

Global Spiral

Gates Global Spiral (GS) couplings offer a no-skive solution to extreme pressure applications. Qualified and tested with EnviroFluid Spiral Hose to well beyond industry standards, this is a hose coupling combination built to last.

One Stem is all You Need....

GS



Superior Products Designed for Global Leadership

GlobalSpiral™

Gates Exclusive!
**The no-skive coupling...
 one stem is all you need**

Gates® Female Swivel Nut Coupling

Robust swivel joint allows for maximum torque

Strong full torque nut — up to 24,000 psi burst pressure (-16 size G6K) with improved torque resistance

VS

Competitor's Female Swivel Nut Coupling

Staked nut provides less burst pressure protection

Swivel joint sensitive to over-torquing

Features	Benefits
No skive	Fast, tailor-made assemblies. Eliminates skiving equipment, odor and dust.
Tested to 1,000,000 impulses cycles	Extended coupling life.
Coupling to 6,000 psi working pressure in all sizes*	Easy-to-manage inventory. Fewer SKUs.
Wide range of thread/flange configuration	Application coverage.
Long Life plating	More than five times better corrosion resistance than SALE ASTMB117 specification.
"Bite-the-wire" crimp	Improved coupling retention.
Premium non-leaded steel	Maximum strength.
+121°C temperature capability	Full performance at high temperatures. Longer coupling life.
Machined full-back FJX and FFORX nuts	4:1 burst performance up to 24,000 psi. Improved torque/sealing capability.
Meet worldwide DIN, EN, SALE, ISO and Gates G6K standards and requirements	World-class performance.
One stem used for all spiral hoses	Less inventory. Easier to use.

*Except as noted in coupling tables

Plus! GlobalSpiral™ Flanges

Solid, one-piece flange couplings preferred for high-pressure applications

Features	Benefits
No braze/weld joints	More reliable. High pressure capability
Tapered flange head design	Increased stress resistance. Better vibration resistance and reliability by eliminating braze joints.
Easily adapts to flange ports	Better stress resistance than brazed or welded fittings. Easier to install assemblies. Reduced replacement cost for standard and straight coupling assemblies. More design flexibility.
Thicker tube walls	Eliminate possible leak points. Better vibration resistance.
Premium lead-free steel	Improved flexible impulse performance.
Long Life plating	More than five times better corrosion resistance than SAE ASTMB117 specification
No braze/weld joints	High-pressure reliability. Eliminates flange head separation and premature tube failure. Increases safety factor and burst ratios

Gates Solid Flange Coupling

Thick tube wall machined from solid stock offers maximum strength and durability

No braze/weld joints are more reliable in high-pressure applications

VS.

Competitor's 90° Flange Coupling

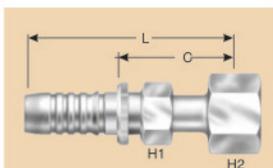
Thin tube wall is more susceptible to cracking

Brazed construction makes coupling failure more likely

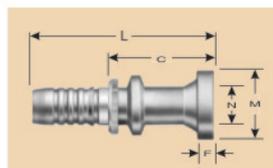
GATES GS COUPLING RANGE

GS Coupling Specifications

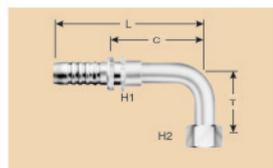
Sr. No.	Item Code	Item Description	Hose Size	Coupling Description	Back up hex size H1 mm	Nut hex size H2 mm	Drop height T mm	Stem length L mm	Cut off length C mm	Flange OD M mm	Flange ID N mm	Flange thickness F mm
1	DOM-M-1065	8GS-8FFORX	1/2"	13/16-16 (ORFS) Straight Female	27	24	N/A	73	35.5	N/A	N/A	N/A
2	DOM-M-1070	8GS-8FFORX45S	1/2"	13/16-16 (ORFS) 45 deg bend Female	27	24	15	94	56.5	N/A	N/A	N/A
3	DOM-M-1071	8GS-8FFORX90S	1/2"	13/16-16 (ORFS) 90 deg bend Female	27	24	29	86	48.5	N/A	N/A	N/A
4	DOM-M-1066	8GS-10FFORX	1/2"	1-14 (ORFS) Straight Female	27	30	N/A	78	40.5	N/A	N/A	N/A
5	DOM-M-1074	8GS-10MFFOR	1/2"	1-14 (ORFS) Straight Male	27	N/A	N/A	73.2	35.7	N/A	N/A	N/A
6	DOM-M-1072	8GS-10FFORX90M	1/2"	1-14 (ORFS) Female 90 deg bend 47 mm drop	27	30	47	101	63.5	N/A	N/A	N/A
7	DOM-M-1067	8GS-8FLH	1/2"	Code 62 Flange 1/2"	N/A	N/A	N/A	93	55.5	31.8	12.7	7.7
8	DOM-M-1069	8GS-8FLH90M	1/2"	Code 62 Flange 1/2" 90 deg bend 40 mm drop	N/A	N/A	40	88	50.5	31.8	12.7	7.7
9	DOM-M-1068	8GS-8FLH90-100	1/2"	Code 62 Flange 1/2" 90 deg bend 100 mm drop	N/A	N/A	100	88	50.5	31.8	12.7	7.7
10	DOM-M-1058	10GS-12FFORX	5/8"	1 3/16-12 (ORFS) Female	30	36	N/A	95	44.7	N/A	N/A	N/A
11	DOM-M-1062	10GS-12FFORX90-58	5/8"	1 3/16-12 (ORFS) Female 90 deg bend 58 mm drop	30	36	58	107	56	N/A	N/A	N/A
12	DOM-M-1060	10GS-10FFORX	5/8"	1-14 (ORFS) Female Straight	30	30	N/A	94	43.7	N/A	N/A	N/A
13	DOM-M-1063	10GS-10MFFOR	5/8"	1-14 (ORFS) Male Straight	27	N/A	N/A	87	36.7	N/A	N/A	N/A
14	DOM-M-1059	10GS-12FFORX90M	5/8"	1-14 (ORFS) Female 90 deg bend 47 mm dropp	30	30	47	107	55.9	N/A	N/A	N/A
15	DOM-M-1044	12GS-12FFORX	3/4"	1 3/16-12 (ORFS) Female Straight	32	36	N/A	99	48	N/A	N/A	N/A
16	DOM-M-1045	12GS-12FFORX45S	3/4"	1 3/16-12 (ORFS) Female 45 deg bend	32	36	21	125	74	N/A	N/A	N/A
17	DOM-M-1047	12GS-12FFORX90S	3/4"	1 3/16-12 (ORFS) Female 90 deg bend 48 mm drop	32	36	48	128	77	N/A	N/A	N/A
18	DOM-M-1046	12GS-12FFORX90L	3/4"	1 3/16-12 (ORFS) Female 90 deg bend 96 mm drop	32	36	96	128	77	N/A	N/A	N/A
19	DOM-M-1048	12GS-12FJX	3/4"	1 1/16-12 (JIC) Female Straight	28.5	32	N/A	98.2	47	N/A	N/A	N/A
20	DOM-M-1049	12GS-12FJX90M	3/4"	1 1/16-12 (JIC) Female 90 deg bend 58 mm drop	28.5	32	58	113	62	N/A	N/A	N/A
21	DOM-M-1052	12GS-25FDHORX	3/4"	M 36x2 Heavy Series Female Straight	N/A	46	N/A	107.4	56.4	N/A	N/A	N/A
22	DOM-M-1041	12GS-12FBSPORX	3/4"	3/4 BSP Female Straight	N/A	32	N/A	85	34	N/A	N/A	N/A
23	DOM-M-1042	12GS-12FBSPORX45M	3/4"	3/4 BSP Female 45 deg bend 28 mm drop	N/A	32	28.3	134.4	83.4	N/A	N/A	N/A
24	DOM-M-1043	12GS-12FBSPORX90M	3/4"	3/4 BSP Female 90 deg bend 60 mm drop	N/A	32	60	123.5	72.5	N/A	N/A	N/A
25	DOM-M-1050	12GS-12FL	3/4"	Code 61 Flange 3/4" Straight	N/A	N/A	N/A	111	60	38.1	19	6.7
26	DOM-M-1051	12GS-12FL90-100	3/4"	Code 61 Flange 3/4" 90 deg bend 100 mm drop	N/A	N/A	100	122	71	38.1	19	6.7
27	DOM-M-1053	12GS-12FL90-140	3/4"	Code 61 Flange 3/4" 90 deg bend 140 mm drop	N/A	N/A	140	122	71	38.1	19	6.7
28	DOM-M-1078	12GS-12FL45-100	3/4"	Code 61 Flange 3/4" 45 deg bend 100 mm drop	N/A	N/A	100	210	159	38.1	19	6.7
29	DOM-M-1054	12GS-12FLH	3/4"	Code 62 Flange 3/4" Straight	N/A	N/A	N/A	114	63	41.4	19	8.8
30	DOM-M-1057	12GS-12FLH90-90	3/4"	Code 62 Flange 3/4" 90 deg bend 90 mm drop	N/A	N/A	90	122	71	41.4	19	8.8
31	DOM-M-1056	12GS-12FLH90-122	3/4"	Code 62 Flange 3/4" 90 deg bend 120 mm drop	N/A	N/A	122	122	71	41.4	19	8.8
32	DOM-M-1055	12GS-12FLH45M	3/4"	Code 62 Flange 3/4" 45 deg bend	N/A	N/A	26	124	73	41.4	19	8.8
33	DOM-M-1030	16GS-16FFORX	1"	1 7/16 12 (ORFS) Female Straight	41	41	N/A	110	54.4	N/A	N/A	N/A
34	DOM-M-1033	16GS-16FFORX90S	1"	1 7/16 12 (ORFS) Female 90 deg bend 56 mm drop	41	41	56	144	87.6	N/A	N/A	N/A
35	DOM-M-1032	16GS-16FFORX90-120	1"	1 7/16 12 (ORFS) Female 90 deg bend 120 mm drop	41	41	120	144	87.6	N/A	N/A	N/A
36	DOM-M-1031	16GS-16FFORX45S	1"	1 7/16 12 (ORFS) Female 45 deg bend 24 mm drop	41	41	24	144	87.6	N/A	N/A	N/A
37	DOM-M-1034	16GS-16FJX	1"	1 5/16-12 (JIC) Female Straight	38	38	N/A	109.2	52.8	N/A	N/A	N/A
38	DOM-M-1035	16GS-16FJX90M	1"	1 5/16-12 (JIC) Female 90 deg bend 71 mm drop	38	38	71	144	87.6	N/A	N/A	N/A
39	DOM-M-1036	16GS-16FL	1"	Code 61 Flange 1" Straight	N/A	N/A	N/A	125	68.6	44.5	25.4	8
40	DOM-M-1038	16GS-16FL90M	1"	Code 61 Flange 1" 90 deg bend 70 mm drop	N/A	N/A	70	135	78.6	44.5	25.4	8
41	DOM-M-1037	16GS-16FL90-120	1"	Code 61 Flange 1" 90 deg bend 120 mm drop	N/A	N/A	120	134	77.2	44.5	25.4	8
42	DOM-M-1039	16GS-16FLH	1"	Code 62 Flange 1" Straight	N/A	N/A	N/A	125	68.6	47.8	25.4	9.5
43	DOM-M-1040	16GS-16FLH90M	1"	Code 62 Flange 1" 90 deg bend 70 mm drop	N/A	N/A	70	135	78.6	47.8	25.4	9.5
44	DOM-M-1024	16GS-30FDHORX	1"	M 42x2 Heavy Series Female Straight	N/A	50	N/A	118	61.6	N/A	N/A	N/A



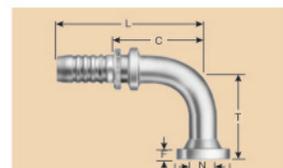
Female swivel straight coupling



Straight Flanges



Female swivel bent couplings



Bent flanges



A Tomkins Company



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