SLEEVE



G17L-050	1/2"	Steel	\$ 32.90	\$ 29.70	10
G17L-075	3/4"	Steel	32.90	29.70	10

## G18... GASKETS & SPRING LOCKS



G18	Standard gasket		\$ 1.90	\$ 1.75	50
G18V	Viton gasket		4.50	4.10	50
G18SL	Spring locking clip		1.65	1.50	10

# TWIST-LOCK COUPLINGS

Twist-Lock couplings are fast and easy to use but provide maximum protection against accidental disconnection. They easily connect with a simple push and twist assisted by locking grooves on the sleeve body. Twist-Lock couplings seal at positive pressures as low as 10 psi to a maximum operating pressure of 300 psi and can be interchanged with similar Bowes and National products. The oil-resistant nitrile rubber gasket fits any size coupling and expands to prevent costly air leaks. These zinc plated couplings provide full air flow for efficient tool operation.

Part Number	Hose Size	PRICE EACH	Pkg Qty	
			Loose	Std Pkg

## G45M... MALE COUPLER TO HOSE END



G45M-038	3/8"	\$ 21.30	\$ 19.20	10
G45M-050	1/2"	20.80	18.70	10
G45M-075	3/4"	20.80	18.70	10

## G46M... MALE COUPLER TO MALE PIPE ADAPTER



	Pipe Size			
G46M-050	1/2"	\$ 21.60	\$ 19.40	10
G46M-075	3/4"	21.60	19.40	10

## G47M... MALE COUPLER TO FEMALE PIPE ADAPTER



G47M-038	3/8"	\$ 20.80	\$ 18.70	10
G47M-050	1/2"	20.80	18.70	10
G47M-075	3/4"	20.80	18.70	10

## G45F... FEMALE COUPLER TO HOSE END



	Hose Size			
G45F-038	3/8"	\$ 16.90	\$ 15.20	10
G45F-050	1/2"	16.90	15.20	10
G45F-075	3/4"	16.90	15.20	10

## G46F... FEMALE COUPLER TO MALE PIPE ADAPTER



	Pipe Size			
G46F-038	3/8"	\$ 16.90	\$ 15.20	10
G46F-050	1/2"	16.90	15.20	10
G46F-075	3/4"	16.90	15.20	10

## G47F... FEMALE COUPLER TO FEMALE PIPE ADAPTER



G47F-038	3/8"	\$ 16.90	\$ 15.20	10
G47F-050	1/2"	16.90	15.20	10
G47F-075	3/4"	16.90	15.20	10

## G48... TWIST-LOCK GASKET



G48		\$ 1.20	\$ 1.10	10
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