

GS-HYDRO

HYDRAULIC HOSES & COUPLINGS



GS-PIPING WITHOUT WELDING™



General Information

GS-Hydro supplies comprehensive range of high pressure hoses and couplings for hydraulic applications in offshore, marine and land based industries.

Hoses are offered in color coded groups based on Working Pressure:

3000 psi	210 bar
4000 psi	280 bar
5000 psi	350 bar
6000 psi	420 bar

Additionally available are 1SN and 2SN wire braid hoses.

Hose couplings range includes BSP, JIC, Metric, NPT, SAE Code 61 (3000 psi) Code 62 (6000 psi) and ORFS terminations in carbon steel and stainless steel. Also available with GS-Retain Ring Flange connection.

All products meet the industrial standards and can be purchased as readymade assemblies or loose hose and couplings.

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GS-3000

GS-3000 range of hose is recommended for hydraulic systems with working pressure of 3000psi/210bar.

Construction

Tube:	Oil resistant synthetic rubber
Reinforcement:	Size 04-12: High tensile steel wire braid Size 16-32: High tensile steel wire spiral
Cover:	Oil, abrasion and weather resistant synthetic rubber



All sizes are MSHA approved

Color indication stripe green

Hoses are available with high abrasion resistant cover upon request.

Part No	ID Code				ROD									Fitting range	Ferrule
		Dash	Inch	mm	mm	mm	bar	psi	bar	psi	bar	mm			
GS-3000-04	5106000100	04	1/4	6,4	10,4	12,2	225	3263	900	13050	-0,80	75	180	P-series	393-04
GS-3000-06	5106000105	06	3/8	9,5	15	17,1	330	4785	1320	19140	-0,95	90	420	P-series	399-06
GS-3000-08	5106000110	08	1/2	12,7	18,6	20,7	275	3968	1100	15950	-0,95	130	575	P-series	399-08
GS-3000-10	5106000115	10	5/8	16	21,7	23,8	250	3625	1000	14500	-0,95	170	685	P-series	399-10
GS-3000-12	5106000120	12	3/4	19	25,6	27,7	215	3118	850	12325	-0,80	200	810	P-series	399-12
GS-3000-16	5106000125	16	1	25,4	35,1	39,1	280	4060	1120	16240	-	340	1915	P-series	384-16
GS-3000-20	5106000130	20	1 1/4	31,8	41,9	45,2	350	5075	1400	20300	-	450	2425	I-series	594-20
GS-3000-24	5106000135	24	1 1/2	38,1	48,8	53	290	4205	1160	16820	-	560	3235	I-series	594-24
GS-3000-32	5106000140	32	2	50,8	63,2	57,6	250	3625	1000	14500	-	700	4450	I-series	594-32

Part No	Standard	Temperature range	Mineral Oil	Vegetable Oil	Ester based Oil	Glycol based Oil
GS-3000-04	EN857 1SC	-40°C / +100°C -40°F / +212°F	✓	✓	✓	✓ (up to 80°C)
GS-3000-06	EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-3000-08	EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-3000-10	EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-3000-12	EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-3000-16	SAE 100R9R/EN856 4SP		✓	✓	✓	✓
GS-3000-20	EN856 4SH		✓	✓	✓	✓
GS-3000-24	EN856 4SH		✓	✓	✓	✓
GS-3000-32	EN856 4SH		✓	✓	✓	✓

GS-4000

GS-4000 range of hose is recommended for hydraulic systems with working pressure of 4000psi/280bar.

Construction

Tube:	Oil resistant synthetic rubber
Reinforcement:	Size 04-12: High tensile steel wire braid Size 16-32: High tensile steel wire spiral
Cover:	Oil, abrasion and weather resistant synthetic rubber



All sizes are MSHA approved

Color indication stripe blue

Hoses are available with high abrasion resistant cover upon request.

Part No	ID Code				ROD									Fitting range	Ferrule
		Dash	Inch	mm	mm	mm	bar	psi	bar	psi	bar	mm			
GS-4000-04	5106000145	04	1/4	6,4	11,3	13,4	400	5800	1600	23500	-0,95	75	280	P-series	399-04
GS-4000-06	5106000150	06	3/8	9,5	15	17,1	330	4785	1320	19140	-0,95	90	420	P-series	399-06
GS-4000-08	5106000155	08	1/2	12,7	18,6	20,7	275	3988	1100	15950	-0,95	130	575	P-series	399-08
GS-4000-10	5106000160	10	5/8	16	21,4	23,5	290	4205	1160	16820	-0,95	130	655	P-series	399-10
GS-4000-12	5106000165	12	3/4	19	25,4	27,4	280	4060	1120	16240	-0,80	160	830	P-series	399-12
GS-4000-16	5106000170	16	1	25,4	35,1	39,1	280	4060	1120	16240	-	340	1915	P-series	384-16
GS-4000-20	5106000175	20	1 1/4	31,8	41,9	45,2	350	5075	1400	20300	-	450	2425	I-series	594-20
GS-4000-24	5106000180	24	1 1/2	38,1	48,8	53	290	4205	1160	16820	-	560	3235	I-series	594-24
GS-4000-32	5106000185	32	2	50,8	68	71,6	345	5000	1380	20000	-	630	5420	I-series	596-32

Part No	Standard	Temperature range	Mineral Oil	Vegetable Oil	Ester based Oil	Glycol based Oil
GS-4000-04	EN857 2SC	-40°C / +100°C -40°F / +212°F	✓	✓	✓	✓ (up to 80°C)
GS-4000-06	EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-4000-08	EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-4000-10	exceed EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-4000-12	exceed EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-4000-16	SAE 100R9R/EN856 4SP		✓	✓	✓	✓
GS-4000-20	EN856 4SH		✓	✓	✓	✓
GS-4000-24	EN856 4SH		✓	✓	✓	✓
GS-4000-32	SAE 100R13/EN856 R13	-40°C / +120°C -40°F / +248°F	✓	✓	✓	✓

1 = Preferred

2 = Preferred up to 80°C

GS-5000

GS-5000 range of hose is recommended for hydraulic systems with working pressure of 5000psi/350bar.

Construction

Tube:	Oil resistant synthetic rubber
Reinforcement:	Size 04-08: High tensile steel wire braid Size 10-32: High tensile steel wire spiral
Cover:	Oil, abrasion and weather resistant synthetic rubber



All sizes are MSHA approved

Color indication stripe red

Hoses are available with high abrasion resistant cover upon request.

Part No	ID Code				ROD									Fitting range	Ferrule
		Dash	Inch	mm	mm	mm	bar	psi	bar	psi	bar	mm	g/m		
GS-5000-04	5106000190	04	1/4	6,4	11,3	13,4	400	5800	1600	23500	-0,95	75	280	P-series	399-04
GS-5000-06	5106000195	06	3/8	9,5	15,1	17,1	385	5583	1540	22330	-0,95	70	450	P-series	399-06
GS-5000-08	5106000200	08	1/2	12,7	18,3	20,3	345	5003	1380	20010	-0,95	90	550	P-series	399-08
GS-5000-10	5106000205	10	5/8	16	23,8	28	350	5075	1400	20300	-	250	1070	P-series	399-10
GS-5000-12	5106000210	12	3/4	19	28,2	32	350	5075	1400	20300	-	300	1500	P-series	399-12
GS-5000-16	5106000215	16	1	25,4	35,1	38,4	380	5510	1520	22040	-	340	2035	I-series	594-16
GS-5000-20	5106000220	20	1 1/4	31,8	41,9	45,2	350	5075	1400	20300	-	450	2425	I-series	594-20
GS-5000-24	5106000225	24	1 1/2	38,1	53,7	57,3	345	5000	1380	20000	-	500	4845	I-series	596-24
GS-5000-32	5106000230	32	2	50,8	68	71,6	345	5000	1380	20000	-	630	5420	I-series	596-32

Part No	Standard	Temperature range	Mineral Oil	Vegetable Oil	Ester based Oil	Glycol based Oil
GS-5000-04	EN857 2SC	-40°C / +100°C -40°F / +212°F	✓	✓	✓	✓ (up to 80°C)
GS-5000-06	exceed EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-5000-08	exceed EN857 2SC		✓	✓	✓	✓ (up to 80°C)
GS-5000-10	SAE 100R9R/EN856 4SP		✓	✓	✓	✓
GS-5000-12	SAE 100R9R/EN856 4SP		✓	✓	✓	✓
GS-5000-16	EN856 4SH		✓	✓	✓	✓
GS-5000-20	EN856 4SH		✓	✓	✓	✓
GS-5000-24	SAE 100R13/EN856 R13	-40°C / +120°C -40°F / +248°F	✓	✓	✓	✓
GS-5000-32	SAE 100R13/EN856 R13		✓	✓	✓	✓

GS-6000

GS-6000 range of hose is recommended for hydraulic systems with working pressure of 6000psi/420bar.

Construction

Tube:	Oil resistant synthetic rubber
Reinforcement:	Size 04: High tensile steel wire braid Size 06-32: High tensile steel wire spiral
Cover:	Oil, abrasion and weather resistant synthetic rubber



All sizes are MSHA approved
Color indication stripe yellow

Hoses are available with high abrasion resistant cover upon request.

Part No	ID Code				ROD									Fitting range	Ferrule
		Dash	Inch	mm	mm	mm	bar	psi	bar	psi	bar	mm			
GS-6000-04	5106000235	04	1/4	6,4	11,1	13,1	450	6525	1950	28275	-0,95	45	290	P-series	399-04
GS-6000-06	5106000240	06	3/8	9,5	17,5	21,2	445	6453	1780	25810	-0,95	110	760	P-series	384-06
GS-6000-08	5106000245	08	1/2	12,7	20,3	24,4	415	6018	1660	24070	-0,95	120	900	P-series	384-08
GS-6000-10	5106000250	10	5/8	16	25,3	28,7	420	6090	1680	24360	-	236	1225	I-series	594-10
GS-6000-12	5106000255	12	3/4	19	28,2	32	420	6090	1680	24360	-	265	1500	I-series	594-12
GS-6000-16	5106000260	16	1	25,4	35,1	38,4	420	6090	1680	24360	-	330	2065	I-series	594-16
GS-6000-20	5106000265	20	1 1/4	31,8	46,3	49,3	420	6090	1680	24360	-	445	3865	I-series	596-20
GS-6000-24	5106000270	24	1 1/2	38,1	53,7	420	420	6090	1680	24360	-	530	4845	I-series	596-24
GS-6000-32	5106000275	32	2	50,8	68,4	72	420	6090	1680	24360	-	600	6490	I-series	596-32

Part No	Standard	Temperature range	Mineral Oil	Vegetable Oil	Ester based Oil	Glycol based Oil
GS-6000-04	exceed EN857 2SC	-40°C / +100°C -40°F / +212°F	✓	✓	✓	✓ (up to 80°C)
GS-6000-06	SAE 100R9R/EN856 4SP		✓	✓	✓	✓
GS-6000-08	SAE 100R9R/EN856 4SP		✓	✓	✓	✓
GS-6000-10	SAE 100R15	-40°C / +120°C -40°F / +248°F	✓	✓	✓	✓
GS-6000-12	SAE 100R15		✓	✓	✓	✓
GS-6000-16	SAE 100R15		✓	✓	✓	✓
GS-6000-20	SAE 100R15		✓	✓	✓	✓
GS-6000-24	SAE 100R15		✓	✓	✓	✓
GS-6000-32	SAE 100R15		✓	✓	✓	✓

GS-15N

GS-15N range of hose is recommended for hydraulic systems with medium level working pressure.

Construction

Tube:	Oil resistant synthetic rubber
Reinforcement:	All sizes high tensile steel wire braid
Cover:	Oil, abrasion and weather resistant synthetic rubber
Standards:	DIN/EN853 15N, SAE 100 R1AT



All sizes are MSHA approved

Color indication stripe white

Hoses are available with high abrasion resistant cover upon request.

Part No	ID Code													Fitting range	Ferrule
		Dash	Inch	mm	mm	mm	bar	psi	bar	psi	bar	mm			
GS-15N-04	5106000280	04	1/4	6,4	11,1	13,2	225	3263	1030	14935	-0,80	100	220	P-series	399-04
GS-15N-06	5106000285	06	3/8	9,5	15	17,2	180	2610	820	11890	-0,80	130	330	P-series	399-06
GS-15N-08	5106000290	08	1/2	12,7	18,1	20,4	160	2320	700	10150	-0,80	180	410	P-series	399-08
GS-15N-10	5106000295	10	5/8	16	21,2	23,5	130	1885	600	8700	-0,80	200	470	P-series	399-10
GS-15N-12	5106000300	12	3/4	19	25,2	27,5	105	1523	500	7250	-0,80	240	585	P-series	399-12
GS-15N-16	5106000305	16	1	25,4	33,1	35,4	88	1276	375	5438	-0,80	300	870	P-series	399-16
GS-15N-20	5106000310	20	1 1/4	31,8	40,2	43,5	63	914	280	4060	-0,60	420	1205	P-series	399-20
GS-15N-24	5106000315	24	1 1/2	38,1	45,7	50	50	725	260	3770	-0,60	500	1400	P-series	399-24
GS-15N-32	5106000320	32	2	50,8	50,2	63,6	40	580	250	3625	-0,60	530	1910	P-series	399-32

Part No	Temperature range	Mineral Oil	Vegetable Oil	Ester based Oil	Glycol based Oil
GS-15N-04	-40°C / +100°C (125°F discontinuous) -40°F / +212°F (257°F discontinuous)	✓	✓	✓	✓ (up to 80°C)
GS-15N-06		✓	✓	✓	✓ (up to 80°C)
GS-15N-08		✓	✓	✓	✓ (up to 80°C)
GS-15N-10		✓	✓	✓	✓ (up to 80°C)
GS-15N-12		✓	✓	✓	✓ (up to 80°C)
GS-15N-16		✓	✓	✓	✓ (up to 80°C)
GS-15N-20		✓	✓	✓	✓ (up to 80°C)
GS-15N-24		✓	✓	✓	✓ (up to 80°C)
GS-15N-32		✓	✓	✓	✓ (up to 80°C)

GS-2SN

GS-2SN range of hose is recommended for hydraulic systems with medium/high level working pressure.

Construction

Tube: Oil resistant synthetic rubber
Reinforcement: All sizes high tensile steel wire braid
Cover: Oil, abrasion and weather resistant synthetic rubber
Standards: DIN/EN853 2SN, SAE 100 R2AT



All sizes are MSHA approved

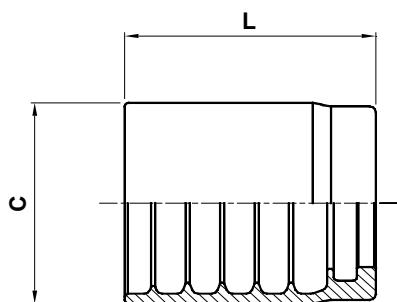
Color indication stripe white

Hoses are available with high abrasion resistant cover upon request.

Part No	ID Code													Fitting range	Ferrule
		Dash	Inch	mm	mm	mm	bar	psi	bar	psi	bar	mm	g/m		
GS-2SN-04	5106000325	04	1/4	6,4	12,8	15	400	5800	1700	24650	-0,95	100	375	P-series	399-04
GS-2SN-06	5106000330	06	3/8	9,5	16,7	18,9	330	4785	1450	21025	-0,95	130	540	P-series	399-06
GS-2SN-08	5106000335	08	1/2	12,7	19,8	22,2	275	3988	1300	18850	-0,95	180	640	P-series	399-08
GS-2SN-10	5106000340	10	5/8	16	22,9	25,2	250	3625	1050	15525	-0,95	200	750	P-series	399-10
GS-2SN-12	5106000345	12	3/4	19	26,9	29,2	215	3118	920	13340	-0,80	240	925	P-series	399-12
GS-2SN-16	5106000350	16	1	25,4	34,8	37,2	165	2393	690	10005	-0,80	300	1290	P-series	399-16
GS-2SN-20	5106000355	20	1 1/4	31,8	44,3	47,3	125	1813	620	8990	-0,80	420	1890	P-series	399-20
GS-2SN-24	5106000360	24	1 1/2	38,1	50,7	53,7	90	1305	520	7540	-0,80	500	2100	P-series	399-24
GS-2SN-32	5106000365	32	2	50,8	63,5	66,7	78	1131	420	6090	-0,80	630	2760	P-series	399-32
GS-2SN-40	5106000370	40	2 1/2	63,5	75,2	79,8	69	1000	300	4350	-0,60	760	3810	P-series	399-40
GS-2SN-48	5106000375	48	3	76,2	87,4	91,9	50	725	240	3480	-0,60	900	4040	P-series	399-48

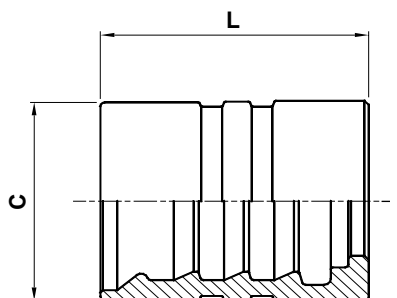
Part No	Temperature range	Mineral Oil	Vegetable Oil	Ester based Oil	Glycol based Oil
GS-2SN-04	-40°C / +100°C (125°C discontinuous) -40°F / +212°F (257°F discontinuous)	✓	✓	✓	✓ (up to 80°C)
GS-2SN-06		✓	✓	✓	✓ (up to 80°C)
GS-2SN-08		✓	✓	✓	✓ (up to 80°C)
GS-2SN-10		✓	✓	✓	✓ (up to 80°C)
GS-2SN-12		✓	✓	✓	✓ (up to 80°C)
GS-2SN-16		✓	✓	✓	✓ (up to 80°C)
GS-2SN-20		✓	✓	✓	✓ (up to 80°C)
GS-2SN-24		✓	✓	✓	✓ (up to 80°C)
GS-2SN-32		✓	✓	✓	✓ (up to 80°C)
GS-2SN-40		✓	✓	✓	✓ (up to 80°C)
GS-2SN-48		✓	✓	✓	✓ (up to 80°C)

Ferrules for P-series couplings (1–4 wire)



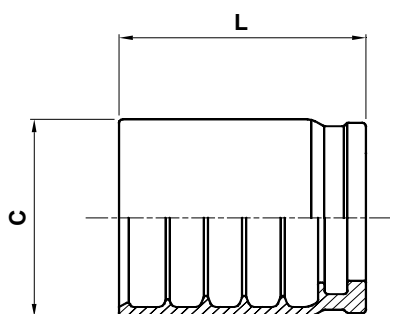
Part No	ID Code CS	ID Code SS	Hose			C		L	
			mm	Inch	Size	mm	inch	mm	inch
399-04	5203002400	5205002400	6	1/4"	04	23	0,91	30	1,18
399-06	5203002420	5205002420	10	3/8"	06	26	1,02	31,5	1,24
399-08	5203002430	5205002430	12	1/2"	08	29	1,14	33,5	1,32
399-10	5203002440	5205002440	16	5/8"	10	33	1,30	36	1,42
399-12	5203002450	5205002450	19	3/4"	12	37	1,46	40	1,57
399-16	5203002460	5205002460	25	1"	16	46	1,81	50	1,97
399-20	5203002470	5205002470	31	1 1/4"	20	59	2,32	59	2,32
399-24	5203002480	5205002480	38	1 1/2"	24	67	2,64	67	2,64
399-32	5203002490	5205002490	51	2"	32	80	3,15	82	3,23
399-40	5203002500	-	63	2 1/2"	40	88,3	3,48	80	3,15
399-48	5203002505	-	760	3"	48	103	4,06	8,75	3,44

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.



Part No	ID Code CS	ID Code SS	Hose			C		L	
			mm	Inch	Size	mm	inch	mm	inch
384-04	5203001400	5205001500	6	1/4"	04	22	0,87	30	1,18
384-06	5203001420	5205001505	10	3/8"	06	26	1,02	32	1,26
384-08	5203001430	5205001510	12	1/2"	08	30	1,18	34,5	1,36
384-10	5203001440	5205001515	16	5/8"	10	33	1,3	38	1,50
384-12	5203001450	5205001520	19	3/4"	12	38	1,5	40,5	1,59
384-16	5203001460	5205001525	25	1"	16	46	1,81	53	2,09
384-20	5203001470	5205001530	31	1 1/4"	20	55	2,17	58	2,28
384-24	5203001480	5205001535	38	1 1/2"	24	62	2,44	71	2,80
384-32	5203001490	5205001540	51	2"	32	78	3,07	85	3,35

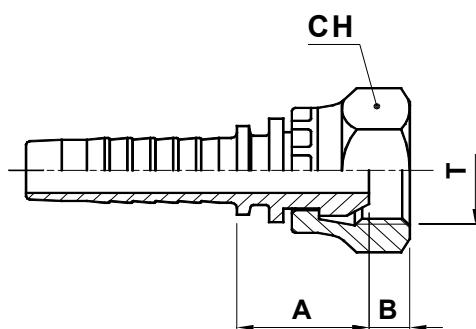
Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.



Part No	ID Code CS	ID Code SS	Hose			C		L	
			mm	Inch	Size	mm	inch	mm	inch
393-04	5203001600	5205001600	6	1/4"	04	20	0,79	23,5	0,92
393-06	5203001620	5205001605	10	3/8"	06	27	0,94	25	0,98
393-08	5203001630	5205001610	12	1/2"	08	28	1,1	28	1,10

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

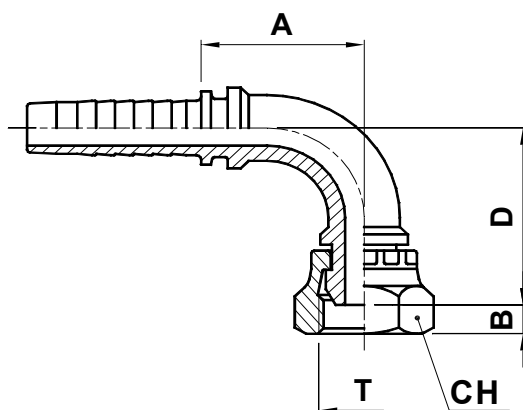


BSP FEMALE SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in
301-02-04	5203003000	5205003000	6	1/4"	04	1/8"-28	15	0,59	5,5	0,22	14	9/16"
301-04-04	5203003010	5205003010	6	1/4"	04	1/4"-19	17,8	0,70	4,2	0,17	19	3/4"
301-06-04	5203003020	5205003020	6	1/4"	04	3/8"-19	18,5	0,73	6	0,24	22	7/8"
301-04-06	5203003030	5205003030	10	3/8"	06	1/4"-19	17,8	0,70	4,2	0,17	19	3/4"
301-06-06	5203003040	5205003040	10	3/8"	06	3/8"-19	18,5	0,73	6	0,24	22	7/8"
301-08-06	5203003050	5205003050	10	3/8"	06	1/2"-14	20,5	0,81	6,5	0,26	27	1 1/16"
301-06-08	5203003060	5205003060	12	1/2"	08	3/8"-19	19	0,75	6	0,24	22	7/8"
301-08-08	5203003070	5205003070	12	1/2"	08	1/2"-14	20	0,79	7	0,28	27	1 1/16"
301-12-08	5203003080	5205003080	12	1/2"	08	3/4"-14	23,3	0,92	8,7	0,34	32	1 1/4"
301-10-10	5203003090	5205003090	16	5/8"	10	5/8"-14	18	0,71	9,5	0,37	27	1 1/16"
301-12-10	5203003100	5205003100	16	5/8"	10	3/4"-14	21,3	0,84	8,7	0,34	32	1 1/4"
301-12-12	5203003110	5205003110	19	3/4"	12	3/4"-14	21,8	0,86	8,7	0,34	32	1 1/4"
301-16-16	5203003120	5205003120	25	1"	16	1"-11	28,5	1,12	10,5	0,41	38	1 1/2"
301-20-20	5203003130	5205003130	31	1 1/4"	20	1 1/4"-11	35,9	1,41	10	0,39	50	2"
301-24-24	5203003140	5205003140	38	1 1/2"	24	1 1/2"-11	35,8	1,57	12	0,47	55	2 3/16"
301-32-32	5203003150	5205003150	51	2"	32	2"-11	39,9	0,70	16	0,63	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

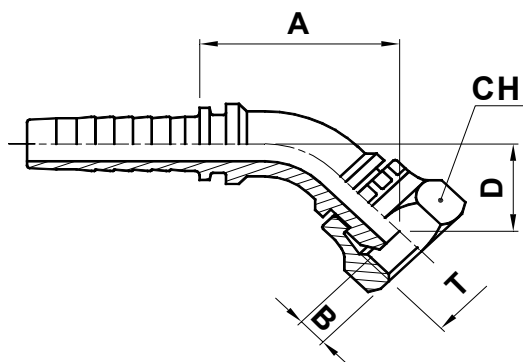


BSP FEMALE SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
303-02-04	5203003200	5205003200	6	1/4"	04	1/8"-28	31,5	12,4	5,5	0,22	28,8	1,12	14	9/16"
303-04-04	5203003210	5205003210	6	1/4"	04	1/4"-19	25,5	1,00	4,2	0,17	29	1,14	19	3/4"
303-06-04	5203003220	5205003220	6	1/4"	04	3/8"-19	28	1,10	6	0,24	29,5	1,16	22	7/8"
303-06-06	5203003240	5205003240	10	3/8"	06	3/8"-19	31,5	1,24	6	0,24	33,5	1,32	22	7/8"
303-08-06	5203003250	5205003250	10	3/8"	06	1/2"-14	30,3	1,19	6,5	0,26	31,2	1,23	27	1 1/16"
303-08-08	5203003270	5205003270	12	1/2"	08	1/2"-14	38,5	1,51	7	0,28	40,5	1,59	27	1 1/16"
303-10-10	5203003290	5205003290	16	5/8"	10	5/8"-14	54	2,13	9,5	0,37	50	1,97	27	1 1/16"
303-12-10	5203003300	5205003300	16	5/8"	10	3/4"-14	54	2,13	8,7	0,34	55	2,17	32	1 1/4"
303-12-12	5203003310	5205003310	19	3/4"	12	3/4"-14	55,5	2,19	8,7	0,34	55	2,17	32	1 1/4"
303-16-16	5203003320	5205003320	25	1"	16	1"-11	71,5	2,81	10,5	0,41	71	2,80	38	1 1/2"
303-20-20	5203003330	5205003330	31	1 1/4"	20	1 1/4"-11	85,5	3,37	10	0,39	77	3,03	50	2"
303-24-24	5203003340	5205003340	38	1 1/2"	24	1 1/2"-11	102	4,02	12	0,47	100	3,94	55	2 3/16"
303-32-32	5203003350	5205003350	51	2"	32	2"-11	132,3	5,21	16	0,63	128	5,04	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

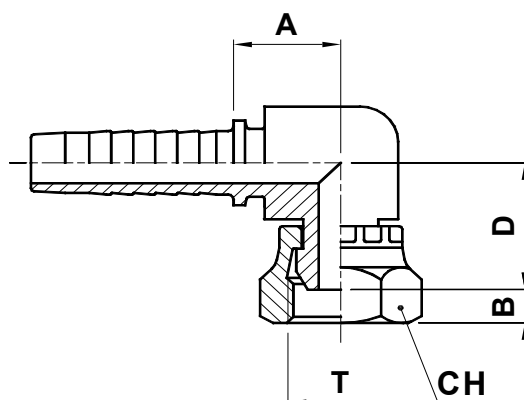


BSP FEMALE SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
304-04-04	5203003510	5205003510	6	1/4"	04	1/4"-19	34	1,34	4,2	0,17	15	0,59	19	3/4"
304-06-04	5203003520	5205003520	6	1/4"	04	3/8"-19	34,2	1,34	6	0,24	14,4	0,57	22	7/8"
304-06-06	5203003540	5205003540	10	3/8"	06	3/8"-19	41	1,61	6	0,24	17	0,67	22	7/8"
304-08-06	5203003550	5205003550	10	3/8"	06	1/2"-14	38,6	1,52	6,5	0,26	15,8	0,62	27	1 1/16"
304-08-08	5203003570	5205003570	12	1/2"	08	1/2"-14	48	1,89	7	0,28	20	0,79	27	1 1/16"
304-10-10	5203003590	5205003590	16	5/8"	10	5/8"-14	60,5	2,38	9,5	0,37	23,3	0,92	27	1 1/16"
304-12-10	5203003600	5205003600	16	5/8"	10	3/4"-14	64	2,52	8,7	0,64	26,9	1,06	32	1 1/4"
304-12-12	5203003610	5205003610	19	3/4"	12	3/4"-14	67,4	2,66	8,7	0,34	20,2	0,79	32	1 1/4"
304-16-16	5203003620	5205003620	25	1"	16	1"-11	83,6	3,29	10,5	0,41	33,8	1,33	38	1 1/2"
304-20-20	5203003630	5205003630	31	1 1/4"	20	1 1/4"-11	97	3,82	10	0,39	37,5	1,48	50	2"
304-24-24	5203003640	5205003640	38	1 1/2"	24	1 1/2"-11	119	4,69	12	0,47	49,2	1,94	55	2 3/16"
304-32-32	5203003650	5205003650	51	2"	32	2"-11	149,8	5,90	16	0,63	60	2,36	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

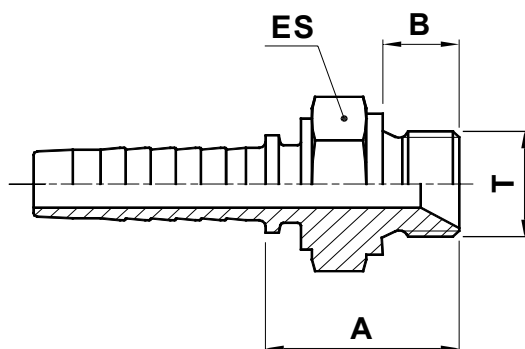


BSP FEMALE SWIVEL 90° ELBOW COMPACT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
305-04-04	5203003810	5205003810	6	1/4"	04	1/4"-19	17,5	0,69	6,5	0,26	23,5	0,93	19	3/4"
305-06-06	5203003840	5205003840	10	3/8"	06	3/8"-19	21,5	0,85	6,5	0,26	25,5	1,00	22	7/8"
305-08-08	5203003870	5205003870	12	1/2"	08	1/2"-14	25,5	1,00	9	0,35	28	1,10	27	1 1/16"
305-10-10	5203003890	5205003890	16	5/8"	10	5/8"-14	22,5	0,89	9	0,35	27	1,06	30	1 3/16"
305-12-12	5203003910	5205003910	19	3/4"	12	3/4"-14	26,5	1,04	9	0,35	36	1,42	32	1 1/4"
305-16-16	5203003920	5205003920	25	1"	16	1"-11	30,5	1,20	10,2	0,41	34,5	1,36	41	1 1/2"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

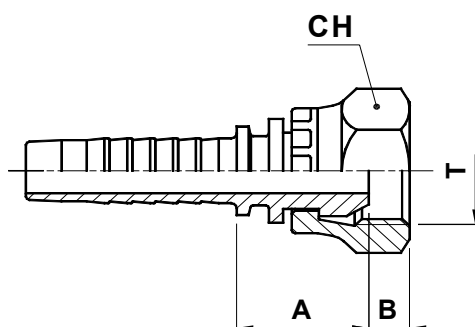


BSP MALE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in
302-02-04	5203004100	5205004100	6	1/4"	04	1/8"-28	22	0,87	8	0,31	14	9/16"
302-04-04	5203004110	5205004110	6	1/4"	04	1/4"-19	26,5	1,04	11	0,43	19	3/4"
302-06-04	5203004120	5205004120	6	1/4"	04	3/8"-19	28	1,10	12	0,47	22	7/8"
302-04-06	5203004130	5205004130	10	3/8"	06	1/4"-19	26,5	1,04	11	0,43	19	3/4"
302-06-06	5203004140	5205004140	10	3/8"	06	3/8"-19	28,5	1,12	12	0,47	22	7/8"
302-08-06	5203004150	5205004150	10	3/8"	06	1/2"-14	33,5	1,32	14	0,55	27	1 1/16"
302-06-08	5203004160	5205004160	12	1/2"	08	3/8"-19	29	1,14	12	0,47	22	7/8"
302-08-08	5203004170	5205004170	12	1/2"	08	1/2"-14	34	1,34	14	0,55	27	1 1/16"
302-12-08	5203004180	5205004180	12	1/2"	08	3/4"-14	36	1,42	16	0,63	32	1 1/4"
302-10-10	5203004190	5205004190	16	5/8"	10	5/8"-14	33,5	1,32	16	0,63	30	1 3/16"
302-12-10	5203004200	5205004200	16	5/8"	10	3/4"-14	36	1,42	16	0,63	32	1 1/4"
302-12-12	5203004210	5205004210	19	3/4"	12	3/4"-14	36,5	1,44	16	0,63	32	1 1/4"
302-16-16	5203004220	5205004220	25	1"	16	1"-11	42	1,65	19	0,75	41	1 1/2"
302-20-20	5203004230	5205004230	31	1 1/4"	20	1 1/4"-11	48	1,89	20	0,79	50	2"
302-24-24	5203004240	5205004240	38	1 1/2"	24	1 1/2"-11	50	1,97	22	0,87	55	2 3/16"
302-32-32	5203004250	5205004250	51	2"	32	2"-11	63,5	2,50	25	0,98	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

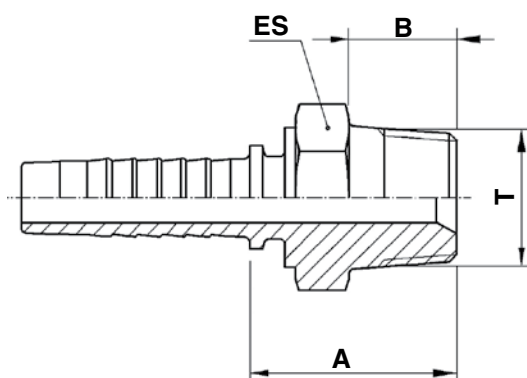


BSP FLAT FACE FEMALE SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in
920-06-06	5203004740	5205004740	10	3/8"	06	3/8"-19	16,5	0,61	9	0,35	22	7/8"
920-08-06	5203004750	5205004750	10	3/8"	06	1/2"-14	16	0,63	10,5	0,41	27	1 1/16"
920-08-08	5203004770	5205004770	12	1/2"	08	1/2"-14	16,5	0,65	10,5	0,41	27	1 1/16"
920-12-12	5203004810	5205004810	19	3/4"	12	3/4"-14	19	0,75	11,5	0,45	32	1 1/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

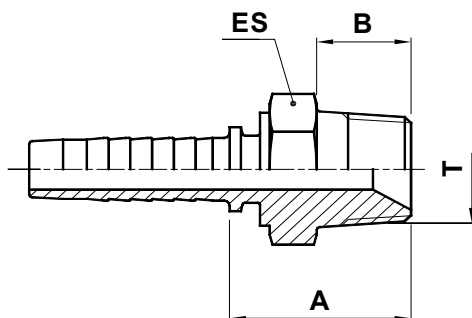


BSP MALE TAPER STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		ES 	
			mm	Inch	Size		mm	in	mm	in	mm	in
310-02-04	5203005000	5205005000	6	1/4"	04	1/8"-28	25,5	0,89	12	0,47	12	1/2"
310-04-04	5203005010	5205005010	6	1/4"	04	1/4"-19	26,4	1,04	14	0,55	14	9/16"
310-06-04	5203005020	5205005020	6	1/4"	04	3/8"-19	29	1,14	15	0,59	19	3/4"
310-06-06	5203005040	5205005040	10	3/8"	06	3/8"-19	29	1,14	15	0,59	19	3/4"
310-08-06	5203005050	5205005050	10	3/8"	06	1/2"-14	32	1,26	18	0,71	22	7/8"
310-06-08	5203005060	5205005060	12	1/2"	08	3/8"-19	27,5	1,08	15	0,59	19	3/4"
310-08-08	5203005070	5205005070	12	1/2"	08	1/2"-14	32,5	1,28	18	0,71	22	7/8"
310-10-10	5203005090	5205005090	16	5/8"	10	5/8"-14	36	1,42	19	0,75	24	15/16"
310-12-10	5203005100	5205005100	16	5/8"	10	3/4"-14	47	1,85	20	0,79	27	1 1/16"
310-12-12	5203005110	5205005110	19	3/4"	12	3/4"-14	42,5	1,67	20	0,79	27	1 1/16"
310-16-16	5203005120	5205005120	25	1"	16	1"-11	47	1,85	23	0,91	36	1 7/16"
310-20-20	5203005130	5205005130	31	1 1/4"	20	1 1/4"-11	50	1,97	25	0,98	46	1 13/16"
310-24-24	5203005140	5205005140	38	1 1/2"	24	1 1/2"-11	53	2,10	28	1,10	50	2"
310-32-32	5203005150	5205005150	51	2"	32	2"-11	60	2,36	28	1,10	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

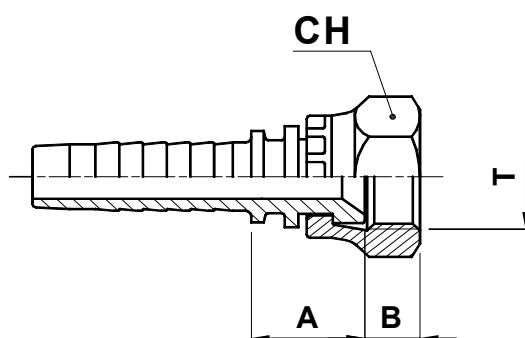


NPT MALE STRAIGHT WITH 60° CONE

Part No	ID Code CS	ID Code SS	Hose			T	A		B		ES 	
			mm	Inch	Size		mm	in	mm	in	mm	in
311-02-04	5203005600	5205005600	6	1/4"	04	1/8"-27	22,1	0,97	9,6	0,38	14	9/16"
311-04-04	5203005610	5205005610	6	1/4"	04	1/4"-27	26,5	1,04	14	0,55	14	9/16"
311-06-04	5203005620	5205005620	6	1/4"	04	3/8"-18	28	1,10	14	0,55	19	3/4"
311-04-06	5203005630	5205005630	10	3/8"	06	1/4"-27	26,5	1,04	14	0,55	17	11/16"
311-06-06	5203005640	5205005640	10	3/8"	06	3/8"-18	28	1,10	14	0,55	19	3/4"
311-08-06	5203005650	5205005650	10	3/8"	06	1/2"-14	28,5	1,12	14	0,55	19	3/4"
311-06-08	5203005660	5205005660	12	1/2"	08	3/8"-18	33	1,30	19	0,75	22	7/8"
311-08-08	5203005670	5205005670	12	1/2"	08	1/2"-14	33,5	1,32	19	0,75	22	7/8"
311-12-08	5203005680	5205005680	12	1/2"	08	3/4"-14	34	1,34	19	0,75	27	1 1/16"
311-12-10	5203005700	5205005700	16	5/8"	10	3/4"-14	41	1,61	19	0,75	27	1 1/16"
311-12-12	5203005710	5205005710	19	3/4"	12	3/4"-14	41,5	1,63	19	0,75	27	1 1/16"
311-16-16	5203005720	5205005720	25	1"	16	1"-11,5	47,5	1,87	24	0,94	36	1 7/16"
311-20-20	5203005730	5205005730	31	1 1/4"	20	1 1/4"-11,5	63	2,48	24,5	0,96	46	1 13/16"
311-24-24	5203005740	5205005740	38	1 1/2"	24	1 1/2"-11,5	54	2,52	25,5	1,00	50	2"
311-32-32	5203005750	5205005750	51	2"	32	2"-11,5	79	3,11	26	1,02	65	2 9/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

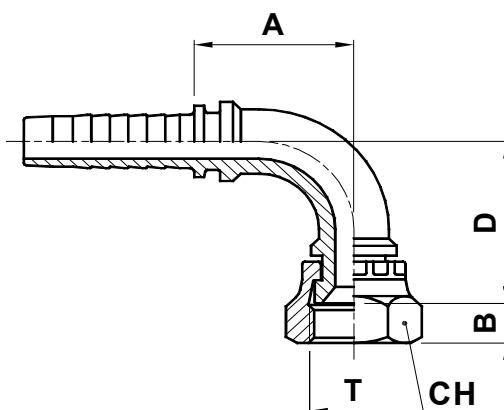


JIC FEMAL SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in
313-07-04	5203006000	5205006000	6	1/4"	04	7/16"-20	16	0,63	9,7	0,38	14	9/16"
313-08-04	5203006010	5205006010	6	1/4"	04	1/2"-20	15,5	0,61	9,5	0,37	17	11/16"
313-09-04	5203006020	5205006020	6	1/4"	04	9/16"-18	14,9	0,59	9,5	0,37	19	3/4"
313-09-06	5203006030	5205006030	10	3/8"	06	9/16"-18	16	0,63	9,5	0,37	19	3/4"
313-12-06	5203006040	5205006040	10	3/8"	06	3/4-16	18,5	0,73	10,7	0,42	22	7/8"
313-12-08	5203006050	5205006050	12	1/2"	08	3/4-16	18,5	0,73	10,7	0,42	22	7/8"
313-14-08	5203006060	5205006060	12	1/2"	08	7/8"-14	20,5	0,81	12,5	0,49	27	1 1/16"
313-14-10	5203006070	5205006070	16	5/8"	10	7/8"-14	21,2	0,84	12,7	0,50	27	1 1/16"
313-17-10	5203006080	5205006080	16	5/8"	10	1 1/16"-12	22,2	0,87	14,3	0,56	32	1 1/4"
313-17-12	5203006090	5205006090	19	3/4"	12	1 1/16"-12	21	0,83	13,8	0,54	32	1 1/4"
313-21-12	5203006110	5205006110	19	3/4"	12	1 5/16"-12	22	0,87	16	0,63	38	1 1/2"
313-21-16	5203006120	5205006120	25	1"	16	1 5/16"-12	23	0,91	16	0,63	38	1 1/2"
313-26-16	5203006130	5205006130	25	1"	16	1 5/8"-12	29,6	1,17	16	0,63	50	2"
313-26-20	5203006140	5205006140	31	1 1/4"	20	1 5/8"-12	29,1	1,15	16	0,63	50	2"
313-30-24	5203006150	5205006150	38	1 1/2"	24	1 7/8"-12	31,4	1,24	18,5	0,73	55	2 3/16"
313-40-32	5203006160	5205006160	51	2"	32	2 1/2"-12	38	1,50	24	0,94	75	

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

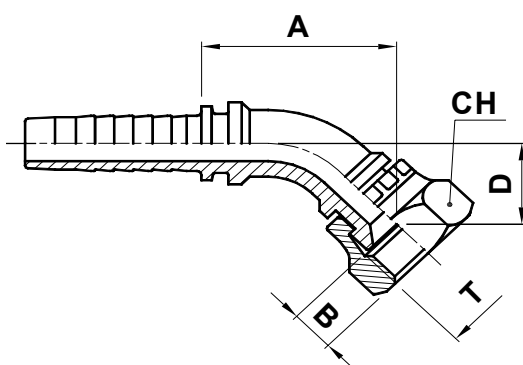


JIC FEMALE SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
316-07-04	5203006300	5205006300	6	1/4"	04	7/16"-20	25,3	1,00	8,7	0,34	24,5	0,96	14	9/16"
316-08-04	5203006310	5205006310	6	1/4"	04	1/2"-20	30,8	1,21	9,5	0,37	30	1,18	17	11/16"
316-09-04	5203006320	5205006320	6	1/4"	04	9/16"-18	28,2	1,11	9,5	0,37	28	1,10	19	3/4"
316-09-06	5203006330	5205006330	10	3/8"	06	9/16"-18	27,8	1,09	9,5	0,37	23	0,91	19	3/4"
316-12-06	5203006340	5205006340	10	3/8"	06	3/4"-16	30,3	1,19	10,7	0,42	30,2	1,19	22	7/8"
316-12-08	5203006350	5205006350	12	1/2"	08	3/4"-16	39,5	1,56	10,7	0,42	30	1,18	22	7/8"
316-14-08	5203006360	5205006360	12	1/2"	08	7/8"-14	36,8	1,45	12,5	0,49	40,5	1,59	27	1 1/16"
316-14-10	5203006370	5205006370	16	5/8"	10	7/8"-14	54	2,13	13,7	0,50	52	2,05	27	1 1/16"
316-17-10	5203006380	5205006380	16	5/8"	10	1 1/16"-12	54	2,13	14,3	0,56	55	2,17	32	1 1/4"
316-17-12	5203006390	5205006390	19	3/4"	12	1 1/16"-12	55,5	2,19	13,8	0,54	55	2,17	32	1 1/4"
316-21-12	5203006410	5205006410	19	3/4"	12	1 5/16"-12	55,5	2,19	16	0,63	60	2,36	38	1 1/2"
316-21-16	5203006420	5205006420	25	1"	16	1 5/16"-12	71,5	2,81	16	0,63	71	2,80	38	1 1/2"
316-26-16	5203006430	5205006430	25	1"	16	1 5/8"-12	79,5	3,13	16	0,63	79,5	3,13	50	2"
316-26-20	5203006440	5205006440	31	1 1/4"	20	1 5/8"-12	85,5	3,37	16	0,63	77	3,03	50	2"
316-30-24	5203006450	5205006450	38	1 1/2"	24	1 7/8"-12	102	7,02	18,5	0,73	100	3,94	55	2 3/16"
316-40-32	5203006460	5205006460	51	2"	32	2 1/2"-12	130,5	5,14	24	0,94	140	5,51	75	

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

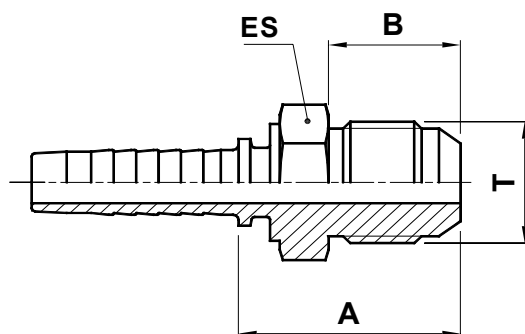


JIC FEMALE SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
317-07-04	5203006600	5205006600	6	1/4"	04	7/16"-20	34,3	1,35	8,7	0,34	14,6	0,57	14	9/16"
317-08-04	5203006610	5205006610	6	1/4"	04	1/2"-20	34,5	1,36	9,5	0,37	14,8	0,58	17	11/16"
317-09-04	5203006620	5205006620	6	1/4"	04	9/16"-18	36	1,42	9,5	0,37	13	0,51	19	3/4"
317-09-06	5203006630	5205006630	10	3/8"	06	9/16"-18	41,9	1,65	9,5	0,37	12,1	0,48	19	3/4"
317-12-06	5203006640	5205006640	10	3/8"	06	3/4"-16	51,1	2,01	10,7	0,42	15,1	0,59	22	7/8"
317-12-08	5203006650	5205006650	12	1/2"	08	3/4"-16	40,7	1,60	10,7	0,42	13,8	0,54	22	7/8"
317-14-08	5203006660	5205006660	12	1/2"	08	7/8"-14	50,5	1,99	12,5	0,49	21,2	0,83	27	1 1/16"
317-14-10	5203006670	5205006670	16	5/8"	10	7/8"-14	61,5	2,42	12,7	0,50	24,8	0,97	27	1 1/16"
317-17-10	5203006680	5205006680	16	5/8"	10	1 1/16"-12	64	2,52	14,3	0,56	26,5	1,04	32	1 1/4"
317-17-12	5203006690	5205006690	19	3/4"	12	1 1/16"-12	67,4	2,66	14,3	0,56	26,9	1,06	32	1 1/4"
317-21-12	5203006710	5205006710	19	3/4"	12	1 5/16"-12	71,6	2,82	16	0,63	30	1,18	38	1 1/2"
317-21-16	5203006720	5205006720	25	1"	16	1 5/16"-12	83,5	3,29	16	0,63	32	1,26	38	1 1/2"
317-26-20	5203006740	5205006740	31	1 1/4"	20	1 5/8"-12	97	3,82	16	0,63	37,5	1,48	50	2"
317-30-24	5203006750	5205006750	38	1 1/2"	24	1 7/8"-12	119	4,69	18,5	0,73	49,2	1,94	55	2 3/16"
317-40-32	5203006760	5205006760	51	2"	32	2 1/2"-12	152,6	6,01	24	0,94	68,8	2,71	75	-

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

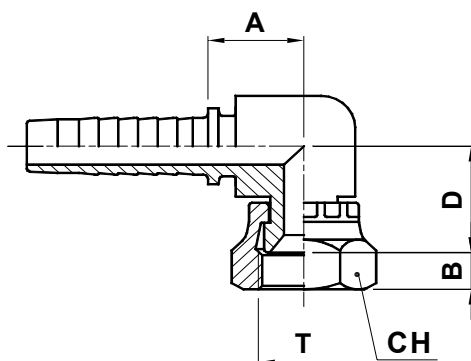


JIC MALE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		ES 	
			mm	Inch	Size		mm	in	mm	in	mm	in
314-07-04	5203006900	5205006900	6	1/4"	04	7/16"-20	26,5	1,04	14	0,55	14	9/16"
314-08-04	5203006910	5205006910	6	1/4"	04	1/2"-20	26,5	1,04	14	0,55	14	9/16"
314-09-04	5203006920	5205006920	6	1/4"	04	9/16"-18	27,5	1,08	14	0,55	17	11/16"
314-09-06	5203006930	5205006930	10	3/8"	06	9/16"-18	26,5	1,04	14	0,55	14	9/16"
314-12-06	5203006940	5205006940	10	3/8"	06	3/4-16	27,5	1,08	14	0,55	17	11/16"
314-12-08	5203006950	5205006950	12	1/2"	08	3/4-16	30,7	1,21	16,7	0,66	19	3/4"
314-14-08	5203006960	5205006960	12	1/2"	08	7/8"-14	35	1,38	19,3	0,76	24	15/16"
314-14-10	5203006970	5205006970	16	5/8"	10	7/8"-14	35,3	1,39	19,3	0,76	24	15/16"
314-17-10	5203006980	5205006980	16	5/8"	10	1 1/16"-12	38,9	1,53	21,9	0,86	27	1 1/16"
314-17-12	5203006990	5205006990	19	3/4"	12	1 1/16"-12	39,4	1,55	21,9	0,86	27	1 1/16"
314-19-12	5203007000	5205007000	19	3/4"	12	1 3/16"-12	40,1	1,58	22,6	0,89	32	1 1/4"
314-21-12	5203007010	5205007010	19	3/4"	12	1 5/16"-12	45,6	1,80	23,1	0,91	36	1 7/16"
314-21-16	5203007020	5205007020	25	1"	16	1 5/16"-12	47,1	1,85	23,1	0,91	36	1 7/16"
314-26-16	5203007030	5205007030	25	1"	16	1 5/8"-12	58,8	2,31	24,3	0,96	46	1 13/16"
314-26-20	5203007040	5205007040	31	1 1/4"	20	1 5/8"-12	62,8	2,47	24,3	0,96	46	1 13/16"
314-30-24	5203007050	5205007050	38	1 1/2"	24	1 7/8"-12	66	2,60	27,5	1,08	50	2"
314-40-32	5203007060	5205007060	51	2"	32	2 1/2"-12	86,9	3,42	33,9	1,33	65	2 9/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

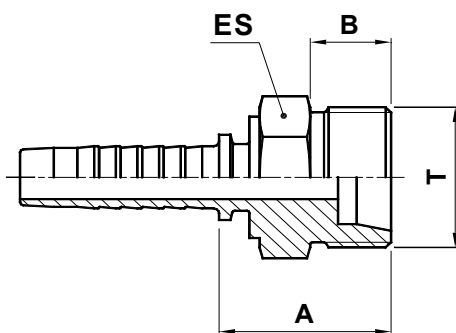


JIC FEMALE SWIVEL 90° ELBOW COMPACT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
315-07-04	5203007200	5205007200	6	1/4"	04	7/16"-20	17,5	0,69	8,5	0,33	20,5	0,81	14	9/16"
315-09-04	5203007220	5205007220	6	1/4"	04	9/16"-18	17,5	0,69	8,5	0,33	25,5	1,00	19	3/4"
315-09-06	5203007230	5205007230	10	3/8"	06	9/16"-18	21,5	0,85	8,5	0,33	25,5	1,00	19	3/4"
315-12-06	5203007240	5205007240	10	3/8"	06	3/4"-16	21,5	0,85	10,5	0,41	26,5	1,04	22	7/8"
315-12-08	5203007250	5205007250	12	1/2"	08	3/4"-16	25,5	1,00	9,5	0,37	29,5	1,16	22	7/8"
315-14-08	5203007260	5205007260	12	1/2"	08	7/8"-14	25,5	1,00	13	0,51	28	1,10	27	1 1/16"
315-14-10	5203007270	5205007270	16	5/8"	10	7/8"-14	25,5	1,00	13	0,51	28	1,10	27	1 1/16"
315-17-10	5203007280	5205007280	16	5/8"	10	1 1/16"-12	25,5	1,00	14,5	0,57	28	1,10	32	1 1/4"
315-17-12	5203007290	5205007290	19	3/4"	12	1 1/16"-12	26,5	1,04	14,5	0,57	30,5	1,20	32	1 1/4"
315-21-16	5203007320	5205007320	25	1"	16	1 5/16"-12	30,5	1,20	14,5	0,57	33,5	1,32	38	1 1/2"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

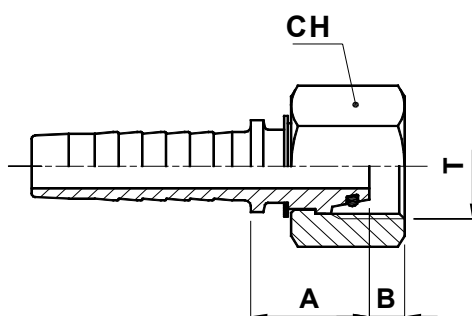


METRIC L-SERIES MALE WITH 24° SEAT

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		ES 	
			mm	Inch	Size			mm	in	mm	in	mm	in
320-06-04	5203008000	5205008000	6	1/4"	04	12X1,5	L6	22,5	0,89	10	0,39	14	9/16"
320-08-04	5203008010	5205008010	6	1/4"	04	14X1,5	L8	22,5	0,89	10	0,39	14	9/16"
320-10-04	5203008020	5205008020	6	1/4"	04	16X1,5	L10	24,5	0,96	11	0,43	17	11/16"
320-10-06	5203008030	5205008030	10	3/8"	06	16X1,5	L10	24,5	0,96	11	0,43	17	11/16"
320-12-06	5203008040	5205008040	10	3/8"	06	18X1,5	L12	25	0,98	11	0,43	19	3/4"
320-15-08	5203008050	5205008050	12	1/2"	08	22X1,5	L15	26	1,02	12	0,47	22	7/8"
320-18-08	5203008060	5205008060	12	1/2"	08	26X1,5	L18	29	1,14	12	0,47	27	1 1/16"
320-18-10	5203008070	5205008070	16	5/8"	10	26X1,5	L18	29	1,14	12	0,47	27	1 1/16"
320-22-12	5203008080	5205008080	19	3/4"	12	30X2	L22	31,5	1,24	14	0,55	30	1 3/16"
320-28-16	5203008090	5205008090	25	1"	16	36X2	L28	34	1,34	14	0,55	36	1 7/16"
320-35-20	5203008100	5205008100	31	1 1/4"	20	45X2	L35	41	1,61	16	0,63	46	1 13/16"
320-42-24	5203008110	5205008110	38	1 1/2"	24	52X2	L42	44	1,73	16	0,63	55	2 3/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

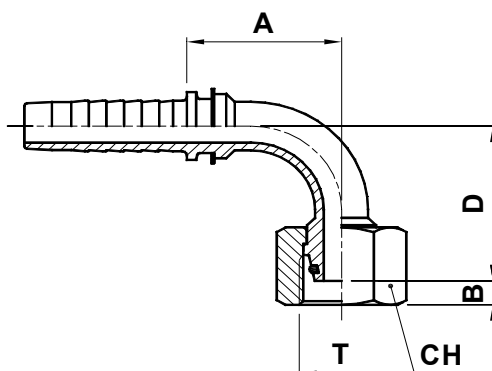


METRIC DKO L-SERIES SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		CH 	
			mm	Inch	Size			mm	in	mm	in	mm	in
333-06-04	5203008300	5205008300	6	1/4"	04	12X1,5	L6	21	0,83	2,6	0,10	16	9/16"
333-08-04	5203008310	5205008310	6	1/4"	04	14X1,5	L8	25	0,98	1,5	0,06	17	11/16"
333-10-04	5203008320	5205008320	6	1/4"	04	16X1,5	L10	27,5	1,08	1,5	0,06	19	3/4"
333-10-06	5203008330	5205008330	10	3/8"	06	16X1,5	L10	23	0,91	3,5	0,14	19	3/4"
333-12-06	5203008340	5205008340	10	3/8"	06	18X1,5	L12	26	1,02	1,5	0,06	22	7/8"
333-15-08	5203008350	5205008350	12	1/2"	08	22X1,5	L15	28,5	1,12	2,5	0,01	27	1 1/16"
333-18-08	5203008360	5205008360	12	1/2"	08	26X1,5	L18	30	1,18	2	0,08	32	1 1/4"
333-18-10	5203008370	5205008370	16	5/8"	10	26X1,5	L18	29	1,14	2	0,08	32	1 1/4"
333-22-12	5203008380	5205008380	19	3/4"	12	30X2	L22	27	1,06	3,5	0,14	36	1 7/16"
333-28-16	5203008390	5205008390	25	1"	16	36X2	L28	32	1,26	3,5	0,14	41	1 1/2"
333-35-20	5203008400	5205008400	31	1 1/4"	20	45X2	L35	39,5	1,56	2	0,08	50	2"
333-42-24	5203008410	5205008410	38	1 1/2"	24	52X2	L42	39,5	1,56	3	0,12	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

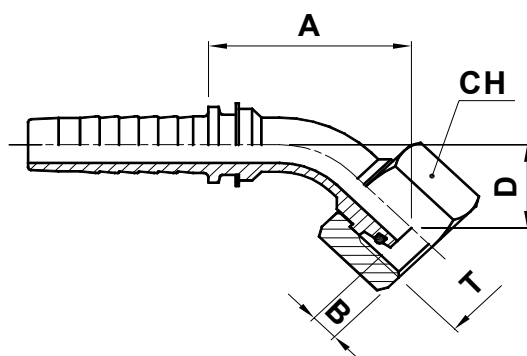


METRIC DKO L-SERIES SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		D		CH	
			mm	Inch	Size			mm	in	mm	in	mm	in	mm	in
334-06-04	5203008600	5205008600	6	1/4"	04	12X1,5	L6	30,7	1,21	2,6	0,10	30	1,18	16	9/16"
334-08-04	5203008610	5205008610	6	1/4"	04	14X1,5	L8	28	1,10	1,5	0,06	31	1,22	17	11/16"
334-10-04	5203008620	5205008620	6	1/4"	04	16X1,5	L10	28,2	1,11	1,5	0,06	32,5	1,28	19	3/4"
334-10-06	5203008630	5205008630	10	3/8"	06	16X1,5	L10	34	1,34	3,5	0,14	39,5	1,56	19	3/4"
334-12-06	5203008640	5205008640	10	3/8"	06	18X1,5	L12	30,5	1,20	1,5	0,06	36	1,42	22	7/8"
334-15-08	5203008650	5205008650	12	1/2"	08	22X1,5	L15	38,2	1,50	2,5	0,10	40	1,57	27	1 1/16"
334-18-10	5203008670	5205008670	16	5/8"	10	26X1,5	L18	54	2,13	2	0,08	53	2,09	32	1 1/4"
334-22-12	5203008680	5205008680	19	3/4"	12	30X2	L22	55,5	2,19	3,5	0,14	57	2,24	36	1 7/16"
334-28-16	5203008690	5205008690	25	1"	16	36X2	L28	74	2,91	3,5	0,14	69	2,72	41	1 1/2"
334-35-20	5203008700	5205008700	31	1 1/4"	20	45X2	L35	85,5	3,37	2	0,08	83	3,27	50	2"
334-42-24	5203008710	5205008710	38	1 1/2"	24	52X2	L42	103	4,05	3	0,12	95,5	3,76	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

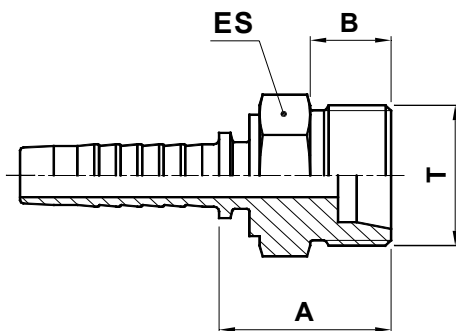


METRIC DKO L-SERIES SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		D		CH	
			mm	Inch	Size			mm	in	mm	in	mm	in	mm	in
335-06-04	5203008900	5205008900	6	1/4"	04	12X1,5	L6	39	1,54	2,6	0,10	15	0,59	16	9/16"
335-08-04	5203008910	5205008910	6	1/4"	04	14X1,5	L8	35,2	1,39	1,5	0,06	15,5	0,61	17	11/16"
335-10-04	5203008920	5205008920	6	1/4"	04	16X1,5	L10	36,3	1,43	1,5	0,06	16,6	0,65	19	3/4"
335-10-06	5203008930	5205008930	10	3/8"	06	16X1,5	L10	54,8	2,16	3,5	0,14	20,5	0,81	19	3/4"
335-12-06	5203008940	5205008940	10	3/8"	06	18X1,5	L12	42,6	1,68	1,5	0,06	19,2	0,76	22	7/8"
335-15-08	5203008950	5205008950	12	1/2"	08	22X1,5	L15	48,2	1,90	2,5	0,10	20,8	0,82	27	1 1/16"
335-18-10	5203008970	5205008970	16	5/8"	10	26X1,5	L18	62,5	2,46	2	0,08	25,5	1,00	32	1 1/4"
335-22-12	5203008980	5205008980	19	3/4"	12	30X2	L22	78	3,07	3,5	0,14	32	1,26	36	1 7/16"
335-28-16	5203008990	5205008990	25	1"	16	36X2	L28	90,5	3,56	3,5	0,14	35,5	1,40	41	1 1/2"
335-35-20	5203009000	5205009000	31	1 1/4"	20	45X2	L35	102,5	4,04	2	0,08	42	1,65	50	2"
335-42-24	5203009010	5205009010	38	1 1/2"	24	52X2	L42	127,1	5,00	3	0,12	47,3	1,86	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

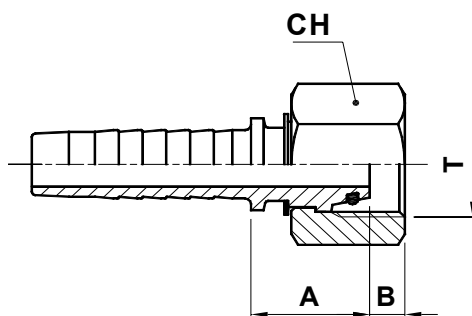


METRIC S-SERIES MALE WITH 24° SEAT

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		ES 	
			mm	Inch	Size			mm	in	mm	in	mm	in
323-08-04	5203010000	5205010000	6	1/4"	04	16X1,5	S8	26	1,02	12	0,47	17	11/16"
323-10-04	5203010010	5205010010	6	1/4"	04	18X1,5	S10	26	1,02	12	0,47	19	3/4"
323-10-06	5203010020	5205010020	10	3/8"	06	18X1,5	S10	26	1,02	12	0,47	19	3/4"
323-12-06	5203010030	5205010030	10	3/8"	06	20X1,5	S12	26	1,02	12	0,47	22	7/8"
323-14-06	5203010040	5205010040	10	3/8"	06	22X1,5	S14	28	1,10	14	0,55	22	7/8"
323-16-06	5203010050	5205010050	10	3/8"	06	24X1,5	S16	28	1,10	14	0,55	24	15/16"
323-16-08	5203010060	5205010060	12	1/2"	08	24X1,5	S16	28,5	1,12	14	0,55	24	15/16"
323-20-10	5203010070	5205010070	16	5/8"	10	30X2	S20	33	1,30	16	0,63	30	1 3/16"
323-20-12	5203010080	5205010080	19	3/4"	12	30X2	S20	33,5	1,32	16	0,63	30	1 3/16"
323-25-12	5203010090	5205010090	19	3/4"	12	36X2	S25	36,5	1,44	18	0,71	36	1 7/16"
323-25-16	5203010100	5205010100	25	1"	16	36X2	S25	38	1,50	18	0,71	36	1 7/16"
323-30-16	5203010110	5205010110	25	1"	16	42X2	S30	41	1,61	20	0,79	46	1 13/16"
323-38-20	5203010120	5205010120	31	1 1/4"	20	52X2	S38	50	1,97	22	0,87	55	2 3/16"
323-38-24	5203010130	5205010130	38	1 1/2"	24	52X2	S38	50	1,97	22	0,87	55	2 3/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

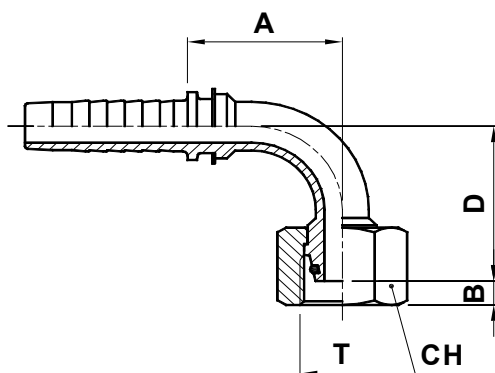


METRIC DKO S-SERIES SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		CH 	
			mm	Inch	Size			mm	in	mm	in	mm	in
336-08-04	5203010300	5205010300	6	1/4"	04	16X1,5	S8	26,5	1,04	2,5	0,10	19	3/4"
336-10-04	5203010310	5205010310	6	1/4"	04	18X1,5	S10	29	1,14	2	0,08	22	7/8"
336-10-06	5203010320	5205010320	10	3/8"	06	18X1,5	S10	24	0,94	2	0,08	22	7/8"
336-12-06	5203010330	5205010330	10	3/8"	06	20X1,5	S12	26,5	1,04	2	0,08	24	15/16"
336-14-06	5203010340	5205010340	10	3/8"	06	22X1,5	S14	29,5	1,16	4	0,16	27	1 1/16"
336-16-08	5203010360	5205010360	12	1/2"	08	24X1,5	S16	33	1,30	3	0,12	30	1 3/16"
336-20-10	5203010370	5205010370	16	5/8"	10	30X2	S20	34	1,34	3,5	0,14	36	1 7/16"
336-20-12	5203010380	5205010380	19	3/4"	12	30X2	S20	34,5	1,36	3,5	0,14	36	1 7/16"
336-25-12	5203010390	5205010390	19	3/4"	12	36X2	S25	39,5	1,56	3	0,12	46	1 13/16"
336-25-16	5203010400	5205010400	25	1"	16	36X2	S25	42	1,65	3	0,12	46	1 13/16"
336-30-16	5203010410	5205010410	25	1"	16	42X2	S30	43	1,69	6	0,24	50	2"
336-38-20	5203010420	5205010420	31	1 1/4"	20	52X2	S38	48	1,89	6,5	0,26	60	2 3/8"
336-38-24	5203010430	5205010430	38	1 1/2"	24	52X2	S38	48	1,89	6,5	0,26	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

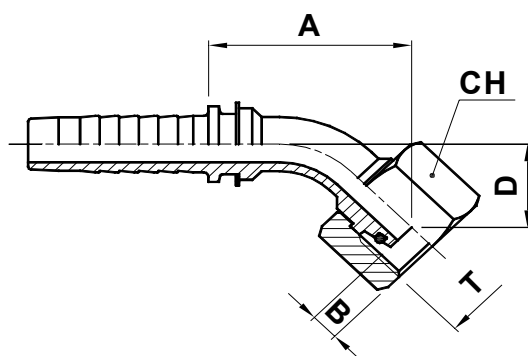


METRIC DKO S-SERIES SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		D		CH	
			mm	Inch	Size			mm	in	mm	in	mm	in	mm	in
337-08-04	5203010600	5205010600	6	1/4"	04	16X1,5	S8	28,2	1,11	2,5	0,10	32,5	1,28	19	3/4"
337-10-04	5203010610	5205010610	6	1/4"	04	18X1,5	S10	28,2	1,11	2	0,08	34,5	1,36	22	7/8"
337-10-06	5203010620	5205010620	10	3/8"	06	18X1,5	S10	40	1,57	2	0,08	44	1,73	22	7/8"
337-12-06	5203010630	5205010630	10	3/8"	06	20X1,5	S12	30,5	1,20	2	0,08	36	1,42	24	15/16"
337-14-06	5203010640	5205010640	10	3/8"	06	22X1,5	S14	38,5	1,52	4	0,16	46	1,81	27	1 1/16"
337-16-08	5203010660	5205010660	12	1/2"	08	24X1,5	S16	38,2	1,50	3	0,12	42,5	1,67	30	1 3/16"
337-20-10	5203010670	5205010670	16	5/8"	10	30X2	S20	55,5	2,19	3,5	0,14	57,5	2,26	36	1 7/16"
337-20-12	5203010680	5205010680	19	3/4"	12	30X2	S20	55,5	2,19	3,5	0,14	57	2,24	36	1 7/16"
337-25-12	5203010690	5205010690	19	3/4"	12	36X2	S25	55,5	2,19	3	0,12	60	2,36	46	1 13/16"
337-25-16	5203010700	5205010700	25	1"	16	36X2	S25	74	2,91	3	0,12	71,5	2,81	46	1 13/16"
337-30-16	5203010710	5205010710	25	1"	16	42X2	S30	74	2,91	6	0,24	75	2,95	50	2"
337-38-20	5203010720	5205010720	31	1 1/4"	20	52X2	S38	102	4,02	6,5	0,26	95,6	3,76	60	2 3/8"
337-38-24	5203010730	5205010730	38	1 1/2"	24	52X2	S38	114	4,49	6,5	0,26	106	4,17	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

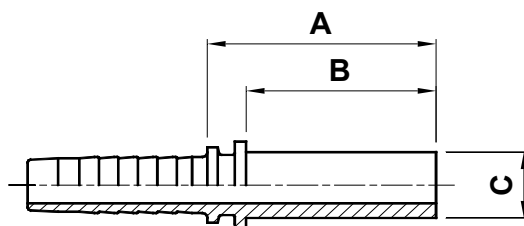


METRIC DKO S-SERIES SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		D		CH 	
			mm	Inch	Size			mm	in	mm	in	mm	in	mm	in
338-08-04	5203010900	5205010900	6	1/4"	04	16X1,5	S8	36,3	1,43	2,5	0,10	16,6	0,65	19	3/4"
338-10-04	5203010910	5205010910	6	1/4"	04	18X1,5	S10	37,7	1,48	2	0,08	18	0,71	22	7/8"
338-10-06	5203010920	5205010920	10	3/8"	06	18X1,5	S10	42,2	1,66	1,5	0,06	19,2	0,76	22	7/8"
338-12-06	5203010930	5205010930	10	3/8"	06	20X1,5	S12	42	1,65	2	0,08	19,2	0,76	24	15/16"
338-14-06	5203010940	5205010940	10	3/8"	06	22X1,5	S14	49,5	1,95	4	0,16	23,4	0,92	27	1 1/16"
338-16-08	5203010960	5205010960	12	1/2"	08	24X1,5	S16	49,9	1,97	3	0,12	22,6	0,89	30	1 3/16"
338-20-10	5203010970	5205010970	16	5/8"	10	30X2	S20	66,6	2,62	3,5	0,14	28,6	1,13	36	1 7/16"
338-20-12	5203010980	5205010980	19	3/4"	12	30X2	S20	70,5	2,78	3,5	0,14	28,6	1,13	36	1 7/16"
338-25-12	5203010990	5205010990	19	3/4"	12	36X2	S25	84	3,31	3	0,12	35	1,38	46	1 13/16"
338-25-16	5203011000	5205011000	25	1"	16	36X2	S25	87	3,43	3	0,12	35	1,38	46	1 13/16"
338-30-16	5203011010	5205011010	25	1"	16	42X2	S30	89	3,50	6	0,24	37	1,45	50	2"
338-38-20	5203011020	5205011020	31	1 1/4"	20	52X2	S38	121,3	4,78	6,5	0,26	45,7	1,80	60	2 3/8"
338-38-24	5203011030	5205011030	38	1 1/2"	24	52X2	S38	127,6	5,02	6,5	0,26	48,3	1,90	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

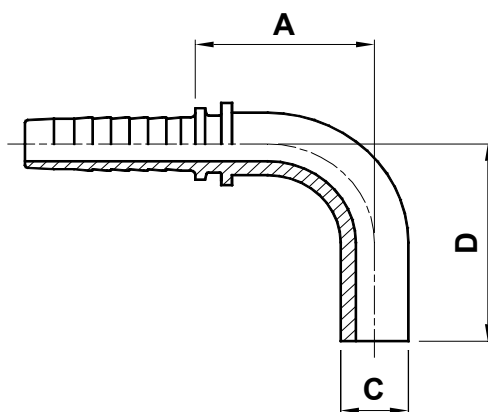


METRIC STANDPIPE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			C	A		B	
			mm	Inch	Size		mm	in	mm	in
339-06-04	5203017000	5205017000	6	1/4"	04	6	28	1,10	22	0,87
339-08-04	5203017010	5205017010	6	1/4"	04	8	30,5	1,20	24	0,94
339-10-04	5203017020	5205017020	6	1/4"	04	10	33	1,30	27	1,06
339-10-06	5203017030	5205017030	10	3/8"	06	10	30,5	1,20	24	0,94
339-12-06	5203017040	5205017040	10	3/8"	06	12	30,5	1,20	24	0,94
339-12-08	5203017070	5205017070	12	1/2"	08	12	31	1,22	24	0,94
339-15-08	5203017080	5205017080	12	1/2"	08	15	32	1,28	25	0,98
339-16-08	5203017090	5205017090	12	1/2"	08	16	37	1,46	30	1,18
339-18-10	5203017110	5205017110	16	5/8"	10	18	37	1,34	27	1,06
339-20-10	5203017120	5205017120	16	5/8"	10	20	44	1,73	37	1,46
339-20-12	5203017130	5205017130	19	3/4"	12	20	44,5	1,75	36	1,42
339-22-12	5203017140	5205017140	19	3/4"	12	22	36,5	1,44	28	1,10
339-25-12	5203017150	5205017150	19	3/4"	12	25	49,5	1,95	41	1,61
339-25-16	5203017160	5205017160	25	1"	16	25	51	2,01	41	1,61
339-28-16	5203017170	5205017170	25	1"	16	28	40	1,57	30	1,18
339-30-16	5203017180	5205017180	25	1"	16	30	54	2,13	44	1,73

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

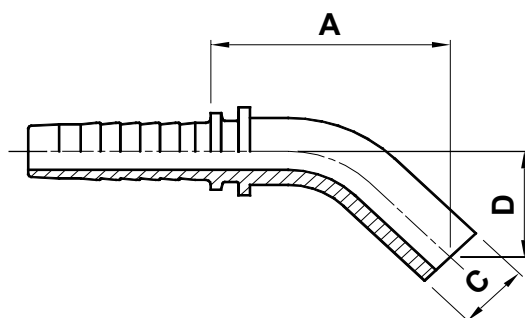


METRIC STANDPIPE 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			C	A		D	
			mm	Inch	Size		mm	in	mm	in
326-06-04	5203017500	5205017500	6	1/4"	04	6	25	0,98	34	1,34
326-08-04	5203017510	5205017510	6	1/4"	04	8	26	1,02	39	1,54
326-10-04	5203017520	5205017520	6	1/4"	04	10	27,5	1,08	36	1,42
326-10-06	5203017530	5205017530	10	3/8"	06	10	37	1,46	50	1,97
326-12-06	5203017540	5205017540	10	3/8"	06	12	32,5	1,28	47	1,85
326-15-06	5203017560	5205017560	10	3/8"	06	15	43,5	1,71	54	2,13
326-15-08	5203017580	5205017580	12	1/2"	08	15	43,5	1,71	54	2,13
326-16-08	5203017590	5205017590	12	1/2"	08	16	42,5	1,67	53,5	2,11
326-18-10	5203017610	5205017610	16	5/8"	10	18	58,5	2,30	63	2,48
326-20-10	5203017620	5205017620	16	5/8"	10	20	59,5	2,34	68	2,68
326-20-12	5203017630	5205017630	19	3/4"	12	20	55,5	2,19	77	3,03
326-22-12	5203017640	5205017640	19	3/4"	12	22	53	2,09	70,5	2,78
326-25-12	5203017650	5205017650	19	3/4"	12	25	68,5	2,70	82	3,23
326-25-16	5203017660	5205017660	25	1"	16	25	68,5	2,70	89	3,50
326-28-16	5203017670	5205017670	25	1"	16	28	68	2,68	89	3,50

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

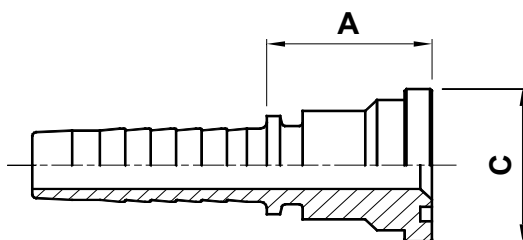


METRIC STANDPIPE 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			C	A		D	
			mm	Inch	Size		mm	in	mm	in
328-06-04	5203018000	5205018000	6	1/4"	04	6	45	1,77	22	0,87
328-08-04	5203018010	5205018010	6	1/4"	04	8	41,5	1,63	22,6	0,89
328-10-04	5203018020	5205018020	6	1/4"	04	10	57,5	2,26	24,5	0,96
328-10-06	5203018030	5205018030	10	3/8"	06	10	45,5	1,79	22	0,87
328-14-06	5203018050	5205018050	10	3/8"	06	14	56	2,20	29	1,14
328-15-08	5203018080	5205018080	12	1/2"	08	15	60,5	2,38	28	1,10
328-16-08	5203018090	5205018090	12	1/2"	08	16	53	2,09	34	1,34
328-18-10	5203018110	5205018110	16	5/8"	10	18	72	2,83	35,4	1,39
328-20-10	5203018120	5205018120	16	5/8"	10	20	87,9	3,46	46	1,81
328-22-12	5203018140	5205018140	19	3/4"	12	22	77,4	3,05	37,7	1,48
328-25-12	5203018150	5205018150	19	3/4"	12	25	88,5	3,48	47	1,85
328-28-16	5203018170	5205018170	25	1"	16	28	95	3,74	45,5	1,79
328-30-16	5203018180	5205018180	25	1"	16	30	96	3,78	47,2	1,86

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

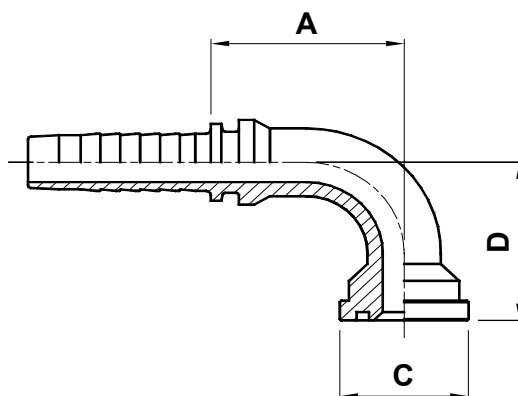


SAE 3000 CODE 61 FLANGE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			Flange	A		C	
			mm	Inch	Size		mm	in	mm	in
343-08-08	5203012000	5205012000	12	1/2"	08	1/2"	38	1,50	30,2	1,19
343-12-12	5203012010	5205012010	19	3/4"	12	3/4"	39,5	1,56	38	1,50
343-16-12	5203012020	5205012020	19	3/4"	12	1"	46	1,81	44,5	1,75
343-16-16	5203012030	5205012030	25	1"	16	1"	47,5	1,87	44,5	1,75
343-20-16	5203012040	5205012040	25	1"	16	1 1/4"	48,5	1,91	50,8	2,00
343-20-20	5203012050	5205012050	31	1 1/4"	20	1 1/4"	49,5	1,95	50,8	2,00
343-24-20	5203012060	5205012060	31	1 1/4"	20	1 1/2"	53	2,09	60,3	2,37
343-24-24	5203012070	5205012070	38	1 1/2"	24	1 1/2"	53	2,09	60,3	2,37
343-32-24	5203012080	5205012080	38	1 1/2"	24	2"	74,5	2,93	71,4	2,81
343-32-32	5203012090	5205012090	51	2"	32	2"	78,5	3,09	71,4	2,81
343-40-32	5203012095	-	51	2"	32	2 1/2"	78,5	3,09	84,1	3,31
343-40-40	5203012100	-	63	2 1/2"	40	2 1/2"	90	3,54	84,1	3,31
343-48-40	5203012105	-	63	2 1/2"	40	3"	90	3,54	101,6	4,00
343-48-48	5203012110	-	76	3"	48	3"	91,5	3,60	101,6	4,00

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 64.

P-series couplings (1-4 wire)

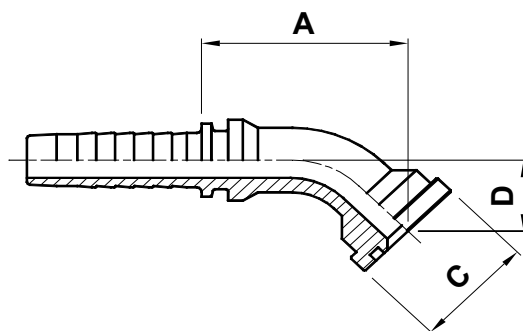


SAE 3000 CODE 61 FLANGE 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			Flange	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
344-08-08	5203012400	5205012400	12	1/2"	08	1/2"	46,5	1,83	30,2	1,19	45	1,77
344-12-12	5203012410	5205012410	19	3/4"	12	3/4"	55,5	2,19	38	1,50	56,5	2,22
344-16-12	5203012420	5205012420	19	3/4"	12	1"	55,5	2,19	44,5	1,75	58	2,28
344-16-16	5203012430	5205012430	25	1"	16	1"	70	2,76	44,5	1,75	61	2,40
344-20-16	5203012440	5205012440	25	1"	16	1 1/4"	69,9	2,75	50,8	2,00	61	2,40
344-20-20	5203012450	5205012450	31	1 1/4"	20	1 1/4"	86,8	3,42	50,8	2,00	69,2	2,72
344-24-20	5203012460	5205012460	31	1 1/4"	20	1 1/2"	85	3,35	60,3	2,37	69,2	2,72
344-24-24	5203012470	5205012470	38	1 1/2"	24	1 1/2"	104	4,09	60,3	2,37	81	3,19
344-32-24	5203012480	5205012480	38	1 1/2"	24	2"	102	4,02	71,4	2,81	85	3,35
344-32-32	5203012490	5205012490	51	2"	32	2"	132,3	5,21	71,4	2,81	123	4,84
344-40-32	5203012500	-	51	2"	32	2 1/2"	151	5,94	84,1	3,31	132	5,20
344-40-40	5203012505	-	63	2 1/2"	40	2 1/2"	136,2	5,36	84,1	3,31	125	4,92
344-48-48	5203012510	-	76	3"	48	3"	132,7	5,22	101,6	4,00	114,2	4,50

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 64.
Other bend options available upon request.

P-series couplings (1-4 wire)

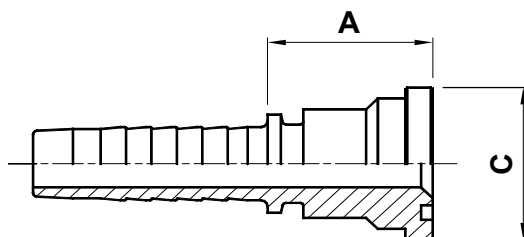


SAE 3000 CODE 61 FLANGE 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			Flange	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
345-08-08	5203012800	5205012800	12	1/2"	08	1/2"	55,2	2,17	30,2	1,19	22,6	0,89
345-12-12	5203012810	5205012810	19	3/4"	12	3/4"	68,5	2,70	38	1,5	27,9	1,10
345-16-12	5203012820	5205012820	19	3/4"	12	1"	70,5	2,77	44,5	1,75	29	1,14
345-16-16	5203012830	5205012830	25	1"	16	1"	74,4	2,93	44,5	1,75	27	1,06
345-20-16	5203012840	5205012840	25	1"	16	1 1/4"	76,2	3,00	50,8	2,00	29	1,14
345-20-20	5203012850	5205012850	31	1 1/4"	20	1 1/4"	88	3,46	50,8	2,00	31	1,22
345-24-20	5203012860	5205012860	31	1 1/4"	20	1 1/2"	90	3,54	60,3	2,37	31	1,22
345-24-24	5203012870	5205012870	38	1 1/2"	24	1 1/2"	100	3,94	60,3	2,37	36,5	1,44
345-32-24	5203012880	5205012880	38	1 1/2"	24	2"	105	4,13	71,4	2,81	36,5	1,44
345-32-32	5203012890	5205012890	51	2"	32	2"	142,3	5,60	71,4	2,81	53	2,09
345-40-32	5203012900	-	51	2"	32	2 1/2"	160,3	6,31	84,1	3,31	61	2,40
345-40-40	5203012905	-	63	2 1/2"	40	2 1/2"	134,4	5,29	84,1	3,31	49	1,93
345-48-48	5203012910	-	76	3"	48	3"	123,2	4,85	101,6	4,00	41,3	1,63

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 64.
Other bend options available upon request.

P-series couplings (1–4 wire)

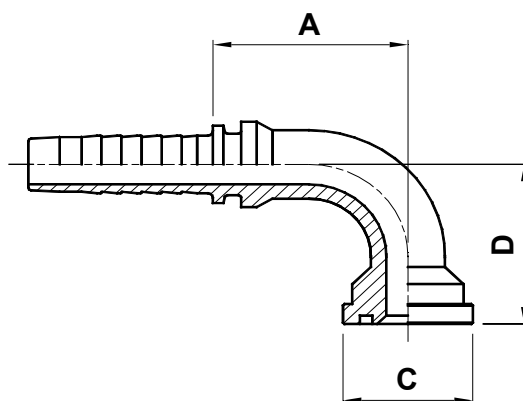


SAE 6000 CODE 62 FLANGE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			Flange	A		C	
			mm	Inch	Size		mm	in	mm	in
346-08-08	5203012200	5205012200	12	1/2"	08	1/2"	46	1,81	31,7	1,25
346-12-12	5203012210	5205012210	19	3/4"	12	3/4"	43,5	1,71	41,3	1,63
346-16-12	5203012220	5205012220	19	3/4"	12	1"	59	2,32	47,6	1,88
346-16-16	5203012230	5205012230	25	1"	16	1"	60,5	2,38	47,6	1,88
346-20-16	5203012240	5205012240	25	1"	16	1 1/4"	67,5	2,66	54	2,13
346-20-20	5203012250	5205012250	31	1 1/4"	20	1 1/4"	70	2,76	54	2,13
346-24-20	5203012260	5205012260	31	1 1/4"	20	1 1/2"	76	2,99	63,5	2,50
346-24-24	5203012270	5205012270	38	1 1/2"	24	1 1/2"	76	2,99	63,5	2,50
346-32-24	5203012280	5205012280	38	1 1/2"	24	2"	78	3,07	79,4	3,13
346-32-32	5203012290	5205012290	51	2"	32	2"	88,5	3,48	79,4	3,13

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 65.

P-series couplings (1-4 wire)

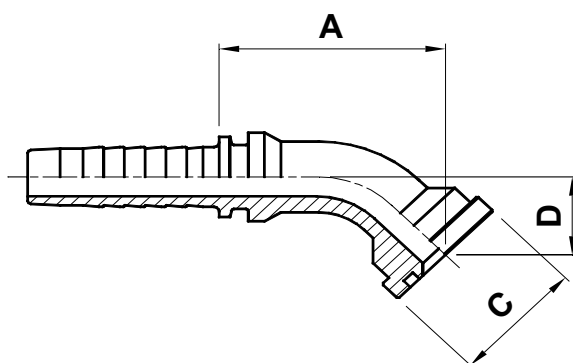


SAE 6000 CODE 62 FLANGE 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			Flange	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
347-08-08	5203012600	5205012600	12	1/2"	08	1/2"	46,5	1,83	31,7	1,25	47	1,85
347-12-12	5203012610	5205012610	19	3/4"	12	3/4"	55,5	2,19	41,3	1,63	56,5	2,22
347-16-12	5203012620	5205012620	19	3/4"	12	1"	55,5	2,19	47,6	1,88	65	2,56
347-16-16	5203012630	5205012630	25	1"	16	1"	76	2,99	47,6	1,88	66	2,60
347-20-16	5203012640	5205012640	25	1"	16	1 1/4"	78,5	3,09	54	2,13	79,5	3,13
347-20-20	5203012650	5205012650	31	1 1/4"	20	1 1/4"	101,7	4,00	54	2,13	86	3,39
347-24-20	5203012660	5205012660	31	1 1/4"	20	1 1/2"	102,3	4,03	63,5	2,50	98	3,86
347-24-24	5203012670	5205012670	38	1 1/2"	24	1 1/2"	111	4,37	63,5	2,50	104	4,09
347-32-24	5203012680	5205012680	38	1 1/2"	24	2"	113	4,45	79,4	3,13	119,5	4,70
347-32-32	5203012690	5205012690	51	2"	32	2"	149,3	5,88	79,4	3,13	134	5,28

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 65.
Other bend options available upon request.

P-series couplings (1-4 wire)

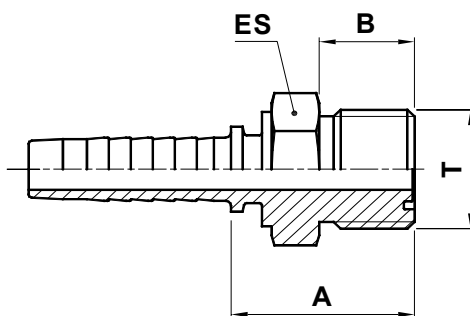


SAE 6000 CODE 62 FLANGE 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			Flange	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
348-08-08	5203013000	5205013000	12	1/2"	08	1/2"	56	2,20	31,7	1,25	23,3	0,92
348-12-12	5203013010	5205013010	19	3/4"	12	3/4"	68,7	2,70	41,3	1,63	27,9	1,10
348-16-12	5203013020	5205013020	19	3/4"	12	1"	74,7	2,94	47,6	1,88	33,9	1,34
348-16-16	5203013030	5205013030	25	1"	16	1"	78,9	3,11	47,6	1,88	30,8	1,21
348-20-16	5203013040	5205013040	25	1"	16	1 1/4"	95	3,74	54	2,13	39	1,54
348-20-20	5203013050	5205013050	31	1 1/4"	20	1 1/4"	111,3	4,38	54	2,13	43,8	1,72
348-24-20	5203013060	5205013060	31	1 1/4"	20	1 1/2"	115	4,53	63,5	2,50	48	1,89
348-24-24	5203013070	5205013070	38	1 1/2"	24	1 1/2"	126	4,96	63,5	2,50	47	1,85
348-32-24	5203013080	5205013080	38	1 1/2"	24	2"	133,8	5,27	79,4	3,13	58	2,28
348-32-32	5203013090	5205013090	51	2"	32	2"	169	6,65	79,4	3,13	61	2,40

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 65.
Other bend options available upon request.

P-series couplings (1-4 wire)

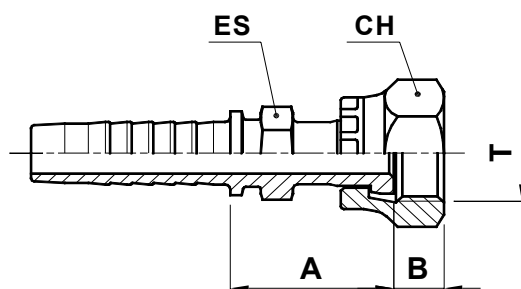


ORFS MALE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		C		ES 
			mm	Inch	Size		mm	in	mm	in	mm
360-04-04	5203015000	5205015000	6	1/4"	04	9/16"-18	24,3	0,96	9,8	0,39	15
360-06-04	5203015010	5205015010	6	1/4"	04	11/16"-16	26,7	1,05	11,2	0,44	19
360-06-06	5203015030	5205015030	10	3/8"	06	11/16"-16	26,5	1,04	11,2	0,44	19
360-08-06	5203015040	5205015040	10	3/8"	06	13/16"-16	29	1,14	12,8	0,50	22
360-08-08	5203015050	5205015050	12	1/2"	08	13/16"-16	29,5	1,16	12,8	0,50	22
360-10-08	5203015060	5205015060	12	1/2"	08	1"-14	34	1,34	1,15	0,61	27
360-10-10	5203015070	5205015070	16	5/8"	10	1"-14	34,1	1,24	15,5	0,61	27
360-12-10	5203015080	5205015080	16	5/8"	10	1 3/16"-12	37,1	1,46	17	0,67	32
360-12-12	5203015090	5205015090	19	3/4"	12	1 3/16"-12	37,6	1,48	17	0,67	32
360-16-12	5203015100	5205015100	19	3/4"	12	1 7/16"-12	40	1,57	17,5	0,69	41
360-16-16	5203015110	5205015110	25	1"	16	1 7/16"-12	41,5	1,63	17,5	0,69	41

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings (1-4 wire)

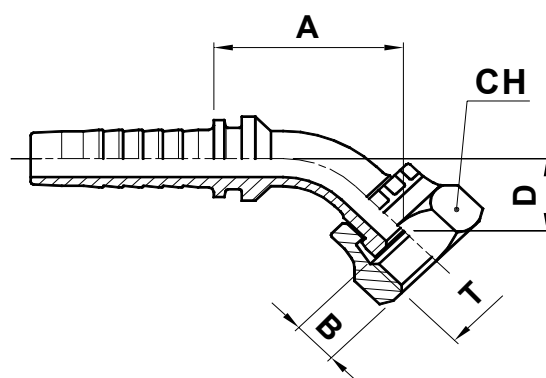


ORFS FEMALE SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		ES		CH	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
361-04-04	5203015300	5205015300	6	1/4"	04	9/16"-18	28	1,10	8	0,31	14	9/16"	17	11/16"
361-06-04	5203015310	5205015310	6	1/4"	04	11/16"-16	31,5	1,24	9,5	0,37	17	11/16"	22	7/8"
361-06-06	5203015330	5205015330	10	3/8"	06	11/16"-16	32	1,26	9,5	0,37	17	11/16"	22	7/8"
361-08-06	5203015340	5205015340	10	3/8"	06	13/16"-16	36,5	1,44	11	0,43	19	3/4"	24	15/16"
361-08-08	5203015350	5205015350	12	1/2"	08	13/16"-16	35	1,38	11	0,43	19	3/4"	24	15/16"
361-10-08	5203015360	5205015360	12	1/2"	08	1"-14	39	1,54	13,5	0,53	24	15/16"	30	1 3/16"
361-10-10	5203015370	5205015370	16	5/8"	10	1"-14	39	1,54	13,5	0,53	24	15/16"	30	1 3/16"
361-12-10	5203015380	5205015380	16	5/8"	10	1 3/16"-12	44	1,73	14,5	0,57	30	1 3/16"	36	1 7/16"
361-12-12	5203015390	5205015390	19	3/4"	12	1 3/16"-12	44,6	1,76	14,5	0,57	30	1 3/16"	36	1 7/16"
361-16-12	5203015400	5205015400	19	3/4"	12	1 7/16"-12	51,5	2,03	14,8	0,58	36	1 7/16"	41	1 1/2"
361-16-16	5203015410	5205015410	25	1"	16	1 7/16"-12	52,5	2,07	14,8	0,58	36	1 7/16"	41	1 1/2"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings

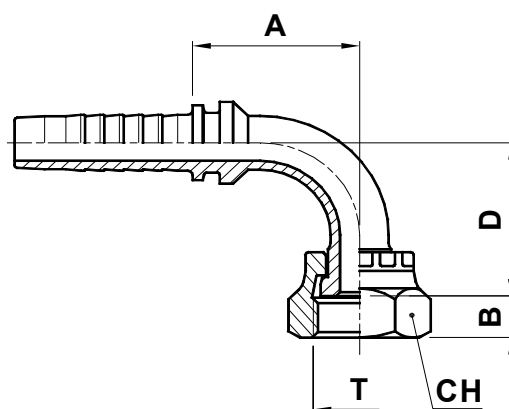


ORFS FEMALE SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
362-04-04	5203015500	5205015500	6	1/4"	04	9/16"-18	29,5	1,16	8	0,31	10,9	0,43	17	11/16"
362-06-04	5203015510	5205015510	6	1/4"	04	11/16"-16	32,5	1,28	9,5	0,37	12,7	0,50	22	7/8"
362-06-06	5203015530	5205015530	10	3/8"	06	11/16"-16	35,5	1,40	9,5	0,37	11,5	0,45	22	7/8"
362-08-06	5203015540	5205015540	10	3/8"	06	13/16"-16	38,5	1,52	11	0,43	15	0,59	24	15/16"
362-08-08	5203015550	5205015550	12	1/2"	08	13/16"-16	43	1,59	11	0,43	14,3	0,56	24	15/16"
362-10-08	5203015560	5205015560	12	1/2"	08	1"-14	43,5	1,71	13,5	0,53	16,6	0,65	30	1 3/16"
362-10-10	5203015570	5205015570	16	5/8"	10	1"-14	59,5	2,34	13,5	0,53	20,3	0,80	30	1 3/16"
362-12-10	5203015580	5205015580	16	5/8"	10	1 3/16"-12	60,5	2,38	14,5	0,57	23,2	0,91	36	1 7/16"
362-12-12	5203015590	5205015590	19	3/4"	12	1 3/16"-12	60,4	2,38	14,5	0,57	21,9	0,86	36	1 7/16"
362-16-12	5203015600	5205015600	19	3/4"	12	1 7/16"-12	63,2	2,49	13,8	0,54	23,3	0,92	41	1 1/2"
362-16-16	5203015610	5205015610	25	1"	16	1 7/16"-12	75,7	2,98	13,8	0,54	27,2	1,07	41	1 1/2"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

P-series couplings

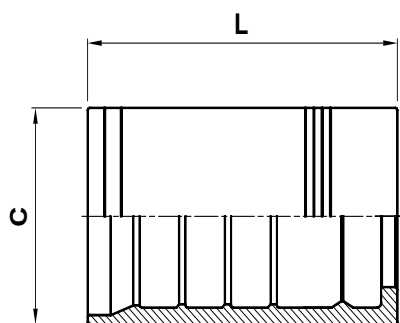


ORFS FEMALE SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
363-04-04	5203015700	5205015700	6	1/4"	04	9/16"-18	27,5	1,08	8	0,31	22,5	0,89	17	11/16"
363-06-04	5203015710	5205015710	6	1/4"	04	11/16"-16	27,5	1,08	9,5	0,37	25	0,97	22	7/8"
363-06-06	5203015730	5205015730	10	3/8"	06	11/16"-16	31,5	1,24	9,5	0,37	25	0,98	22	7/8"
363-08-06	5203015740	5205015740	10	3/8"	06	13/16"-16	31,5	1,24	11	0,43	30	1,18	24	15/16"
363-08-08	5203015750	5205015750	12	1/2"	08	13/16"-16	40	1,57	11	0,43	32	1,26	24	15/16"
363-10-08	5203015760	5205015760	12	1/2"	08	1"-14	37,5	1,48	13,5	0,53	34	1,34	30	1 3/16"
363-10-10	5203015770	5205015770	16	5/8"	10	1"-14	53,5	2,11	13,5	0,53	44	1,73	30	1 3/16"
363-12-10	5203015780	5205015780	16	5/8"	10	1 3/16"-12	53,5	2,11	14,5	0,57	48	1,89	36	1 7/16"
363-12-12	5203015790	5205015790	19	3/4"	12	1 3/16"-12	57	2,24	14,5	0,57	48	1,89	36	1 7/16"
363-16-12	5203015800	5205015800	19	3/4"	12	1 7/16"-12	57	2,24	13,8	0,54	50	1,97	41	1 1/2"
363-16-16	5203015810	5205015810	25	1"	16	1 7/16"-12	69	2,72	13,8	0,54	59	2,32	41	1 1/2"

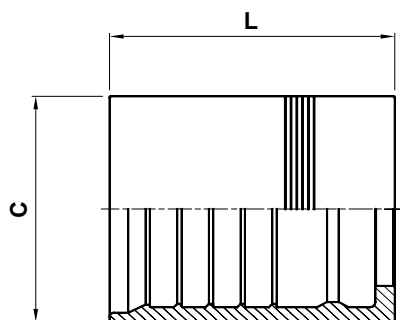
Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

Ferrules for I-series interlock coupling



Part No	ID Code CS	ID Code SS	Hose			C		L	
			mm	Inch	Size	mm	inch	mm	inch
594-10	5204005990	5206005990	16	5/8"	10	27	1,06	49	1,93
594-12	5204006000	5206006000	19	3/4"	12	38	1,5	60	2,36
594-16	5204006010	5206006010	25	1"	16	49	1,81	74,5	2,93
594-20	5204006020	5206006020	31	1 1/4"	20	55	2,17	88	3,46
594-24	5204006030	5206006030	38	1 1/2"	24	62	2,44	94	3,70
594-32	5204006040	5206006040	51	2"	32	78	3,07	99	3,90

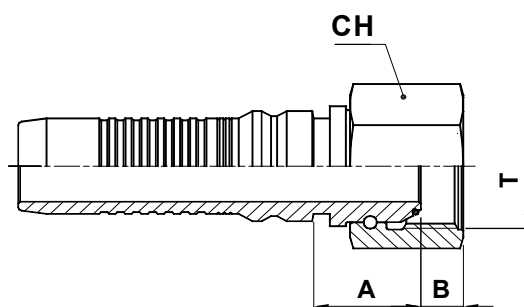
Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.



Part No	ID Code CS	ID Code SS	Hose			C		L	
			mm	Inch	Size	mm	inch	mm	inch
596-20	5204006220	5206006220	31	1 1/4"	20	60	2,36	88	3,46
596-24	5204006230	5206006230	38	1 1/2"	24	67	2,64	94	3,70
596-32	5204006240	5206006240	51	2"	32	84,5	3,33	99	3,90

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock coupling

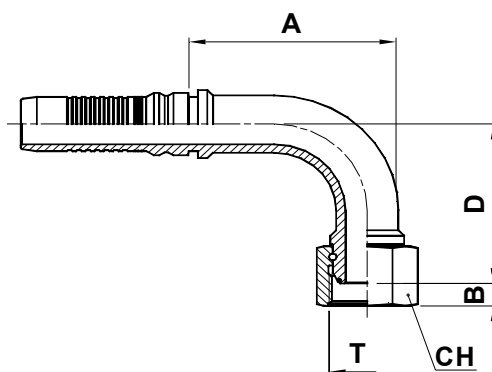


BSP WITH O-RING FEMALE SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in
501-12-12	5204003300	5206003300	19	3/4"	12	3/4"-14	23,3	0,92	9	0,36	32	1 1/4"
501-16-16	5204003310	5206003310	25	1"	16	1"-11	26,5	1,04	10,5	0,41	38	1 1/2"
501-20-20	5204003320	5206003320	31	1 1/4"	20	1 1/4"-11	33,7	1,33	10	0,39	50	2"
501-24-24	5204003330	5206003330	38	1 1/2"	24	1 1/2"-11	32,5	1,28	12	0,47	55	2 3/16"
501-32-32	5204003340	5206003340	51	2"	32	2"-11	34,9	1,39	16	0,63	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings

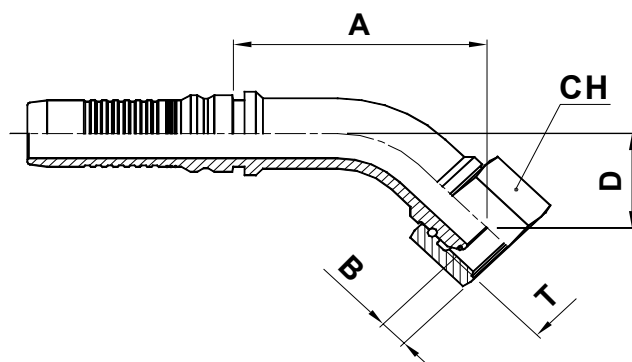


BSP WITH O-RING FEMALE SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
503-12-12	5204003500	5206003500	19	3/4"	12	3/4"-14	58	2,28	9	0,35	58,8	2,31	32	1 1/4"
503-16-16	5204003510	5206003510	25	1"	16	1"-11	69	2,72	10,5	0,41	71	2,80	38	1 1/2"
503-20-20	5204003520	5206003520	31	1 1/4"	20	1 1/4"-11	83	3,27	10	0,39	77	3,03	50	2"
503-24-24	5204003530	5206003530	38	1 1/2"	24	1 1/2"-11	99,5	3,92	12	0,47	100	3,94	55	2 3/16"
503-32-32	5204003540	5206003540	51	2"	32	2"-11	127	5,00	16	0,63	128	5,04	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings

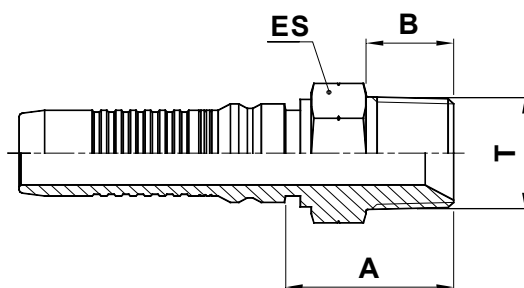


BSP WITH O-RING FEMALE SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
504-12-12	5204003600	5206003600	19	3/4"	12	3/4"-14	67,6	2,66	9	0,35	28,3	1,11	32	1 1/4"
504-16-16	5204003610	5206003610	25	1"	16	1"-11	80,7	3,18	10,5	0,41	33,8	1,33	38	1 1/2"
504-20-20	5204003620	5206003620	31	1 1/4"	20	1 1/4"-11	94,5	3,72	10	0,39	37,5	1,48	50	2"
504-24-24	5204003630	5206003630	38	1 1/2"	24	1 1/2"-11	116,5	4,59	12	0,47	49,2	1,94	55	2 3/16"
504-32-32	5204003640	5206003640	51	2"	32	2"-11	136,6	5,38	16	0,63	59,6	2,35	70	2 3/4"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings

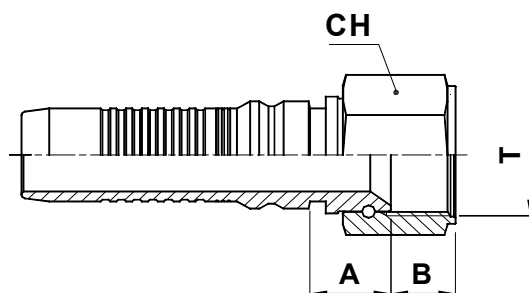


NPT MALE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		ES 	
			mm	Inch	Size		mm	in	mm	in	mm	in
511-12-12	5204003800	5206003800	19	3/4"	12	3/4"-14	40	1,57	19	0,75	30	1 3/16"
511-16-16	5204003810	5206003810	25	1"	16	1"-11,5	46	1,81	24	0,94	36	1 7/16"
511-20-20	5204003820	5206003820	31	1 1/4"	20	1 1/4"-11,5	60,2	2,37	24,5	0,96	46	1 13/16"
511-24-24	5204003830	5206003830	38	1 1/2"	24	1 1/2"-11,5	61,5	2,42	25,5	1,00	50	2"
511-32-32	5204003840	5206003840	51	2"	32	2"-11,5	76	2,33	26	1,02	65	2 9/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings

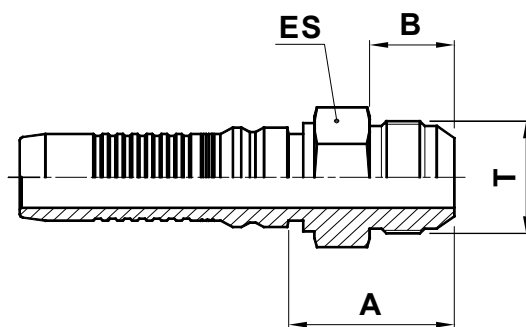


JIC FEMALE SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in
513-14-10	5204003980	5206003980	16	5/8"	10	7/8"-14	21	0,83	13,8	0,54	32	1 1/4"
513-17-12	5204004000	5206004000	19	3/4"	12	1 1/16"-12	19,5	0,77	13,8	0,54	32	1 1/4"
513-21-16	5204004010	5206004010	25	1"	16	1 5/16"-12	20,5	0,81	16	0,63	38	1 1/2"
513-26-20	5204004020	5206004020	31	1 1/4"	20	1 5/8"-12	25,3	1,00	16	0,63	50	2"
513-30-24	5204004030	5206004030	38	1 1/2"	24	1 7/8"-12	28,9	1,14	18,5	0,73	55	2 3/16"
513-40-32	5204004040	5206004040	51	2"	32	2 1/2"-12	33	1,30	24	0,94	75	-

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4-6 spiral)

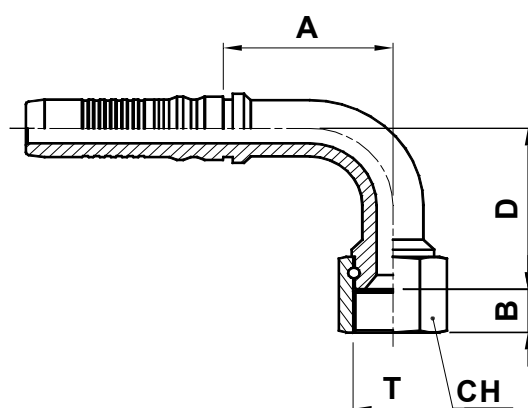


JIC MALE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		B		ES 	
			mm	Inch	Size		mm	in	mm	in	mm	in
514-17-12	5204004200	5206004200	19	3/4"	12	1 1/16"-12	35,5	1,40	21,5	0,85	32	1 1/4"
514-21-16	5204004210	5206004210	25	1"	16	1 5/16"-12	45,1	1,78	23,1	0,91	36	1 7/16"
514-26-20	5204004220	5206004220	31	1 1/4"	20	1 5/8"-12	60	2,36	24,3	0,96	46	1 13/16"
514-30-24	5204004230	5206004230	38	1 1/2"	24	1 7/8"-12	63,5	2,50	27,5	1,08	50	2"
514-40-32	5204004240	5206004240	51	2"	32	2 1/2"-12	61	2,40	33,9	1,33	65	2 9/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4-6 spiral)

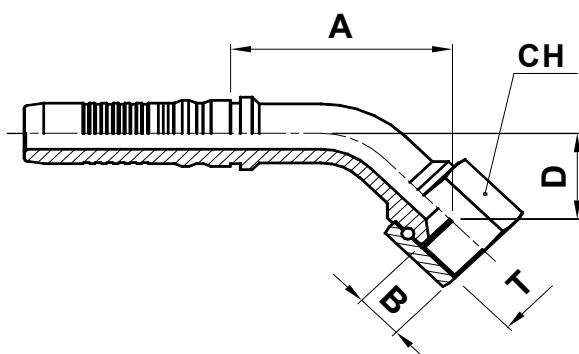


JIC FEMALE SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH 	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
516-14-10	5404004380	5206004380	16	5/8"	10	7/8"-14	53,7	2,11	13,8	0,54	53,5	2,11	32	1 1/4"
516-17-12	5204004400	5206004400	19	3/4"	12	1 1/16"-12	59,2	2,33	13,8	0,54	58,8	2,31	32	1 1/4"
516-21-16	5204004410	5206004410	25	1"	16	1 5/16"-12	69	2,72	16	0,63	71	2,80	38	1 1/2"
516-26-20	5204004420	5206004420	31	1 1/4"	20	1 5/8"-12	83	3,27	16	0,63	77	3,03	50	2"
516-30-24	5204004430	5206004430	38	1 1/2"	24	1 7/8"-12	102	4,02	18,5	0,73	100	3,94	55	2 3/16"
516-40-32	5204004440	5206004440	51	2"	32	2 1/2"-12	122	4,80	24	0,94	140	5,51	75	-

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4-6 spiral)

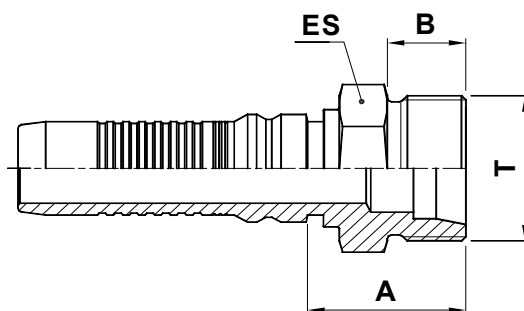


JIC FEMALE SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		B		D		CH	
			mm	Inch	Size		mm	in	mm	in	mm	in	mm	in
517-17-12	5204004600	5206004600	19	3/4"	12	1 1/16"-12	68	2,68	13,8	0,54	28,3	1,11	32	1 1/4"
517-21-16	5204004610	5206004610	25	1"	16	1 5/16"-12	81	3,19	16	0,63	32	1,26	38	1 1/2"
517-26-20	5204004620	5206004620	31	1 1/4"	20	1 5/8"-12	94,5	3,72	16	0,63	37,5	1,48	50	2"
517-30-24	5204004630	5206004630	38	1 1/2"	24	1 7/8"-12	116,5	4,59	18,5	0,73	49,2	1,94	55	2 3/16"
517-40-32	5204004640	5206004640	51	2"	32	2 1/2"-12	148	5,83	24	0,94	64	2,52	75	-

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4–6 spiral)

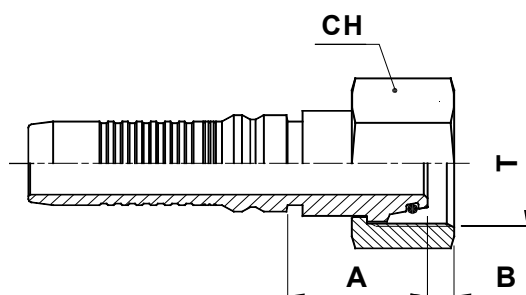


METRIC S-SERIES MALE WITH 24° SEAT

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		ES 	
			mm	Inch	Size			mm	in	mm	in	mm	in
523-20-10	5204004980	5206004980	16	5/8"	10	30X2	S20	32	1,26	16	0,63	30	1 3/16"
523-25-12	5204005010	5206005010	19	3/4"	12	36X2	S25	35	1,38	18	0,71	36	1 7/16"
523-25-16	5204005020	5206005020	25	1"	16	36X2	S25	34	1,34	18	0,71	36	1 7/16"
523-30-16	5204005030	5206005030	25	1"	16	42X2	S30	38	1,50	20	0,79	46	1 13/16"
523-38-20	5204005040	5206005040	31	1 1/4"	20	52X2	S38	47,2	1,86	22	0,87	55	2 3/16"
523-38-24	5204005050	5206005050	38	1 1/2"	24	52X2	S38	47,5	1,87	22	0,87	55	2 3/16"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4-6 spiral)

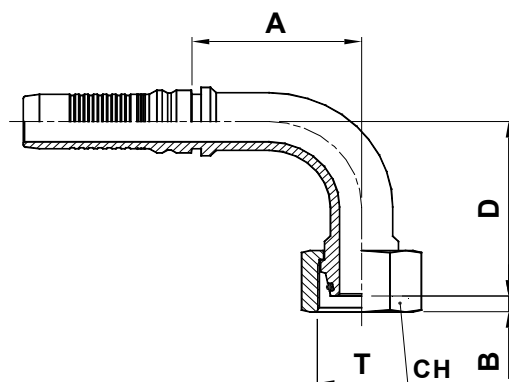


METRIC DKO S-SERIES FEMALE SWIVEL STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		CH 	
			mm	Inch	Size			mm	in	mm	in	mm	in
536-20-10	5204005180	5206005180	16	5/8"	10	30X2	S20	34	1,34	3,5	0,14	36	1 7/16"
536-20-12	5204005200	5206005200	19	3/4"	12	30X2	S20	27	1,06	3,5	0,14	36	1 7/16"
536-25-12	5204005210	5206005210	19	3/4"	12	36X2	S25	39,5	1,56	3	0,12	46	1 13/16"
536-25-16	5204005220	5206005220	25	1"	16	36X2	S25	39	1,54	3	0,13	46	1 13/16"
536-30-16	5204005230	5206005230	25	1"	16	42X2	S30	41,5	1,63	6	0,24	50	2"
536-38-20	5204005240	5206005240	31	1 1/4"	20	52X2	S38	45,2	1,78	6,5	0,26	60	2 3/8"
536-38-24	5204005250	5206005250	38	1 1/2"	24	52X2	S38	45,5	1,79	6,5	0,26	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4–6 spiral)

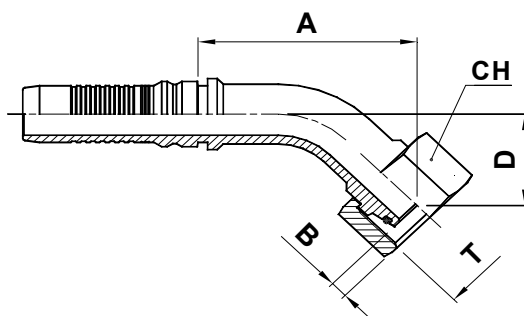


METRIC DKO S-SERIES FEMALE SWIVEL 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		D		CH 	
			mm	Inch	Size			mm	in	mm	in	mm	in	mm	in
537-20-10	5204005380	5206005380	16	5/8"	10	30X2	S20	53,5	2,11	3,5	0,14	57,5	2,26	36	1 7/16"
537-25-12	5204005410	5206005410	19	3/4"	12	36X2	S25	53,2	2,09	3	0,12	60	2,36	46	1 13/16"
537-25-16	5204005420	5206005420	25	1"	16	36X2	S25	71	2,80	3	0,12	71,5	2,81	46	1 13/16"
537-30-16	5204005430	5206005430	25	1"	16	42X2	S30	71	2,80	6	0,24	75	2,95	50	2"
537-38-20	5204005440	5206005440	31	1 1/4"	20	52X2	S38	88,3	3,48	6,5	0,26	95,7	3,77	60	2 3/8"
537-38-24	5204005450	5206005450	38	1 1/2"	24	52X2	S38	109,5	4,31	6,5	0,26	120	4,72	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4–6 spiral)

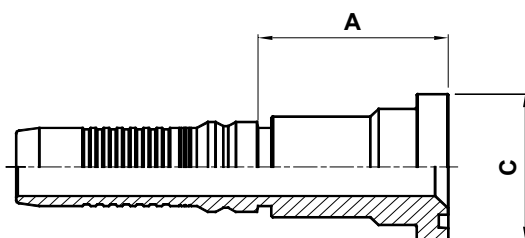


METRIC DKO S-SERIES FEMALE SWIVEL 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	Pipe	A		B		D		CH 	
			mm	Inch	Size			mm	in	mm	in	mm	in	mm	in
538-20-10	5204005580	5206005580	16	5/8"	10	30X2	S20	64,6	2,54	3,5	0,14	28,6	1,13	36	1 7/16"
538-25-12	5204005610	5206005610	19	3/4"	12	36X2	S25	78,8	3,10	3	0,12	34,7	1,37	46	1 13/16"
538-30-16	5204005630	5206005630	25	1"	16	42X2	S30	83	3,39	6	0,24	37	1,45	50	2"
538-38-20	5204005640	5206005640	31	1 1/4"	20	52X2	S38	115,1	4,53	6,5	0,26	46,5	1,83	60	2 3/8"
538-38-24	5204005650	5206005650	38	1 1/2"	24	52X2	S38	134,5	5,30	6,5	0,26	58,8	2,31	60	2 3/8"

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

I-series interlock couplings (4–6 spiral)

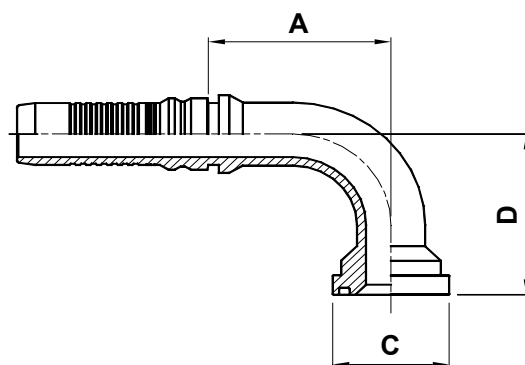


SAE 3000 CODE 61 FLANGE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		C	
			mm	Inch	Size		mm	in	mm	in
543-12-12	5204001000	5206001000	19	3/4"	12	3/4"	37	1,46	38	1,50
543-16-16	5204001010	5206001010	25	1"	16	1"	44,5	1,75	44,5	1,75
543-20-16	5204001020	5206001020	25	1"	16	1 1/4"	44	1,73	50,8	2,00
543-20-20	5204001030	5206001030	31	1 1/4"	20	1 1/4"	46,7	1,84	50,8	2,00
543-24-20	5204001040	5206001040	31	1 1/4"	20	1 1/2"	50,2	1,98	60,3	2,37
543-24-24	5204001050	5206001050	38	1 1/2"	24	1 1/2"	50,5	1,99	60,3	2,37
543-32-24	5204001060	5206001060	38	1 1/2"	24	2"	72	2,83	71,4	2,81
543-32-32	5204001070	5206001070	51	2"	32	2"	73,5	2,89	71,4	2,81
543-24-32	5204001080	5206001080	51	2"	32	1 1/2"	50,5	1,98	60,3	2,37

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 64.

I-series interlock couplings (4–6 spiral)

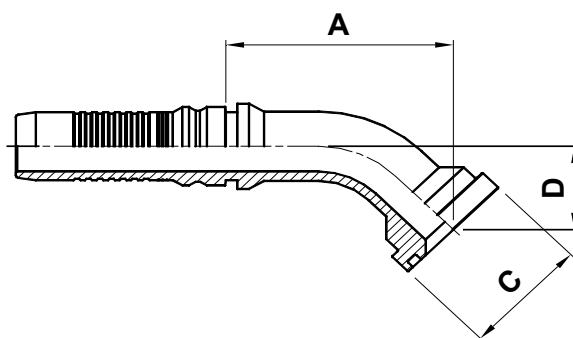


SAE 3000 CODE 61 FLANGE 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
544-12-12	5204001200	5206001200	19	3/4"	12	3/4"	63	2,48	38	1,50	56,5	2,22
544-16-16	5204001210	5206001210	25	1"	16	1"	75	2,95	44,5	1,75	67,5	2,66
544-20-16	5204001220	5206001220	25	1"	16	1 1/4"	76	2,99	50,8	2,00	71	2,80
544-20-20	5204001230	5206001230	31	1 1/4"	20	1 1/4"	83,7	3,30	50,8	2,00	69,2	2,72
544-24-20	5204001240	5206001240	31	1 1/4"	20	1 1/2"	82,3	3,24	60,3	2,37	69,2	2,72
544-24-24	5204001250	5206001250	38	1 1/2"	24	1 1/2"	109,5	4,31	60,3	2,37	103,5	4,07
544-32-24	5204001260	5206001260	38	1 1/2"	24	2"	109,5	4,31	71,4	2,81	104	4,09
544-32-32	5204001270	5206001270	51	2"	32	2"	145	5,71	71,4	2,81	123	4,84

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 64.
Other bend options available upon request.

I-series interlock couplings (4–6 spiral)

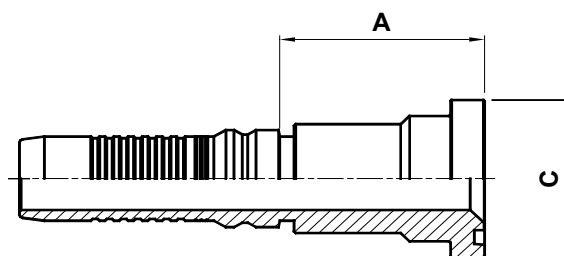


SAE 3000 CODE 61 FLANGE 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
545-12-12	5204001400	5206001400	19	3/4"	12	3/4"			38	1,50		
545-16-16	5204001410	5206001410	25	1"	16	1"	102,5	4,04	44,5	1,75	41,6	1,64
545-20-16	5204001420	5206001420	25	1"	16	1 1/4"			50,8	2,00		
545-20-20	5204001430	5206001430	31	1 1/4"	20	1 1/4"	93,7	3,69	50,8	2,00	43,9	1,73
545-24-20	5204001440	5206001440	31	1 1/4"	20	1 1/2"	93,1	3,67	60,3	2,37	44	1,73
545-24-24	5204001450	5206001450	38	1 1/2"	24	1 1/2"	149,9	5,90	60,3	2,37	65,3	2,57
545-32-32	5204001470	5206001470	51	2"	32	2"	198,5	7,81	71,4	2,81	76,3	3,00

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 64.
Other bend options available upon request.

I-series interlock couplings (4-6 spiral)

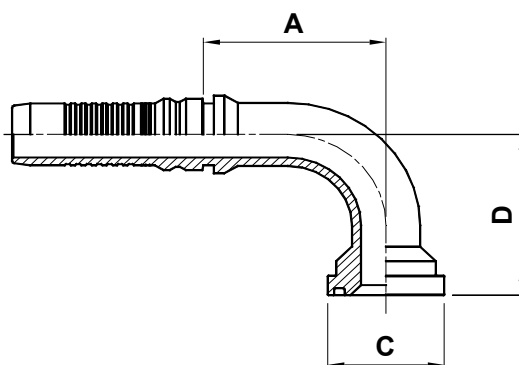


SAE 6000 CODE 62 FLANGE STRAIGHT

Part No	ID Code CS	ID Code SS	Hose			T	A		C	
			mm	Inch	Size		mm	in	mm	in
546-12-10	5204001980	5206001980	16	5/8"	10	1/2"	41	1,61	41,3	1,63
546-12-12	5204002000	5206002000	19	3/4"	12	3/4"	41	1,61	41,3	1,63
546-16-16	5204002010	5206002010	25	1"	16	1"	57,5	2,26	47,6	1,88
546-20-16	5204002020	5206002020	25	1"	16	1 1/4"	64,5	2,54	54	2,13
546-20-20	5204002030	5206002030	31	1 1/4"	20	1 1/4"	67,2	2,65	54	2,13
546-24-20	5204002040	5206002040	31	1 1/4"	20	1 1/2"	73,2	2,88	63,5	2,50
546-24-24	5204002050	5206002050	38	1 1/2"	24	1 1/2"	73	2,87	63,5	2,50
546-32-24	5204002060	5206002060	38	1 1/2"	24	2"	82	3,23	79,4	3,13
546-24-32	5204002080	5206002080	51	2"	32	1 1/2"	82,5	3,24	63,5	2,50
546-32-32	5204002070	5206002070	51	2"	32	2"	83,5	3,29	79,4	3,13

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 65.

I-series interlock couplings (4–6 spiral)



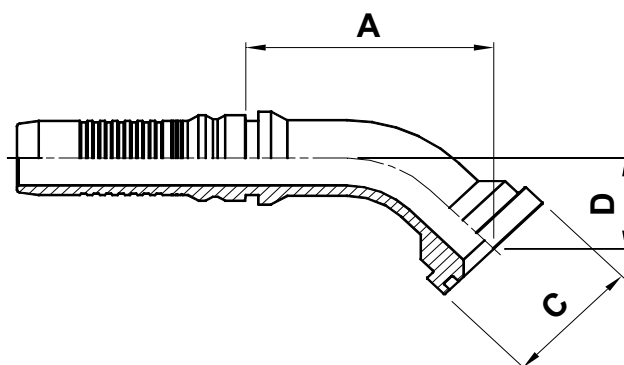
SAE 6000 CODE 62 FLANGE 90° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
547-12-10	5204002180	5206002180	16	5/8"	10	3/4"	51,5	2,03	41,3	1,63	58	2,28
547-12-12	5204002200	5206002200	19	3/4"	12	3/4"	53	2,09	41,3	1,63	56,5	2,22
547-16-16	5204002210	5206002210	25	1"	16	1"	77	3,03	47,6	1,88	66	2,60
547-20-16	5204002220	5206002220	25	1"	16	1 1/4"	76	2,99	54	2,13	80	3,15
547-20-20	5204002230	5206002230	31	1 1/4"	20	1 1/4"	97,2	3,83	54	2,13	86	3,39
547-24-20	5204002240	5206002240	31	1 1/4"	20	1 1/2"	99,9	3,93	63,5	2,50	100	3,94
547-24-24	5204002250	5206002250	38	1 1/2"	24	1 1/2"	108,5	4,27	63,5	2,50	104	4,09
547-32-24	5204002260	5206002260	38	1 1/2"	24	2"	107,5	4,23	79,4	3,13	119,5	4,70
547-24-32	5204002280	5206002280	51	2"	32	1 1/2"	117	4,61	63,5	2,50	104	4,09
547-32-32	5204002270	5206002270	51	2"	32	2"	145	5,71	79,4	3,13	134	5,28

Material:

CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 65.
Other bend options available upon request.

I-series interlock couplings (4-6 spiral)

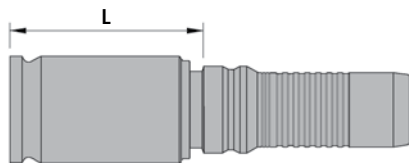


SAE 6000 CODE 62 FLANGE 45° ELBOW

Part No	ID Code CS	ID Code SS	Hose			T	A		C		D	
			mm	Inch	Size		mm	in	mm	in	mm	in
548-12-12	5204002400	5206002400	19	3/4"	12	3/4"	69	2,72	41,3	1,63	29,5	1,16
548-16-16	5204002410	5206002410	25	1"	16	1"	79	3,11	47,6	1,88	31	1,22
548-20-16	5204002420	5206002420	25	1"	16	1 1/4"	81	3,19	54	2,13	39	1,54
548-20-20	5204002430	5206002430	31	1 1/4"	20	1 1/4"	111,7	4,40	54	2,13	43,5	1,71
548-24-20	5204002440	5206002440	31	1 1/4"	20	1 1/2"	112,7	4,44	63,5	2,50	48	1,89
548-24-24	5204002450	5206002450	38	1 1/2"	24	1 1/2"	122,8	4,83	63,5	2,50	46,4	1,83
548-32-24	5204002460	5206002460	38	1 1/2"	24	2"	131,3	5,17	79,4	3,13	57	2,24
548-32-32	5204002470	5206002470	51	2"	32	2"	164,6	6,48	79,4	3,13	60	2,36

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in page 65.
Other bend options available upon request.

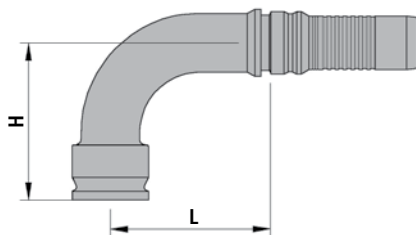
GS-retain ring flange hose couplings, I-Series



GS-hose coupling, straight

Size	Part No	ID Code CS	ID Code SS	Hose			L
				mm	Inch	Size	
3/4"	12020-IT	5301001105	5399000100	19	3/4"	12	44.2
1"	16020-IT	5301001425	5399000120	25	1"	16	48.3
1 1/4"	20020-IT	5301001825	5399000140	31	1 1/4"	20	82.3
1 1/2"	24020-IT	5301002225	5399000160	38	1 1/2"	24	83.4
2"	32020-IT	5301002625	5399000180	51	2"	32	96.9

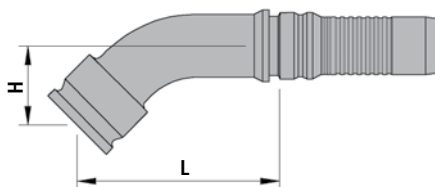
Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in GS-FLANGE SYSTEM catalogue.



GS-hose coupling, 90°

Size	Part No	ID Code CS	ID Code SS	Hose			L	H
				mm	Inch	Size		
3/4"	12021-IT	5301042025	5399000600	19	3/4"	12	59.2	64
1"	16021-IT	5301042425	5399000620	25	1"	16	76.3	75
1 1/4"	20021-IT	5301042825	5399000640	31	1 1/4"	20	95.1	93
1 1/2"	24021-IT	5301043625	5399000660	38	1 1/2"	24	111.8	110
2"	32021-IT	5301044025	5399000680	51	2"	32	149.5	140

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.
Flange options in GS-FLANGE SYSTEM catalogue.

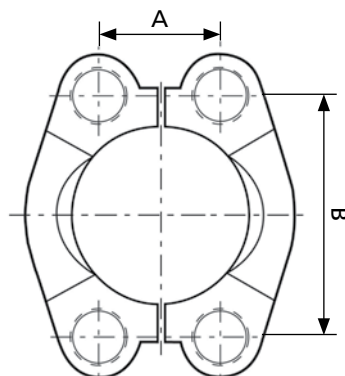


GS-hose coupling, 45°

Size	Part No	ID Code CS	ID Code SS	Hose			L	H
				mm	Inch	Size		
3/4"	12022-IT	5301040025	-	19	3/4"	12	72.2	32.0
1"	16022-IT	5301040505	-	25	1"	16	88.3	36.1
1 1/4"	20022-IT	5301040905	-	31	1 1/4"	20	112.1	43.8
1 1/2"	24022-IT	5301041225	-	38	1 1/2"	24	128.8	51.7
2"	32022-IT	5301041625	-	51	2"	32	166.4	65.9

Material:
CS= Carbon steel with zinc plating
Flange options in GS-FLANGE SYSTEM catalogue.

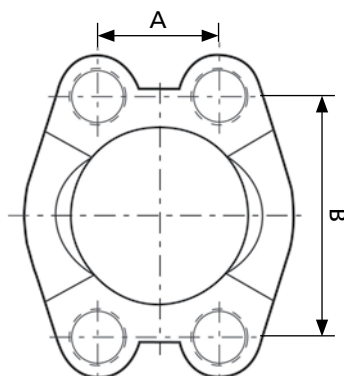
SAE 3000 code 61 flanges



SPLIT FLANGES

Part No	ID Code CS	ID Code SS	Connection Size	A	B	Bolt recommendation, 10.9	
						mm	UNC
943-08-08	5207001000	5208001000	1/2"	17,5	38,1	M8x25	5/16x1-1/4
943-12-12	5207001010	5208001010	3/4"	47,6	52	M10x30	3/8x1-1/4
943-16-16	5207001030	5208001030	1"	52,4	59	M10x30	3/8x1-1/4
943-20-20	5207001050	5208001050	1 1/4"	58,7	73	M10x30	7/16x1-1/2
943-24-24	5207001070	5208001070	1 1/2"	69,9	83	M12x35	1/2x1-1/2
943-32-32	5207001090	5208001090	2"	77,8	97	M12x35	1/2x1-1/2
943-40-40	5207001100	5208001100	2 1/2"	88,9	109	M12x40	1/2x1-1/2
943-48-48	5207001110	5208001110	3"	106,4	131	M16x50	5/8x2

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

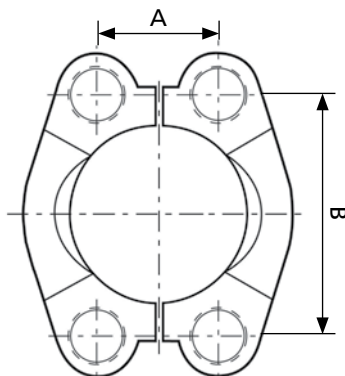


FULL FLANGES

Part No	ID Code CS	ID Code SS	Connection Size	A	B	Bolt recommendation, 10.9	
						mm	UNC
945-08-08	5207003000	5208003000	1/2"	17,5	38,1	M8x25	5/16x1-1/4
945-12-12	5207003010	5208003010	3/4"	47,6	52	M10x30	3/8x1-1/4
945-16-16	5207003030	5208003030	1"	52,4	59	M10x30	3/8x1-1/4
945-20-20	5207003050	5208003050	1 1/4"	58,7	73	M10x30	7/16x1-1/2
945-24-24	5207003070	5208003070	1 1/2"	69,9	83	M12x35	1/2x1-1/2
945-32-32	5207003090	5208003090	2"	77,8	97	M12x35	1/2x1-1/2
945-40-40	5207003100	5208003100	2 1/2"	88,9	109	M12x40	1/2x1-1/2
945-48-48	5207003110	5208003110	3"	106,4	131	M16x50	5/8x2

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

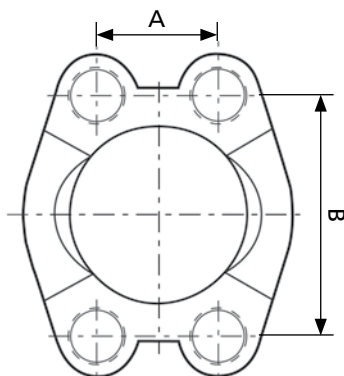
SAE 6000 code 62 flanges



SPLIT FLANGES

Part No	ID Code CS	ID Code SS	Connection Size	A	B	Bolt recommendation, 10.9	
						mm	UNC
944-08-08	5207002000	5208002000	1/2"	18,2	40,5	M8x30	5/16x1-1/4
944-12-12	5207002010	5208002010	3/4"	23,8	50,8	M10x35	3/8x1-1/2
944-16-16	5207002030	5208002030	1"	27,8	57,2	M12x45	-
944-20-20	5207002050	5208002050	1 1/4"	31,8	66,7	M14x50	-
944-24-24	5207002070	5208002070	1 1/2"	36,5	79,4	M16x55	5/8x2
944-32-32	5207002090	5208002090	2"	44,5	96,8	M20x70	3/4x2-1/2

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.



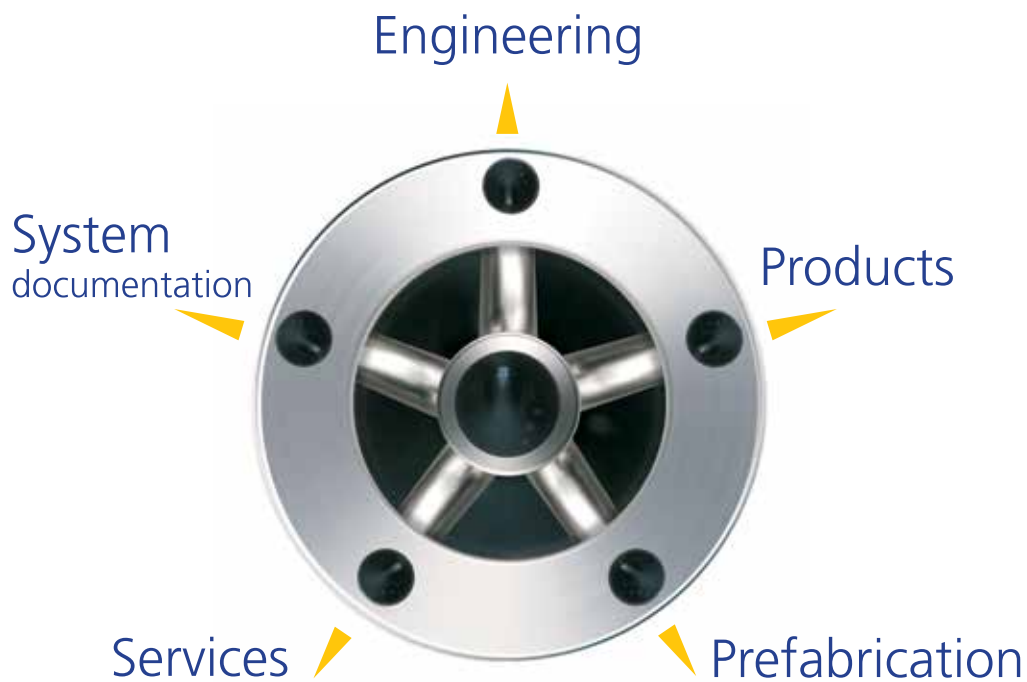
FULL FLANGES

Part No	ID Code CS	ID Code SS	Connection Size	A	B	Bolt recommendation, 10.9	
						mm	UNC
946-08-08	5207004000	5208004000	1/2"	18,2	40,5	M8x30	5/16x1-1/4
946-12-12	5207004010	5208004010	3/4"	23,8	50,8	M10x35	3/8x1-1/2
946-16-16	5207004030	5208004030	1"	27,8	57,2	M12x45	-
946-20-20	5207004050	5208004050	1 1/4"	31,8	66,7	M14x50	-
946-24-24	5207004070	5208004070	1 1/2"	36,5	79,4	M16x55	5/8x2
946-32-32	5207004090	5208004090	2"	44,5	96,8	M20x70	3/4x2-1/2

Material:
CS= Carbon steel with zinc plating
SS= Stainless steel. Add -316 to end of Part No.

GS-Hydro is the original provider of non-welded piping solutions with numerous benefits for a wide variety of demanding applications. We create value together with our customers by providing innovative fluid transfer solutions which enable safe operation, reduced environmental impact and lower total cost of ownership. We deliver our piping and hose solutions globally in more than twenty-five countries through own companies and partners.

GS-Hydro system offering



8990306616 Product Offering GS-Hydro Hoses & Couplings, September 2016