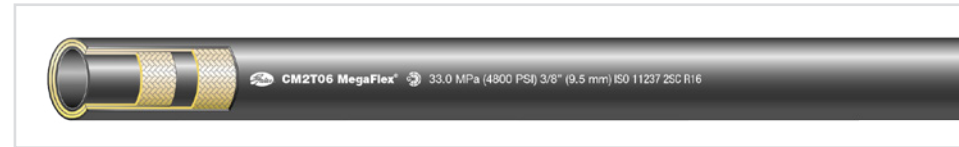


CM2T



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RECOMMENDED FOR TUBE NBR High pressure hydraulic applications. Easy to route and to install in tight areas. (Nitrile) based.

REINFORCEMENT Two braids of high tensile steel wire.

COVER SBR based.

TEMPERATURE RANGE -40°C to +100°C constant and +121°C intermittent.

STANDARDS EN 857 2SC. ISO 11237 2SC R16. SAE 100R16.

COUPLINGS MegaCrimp®.

TYPE APPROVALS DNV, GL, LR and By.

CHARACTERISTICS/BENEFITS 70% of EN 857 2SC. Superior flex impulse performance. Lightweight.

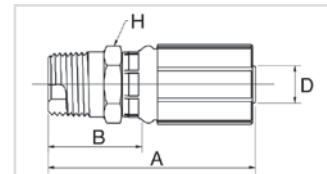
CM2T hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL CM2T-MTF: the complete range of CM2T is also available with the Gates special MegaTuff® cover which offers 300 times the abrasion resistance of the standard CM2T cover as per ISO 6945, superior ozone and weathering resistance. CM2T-MTF can also be used for in-oil (submersible) applications, please consult Gates Product Application Engineers for more info.

IMPORTANT Please consult Gates Product Application Engineers for use of MegaTuff hose in reverse bending applications or for constant bending at minimum bend radius.

SIZE	DN	"	"	mm	PSI	Bar	PSI	Bar	mm	kg/100m	REF.	NETT. PRICE	
												£ STERLING	€ EUROS
-4	6	1/4	0.55	14.1	5800	400	23200	1600	50	31	CM2T04		
-5	8	5/16	0.61	15.5	5000	350	20000	1400	55	35	CM2T05		
-6	10	3/8	0.7	17.7	4800	330	19200	1320	65	42	CM2T06		
-8	12	1/2	0.82	20.8	4000	275	16000	1100	90	51	CM2T08		
-10	16	5/8	0.97	24.6	3625	250	14500	1000	100	70	CM2T10		
-12	19	3/4	1.09	27.8	3100	215	12400	860	120	81	CM2T12		
-16	25	1	1.41	35.8	2400	165	9600	660	150	115	CM2T16		

BSP MBSPT

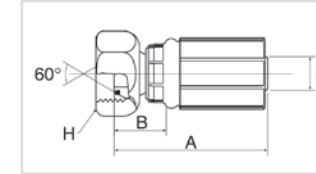


Male BSP taper.

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SIZE	DN	"		A	B	H	REF.	NETT. PRICE	
								£ STERLING	€ EUROS
-4	6	1/4	R 1/4" - 19 BSP	47.9	24.8	14	4G4MBSPT		
-4	6	1/4	R 3/8" - 19 BSP	49.1	26	19	4G6MBSPT		
-5	8	5/16	R 3/8" - 19 BSP	50	26.1	19	5G6MBSPT		
-6	10	3/8	R 3/8" - 19 BSP	49.5	26.1	19	6G6MBSPT		
-6	10	3/8	R 1/2" - 14 BSP	54.3	30.9	22	6G8MBSPT		
-8	12	1/2	R 3/8" - 19 BSP	59.5	27	22	8G6MBSPT		
-8	12	1/2	R 1/2" - 14 BSP	63.3	30.9	22	8G8MBSPT		
-10	16	5/8	R 5/8" - 14 BSP	69.9	32.4	25	10G10MBSPT		
-12	20	3/4	R 3/4" - 14 BSP	74.1	35.7	32	12G12MBSPT		
-16	25	1	R 1" - 11 BSP	87.5	41.6	36	16G16MBSPT		
-32	50	2	R 2" - 11 BSP	158	66	70	32GSP32MBSPT		

BSP FBSPORX

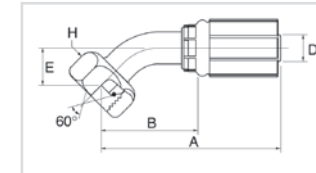


Female 1351:"O' ring swivel. 60° cone.

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SIZE	DN	"		A	B	H	REF.	NETT. PRICE	
								£ STERLING	€ EUROS
-4	6	1/4	G 1/8" - 28 BSP	41.1	18	14	4G2FBSPX (1)		
-4	6	1/4	G 1/4" - 19 BSP	43	17	19	4G4FBSPORX		
-4	6	1/4	G 3/8" - 19 BSP	44	18	22	4G6FBSPORX		
-5	8	5/16	G 3/8" - 19 BSP	46	18	22	5G6FBSPORX		
-5	8	5/16	G 1/2" - 14 BSP	46	18	27	5G8FBSPORX		
-6	10	3/8	G 3/8" - 19 BSP	44.1	16.2	22	6G6FBSPORX		
-6	10	3/8	G 1/2" - 14 BSP	45.8	17.9	27	6G8FBSPORX		
-8	12	1/2	G 3/8" - 19 BSP	59.2	21.7	22	8G6FBSPORX		
-8	12	1/2	G 1/2" - 14 BSP	55.5	17.8	27	8G8FBSPORX		
-8	12	1/2	G 5/8" - 14 BSP	57.2	19.7	30	8G10FBSPORX		
-8	12	1/2	G 3/4" - 14 BSP	59	21.5	32	8G12FBSPORX		
-10	16	5/8	G 5/8" - 14 BSP	56.6	19.1	30	10G10FBSPORX		
-10	16	5/8	G 3/4" - 14 BSP	59	21.5	32	10G12FBSPORX		
-12	20	3/4	G 3/4" - 14 BSP	71	20	32	12G12FBSPORX		
-12	20	3/4	G 1" - 11 BSP	73.6	22.6	41	12G16FBSPORX		
-16	25	1	G 3/4" - 14 BSP	82.7	25.9	32	16G12FBSPORX		
-16	25	1	G 1" - 11 BSP	83.8	27	41	16G16FBSPORX		
-20	32	1.1/4	G 1.1/4" - 11 BSP	88.5	29.5	50	20G20FBSPORX		
-24	40	1.1/2	G 1.1/2" - 11 BSP	125	51.3	55	24GSP24FBSPORX		
-32	50	2	G 2" - 11 BSP	152	60	70	32GSP32FBSPORX		

BSP FBSPORX45

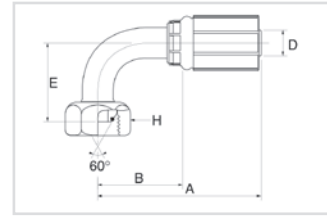


Female BSP 'O' ring swivel. 60° cone. 45° swept elbow. Drop dimensions meet ISO 12151-6.

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SIZE	DN	"		A	B	E	H	REF.	NETT. PRICE	
								£ STERLING	€ EUROS	
-4	6	1/4	G 1/4" - 19 B513	57.1	31.1	11.5	19	4G4FBSPORX45		
-4	6	1/4	G 3/8" - 19 B513	63.2	37.1	17.7	22	4G6FBSPORX45		
-5	8	5/16	G 3/8" - 19 B513	66.6	38.6	16.8	22	5G6FBSPORX45		
-6	10	3/8	G 3/8" - 19 B513	66.9	39	15.2	22	6G6FBSPORX45		
-6	10	3/8	G 1/2" - 14 B513	71	43	19.3	27	6G8FBSPORX45		
-8	12	1/2	G 1/2" - 14 B513	81.3	43.9	17	27	8G8FBSPORX45		
-8	12	1/2	G 5/8" - 14 B513	91	53.5	23	30	8G 10FB5 PORX45		
-10	16	5/8	G 5/8" - 14 B513	89.6	52.1	21.3	30	10G 10FB5 PORX45		
-10	16	5/8	G 3/4" - 14 B513	99.5	62	31.2	32	10G 12FBSPORX45		
-12	20	3/4	G 3/4" - 14 B513	115.4	64.4	28.3	32	12G12FBSPORX45		
-16	25	1	G 1" - 11 B513	135.6	78.8	30.9	41	16G 16FB5 PORX45		
-20	32	1.1/4	G 1.1/4" - 11 B513	139.6	93.4	37.5	50	20G20FBSPORX45		
-24	40	1.1/2	G 1.1/2" - 11 B513	214.5	140.8	49.7	55	24G51324FBSPORX45		
-32	50	2	G 2" - 11 B513	276.1	184.1	62.3	70	32G51332FBSPORX45		

BSP FBSPORX90

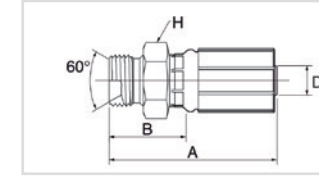


Female BSP 'O' ring swivel. 60° cone. 90° swept elbow.
Drop dimensions meet ISO 12151-6.

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D		A		B		E		H		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	52.5	26.5	23.3	19	4G4FBSPORX90					
-4	6	1/4	50.6	24.3	32	22	4G6FBSPORX90					
-5	8	5/16	58	30	32	22	5G6FBSPORX90					
-6	10	3/8	61.9	34	32	22	6G6FBSPORX90					
-6	10	3/8	60.1	32.2	37.5	27	6G8FBSPORX90					
-8	12	1/2	78	40.5	37.3	27	8G8FBSPORX90					
-8	12	1/2	81.5	44	46	30	8G10FBSPORX90					
-10	16	5/8	84.1	46.6	46	30	10G10FBSPORX90					
-10	16	5/8	84.1	46.6	60	32	10G12FBSPORX90					
-12	20	3/4	107	56	60	32	12G12FBSPORX90					
-12	20	3/4	112.2	61.2	70	41	12G16FBSPORX90					
-16	25	1	108.8	52	54.1	32	16G12FBSPORX90					
-16	25	1	131.1	74.3	70	41	16G16FBSPORX90					
-16	25	1	131.1	74.3	80	50	16G20FBSPORX90					
-20	32	1.1/4	129.1	82.8	80	50	20G20FBSPORX90					
-24	40	1.1/2	194.6	120.9	100	55	24G51324FBSPORX90					
-32	50	2	254.7	162.7	129.1	70	32G51332FBSPORX90					

BSP MBSP

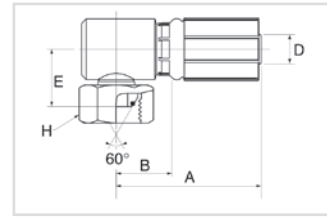


Male BSP parallel. 60° inverted cone.

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D		A		B		H		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	51.5	25.8	19	4G4MBSP				
-4	6	1/4	51.8	25.8	22	4G6MBSP				
-4	6	1/4	59.5	33.5	27	4G8MBSP				
-5	8	5/16	53.5	25.5	19	5G4MBSP				
-5	8	5/16	53.8	25.8	22	5G6MBSP				
-6	10	3/8	52	24.1	19	6G4MBSP				
-6	10	3/8	55	27.1	22	6G6MBSP				
-6	10	3/8	60	32.1	27	6G8MBSP				
-8	12	1/2	63.5	26	22	8G6MBSP				
-8	12	1/2	69	31.5	27	8G8MBSP				
-8	12	1/2	71	33.5	30	8G10MBSP				
-10	16	5/8	73.5	36	30	10G10MBSP				
-10	16	5/8	71.5	34	32	10G12MBSP				
-12	20	3/4	85	34	32	12G12MBSP				
-16	25	1	101	44.2	41	16G16MBSP				
-20	32	1.1/4	104.5	45.5	46	20G16MBSP				
-20	32	1.1/4	110	51	50	20G20MBSP				
-24	40	1.1/2	130	56.4	55	24GSP24MBSP				
-32	50	2	148.8	56.8	70	32GSP32MBSP				

BSP FBSPORX90BL

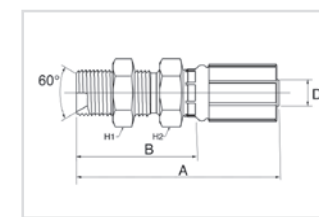


Female BSP 'O' ring swivel. 60° cone. 90° block elbow.

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D		A		B		E		H		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	44.2	18.2	18	19	4G4FBSPORX90BL					
-4	6	1/4	46	20	21.5	22	4G6FBSPORX90BL					
-6	10	3/8	47.9	20	21.5	22	6G6FBSPORX90BL					
-6	10	3/8	51.4	23.5	24	27	6G8FBSPORX90BL					
-8	12	1/2	55.9	23.5	24	27	8G8FBSPORX90BL					
-8	12	1/2	55.9	23.5	25.2	30	8G10FBSPORX90BL					
-10	16	5/8	62.4	24.9	27.6	30	10G10FBSPORX90BL					
-12	20	3/4	78	27	34.7	32	12G12FBSPORX90BL					
-16	25	1	86.2	29.4	37.8	32	16G12FBSPORX90BL					
-16	25	1	80.5	34.6	36.1	41	16G16FBSPORX90BL					

BSP MBSPPBKHD



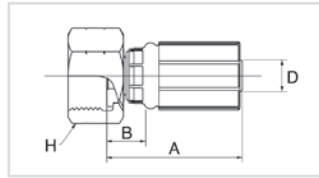
Male BSP parallel. 60° inverted cone (Bulkhead).

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D		A		B		H1		H2		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	68	42	19	19	4G4MBSPPBKHD					
-6	10	3/8	74	46.1	22	22	6G6MBSPPBKHD					
-8	12	1/2	88.5	51	27	27	8G8MBSPPBKHD					
-10	16	5/8	90.5	53	30	30	10G10MBSPPBKHD					
-12	20	3/4	104	53	32	32	12G12MBSPPBKHD					
-16	25	1	121.2	64.4	41	41	16G16MBSPPBKHD					

BSP FBFFX

Female BSP flat face swivel.

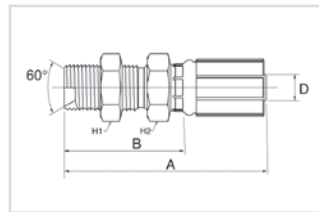


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D		A		B		H		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-5	8	5/16	45.5	17.5	27	5G8FBFFX				
-6	10	3/8	46	18.1	22	6G6FBFFX				
-6	10	3/8	45.5	17.6	27	6G8FBFFX				
-8	12	1/2	55.5	18	27	8G8FBFFX				
-8	12	1/2	56	18.5	30	8G10FBFFX				
-8	12	1/2	52.5	15	32	8G12FBFFX				
-10	16	5/8	52.5	15	32	10G12FBFFX				
-12	20	3/4	68.5	17.5	32	12G12FBFFX				

JIC 37° FJX

Female JIC swivel. 37° inverted cone.



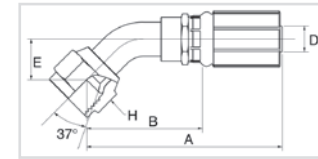
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D		A		B		H1		H2		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	69.7	43.7	10	14	4G4FJX455					
-4	6	1/4	65.8	39.7	11	17	4G5FJX45-011					
-4	6	1/4	77.8	51.8	11	19	4G6FJX455					
-5	8	5/16	68.3	40.3	11	17	5G5FJX45-011					
-5	8	5/16	72.4	44.4	11	19	5G6FJX455					
-6	10	3/8	72.7	44.8	10	14	6G4FJX455					
-6	10	3/8	77.5	49.6	11	19	6G6FJX455					
-6	10	3/8	89.1	61.6	15	24	6G8FJX455					
-8	12	1/2	86.9	49.5	15	24	8G8FJX455					
-8	12	1/2	96.8	59.4	16	27	8G10FJX455					
-10	16	5/8	96.4	59	16	27	10G10FJX455					
-10	16	5/8	116	78.5	21	32	10G12FJX455					
-12	20	3/4	116.3	65.3	19	27	12G10FJX455					
-12	20	3/4	129.2	78.2	21	32	12G12FJX455					
-12	20	3/4	133.1	82.1	24	41	12G16FJX455					
-16	25	1	144.3	87.5	24	41	16G16FJX455					
-20	32	1.1/4	169	110	35	50.8	20G20FJX45					
-24	40	1.1/2	233	159.5	50	60	24G51324FJX45-050					
-32	50	2	276	183.3	45	75	32G51332FJX45					

JIC 37° FJX45S

Female JIC swivel. 37° inverted cone.

45° swept elbow. Short drop (-4 to -16 drop dimensions meet ISO 12151-5).



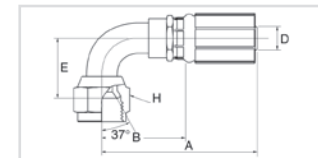
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D		A		B		E		H		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	70.	44.	10.0	14.0	4G4FJX455					
-4	6	1/4	66.	40.	11.0	17.0	4G5FJX45-011					
-4	6	1/4	78.	52.	11.0	19.0	4G6FJX455					
-5	8	5/16	68.	40.	11.0	17.0	5G5FJX45-011					
-5	8	5/16	72.	44.	11.0	19.0	5G6FJX455					
-6	10	3/8	73.	45.	10.0	14.0	6G4FJX455					
-6	10	3/8	78.	50.	11.0	19.0	6G6FJX455					
-6	10	3/8	89.	62.	15.0	24.0	6G8FJX455					
-8	12	1/2	87.	50.	15.0	24.0	8G8FJX455					
-8	12	1/2	97.	59.	16.0	27.0	8G10FJX455					
-10	16	5/8	96.	59.0	16.0	27.0	10G10FJX455					
-10	16	5/8	116.0	79.	21.0	32.0	10G12FJX455					
-12	20	3/4	116.	65.	19.0	27.0	12G10FJX455					
-12	20	3/4	129.	78.	21.0	32.0	12G12FJX455					
-12	20	3/4	133.	82.	24.0	41.0	12G16FJX455					
-16	25	1	144.	88.	24.0	41.0	16G16FJX455					
-20	32	1.1/4	169.0	110.0	35.0	51.	20G20FJX45					
-24	40	1.1/2	233.0	160.	50.0	60.0	24G51324FJX45-050					
-32	50	2	276.0	183.	45.0	75.0	32G51332FJX45					

JIC 37° FJX90S

Female JIC swivel. 37° inverted cone. 90° swept elbow.

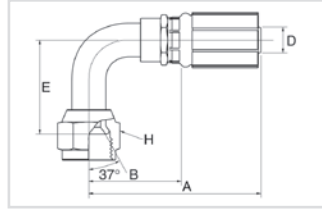
Short drop (-4 to -16 drop dimensions meet ISO 12151-5).



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D		A		B		E		H		REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	63.1	37.1	21	14	4G4FJX90S					
-4	6	1/4	62.2	36.2	23	17	4G5FJX90-023					
-4	6	1/4	70.5	44.4	23	19	4G6FJX90S					
-5	8	5/16	75.2	47.2	23	19	5G6FJX90S					
-6	10	3/8	66.1	38.2	21	14	6G4FJX90S					
-6	10	3/8	74.2	46.3	23	19	6G6FJX90S					
-6	10	3/8	82.6	54.7	29	24	6G8FJX90S					
-8	12	1/2	77.3	39.9	41	24	8G6FJX90S					
-8	12	1/2	81	43.5	29	24	8G8FJX90S					
-8	12	1/2	93.3	55.8	32	27	8G10FJ X90S					
-8	12	1/2	107.5	70	48	32	8G12FJ X90S					
-10	16	5/8	89	51.5	36	27	10G10FJX90-036					
-10	16	5/8	106.1	68.6	48	32	10G12FJ X90S					
-12	20	3/4	122.4	71.4	48	32	12G12FJ X90S					
-12	20	3/4	124	73	54	36	12G14FJX90-054					
-12	20	3/4	132.7	81.7	56	41	12G16FJ X90S					
-16	25	1	145.6	88.8	56	41	16G16FJX90S					
-16	25	1	167	110.2	75	50.8	16G20FJX90S					

JIC 37° FJX90M

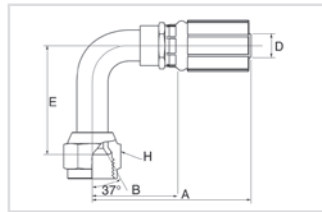


Female JIC swivel. 37° inverted cone. 90° swept elbow.
Medium drop (-4 to -20 drop dimensions meet ISO 12151-5).

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D				A	B	E	H	REF.	NETT. PRICE	
SIZE	DN	"		mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	7/16" - 20 UNF	63.	37.	32.0	14.0	4G4FJX90M		
-4	6	1/4	1/2" - 20 UNF	57.	31.	32.0	17.0	4G5FJX90M		
-4	6	1/4	9/16" - 18 UNF	65.	39.	38.0	19.0	4G6FJX90M		
-5	8	5/16	1/2" - 20 UNF	56.0	28.0	29.	16.	5G5FJX90M		
-5	8	5/16	9/16" - 18 UNF	76.0	48.0	38.0	19.0	5G6FJX90M		
-6	10	3/8	9/16" - 18 UNF	74.	46.	38.0	19.0	6G6FJX90M		
-6	10	3/8	3/4" - 16 UNF	84.	56.	41.0	24.0	6G8FJX90M		
-6	10	3/8	7/8" - 14 UNF	83.	55.	47.0	27.0	6G10FJX90M		
-8	12	1/2	3/4" - 16 UNF	77.	40.	41.0	24.0	8G8FJX90M		
-8	12	1/2	7/8" - 14 UNF	93.	56.	47.0	27.0	8G10FJX90M		
-10	16	5/8	7/8" - 14 UNF	93.	56.	47.0	27.0	10G10FJX90M		
-10	16	5/8	1.1/16" - 12 UN	102.	64.	58.0	32.0	10G12FJX90M		
-12	20	3/4	7/8" - 14 UNF	114.	63.	47.0	27.0	12G10FJX90M		
-12	20	3/4	1.1/16" - 12 UN	122.	71.	58.0	32.0	12G12FJX90M		
-16	25	1	1.5/16" - 12 UN	120.0	63.	67.	38.	16G16FJX90M		
-20	32	1.1/4	1.5/8" - 12 UN	138.0	79.0	89.	51.	20G20FJX90M		
-24	40	1.1/2	1.7/8" - 12 UN	212.0	138.	89.0	60.0	24G51324FJX90-089		
-32	50	2	2.1/2" - 12 UN	272.0	180.	140.0	75.0	32G51332FJX90		

JIC 37° FJX90L

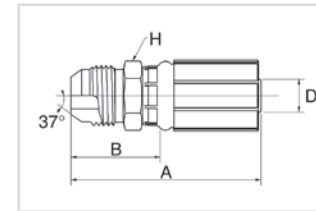


Female JIC swivel. 37° inverted cone. 90° swept elbow.
Long drop (-4 to -20 drop dimensions meet ISO 12151-5).

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D				A	B	E	H	REF.	NETT. PRICE	
SIZE	DN	"		mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	7/16" - 20 UNF	63.1	37.1	46	14	4G4FJX90L		
-4	6	1/4	1/2" - 20 UNF	57.2	31.2	46	17	4G5FJX90L		
-4	6	1/4	9/16" - 18 UNF	69.3	43.2	54	19	4G6FJX90L		
-6	10	3/8	7/16" - 20 UNF	60.2	32.3	46	14	6G4FJX90L		
-6	10	3/8	9/16" - 18 UNF	74.2	46.3	54	19	6G6FJX90L		
-6	10	3/8	3/4" - 16 UNF	84.5	56.6	64	24	6G8FJX90L		
-8	12	1/2	3/4" - 16 UNF	77.3	39.9	64	24	8G8FJX90L		
-8	12	1/2	7/8" - 14 UNF	93.3	55.8	70	27	8G10FJX90L		
-10	16	5/8	7/8" - 14 UNF	85.9	48.4	70	27	10G10FJX90L		
-10	16	5/8	1.1/16" - 12 UN	116.5	79	96	32	10G12FJX90L		
-12	20	3/4	1.1/16" - 12 UN	122.4	71.4	96	32	12G12FJX90L		
-12	20	3/4	1.3/16" - 12 UN	107.4	56.4	100	36	12G14FJX90-100		
-16	25	1	1.5/16" - 12 UN	114.9	58.1	110	38.1	16G16FJX90L		
-20	32	1.1/4	1.5/8" - 12 UN	158	99	129	50.8	20G20FJX90L		

JIC 37° MJ

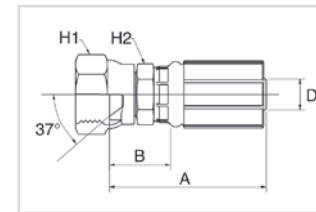


Male JIC parallel. 37° cone.

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TECH. DATA SHEET
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D				A	B	H	REF.	NETT. PRICE	
SIZE	DN	"		mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	7/16" - 20 UNF	55.5	29.5	14	4G4MJ		
-4	6	1/4	1/2" - 20 UNF	55.5	29.5	14	4G5MJ		
-4	6	1/4	9/16" - 18 UNF	56.5	30.5	17	4G6MJ		
-5	8	5/16	1/2" - 20 UNF	57.5	29.5	17	5G5MJ		
-5	8	5/16	9/16" - 18 UNF	57.5	29.5	17	5G6MJ		
-6	10	3/8	9/16" - 18 UNF	58.5	30.6	17	6G6MJ		
-6	10	3/8	3/4" - 16 UNF	63	35.1	19	6G8MJ		
-6	10	3/8	7/8" - 14 UNF	67	39.1	24	6G10MJ		
-8	12	1/2	3/4" - 16 UNF	71.5	34	22	8G8MJ		
-8	12	1/2	7/8" - 14 UNF	74	36.5	24	8G10MJ		
-8	12	1/2	1.1/16" - 12 UN	81	43.5	27	8G12MJ		
-10	16	5/8	3/4" - 16 UNF	74.5	37	24	10G8MJ		
-10	16	5/8	7/8" - 14 UNF	77	39.5	24	10G10MJ		
-10	16	5/8	1.1/16" - 12 UN	81	43.5	27	10G12MJ		
-12	20	3/4	1.1/16" - 12 UN	94.5	43.5	27	12G12MJ		
-12	20	3/4	1.3/16" - 12 UN	95.5	44.5	32	12G14MJ		
-12	20	3/4	1.5/16" - 12 UN	96	45	36	12G16MJ		
-16	25	1	1.5/16" - 12 UN	104.5	47.7	36	16G16MJ		
-16	25	1	1.5/8" - 12 UN	109	52.2	44.5	16G20MJ		
-20	32	1.1/4	1.5/8" - 12 UN	112.5	53.5	44.5	20G20MJ		
-24	40	1.1/2	1.7/8" - 12 UN	130	56.4	50	24GSP24MJ		
-32	50	2	2.1/2" - 12 UN	161.1	69.1	65	32GSP32MJ		

JIS FJISX

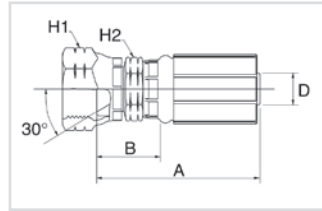


Female Japanese swivel. 30° inverted cone. BSP thread.

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D				A	B	H1	H2	REF.	NETT. PRICE	
SIZE	DN	"		mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	G 1/4" - 19 BSP	47.0	21.0	19.	19.	4G4FJISX		
-6	10	3/8	G 3/8" - 19 BSP	52.0	24.	22.0	17.0	6G6FJISX		
-8	12	1/2	G 1/2" - 14 BSP	68.	30.	27.0	22.0	8G8FJISX		
-12	20	3/4	G 3/4" - 14 BSP	81.	30.	36.0	30.0	12G12FJISX		
-16	25	1	G 1" - 11 BSP	94.0	37.	41.0	41.0	16G16FJISX		

JIS FKX

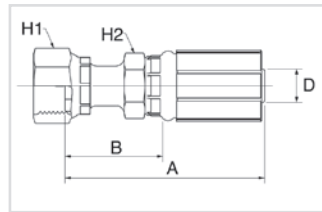


Female Japanese swivel. 30° inverted cone. Metric thread.

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TECH. DATA SHEET
XXX

D			A B H1 H2				REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	M14 x 1.5	46.5	20.5	19.1	14.3	4G4FKX	
-6	10	3/8	M18 x 1.5	52	24.1	22.2	17.5	6G6FKX	
-8	12	1/2	M22 x 1.5	61.5	24	27	22	8G8FKX	
-10	16	5/8	M24 x 1.5	63.5	26	32	24	10G10FKX	
-12	20	3/4	M30 x 1.5	82.3	31.3	36	30	12G12FKX	
-16	25	1	M33 x 1.5	92.5	35.7	41.3	34.9	16G16FKX	
-20	32	1.1/4	M36 x 1.5	105	46	50.8	44.5	20G20FKX	

SAE FFORX

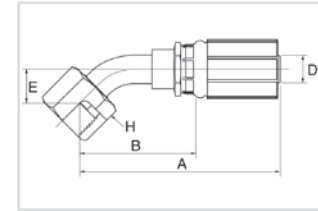


Female SAE flat face 'O' ring swivel.

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D			A B H1 H2				REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	9/16" - 18 UNF	52.7	26.7	17.0	15.0	4G4FFORX	
-4	6	1/4	11/16" - 16 UN	51.1	25.1	22.0	15.0	4G6FFORX	
-4	6	1/4	13/16" - 16 UN	50.5	24.5	24.0	15.0	4G8FFORX	
-5	8	5/16	11/16" - 16 UN	61.5	33.5	22.0	17.0	5G6FFORX	
-6	10	3/8	9/16" - 18 UNF	78.3	50.3	17.0	17.0	6G4FFORX	
-6	10	3/8	11/16" - 16 UN	58.	28.9	22.0	18.0	6G6FFORX	
-6	10	3/8	13/16" - 16 UN	57.	28.6	24.0	18.0	6G8FFORX	
-6	10	3/8	13/16" - 16 UN	55.	25.9	30.0	18.0	6G10FFORX	
-8	12	1/2	11/16" - 16 UN	95.9	58.4	22.0	22.0	8G6FFORX	
-8	12	1/2	13/16" - 16 UN	66.5	31.3	24.0	22.0	8G8FFORX	
-8	12	1/2	1" - 14 UNS	70.0	34.8	30.0	22.0	8G10FFORX	
-8	12	1/2	1.3/16" - 12 UN	71.5	36.3	36.0	22.0	8G12FFORX	
-10	12	5/8	13/16" - 16 UN	97.2	59.7	24.0	24.0	10G8FFORX	
-10	16	5/8	1" - 14 UNS	76.0	38.5	30.0	24.0	10G10FFORX	
-10	16	5/8	1.3/16" - 12 UN	77.0	39.5	36.0	24.0	10G12FFORX	
-12	20	3/4	1" - 14 UNS	95.	44.1	30.0	30.0	12G 10FFORX	
-12	20	3/4	1.3/16" - 12 UN	92.8	41.8	36.0	30.0	12G12FFORX	
-12	20	3/4	1.7/16" - 12 UN	88.3	37.3	41.0	30.0	12G16FFORX	
-16	25	1	1.7/16" - 12 UN	110.0	53.2	41.3	41.0	16G16FFORX	
-16	25	1	1.11/16" - 12 UN	104.5	47.7	47.6	41.0	16G20FFORX	
-20	32	1.1/4	1.11/16" - 12 UN	117.5	58.5	47.6	50.0	20G20FFORX	
-24	40	1.1/2	2" - 12 UN	137.0	63.4	60.0	55.0	24G5P24FFORX	

SAE FFORX45S

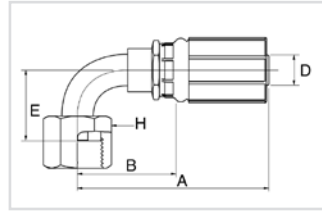


Female SAE flat face 'O' ring swivel. 45° swept elbow. Short drop (-4 to -20 drop dimensions meet ISO 12151-5).

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D			A B E H				REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	9/16" - 18 UNF	65.2	39.2	10	17	4G4FFORX45S	
-4	6	1/4	11/16" - 16 UN	68.5	42.5	11	22	4G6FFORX45S	
-5	8	5/16	11/16" - 16 UN	69.4	41.4	11	22	5G6FFORX45S	
-6	10	3/8	9/16" - 18 UNF	66.1	38.1	10	17	6G4FFORX45S	
-6	10	3/8	11/16" - 16 UN	69.8	41.9	11	22	6G6FFORX45S	
-6	10	3/8	13/16" - 16 UN	85.2	57.3	15	24	6G8FFORX45S	
-8	12	1/2	11/16" - 16 UN	90.7	53.2	11	22	8G6FFORX45S	
-8	12	1/2	13/16" - 16 UN	89	51.6	15	24	8G8FFORX45S	
-8	12	1/2	1" - 14 UNS	101	63.5	16	30	8G10FFORX45S	
-8	12	1/2	1.3/16" - 12 UN	110.3	72.8	21	36	8G12FFORX45S	
-10	16	5/8	13/16" - 16 UN	96.8	59.3	15	24	10G8FFORX45S	
-10	16	5/8	1" - 14 UNS	100.5	63	16	30	10G10FFORX45S	
-10	16	5/8	1.3/16" - 12 UN	105.9	68.4	21	36	10G12FFORX45S	
-12	20	3/4	1" - 14 UNS	113	62	16	30	12G10FFORX45S	
-12	20	3/4	1.3/16" - 12 UN	118.4	67.4	21	36	12G12FFORX45S	
-12	20	3/4	1.7/16" - 12 UN	122	71	24	41	12G16FFORX45S	
-16	25	1	1.3/16" - 12 UN	132.5	75.7	21	36	16G12FFORX45S	
-16	25	1	1.7/16" - 12 UN	146.9	90.1	24	41	16G16FFORX45S	
-20	32	1.1/4	1.11/16" - 12 UN	158	99	25	50	20G20FFORX45S	

SAE FFORX905

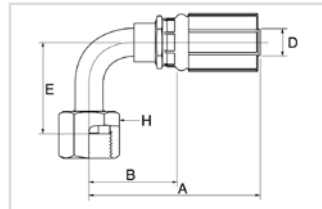


Female SAE flat face '0' ring swivel. 90° swept elbow.
Short drop (-4 to -20 drop dimensions meet ISO 12151-1).

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SIZE		D	DN	"	A	B	E	H	REF.	NETT. PRICE
					mm	mm	mm	mm	G	£ STERLING € EUROS
-4	6	1/4	9/16"	- 18 UNF	60.2	34.4	21	17	4G4FFORX905	
-4	6	1/4	11/16"	- 16 UN	63.4	37.4	23	22	4G6FFORX905	
-5	8	5/16	11/16"	- 16 UN	72	44	23	22	5G6FFORX905	
-6	10	3/8	9/16"	- 18 UNF	61.4	33.6	21	17	6G4FFORX905	
-6	10	3/8	11/16"	- 16 UN	72.5	44.6	23	22	6G6FFORX905	
-6	10	3/8	13/16"	- 16 UN	73	45.1	29	24	6G8FFORX905	
-8	12	1/2	11/16"	- 16 UN	83.5	46	23	22	8G6FFORX905	
-8	12	1/2	13/16"	- 16 UN	83.9	46.5	29	24	8G8FFORX905	
-8	12	1/2	1" - 14 UNS		92.9	55.4	32	30	8G1OFFORX905	
-8	12	1/2	1.3/16"	- 12 UN	102.9	65.4	48	36	8G12FFORX905	
-10	16	5/8	13/16"	- 16 UN	92.4	54.9	29	24	10G8FFORX905	
-10	16	5/8	1" - 14 UNS		92.5	55	32	30	10G1OFFORX905	
-10	16	5/8	1.3/16"	- 12 UN	96.3	58.8	48	36	10G12FFORX905	
-12	20	3/4	1" - 14 UNS		104	53	32	30	12G1OFFORX905	
-12	20	3/4	1.3/16"	- 12 UN	109	58	48	36	12G12FFORX905	
-12	20	3/4	1.7/16"	- 12 UN	128.5	77.5	56	41	12G16FFORX905	
-16	25	1	1.3/16"	- 12 UN	129.4	72.6	48	36	16G12FFORX905	
-16	25	1	1.7/16"	- 12 UN	129.9	73.1	56	41	16G16FFORX905	
-20	32	1.1/4	1.11/16"	- 12 UN	150	91	64	50	20G2OFFORX905	

SAL FFORX90M

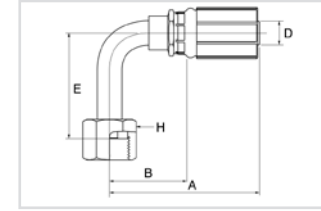


Female SAE flat face '0' ring swivel. 90° swept elbow.
Medium drop (-4 to -20 drop dimensions meet ISO 12151-1).

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SIZE		D	DN	"	A	B	E	H	REF.	NETT. PRICE
					mm	mm	mm	mm	G	£ STERLING € EUROS
-4	6	1/4	9/16"	- 18 UNF	56.2	30.2	32	17	4G4FFORX90M	
-4	6	1/4	11/16"	- 16 UN	63.4	37.4	38	22	4G6FFORX90M	
-6	10	3/8	11/16"	- 16 UN	63.6	35.7	38	22	6G6FFORX90M	
-6	10	3/8	13/16"	- 16 UN	68.5	40.6	41	24	6G8FFORX90M	
-8	12	1/2	13/16"	- 16 UN	83.9	46.5	41	24	8G8FFORX90M	
-8	12	1/2	1" - 14 UNS		93.2	55.7	47	30	8G1OFFORX90M	
-10	16	5/8	1" - 14 UNS		92.8	55.3	47	30	10G1OFFORX90M	
-12	20	3/4	1.3/16"	- 12 UN	109	58	58	36	12G12FFORX90M	
-16	25	1	1.7/16"	- 12 UN	129.9	73.1	71	41	16G16FFORX90M	
-16	25	1	1.11/16"	- 12 UN	156	99.2	78	50	16G2OFFORX90M	
-20	32	1.1/4	1.11/16"	- 12 UN	140	81	78	50	20G2OFFORX90M	

SAE FFORX90L

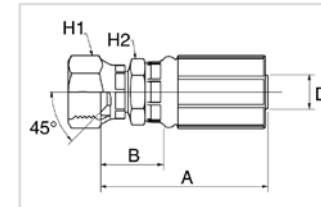


Female SAE flat face '0' ring swivel. 90° swept elbow.
Long drop (-4 to -20 drop dimensions meet ISO 12151-1).

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SIZE		D	DN	"	A	B	E	H	REF.	NETT. PRICE
					mm	mm	mm	mm	G	£ STERLING € EUROS
-4	6	1/4	9/16"	- 18 UNF	56.2	30.2	46	17	4G4FFORX90L	
-4	6	1/4	11/16"	- 16 UN	61.6	35.6	54	22	4G6FFORX90L	
-4	6	1/4	13/16"	- 16 UN	67.1	41.1	64	24	4G8FFORX90L	
-6	10	3/8	11/16"	- 16 UN	69.3	41.4	54	22	6G6FFORX90L	
-6	10	3/8	13/16"	- 16 UN	69	41.1	64	24	6G8FFORX90L	
-8	12	1/2	13/16"	- 16 UN	83.9	46.5	64	24	8G8FFORX90L	
-8	12	1/2	1" - 14 UNS		90.6	53.1	70	30	8G1OFFORX90L	
-10	16	5/8	13/16"	- 16 UN	92.4	54.9	64	24	10G8FFORX90L	
-10	16	5/8	1" - 14 UNS		90.2	52.7	70	30	10G1OFFORX90L	
-12	20	3/4	1.3/16"	- 12 UN	118.2	67.2	96	36	12G12FFORX90L	
-16	25	1	1.7/16"	- 12 UN	129.9	73.1	114	41	16G16FFORX90L	
-20	32	1.1/4	1.11/16"	- 12 UN	140	81	129	50	20G2OFFORX90L	

SAE 45° FSX

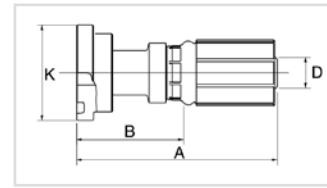


Female SAE swivel. 45° inverted cone.

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SIZE		D	DN	"	A	B	H1	H2	REF.	NETT. PRICE
					mm	mm	mm	mm	G	£ STERLING € EUROS
-4	6	1/4	7/16"	- 20 UNF	48	22	14.3	12.7	4G4FSX	
-4	6	1/4	1/2"	- 20 UNF	46.5	20.5	17.5	12.7	4G5FSX	
-4	6	1/4	5/8"	- 18 UNF	48.5	22.5	19.1	15.9	4G6FSX	
-5	8	5/16	5/8"	- 18 UNF	52	24	19.1	15.9	5G6FSX	
-6	10	3/8	5/8"	- 18 UNF	52	24.1	19.1	15.9	6G6FSX	
-6	10	3/8	3/4"	- 16 UNF	51.5	23.5	22.2	17.5	6G8FSX	
-8	12	1/2	3/4"	- 16 UNF	60	22.5	22.2	20.6	8G8FSX	
-8	12	1/2	7/8"	- 14 UNF	63	25.5	27	20.6	8G10FSX	
-12	20	3/4	1.1/16"	- 14 UNS	78.5	27.5	31.8	27	12G12FSX	

SAE FL

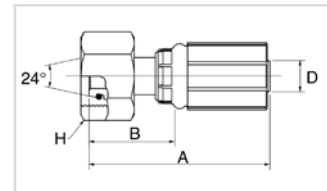


SAE '0' ring flange. Code 61.

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D		A		B		K		KIT		REF.		NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	G	G	€ STERLING	€ EUROS	
-8	12	1/2	1/2"	80	42.5	30.2	8 PA-FL	8G8FL					
-8	12	1/2	3/4"	80	42.5	38.1	12 PA-FL	8G12FL					
-10	16	5/8	3/4"	98	60.5	38.1	12 PA-FL	10G12FL					
-12	20	3/4	3/4"	98	47	38.1	12 PA-FL	12G12FL					
-12	20	3/4	1"	88.8	37.8	44.5	16 PA-FL	12G16FL					
-16	25	1	3/4"	128	71.2	38.1	12 PA-FL	16G12FL					
-16	25	1	1"	105	48.2	44.5	16 PA-FL	16G16FL					
-16	25	1	1.1/4"	105	48.2	50.8	20 PA-FL	16G20FL					
-16	25	1	1.1/2"	96	39.2	60.3	24 PA-FL	16G24FL					
-20	32	1.1/4	1.1/4"	112.5	53.5	50.8	20 PA-FL	20G20FL					
-20	32	1.1/4	1.1/2"	117.5	58.5	60.3	24 PA-FL	20G24FL					
-24	40	1.1/2	1.1/2"	152.9	79.3	60.3	24 PA-FL	24GSP24FL					
-24	40	1.1/2	2"	152.9	79.3	71.4	32 PA-FL	24GSP32FL					
-32	50	2	2"	159.3	67.3	71.4	32 PA-FL	32GSP32FL					

DIN 24° FDLORX

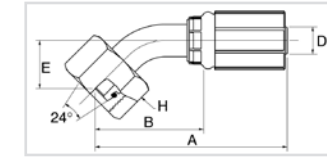


Female DIN 'CY' ring swivel. 24° cone. Light series.

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D		A		B		H		REF.		NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	G	G	€ STERLING	€ EUROS
-4	6	1/4	M12 x 1.5	51.8	28.8	14	4G6FDLORX				
-4	6	1/4	M14 x 1.5	55.7	29.7	17	4G8FDLORX				
-4	6	1/4	M16 x 1.5	55.3	29.3	19	4G10FDLORX				
-4	6	1/4	M18 x 1.5	55.7	29.7	22	4G12FDLORX				
-5	8	5/16	M14 x 1.5	52	28.4	17	5G8FDLORX				
-5	8	5/16	M16 x 1.5	53.9	29.7	19	5G10FDLORX				
-5	8	5/16	M18 x 1.5	58.5	30	22	5G12FDLORX				
-6	10	3/8	M16 x 1.5	57.1	29.2	19	6G10FDLORX				
-6	10	3/8	M18 x 1.5	57.8	29.9	22	6G12FDLORX				
-6	10	3/8	M20 x 1.5	60.4	32.5	24	6G14FDLORX				
-6	10	3/8	M22 x 1.5	56.7	28.8	27	6G15FDLORX				
-8	12	1/2	M18 x 1.5	70.2	32.7	22	8G12FDLORX				
-8	12	1/2	M22 x 1.5	67	29.5	27	8G15FDLORX				
-8	12	1/2	M26 x 1.5	67.9	30.4	32	8G18FDLORX				
-10	16	5/8	M26 x 1.5	67.8	30.3	32	10G18FDLORX				
-12	20	3/4	M26 x 1.5	83.8	32.8	32	12G18FDLORX				
-12	20	3/4	M30 x 2.0	85.8	34.8	36	12G22FDLORX				
-16	25	1	M36 x 2.0	81.6	36.7	41	16G28FDLORX				
-20	32	1.1/4	M45 x 2.0	90.4	44.1	50	20G35FDLORX				
-24	40	1.1/2	M52 x 2.0	135.7	62	60	24GSP42FDLORX				

DIN 24° FDLORX45

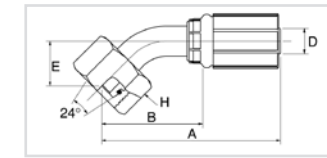


Female DIN '0' ring swivel. 24° cone. Light series. 45° swept elbow. Drop dimensions meet ISO 12151-2.

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D		A		B		E		H		REF.		NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	G	€ STERLING	€ EUROS
-4	6	1/4	M12 x 1.5	65.5	39.5	16.9	14	4G6FDLORX45					
-4	6	1/4	M14 x 1.5	62.6	36.5	16.2	19	4G8FDLORX45					
-4	6	1/4	M16 x 1.5	64.4	38.3	17.9	19	4G10FDLORX45					
-4	6	1/4	M18 x 1.5	66.7	40.7	18.3	22	4G12FDLORX45					
-5	8	5/16	M14 x 1.5	67.1	39.1	16.9	17	5G8FDLORX45					
-5	8	5/16	M16 x 1.5	63.4	39.3	17.1	19	5G10FDLORX45					
-5	8	5/16	M18 x 1.5	67.7	39.7	18.9	22	5G12FDLORX45					
-6	10	3/8	M16 x 1.5	68.5	40.5	18.6	19	6G10FDLORX45					
-6	10	3/8	M18 x 1.5	68.8	40.9	18.9	22	6G12FDLORX45					
-6	10	3/8	M22 x 1.5	72.3	44.4	22.5	27	6G15FDLORX45					
-8	12	1/2	M18 x 1.5	92.9	55.4	29.7	22	8G12FDLORX45					
-8	12	1/2	M22 x 1.5	84.6	47.1	20.2	27	8G15FDLORX45					
-8	12	1/2	M26 x 1.5	94.9	57.2	26.9	32	8G18FDLORX45					
-10	16	5/8	M26 x 1.5	93.5	56	24.8	32	10G18FDLORX45					
-12	20	3/4	M30 x 2.0	104.6	66.1	29.8	36	12G22FDLORX45					
-16	25	1	M36 x 2.0	135.4	78.8	30.9	41	16G28FDLORX45					
-20	32	1.1/4	M45 x 2.0	152.4	93.4	37.5	50	20G35FDLORX45					
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44	60	24G51342FDLORX45					

DIN 24° FDLORX90



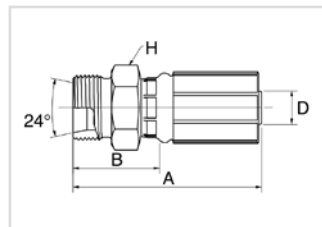
Female DIN '0' ring swivel. 24° cone. Light series. 90° swept elbow. Drop dimensions meet ISO 12151-2.

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D		A		B		E		H		REF.		NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	mm	mm	mm	G	G	€ STERLING	€ EUROS
-4	6	1/4	M12 x 1.5	58.	32.	35.0	14.0	4G6FDLORX90					
-4	6	1/4	M14 x 1.5	58.	32.	35.0	17.0	4G8FDLORX90					
-4	6	1/4	M16 x 1.5	58.	32.	37.	19.0	4G10FDLORX90					
-4	6	1/4	M18 x 1.5	60.	34.	37.0	22.0	4G12FDLORX90					
-5	8	5/16	M14 x 1.5	61.	33.	35.0	17.0	5G8FDLORX90					
-5	8	5/16	M16 x 1.5	63.	34.	37.	19.0	5G10FDLORX90					
-5	8	5/16	M18 x 1.5	59.0	31.0	37.0	22.0	5G12FDLORX90					
-6	10	3/8	M16 x 1.5	60.	32.	37.	19.0	6G10FDLORX90					
-6	10	3/8	M18 x 1.5	60.	32.	37.0	22.0	6G12FDLORX90					
-6	10	3/8	M22 x 1.5	60.	32.	42.0	27.0	6G15FDLORX90					
-8	12	1/2	M18 x 1.5	74.	37.	53.	22.0	8G12FDLORX90					
-8	12	1/2	M22 x 1.5	78.	40.	42.0	27.0	8G15FDLORX90					
-8	12	1/2	M26 x 1.5	82.	44.0	52.	32.0	8G18FDLORX90					
-10	16	5/8	M26 x 1.5	85.	48.	52.	32.0	10G18FDLORX90					
-12	20	3/4	M26 x 1.5	100.	49.	52.	32.0	12G18FDLORX90					
-12	20	3/4	M30 x 2.0	107.	56.	62.0	36.0	12G22FDLORX90					
-16	25	1	M36 x 2.0	131.	74.	70.0	41.0	16G28FDLORX90					
-20	32	1.1/4	M45 x 2.0	142.	83.	80.0	50.0	20G35FDLORX90					
-24	40	1.1/2	M52 x 2.0	195.	121.0	92.0	60.0	24GSP42FDLORX90					

DIN 24° MDL

Male DIN parallel. 24° inverted cone. Light series. 24°

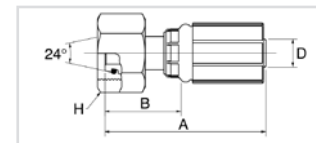


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SIZE	D		A	B	H	REF.	NETT. PRICE	
	DN	"					£ STERLING	€ EUROS
-4	6	1/4	M12 x 1.5	45.8	19.8	14	4G6MDL	
-4	6	1/4	M14 x 1.5	46.8	20.8	17	4G8MDL	
-4	6	1/4	M16 x 1.5	47.8	21.8	17	4G10MDL	
-4	6	1/4	M18 x 1.5	50	24	19	4G12MDL	
-5	8	5/16	M14 x 1.5	48.8	20.8	17	5G8MDL	
-5	8	5/16	M16 x 1.5	49.8	21.8	17	5G10MDL	
-5	8	5/16	M18 x 1.5	50.8	22.8	19	5G12MDL	
-6	10	3/8	M16 x 1.5	49.8	21.9	17	6G10MDL	
-6	10	3/8	M18 x 1.5	50.8	22.9	19	6G12MDL	
-6	10	3/8	M22 x 1.5	51.8	23.9	24	6G15MDL	
-8	12	1/2	M18 x 1.5	60.6	23.1	22	8G12MDL	
-8	12	1/2	M22 x 1.5	61.5	24	24	8G15MDL	
-8	12	1/2	M26 x 1.5	63	25.5	27	8G18MDL	
-10	16	5/8	M26 x 1.5	62.5	25	27	10G18MDL	
-12	20	3/4	M26 x 1.5	75.9	24.9	27	12G18MDL	
-12	20	3/4	M30 x 2.0	78	27	32	12G22MDL	
-16	25	1	M36 x 2.0	87.2	30.4	41	16G28MDL	
-20	32	1.1/4	M45 x 2.0	94.1	35.1	46	20G35MDL	
-24	40	1.1/2	M52 x 2.0	120	46.4	55	24G51342MDL	

DIN 24° FDHORX

Female DIN 'CY ring swivel. 24° cone. Heavy series.

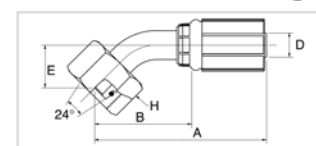


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SIZE	D		A	B	H	REF.	NETT. PRICE	
	DN	"					£ STERLING	€ EUROS
-4	6	1/4	M14 x 1.5	51.8	25.8	17	4G6FDHORX	
-4	6	1/4	M16 x 1.5	54.4	28.4	19	4G8FDHORX	
-4	6	1/4	M18 x 1.5	55.3	29.3	22	4G10FDHORX	
-4	6	1/4	M20 x 1.5	55.7	29.7	24	4G12FDHORX	
-5	8	5/16	M18 x 1.5	58	29.9	22	5G10FDHORX	
-5	8	5/16	M20 x 1.5	58	30	24	5G12FDHORX	
-5	8	5/16	M22 x 1.5	58	30	27	5G14FDHORX	
-6	10	3/8	M18 x 1.5	57.1	29.2	22	6G10FDHORX	
-6	10	3/8	M20 x 1.5	57.8	29.9	24	6G12FDHORX	
-6	10	3/8	M22 x 1.5	60.4	32.5	27	6G14FDHORX	
-8	12	1/2	M20 x 1.5	70.2	32.7	24	8G12FDHORX	
-8	12	1/2	M22 x 1.5	70	32.5	27	8G14FDHORX	
-8	12	1/2	M24 x 1.5	71.1	33.6	30	8G16FDHORX	
-8	12	1/2	M30 x 2.0	75.5	38	36	8G20FDHORX	
-10	16	5/8	M24 x 1.5	71.9	34.4	30	10G16FDHORX	
-10	16	5/8	M30 x 2.0	75.7	38.2	36	10G20FDHORX	
-12	20	3/4	M30 x 2.0	91.7	40.7	36	12G20FDHORX	
-12	20	3/4	M36 x 2.0	96.1	45.1	46	12G25FDHORX	
-16	25	1	M36 x 2.0	102.5	45.7	46	16G25FDHORX	
-16	25	1	M42 x 2.0	106	49.2	50	16G30FDHORX	
-20	32	1.1/4	M52 x 2.0	116.8	57.8	60	20G38FDHORX	
-24	40	1.1/2	M52 x 2.0	150	76.3	60	24GSP38FDHORX	

DIN 24° FDHORX45

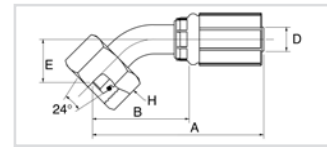
Female DIN 'O' ring swivel. 24° cone. Heavy series.
45° swept elbow. Drop dimensions meet ISO 12151-2.



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SIZE	D		A	B	E	H	REF.	NETT. PRICE	
	DN	"						£ STERLING	€ EUROS
-4	6	1/4	M16 x 1.5	62.6	36.5	16.2	19	4G8FDHORX45	
-4	6	1/4	M18 x 1.5	64.4	38.3	17.9	22	4G10FDHORX45	
-4	6	1/4	M20 x 1.5	66.7	40.7	18.3	24	4G12FDHORX45	
-5	8	5/16	M18 x 1.5	67.3	39.3	17.1	22	5G10FDHORX45	
-5	8	5/16	M20 x 1.5	67.7	39.7	18.9	24	5G12FDHORX45	
-6	10	3/8	M18 x 1.5	68.5	40.5	18.6	22	6G10FDHORX45	
-6	10	3/8	M20 x 1.5	68.8	40.9	18.9	24	6G12FDHORX45	
-6	10	3/8	M22 x 1.5	70.9	43	21	27	6G14FDHORX45	
-8	12	1/2	M22 x 1.5	91.5	54	27.1	27	8G14FDHORX45	
-8	12	1/2	M24 x 1.5	86	48.5	21.6	30	8G16FDHORX45	
-10	16	5/8	M30 x 2.0	93.1	55.7	24.9	36	10G20FDHORX45	
-12	20	3/4	M30 x 2.0	109.4	58.4	24.9	36	12G20FDHORX45	
-12	20	3/4	M36 x 2.0	118.6	67.6	31.2	46	12G25FDHORX45	
-16	25	1	M36 x 2.0	146.5	89.7	35.1	46	16G25FDHORX45	
-16	25	1	M42 x 2.0	139.8	83	35.1	50	16G30FDHORX45	
-20	32	1.1/4	M52 x 2.0	166.9	107.9	42.5	60	20G38FDHORX45	
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44	60	24GSP38FDHORX45	

DIN 24° FDHORX90

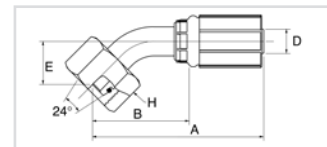


Female DIN 'O' ring swivel. 24° cone. Heavy series. 90° swept elbow. Drop dimensions meet ISO 12151-2.

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D			A	B	E	H	REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	M14 x 1.5	57.6	31.5	35	17	4G6FDHORX90	
-4	6	1/4	M16 x 1.5	57.5	31.5	35	19	4G8FDHORX90	
-4	6	1/4	M18 x 1.5	57.6	31.5	36.5	22	4G10FDHORX90	
-4	6	1/4	M20 x 1.5	59.6	33.5	37	24	4G12FDHORX90	
-5	8	5/16	M18 x 1.5	62.5	34.4	36.5	22	5G10FDHORX90	
-5	8	5/16	M20 x 1.5	59	31	37	24	5G12FDHORX90	
-5	8	5/16	M22 x 1.5	59	31	40	27	5G14FDHORX90	
-6	10	3/8	M18 x 1.5	60.1	32.2	36.5	22	6G10FDHORX90	
-6	10	3/8	M20 x 1.5	60.1	32.2	37	24	6G12FDHORX90	
-6	10	3/8	M22 x 1.5	60.1	32.2	40	27	6G14FDHORX90	
-8	12	1/2	M24 x 1.5	77.9	40.4	44	30	8G16FDHORX90	
-10	16	5/8	M30 x 2.0	84.1	46.6	51	36	10G20FDHORX90	
-10	16	5/8	M36 x 2.0	84.1	46.6	64	46	10G25FDHORX90	
-12	20	3/4	M30 X 2.0	100.3	49.3	51	36	12G20FDHORX90	
-12	20	3/4	M36 x 2.0	107.3	56.3	64	46	12G25FDHORX90	
-16	25	1	M36 x 2.0	137.8	81	76	46	16G25FDHORX90	
-16	25	1	M42 x 2.0	131.1	74.3	76	50	16G30FDHORX90	
-20	32	1.1/4	M52 x 2.0	151.4	92.4	87	60	20G38FDHORX90	
-24	40	1.1/2	M52 x 2.0	194.6	121	92	60	24GSP38FDHORX90	

DIN 24°

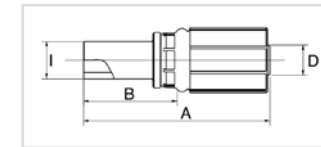


Male DIN parallel. 24° inverted cone. Heavy series. 24°

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D			A	B	H	REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	M16 x 1.5	53	27	17	4G8MDH	
-4	6	1/4	M18 x 1.5	52.5	26.5	19	4G10MDH	
-5	8	5/16	M18 x 1.5	53.8	25.8	19	5G10MDH	
-5	8	5/16	M20 x 1.5	55.8	27.8	22	5G12MDH	
-6	10	3/8	M18 x 1.5	55	27.1	19	6G10MDH	
-6	10	3/8	M20 x 1.5	57.5	29.6	24	6G12MDH	
-6	10	3/8	M22 x 1.5	59.5	31.6	24	6G14MDH	
-8	12	1/2	M20 x 1.5	66.5	29	24	8G12MDH	
-8	12	1/2	M24 x 1.5	69	31.5	27	8G16MDH	
-10	16	5/8	M30 x 2.0	73.5	36	32	10G20MDH	
-12	20	3/4	M30 x 2.0	84.9	33.9	32	12G20MDH	
-12	20	3/4	M36 x 2.0	92	41	41	12G25MDH	
-16	25	1	M36 x 2.0	97.2	40.4	41	16G25MDH	
-16	25	1	M42 x 2.0	99.2	42.4	46	16G30MDH	
-20	32	1.1/4	M52 X 2.0	108.1	49.1	55	20G38MDH	

METRIC MSP

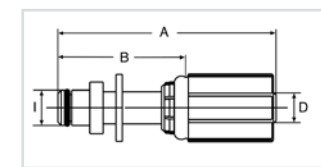


Metric standpipe.

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D			A	B	H	REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	L6	62.5	36.5	4G6MSP		
-4	6	1/4	L8	62.5	36.5	4G8MSP		
-4	6	1/4	L10	64.5	38.5	4G10MSP		
-5	8	5/16	L8	64.5	36.5	5G8MSP		
-5	8	5/16	L10	66.5	38.5	5G10MSP		
-5	8	5/16	L12	66.5	38.5	5G12MSP		
-6	10	3/8	L10	66.5	38.6	6G10MSP		
-6	10	3/8	L12	66.5	38.6	6G12MSP		
-8	12	1/2	L15	76.3	38.8	8G15MSP		
-10	16	5/8	L18	77.2	39.7	10G18MSP		
-12	20	3/4	L22	93.2	42.2	12G22MSP		

POWERWASH PWSP



Male PowerWash standpipe with 'O' ring.

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D			A	B	H	REF.	NETT. PRICE	
SIZE	DN	"	mm	mm	mm	G	£ STERLING	€ EUROS
-4	6	1/4	59.6	36.5	9.9	4G1 OPWSP		
-5	8	5/16	64.5	36.5	9.9	5G1 OPWSP		
-5	8	5/16	67.5	39.5	10.9	5G11PWSP		
-6	10	3/8	64.5	36.6	9.9	6G1 OPWSP		
-6	10	3/8	67.5	39.6	10.9	6G11PWSP		

CRIMPING MACHINES: OVERVIEW

MC 1001

Lightweight, portable crimper designed for reliability in field service. Comes with separate box, designed to contain complete set of dies. The pneumatic version has a foot-operated air pump. Crimps no-skive MegaCrimp® couplings for wire-braid hose up to 1".



Ref: 7480-19164: manual machine



Ref: 7480-19165: air operated machine

MC X 20

Powerful, lightweight, portable hand-operated crimper, ideal for field service operations. Comes with separate box, designed to contain complete set of dies. Crimps no-skive GlobalSpiral™ couplings up to 1" and no-skive MegaCrimp® couplings for wire-braid hose up to 1.1/4".



Ref: 7480-19181

MCX 25

Compact crimper for low-volume production. Ideal as starter machine or for small workshops. Crimps no-skive GlobalSpiral™ couplings up to 1" and no-skive MegaCrimp® couplings for wire-braid hose up to 1.1/4". Equipped with a die set storage rack allowing for logically organised die storage within easy reach of the operator, thus speeding up die selection and assembly. Also available for mobile service with DC power pack.



Ref: 7480-19184: 3 phase / 7480-19183: 1 phase / 7480-19182: 12V

MCX 30

Compact, operator-friendly machine to crimp the complete Gates range up to 1.1/4". Equipped with a die set storage rack allowing for logically organised die storage within easy reach of the operator, thus speeding up die selection and assembly. Also available for mobile service with DC power pack.



Ref: 7480-19187: 3 phase / 7480-19186: 1 phase / 7480-19185: 12V

MCX 50

Full-range crimper (up to 2" six spiral wire hose) for the professional workshop. Optional foot pedal to enable hands-free operation. Equipped with a die set storage rack allowing for logically organised die storage within easy reach of the operator, thus speeding up die selection and assembly.



Ref: 7480-19188: 3 phase

CUTTING MACHINES: OVERVIEW

MKX 25

Compact cutting machine, perfectly suitable for the small workshop. Cuts up to 1.1/4" four spiral wire hose.



Ref: 7480-19190: 1 phase / 7480-19189: 12V

MKX 30

Robust cutter for all types of workshops. Cuts up to 1.1/4" six spiral wire hose.



Ref: 7480-19191: 3 phase

MKX 50

A heavy-duty pneumatic hose cutter allowing quick and reliable production across all hose size ranges. Cuts up to 2" six spiral wire hose. For workshop professionals who want to further enhance their set-up and improve the ease-of-use, we have a complete kit available including also a machine table and air compressor.



Ref: 7480-19192: 3 phase / 7480-19197: 3 phase with compressor kit

TOOLS

MARKING MACHINE

This hand-operated marking machine is a precise, compact service-free bench unit for Gates ferrules, one-piece and two-piece fittings. The MSX 50 is equipped with a hand wheel to adjust the character setting to the ferrule for the requested marking depth. The slot in the character holder allows for easy character placement. Please contact Gates for order info on the required characters.



Ref: 7480-19193

MEGACRIMP® VERNIER CALIPER

A handy tool which measures finished outside diameters. Special design for easy measuring of the finished diameters on -4, -5 and -6 MegaCrimp®. Comes in a solid case.



Ref: 7369-0322

MEGACRIMP® INSERTION TOOL

The MegaCrimp® coupling insertion tool offers an easy way to confirm the right insertion depth for all Gates wire-braid hydraulic hoses. It also verifies the squareness of cut!



Ref: 7482-1342



HIGH PRESSURE 6000 PST HYDRAULIC HOSE EFG6K

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RECOMMENDED FOR TUBE NBR
Extremely high pressure and high impulse applications such as hydrostatic transmissions. (Nitrile) based.

REINFORCEMENT COVER
Four (six for -20, -24) alternating layers of spiralled, high tensile steel wire. (Chloroprene) based. MSHA approved.

TEMPERATURE RANGE
-40°C to +121°C

STANDARDS
SAE 100R15. ISO 3862 R15. Meets or exceeds performance requirements of EN 856 4SP (-8) and EN 856 4SH (-12, -16).

COUPLINGS
-6 to -20: GlobalSpiral™; -24: GlobalSpiral™ High.

TYPE APPROVALS
DNV, GL, LR, BV, ABS and MOD.

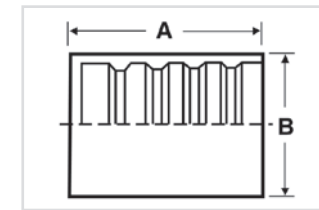
CHARACTERISTICS/BENEFITS
Extremely flexible.
Superior flex impulse performance: tested to 1,000,000 impulse cycles at 50% of SAE 100R15 bend radii. 40% of EN 856 4SP/4SH bend radius at rated working pressure.
EFG6K hose is compatible with biodegradable hydraulic fluids like synthetic esters, polyglycols and vegetable oils as well as petroleum-based fluids.

OPTIONAL
EFG6K-MTF: the complete range of EFG6K is also available with the Gates special MegaTuff™ cover which offers 300 times the abrasion resistance of the standard EFG6K cover as per ISO 6945, superior ozone and weathering resistance.

IMPORTANT
Please consult Gates Product Application Engineers for use of MegaTuff™ hose in reverse bending applications or for constant bending at minimum bend radius.

SIZE	DN	"	"	mm	PSI	MPa	PSI	MPa	mm	kg/100m	REF.	NETT. PRICE	
												£ STERLING	€ EUROS
-6	10	3/8	0.80	20.	6000	42.0	24000	168.0	65	71	6EFG6K		
-8	12	1/2	0.95	24.0	6000	42.0	24000	168.0	90	89	8EFG6K		
-10	16	5/8	1.	28.	6000	42.0	24000	168.0	100	115	10EFG6K		
-12	19	3/4	1.	31.	6000	42.0	24000	168.0	120	144	12EFG6K		
-16	25	1	2.	39.	6000	42.0	24000	168.0	150	223	16EFG6K		
-20	31	1.1/4	2.	50.0	6000	42.0	24000	168.0	210	399	20EFG6K		
-24	38	1.1/2	2.	57.	6000	42.0	24000	168.0	250	482	24EFG6K		

NO-SKIVE FERRULES



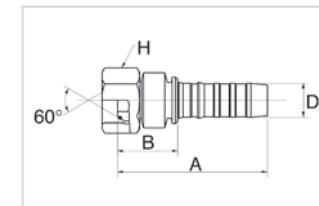
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SIZE	D		A mm	B mm	REF. G	NETT. PRICE	
	DN	"				£ STERLING	€ EUROS
-6	10	3/8	36.	32.	6GS 1 F-4		
-8	12	1/2	37.	34.	8GS1F-4		
-10	16	5/8	48.	42.	10GS1F-4		
-12	20	3/4	50,0	46.	12GS1F-4		
-16	25	1	56.	53.	16GS1F-4		
-20	32	1.1/4	68.	62.	20GS1F-4		
-20	32	1.1/4	73.	68.	20GS1F-6		
-24	40	1.1/2	76,5	72,0	24GSP1F-4		
-32	50	2	91,0	85,0	32GSP1F-4		

THIS IS NEEDED EVERYTIME A HOSE END IS FITTED

BSP FBSPORX

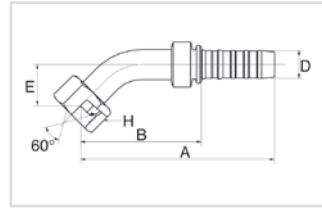
Female BSP'0' ring swivel. 60° cone.



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SIZE	D		REF. G	A mm	B mm	H mm	NETT. PRICE	
	DN	"					£ STERLING	€ EUROS
-6	10	3/8	G 3/8" -19 BSP	60.5	24.7	22	6GS6FBSPORX	
-6	10	3/8	G 1/2" -14 BSP	60.2	24.4	27	6GS8FBSPORX	
-8	12	1/2	G 1/2" -14 BSP	61	23.5	27	8GS8FBSPORX	
-8	12	1/2	G 5/8" -14 BSP	62	24.5	30	8GS10FBSPORX	
-10	16	5/8	G 5/8" -14 BSP	80.5	30.2	30	10GS10FBSPORX	
-10	16	5/8	G 3/4" -14 BSP	82.3	32	32	10GS12FBSPORX	
-12	20	3/4	G 3/4" -14 BSP	86.5	35.5	32	12GS12FBSPORX	
-12	20	3/4	G 1" -11 BSP	86.6	35.6	41	12GS16FBSPORX	
-16	25	1	G 1" -11 BSP	95	38.6	41	16GS16FBSPORX	
-16	25	1	G 1.1/4" -11 BSP	83	26.2	50	16GS20FBSPORX	
-20	32	1.1/4	G 1.1/4" -11 BSP	116.5	45.4	50	20GS20FBSPORX	
-24	40	1.1/2	G 1.1/2" -11 BSP	154	58.8	55	24GSH24FBSPORX	
-24	40	1.1/2	G 1.1/2" -11 BSP	125	51.3	55	24GSP24FBSPORX	
-32	50	2	G 2" -11 BSP	184	69.9	70	32GSH32FBSPORX	
-32	50	2	G 2" -11 BSP	152	60	70	32GSP32FBSPORX	

BSP FBSPORX45

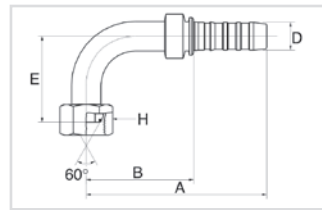


Female BSP 'O' ring swivel. 60° cone. 45°
Drop dimensions meet ISO 12151-6.

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SIZE	D		REF.	A	B	E	H	REF.	NETT. PRICE	
	DN	"							GS	£ STERLING
-6	10	3/8	G 3/8" - 19 BSP	83.1	47.3	15.4	22	6GS6FBSPORX45		
-8	12	1/2	G 1/2" - 14 BSP	91.5	54.1	17	27	8GS8FBSPORX45		
-10	16	5/8	G 5/8" - 14 BSP	118	67.7	21.3	30	10GS10FBSPORX45		
-10	16	5/8	G 3/4" - 14 BSP	127.9	77.6	31.2	32	10GS12FBSPORX45		
-12	20	3/4	G 3/4" - 14 BSP	132.6	81.6	28.3	32	12GS12FBSPORX45		
-16	25	1	G 1" - 11 BSP	155.5	99.1	30.9	41	16GS16FBSPORX45		
-20	32	1.1/4	G 1.1/4" - 11 BSP	191.1	119.9	37.5	50	20GS20FBSPORX45		
-24	40	1.1/2	G 1.1/2" - 11 BSP	242.5	147.5	49.7	55	24GSH24FBSPORX45		
-24	40	1.1/2	G 1.1/2" - 11 BSP	214.5	140.8	49.7	55	24GSP24FBSPORX45		
-32	50	2	G 2" - 11 BSP	276.1	184.1	62.3	70	32GSP32FBSPORX45		

BSP FBSPORX90

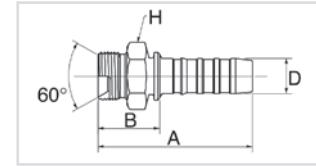


Female BSP 'O' ring swivel. 60° cone. 90° swept elbow.
Drop dimensions meet ISO 12151-6.

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SIZE	D		REF.	A	B	E	H	REF.	NETT. PRICE	
	DN	"							GS	£ STERLING
-6	10	3/8	G 3/8" - 19 BSP	78	42.2	32	22	6GS6FBSPORX90		
-8	12	1/2	G 1/2" - 14 BSP	88	50.5	37.5	27	8GS8FBSPORX90		
-10	16	5/8	G 5/8" - 14 BSP	112.5	62.2	46	30	10GS10FBSPORX90		
-10	16	5/8	G 3/4" - 14 BSP	112.5	62.2	60	32	10GS12FBSPORX90		
-12	20	3/4	G 3/4" - 14 BSP	124.2	73.2	60	32	12GS12FBSPORX90		
-16	25	1	G 1" - 11 BSP	151	94.6	70	41	16GS16FBSPORX90		
-20	32	1.1/4	G 1.1 AV - 11 BSP	180.5	109.4	80	50	20GS20FBSPORX90		
-24	40	1.1/2	G 1.1/2" - 11 BSP	222.6	127.6	100	55	24GSH24FBSPORX90		
-24	40	1.1/2	G 1.1/2" - 11 BSP	194.6	120.9	100	55	24GSP24FBSPORX90		
-32	50	2	G 2" - 11 BSP	254.7	162.7	129.1	70	32GSP32FBSPORX90		

BSP MBSP

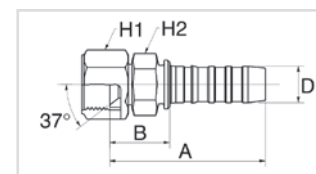


Male BSP parallel. 60° inverted cone. 60°

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SIZE	D		REF.	A	B	H	REF.	NETT. PRICE	
	DN	"						GS	£ STERLING
-6	10	3/8	G 3/8" - 19 BSP	63	27.2	22	6GS6MBSP		
-6	10	3/8	G 1/2" - 14 BSP	68	32.2	27	6GS8MBSP		
-8	12	1/2	G 1/2" - 14 BSP	67.5	30	27	8GS8MBSP		
-10	16	5/8	G 5/8" - 14 BSP	84	33.7	30	10GS10MBSP		
-10	16	5/8	G 3/4" - 14 BSP	85	34.7	32	10GS12MBSP		
-12	20	3/4	G 3/4" - 14 BSP	85	34.7	32	12GS12MBSP		
-12	20	3/4	G 1" - 11 BSP	90	39	41	12GS16MBSP		
-16	25	1	G 1" - 11 BSP	98	41.2	41	16GS16MBSP		
-20	32	1.1/4	G 1.1/4" - 11 BSP	118	46.9	50	20GS20MBSP		
-24	40	1.1/2	G 1.1/2" - 11 BSP	163	68	55	24GSH24MBSP		
-24	40	1.1/2	G 1.1/2" - 11 BSP	130	56.4	55	24GSP24MBSP		
-32	50	2	G 2" - 11 BSP	188	74	70	32GSH32MBSP		
-32	50	2	G 2" - 11 BSP	148.8	56.8	70	32GSP32MBSP		

JIC 37° FJX

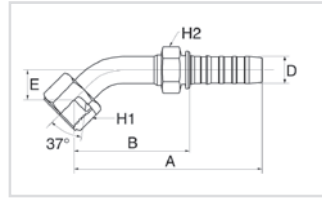


Female JIC swivel. 37° inverted cone.

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SIZE	D		REF.	A	B	H1	H2	REF.	NETT. PRICE	
	DN	"							G	£ STERLING
-6	10	3/8	9/16" - 18 UNF	69.0	33.0	19.	19.	6GS6FJX		
-6	10	3/8	3/4" - 16 UNF	71.0	35.	22.	19.	6GS8FJX		
-8	12	1/2	3/4" - 16 UNF	72.0	35.	22.	22.	8GS8FJX		
-8	12	1/2	7/8" - 14 UNF	76.	38.	27.0	22.	8GS10FJX		
-8	12	1/2	1.1/16" - 12 UN	77.0	40.	32.	22.	8GS12FJX		
-10	16	5/8	7/8" - 14 UNF	94.	43.	27.0	25.	10GS10FJX		
-10	16	5/8	1.1/16" - 12 UN	95.0	45.	32.	25.	10GS12FJX		
-12	20	3/4	7/8" - 14 UNF	98.	47.	29.	27.0	12GS10FJX		
-12	20	3/4	1.1/16" - 12 UN	98.0	47.0	32.	29.	12GS12FJX		
-12	20	3/4	1.3/16" - 12 UN	103.	52.	35.	29.	12GS14FJX		
-12	20	3/4	1.5/16" - 12 UN	102.0	51.0	38.	29.	12GS16FJX		
-16	25	1	1.1/16" - 12 UN	108.	51.	35.	35.	16GS12FJX		
-16	25	1	1.3/16" - 12 UN	108.	51.	38.	35.	16GS14FJX		
-16	25	1	1.5/16" - 12 UN	110.	53.	38.	38.	16GS16FJX		
-16	25	1	1.5/8" - 12 UN	115.0	59.	51.	38.	16GS20FJX		
-20	32	1.1/4	1.5/16" - 12 UN	129.0	58.	41.	45.	20GS16FJX		
-20	32	1.1/4	1.5/8" - 12 UN	136.0	65.	51.	48.	20GS20FJX		
-20	32	1.1/4	1.7/8" - 12 UN	137.0	66.	60.	48.	20GS24FJX		
-24	40	1.1/2	1.7/8" - 12 UN	153.	58.	60.0	55.0	24GSH24FJX		
-24	40	1.1/2	1.7/8" - 12 UN	124.0	50.	60.0	55.0	24GSP24FJX		
-32	50	2	2.1/2" - 12 UN	180.0	66.0	75.0	70.0	32GSH32FJX		
-32	50	2	2.1/2" - 12 UN	148.0	56.0	75.0	65.0	32GSP32FJX		

JIC 37° FJX45S

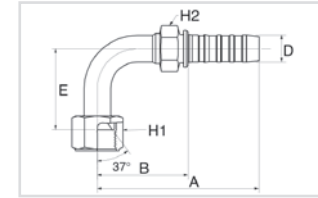


Female JIC swivel. 37° inverted cone. 45° swept elbow.
Short drop (-6 to -20 drop dimensions meet ISO 12151-5).

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D			A	B	E	H1	H2	REF.	NETT. PRICE		
SIZE	DN	"	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS	
-6	10	3/8	9/16" - 18 UNF	82	46.2	11	19.1	19.1	6G56FJX455		
-6	10	3/8	3/4" - 16 UNF	93	57.2	15	22.2	19.1	6GS8FJX455		
-8	12	1/2	3/4" - 16 UNF	94	56.5	15	22.2	22.2	8GS8FJX455		
-8	12	1/2	7/8" - 14 UNF	91	53.5	16	27	22.2	8GS10FJX455		
-10	16	5/8	7/8" - 14 UNF	113	63	18	27	30	10GS10FJX45-018		
-10	16	5/8	1.1/16" - 12 UN	122	71.7	21	31.8	25.4	10G512FJX455		
-12	20	3/4	1.1/16" - 12 UN	130	79	21	31.8	28.6	12G512FJX455		
-12	20	3/4	1.5/16" - 12 UN	137	86	24	38.1	28.6	12G516FJX455		
-16	25	1	1.5/16" - 12 UN	152	95.7	24	38.1	38.1	16G516FJX455		
-16	25	1	1.5/8" - 12 UN	164	107.7	25	50.8	38.1	16G520FJX455		
-20	32	1.1/4	1.5/8" - 12 UN	180	109	38	50.8	47.6	20G520FJX455		
-24	40	1.1/2	1.7/8" - 12 UN	226.1	130.9	34	60	55	24GS H24FJ X45M		
-24	40	1.1/2	1.7/8" - 12 UN	233	159.5	50	60	55	24G SP24FJX45-050		
-32	50	2	2.1/2" - 12 UN	276	183.8	45	75	65	32GSP32FJX45-065		

JIC 37° FJX90M

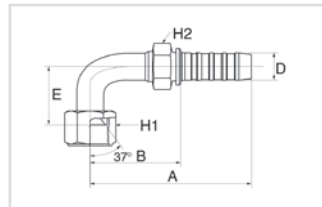


Female JIC swivel. 37° inverted cone. 90° swept elbow.
Medium drop (-6 to -20 drop dimensions meet ISO 12151-5).

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D			A	B	E	H1	H2	REF.	NETT. PRICE		
SIZE	DN	"	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS	
-6	10	3/8	3/4" - 16 UNF	91	55.2	41	22.2	19.1	6GS8FJX90M		
-8	12	1/2	3/4" - 16 UNF	92	54.6	41	22.2	22.2	8GS8FJX90M		
-8	12	1/2	7/8" - 14 UNF	89	51.5	47	27	22.2	8GS10FJX90M		
-10	16	5/8	7/8" - 14 UNF	107	56.7	47	27	25.4	10GS10FJX90M		
-10	16	5/8	1.1/16" - 12 UN	121	70.7	58	31.8	25.4	10GS12FJX90M		
-12	20	3/4	1.1/16" - 12 UN	119	68	58	31.8	28.6	12GS12FJX90M		
-12	20	3/4	1.3/16" - 12 UN	141	90	60	34.9	28.6	12GS14FJX90-060		
-12	20	3/4	1.5/16" - 12 UN	135	84	71	38.1	28.6	12GS16FJX90M		
-16	25	1	1.5/16" - 12 UN	144	87.6	71	38.1	38.1	16GS16FJX90M		
-20	32	1.1/4	1.5/8" - 12 UN	174	102.9	78	50.8	47.6	20GS20FJX90M		
-24	40	1.1/2	1.7/8" - 12 UN	227.5	132.3	86	60	55	24GSH24FJX90M		
-24	40	1.1/2	1.7/8" - 12 UN	212	138.4	89	60	55	24GSP24FJX90-089		
-32	50	2	2.1/2" - 12 UN	272	179.7	140	75	65	32GSP32FJX90		

JIC 37° FJX90S

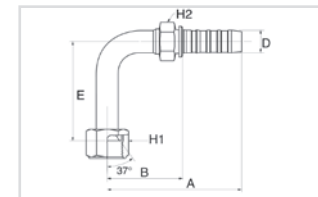


Female JIC swivel. 37° inverted cone. 90° swept elbow.
Short drop (-6 to -20 drop dimensions meet ISO 12151-5).

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D			A	B	E	H1	H2	REF.	NETT. PRICE		
SIZE	DN	"	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS	
-6	10	3/8	9/16" - 18 UNF	79	43.2	23	19.1	19.1	6GS6FJX90S		
-8	12	1/2	3/4" - 16 UNF	86	48.6	29	22.2	22.2	8GS8FJX90S		
-8	12	1/2	7/8" - 14 UNF	92	54.5	32	27	22.2	8GS10FJX90S		
-8	12	1/2	1.1/16" - 12 UN	111	73.5	48	31.8	22.2	8GS12FJX90S		
-10	16	5/8	7/8" - 14 UNF	111	43.3	36	27	30	10G510FJX90-036		
-12	20	3/4	1.1/16" - 12 UN	119	68	48	31.8	28.6	12GS12FJX90S		
-12	20	3/4	1.5/16" - 12 UN	135	84	56	38.1	28.6	12GS16FJX90S		
-16	25	1	1.5/16" - 12 UN	144	87.6	56	38.1	38.1	16GS16FJX90S		
-20	32	1.1/4	1.5/8" - 12 UN	174	102.9	64	50.8	47.6	20G520FJX90S		

JIC 37° FJX90L



Female JIC swivel. 37° inverted cone. 90° swept elbow.

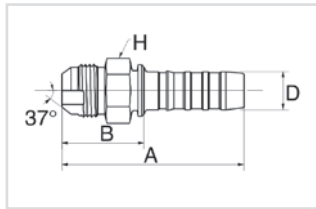
Long drop (-6 to -20 drop dimensions meet ISO 12151-5).

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D			A	B	E	H1	H2	REF.	NETT. PRICE		
SIZE	DN	"	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS	
-6	10	3/8	9/16" - 18 UNF	86	50.2	54	19.1	19.1	6GS6FJX90L		
-8	12	1/2	3/4" - 16 UNF	92	54.6	64	22.2	22.2	8GS8FJX90L		
-8	12	1/2	7/8" - 14 UNF	89	51.5	70	27	22.2	8GS10FJX90L		
-12	20	3/4	1.1/16" - 12 UN	113	62	96	31.8	28.6	12GS12FJX90L		
-16	25	1	1.5/16" - 12 UN	144	87.6	114	38.1	38.1	16GS16FJX90L		
-16	25	1	1.5/8" - 12 UN	154	97.6	129	50.8	38.1	16GS20FJX90L		
-20	32	1.1/4	1.5/8" - 12 UN	174	102.9	129	50.8	47.6	20GS20FJX90L		

JIC 37° MJ

Male JIC parallel. 37° cone.

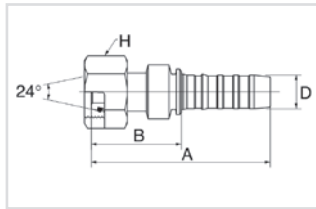


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TECH. DATA SHEET
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SIZE		D	DN	"	A	B	H	REF.	NETT. PRICE	
		mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	9/16"	-18 UNF	66	30.2	17.5	6GS6MJ		
-6	10	3/8	3/4"	-16 UNF	70	34.2	20.6	6GS8MJ		
-6	10	3/8	7/8"	-14 UNF	77	41.2	23.8	6GS10MJ		
-8	12	1/2	3/4"	-16 UNF	72	34.5	20.6	8GS8MJ		
-8	12	1/2	7/8"	-14 UNF	75	37.5	22.2	8GS10MJ		
-10	16	5/8	7/8"	-14 UNF	92	41.7	23.8	10GS10MJ		
-10	16	5/8	1.1/16"	-12 UN	94	43.7	27	10GS12MJ		
-12	20	3/4	1.1/16"	-12 UN	93	42	28.6	12GS12MJ		
-12	20	3/4	1.3/16"	-12 UN	94	43	31.8	12GS14MJ		
-12	20	3/4	1.5/16"	-12 UN	96	45	33.3	12GS16MJ		
-16	25	1	1.5/16"	-12 UN	104	47.2	34.9	16GS16MJ		
-16	25	1	1.5/8"	-12 UN	108.5	51.7	44.5	16GS20MJ		
-20	32	1.1/4	1.5/8"	-12 UN	125	53.9	44.5	20GS20MJ		
-24	40	1.1/2	1.7/8"	-12 UN	162.3	87.3	50	24GSH24MJ		
-24	40	1.1/2	1.7/8"	-12 UN	130	56.4	50	24GSP24MJ		
-32	50	2	2.1/2"	-12 UN	196.2	82.2	65	32GSH32MJ		
-32	50	2	2.1/2"	-12 UN	161.1	69.1	65	32GSP32MJ		

DIN 24° FDLORX

Female DIN 'O' ring swivel. 24° cone. Light series.

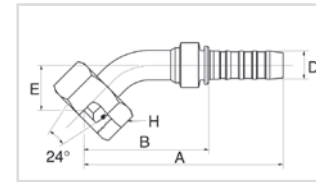


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TECH. DATA SHEET
XXX

SIZE		D	DN	"	A	B	H	REF.	NETT. PRICE	
		mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M18 x 1.5	73	37.2	22	6G512FDLORX			
-8	12	1/2	M22 x 1.5	73	35.5	27	8G515FDLORX			
-10	16	5/8	M26 x 1.5	91.8	41.5	32	10G518FDLORX			
-12	20	3/4	M30 x 2.0	97	46	36	12G522FDLORX			
-12	20	3/4	M36 x 2.0	99	48	41	12G528FDLORX			
-16	25	1	M36 x 2.0	105	48.6	41	16G528FDLORX			
-20	32	1.1/4	M45 x 2.0	132.5	61.4	50	20G535FDLORX			
-24	40	1.1/2	M52 x 2.0	135.7	62	60	24G51342FDLORX			

DIN 24° FDLORX45

Female DIN 'O' ring swivel. 24° cone. Light series.
45° swept elbow. Drop dimensions meet ISO 12151-2.

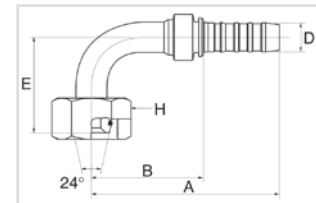


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TECH. DATA SHEET
XXX

SIZE		D	DN	"	A	B	E	H	REF.	NETT. PRICE	
		mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-8	12	1/2	M22 x 1.5	94.7	57.2	20.2	27	8G515FDLORX45			
-12	20	3/4	M30 x 2.0	135.8	84.8	29.8	36	12G522FDLORX45			
-16	25	1	M36 x 2.0	155.5	99.1	30.9	41	16G528FDLORX45			
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44	60	24G51342FDLORX45			

DIN 24° FDLORX90

Female DIN 'O' ring swivel. 24° cone. Light series.
90° swept elbow. Drop dimensions meet ISO 12151-2.

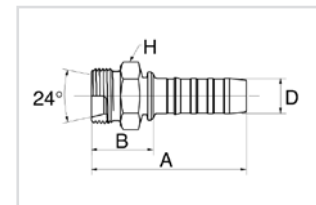


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TECH. DATA SHEET
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SIZE		D	DN	"	A	B	E	H	REF.	NETT. PRICE	
		mm	mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M18 x 1.5	78	42.2	37	22	6G512FDLORX90			
-8	12	1/2	M22 x 1.5	88	50.5	42	27	8G515FDLORX90			
-10	16	5/8	M26 x 1.5	113.5	63.2	51.5	32	10G518FDLORX90			
-12	20	3/4	M30 x 2.0	126	75	62	36	12G522FDLORX90			
-16	25	1	M36 x 2.0	151	94.6	70	41	16G528FDLORX90			
-24	40	1.1/2	M52 x 2.0	194.6	120.9	92	60	24G51342FDLORX90			

DIN 24° MDL

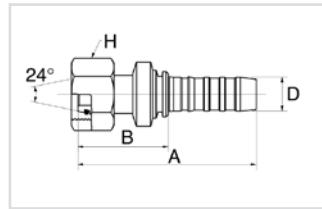
Male DIN parallel. 24° inverted cone. Light series.



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SIZE		D	DN	"	A	B	H	REF.	NETT. PRICE	
		mm	mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M18 x 1.5	60	24.2	19	6GS12MDL			
-8	12	1/2	M22 x 1.5	63	25.5	24	8GS15MDL			
-10	16	5/8	M26 x 1.5	76.5	26.2	27	10GS18MDL			
-12	20	3/4	M30 x 2.0	79.5	28.5	32	12GS22MDL			
-16	25	1	M36 x 2.0	90	33.2	41	16GS28MDL			
-24	40	1.1/2	M52 x 2.0	120	46.4	55	24GSP42MDL			

DIN 24° FDHORX

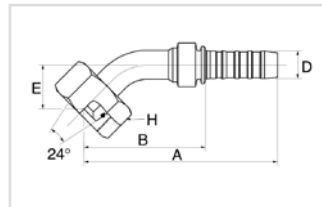


Female DIN 'O ring swivel. 24° cone. Heavy series.

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SIZE			D	A	B	H	REF.	NETT. PRICE	
DN	"		mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M20 x 1.5	73	37.2	24	6GS12FDHORX		
-6	10	3/8	M22 x 1.5	75.5	39.7	27	6GS14FDHORX		
-8	12	1/2	M22 x 1.5	76.5	38.9	27	8GS14FDHORX		
-8	12	1/2	M24 x 1.5	79	41.5	30	8GS16FDHORX		
-8	12	1/2	M30 x 2.0	82	44.5	36	8GS20FDHORX		
-10	16	5/8	M30 x 2.0	100	49.7	36	10GS20FDHORX		
-10	16	5/8	M36 x 2.0	104	53.7	46	10GS25FDHORX		
-12	20	3/4	M30 x 2.0	103	52	36	12GS20FDHORX		
-12	20	3/4	M36 x 2.0	107.4	56.4	46	12GS25FDHORX		
-12	20	3/4	M42 x 2.0	97	46	50	12GS30FDHORX		
-16	25	1	M36 x 2.0	116	59.6	46	16GS25FDHORX		
-16	25	1	M42 x 2.0	118	61.6	50	16GS30FDHORX		
-20	32	1.1/4	M52 x 2.0	145	73.9	60	20GS38FDHORX		
-24	40	1.1/2	M52 x 2.0	180	85	60	24GSH38FDHORX		
-24	40	1.1/2	M52 x 2.0	150	76.3	60	24GSP38FDHORX		

DIN 24° FDHORX45

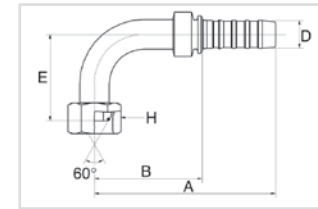


Female DIN 'O ring swivel. 24° cone. Heavy series.
45° swept elbow. Drop dimensions meet ISO 12151-2.

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SIZE			D	A	B	E	H	REF.	NETT. PRICE	
DN	"		mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M20 x 1.5	86.7	50.8	18.9	24	6GS12FDHORX45		
-6	10	3/8	M22 x 1.5	88.8	53	21	27	6GS14FDHORX45		
-8	12	1/2	M24 x 1.5	96.1	58.7	21.6	30	8GS16FDHORX45		
-10	16	5/8	M30 x 2.0	121.6	71.3	24.9	36	10GS20FDHORX45		
-12	20	3/4	M30 x 2.0	160.9	109.9	29.8	36	12GS20FDHORX45		
-12	20	3/4	M36 x 2.0	137.3	86.3	31.2	46	12GS25FDHORX45		
-16	25	1	M36 x 2.0	159.7	103.3	35.1	46	16GS25FDHORX45		
-16	25	1	M42 x 2.0	159.7	103.3	35.1	50	16GS30FDHORX45		
-20	32	1.1/4	M52 x 2.0	196	124.9	42.5	60	20GS38FDHORX45		
-24	40	1.1/2	M52 x 2.0	236.9	141.9	44	60	24G51-138FDHORX45		
-24	40	1.1/2	M52 x 2.0	208.9	135.2	44	60	24G51338FDHORX45		

DIN 24° FDHORX90

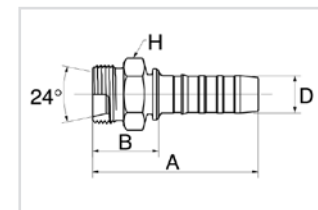


Female DIN 'O ring swivel. 24° cone. Heavy series.
90° swept elbow. Drop dimensions meet ISO 12151-2.

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SIZE			D	A	B	E	H	REF.	NETT. PRICE	
DN	"		mm	mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M20 x 1.5	78	42.2	37	24	6GS12FDHORX90		
-6	10	3/8	M22 x 1.5	78	42.2	40	27	6GS14FDHORX90		
-8	12	1/2	M24 x 1.5	88	50.5	44	30	8GS16FDHORX90		
-10	16	5/8	M30 x 2.0	112.5	62.2	51	36	10GS20FDHORX90		
-12	20	3/4	M30 x 2.0	126	75	62	36	12GS20FDHORX90		
-12	20	3/4	M36 x 2.0	126	75	64	46	12GS25FDHORX90		
-16	25	1	M36 x 2.0	151	94.6	76	46	16GS25FDHORX90		
-16	25	1	M42 x 2.0	151	94.6	76	50	16GS30FDHORX90		
-20	32	1.1/4	M52 x 2.0	180.5	109.4	87	60	20GS38FDHORX90		
-24	40	1.1/2	M52 x 2.0	222.6	127.6	92	60	24G51-138FDHORX90		
-24	40	1.1/2	M52 x 2.0	194.6	121	92	60	24G51338FDHORX90		

DIN 24° MDH



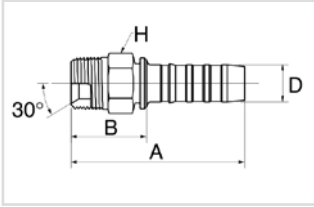
Male DIN parallel. 24° inverted cone. Heavy series.

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SIZE			D	A	B	H	REF.	NETT. PRICE	
DN	"		mm	mm	mm	mm	G	£ STERLING	€ EUROS
-6	10	3/8	M20 x 1.5	63.7	27.9	22	6GS12MDH		
-6	10	3/8	M22 x 1.5	65.7	29.9	24	6GS14MDH		
-8	12	1/2	M24 x 1.5	67.5	30	27	8GS16MDH		
-10	16	5/8	M30 x 2.0	85	34.7	32	10GS20MDH		
-12	20	3/4	M30 x 2.0	85	34	32	12GS20MDH		
-12	20	3/4	M36 x 2.0	89	38	41	12GS25MDH		
-12	20	3/4	M42 x 2.0	95	44	46	12GS30MDH		
-16	25	1	M36 x 2.0	97	40.2	41	16GS25MDH		
-16	25	1	M42 x 2.0	99	42.2	46	16GS30MDH		
-20	32	1.1/4	M52 x 2.0	123	51.9	55	20GS38MDH		

NPTF MP

Male NPTF pipe. 30°



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D			A			B			H			REF.		
SIZE	DN	"	mm	mm	mm	mm	mm	mm	G	NETT. PRICE				
										£ STERLING	€ EUROS			
-6	10	3/8	3/8" -18 NPTF	69	33.2	17.5	6GS6MP							
-6	10	3/8	1/2" -14 NPTF	73	37.2	22.2	6GS8MP							
-8	12	1/2	1/2" -14 NPTF	74	36.5	22.2	8GS8MP							
-8	12	1/2	3/4" -14 NPTF	77	39.5	27	8GS12MP							
-10	16	5/8	1/2" -14 NPTF	87	36.7	23.8	10GS8MP							
-10	16	5/8	3/4" -14 NPTF	91	40.7	28.6	10GS12MP							
-12	20	3/4	3/4" -14 NPTF	90	39	27	12GS12MP							
-12	20	3/4	1" -11.5 NPTF	97	46	34.9	12GS16MP							
-16	25	1	3/4" -14 NPTF	101	44.2	34.9	16GS12MP							
-16	25	1	1" -11.5 NPTF	106	49.2	34.9	16GS16MP							
-16	25	1	1.1/4" -11.5 NPTF	109	52.2	44.5	16GS20MP							
-20	32	1.1/4	1.1/4" -11.5 NPTF	127	55.9	44.5	20GS20MP							
-24	40	1.1/2	1.1/2" -11.5 NPTF	133	59.4	50.8	24GSP24MP							
-32	50	2	2" -11.5 NPTF	191.6	77.6	69.9	32GSH32MP							
-32	50	2	2" -11.5 NPTF	153.7	61.7	63.5	32GSP32MP							