

FITTINGS - 46 / 48 SERIES

DIN – Metric

CA B-21 Female Metric 24° Light Series with O-Ring Swivel - Straight ISO 12151-2-SWS-L – DKOL	CE B-22 Female Metric 24° Light Series with O-Ring Swivel - 45° Elbow ISO 12151-2-SWE-L – DKOL 45°	CF B-23 Female Metric 24° Light Series with O-Ring Swivel - 90° Elbow ISO 12151-2-SWE-L – DKOL 90°	D0 B-24 Male Metric 24° Light Series - Rigid Straight ISO 12151-2-S-L – CEL
C9 B-25 Female Metric 24° - Swivel Heavy Series with O-Ring Straight ISO 12151-2-SWS-S – DKOS	OC B-26 Female Metric 24° - Swivel Heavy Series with O-Ring 45° Elbow ISO 12151-2-SWE-S – DKOS 45°	1C B-26 Female Metric 24° - Swivel Heavy Series with O-Ring 90° Elbow ISO 12151-2-SWE-S – DKOS 90°	D2 B-27 Male Metric 24° - Rigid Heavy Series - Straight ISO 12151-2-S-S – CES

BSP

EA B-28 BSP Swivel Female with O-Ring (60° Cone) BS 5200 – ISO 12151-6 – DKOR	EB B-28 BSP Swivel Female with O-Ring 45° Elbow (60° Cone) BS 5200 – ISO 12151-6 – DKOR 45°	EC B-29 BSP Swivel Female with O-Ring 90° Elbow (60° Cone) BS 5200 – ISO 12151-6 – DKOR 90°	D9 B-29 Male BSP Parallel Pipe Rigid - Straight (60° Cone) BS5200 – AGR
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SAE

03 B-30 Male JIC 37° - Rigid Straight ISO12151-5-S – AGJ	06/68 B-30 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight ISO12151-5-SWS – DKJ	37/3V B-31 Female JIC 37° SAE 45° - Dual Flare Swivel Female 45° Elbow ISO 12151-5-SWE 45° – DKJ 45°	39/3W B-31 Female JIC 37° SAE 45° - Dual Flare Swivel Female 90° Elbow ISO 12151-5-SWES – DKJ 90°
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ORFS

JC B-32 Female ORFS Swivel - Straight Short ISO 12151-1 – SWSA SAE J516 – ORFS	J7 B-32 Female ORFS - Swivel 45° Elbow ISO 12151-1 - SWE 45° SAE J516 – ORFS 45°	J9 B-33 Female ORFS - Swivel 90° Elbow - Short Drop ISO 12151-1 - SWES SAE J516 – ORFS 90°	JM B-33 ORFS Male ISO 12151-1-S – SAE J516
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Flange

15 B-34 ISO 6162-1-Flange Straight ISO 12151-3-S-L – SFL (21.0 MPa/ 3000 psi)	17 B-34 ISO 6162-1 Flange 45° Elbow ISO 12151-3 - E45 - L – SFL 45° (21.0 MPa/ 3000 psi)	19 B-35 ISO 6162-1-Flange 90° Elbow ISO 12151-3 - E-L – SFL 90° (21.0 MPa/ 3000 psi)
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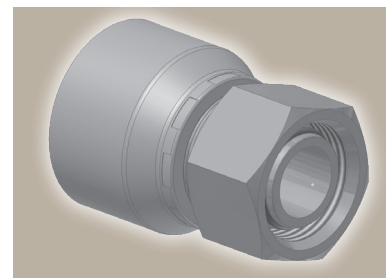
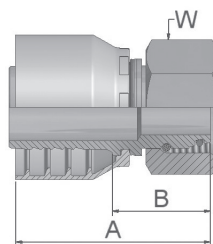
CA

Female Metric 24°

Light Series with O-Ring

Swivel - Straight

ISO 12151-2-SWS-L – DK0L



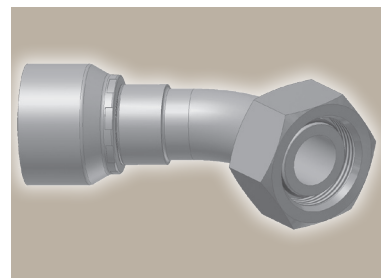
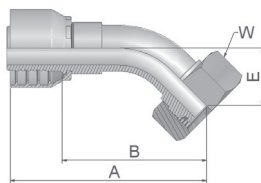
Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
1CA46-6-4	1CA48-6-4	6	1/4	-4	6.4	M12x1.5	6	46	22	14	50.0
	1CA48-6-4C	6	1/4	-4	6.4	M12x1.5	6	46	22	14	31.5
1CA46-8-4	1CA48-8-4	6	1/4	-4	6.4	M14x1.5	8	47	24	17	50.0
	1CA48-8-4C	6	1/4	-4	6.4	M14x1.5	8	47	23	17	31.5
1CA46-10-4	1CA48-10-4	6	1/4	-4	6.4	M16x1.5	10	47	22	19	50.0
1CA46-12-4	1CA48-12-4	6	1/4	-4	6.4	M18x1.5	12	46	22	22	40.0
1CA46-8-5	1CA48-8-5	8	5/16	-5	7.9	M14x1.5	8	50	26	17	50.0
1CA46-8-6	1CA48-8-6	10	3/8	-6	9.5	M14x1.5	8	49	26	17	50.0
1CA46-10-5	1CA48-10-5	8	5/16	-5	7.9	M16x1.5	10	46	23	19	50.0
	1CA48-10-5C	8	5/16	-5	7.9	M16x1.5	10	46	22	19	31.5
1CA46-10-6	1CA48-10-6	10	3/8	-6	9.5	M16x1.5	10	48	25	19	50.0
	1CA48-10-6C	10	3/8	-6	9.5	M16x1.5	10	48	25	19	31.5
1CA46-12-5	1CA48-12-5	8	5/16	-5	7.9	M18x1.5	12	46	22	22	40.0
	1CA48-12-5C	8	5/16	-5	7.9	M18x1.5	12	46	23	22	31.5
1CA46-12-6	1CA48-12-6	10	3/8	-6	9.5	M18x1.5	12	46	23	22	40.0
	1CA48-12-6C	10	3/8	-6	9.5	M18x1.5	12	46	23	22	31.5
1CA46-15-6	1CA48-15-6	10	3/8	-6	9.5	M22x1.5	15	48	25	27	40.0
1CA46-12-8	1CA48-12-8	12	1/2	-8	12.7	M18x1.5	12	50	27	22	40.0
1CA46-15-8	1CA48-15-8	12	1/2	-8	12.7	M22x1.5	15	50	26	27	40.0
	1CA48-15-8C	12	1/2	-8	12.7	M22x1.5	15	50	26	27	31.5
1CA46-15-10	1CA48-15-10	16	5/8	-10	15.9	M22x1.5	15	54	29	27	40.0
1CA46-18-10	1CA48-18-10	16	5/8	-10	15.9	M26x1.5	18	50	25	32	40.0
	1CA48-18-10C	16	5/8	-10	15.9	M26x1.5	18	50	25	32	31.5
1CA46-18-12	1CA48-18-12	19	3/4	-12	19.1	M26x1.5	18	51	25	32	40.0
1CA46-18-8	1CA48-18-8	12	1/2	-8	12.7	M26x1.5	18	49	25	32	40.0
1CA46-22-10	1CA48-22-10	16	5/8	-10	15.9	M30x2	22	58	33	36	25.0
1CA46-22-12	1CA48-22-12	19	3/4	-12	19.1	M30x2	22	56	30	36	25.0
	1CA48-22-12C	19	3/4	-12	19.1	M30x2	22	56	30	36	16.6
1CA46-22-16	1CA48-22-16	25	1	-16	25.4	M30x2	22	60	30	36	25.0
	1CA48-28-12	19	3/4	-12	19.1	M36x2	28	61	35	41	25.0
1CA46-28-16	1CA48-28-16	25	1	-16	25.4	M36x2	28	63	33	41	25.0
	1CA48-28-16C	25	1	-16	25.4	M36x2	28	63	33	41	16.0
	1CA48-28-20	31	1 1/4	-20	31.8	M36x2	28	81	34	41	25.0
	1CA48-35-16	25	1	-16	25.4	M45x2	35	63	33	50	25.0
1CA46-35-20	1CA48-35-20	31	1 1/4	-20	31.8	M45x2	35	82	35	50	25.0
	1CA48-35-20C	31	1 1/4	-20	31.8	M45x2	35	82	35	50	16.0
	1CA48-35-24	38	1 1/2	-24	38.1	M45x2	35	75	37	50	25.0
	1CA48-42-20	31	1 1/4	-20	31.8	M52x2	42	82	35	60	25.0
	1CA48-42-24	38	1 1/2	-24	38.1	M52x2	42	77	39	60	25.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.
Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

* Suffix C = Stainless

CE**Female Metric 24°****Light Series with O-Ring****Swivel - 45° Elbow**

ISO 12151-2-SWE -L – DKOL 45°



Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm							
1CE46-6-4	1CE48-6-4	6	1/4	-4	6.4	M12x1.5	6	70	45	19	14	50.0
1CE46-8-4	1CE48-8-4	6	1/4	-4	6.4	M14x1.5	8	59	36	16	17	50.0
1CE46-10-4	1CE48-10-4	6	1/4	-4	6.4	M16x1.5	10	59	36	16	19	50.0
1CE46-10-5	1CE48-10-5	8	5/16	-5	7.9	M16x1.5	10	68	44	16	19	50.0
1CE46-10-6	1CE48-10-6	10	3/8	-6	9.5	M16x1.5	10	69	46	20	19	50.0
1CE46-12-5	1CE48-12-5	8	5/16	-5	7.9	M18x1.5	12	61	38	17	22	40.0
1CE46-12-6	1CE48-12-6	10	3/8	-6	9.5	M18x1.5	12	68	45	19	22	40.0
	1CE48-12-8	12	1/2	-8	12.7	M18x1.5	12	75	51	24	22	40.0
	1CE48-15-6	10	3/8	-6	9.5	M22x1.5	15	69	46	20	27	40.0
1CE46-15-8	1CE48-15-8	12	1/2	-8	12.7	M22x1.5	15	71	48	23	27	40.0
	1CE48-18-8	12	1/2	-8	12.7	M26x1.5	18	71	47	22	32	40.0
	1CE48-15-10	16	5/8	-10	15.9	M22x1.5	15	79	54	26	27	40.0
1CE46-18-10	1CE48-18-10	16	5/8	-10	15.9	M26x1.5	18	75	50	23	32	40.0
	1CE48-18-12	19	3/4	-12	19.1	M26x1.5	18	90	64	27	32	40.0
	1CE48-22-10	16	5/8	-10	15.9	M30x2	22	82	57	24	36	25.0
1CE46-22-12	1CE48-22-12	19	3/4	-12	19.1	M30x2	22	88	62	26	36	25.0
	1CE48-28-12	19	3/4	-12	19.1	M36x2	28	90	64	28	41	25.0
1CE46-28-16	1CE48-28-16	25	1	-16	25.4	M36x2	28	113	83	33	41	25.0
1CE46-35-20	1CE48-35-20	31	1 1/4	-20	31.8	M45x2	35	141	94	37	50	25.0
	1CE48-42-24	38	1 1/2	-24	38.1	M52x2	42	155	117	49	60	25.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.

Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

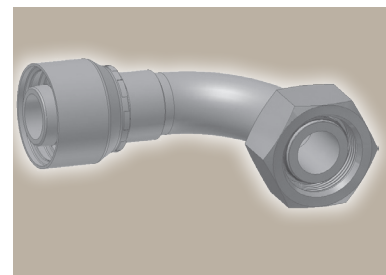
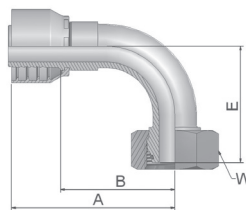
CF

Female Metric 24°

Light Series with O-Ring

Swivel - 90° Elbow

ISO 12151-2-SWE-L – DKOL 90°



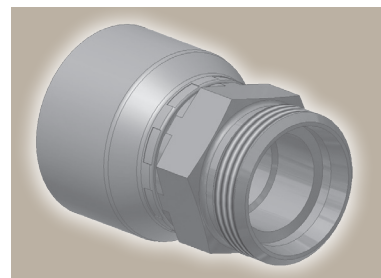
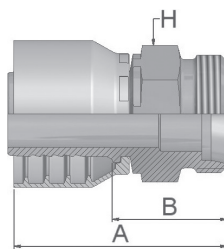
Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm							
1CF46-6-4	1CF48-6-4	6	1/4	-4	6.4	M12x1.5	6	57	33	33	14	50.0
1CF46-8-4	1CF48-8-4	6	1/4	-4	6.4	M14x1.5	8	51	28	29	17	50.0
	1CF48-8-4C	6	1/4	-4	6.4	M14x1.5	8	51	28	29	17	31.5
1CF46-8-5	1CF48-8-5	8	5/16	-5	7.9	M14x1.5	8	62	38	35	17	50.0
1CF46-10-4	1CF48-10-4	6	1/4	-4	6.4	M16x1.5	10	52	28	30	19	50.0
	1CF48-10-4C	6	1/4	-4	6.4	M16x1.5	10	52	28	30	19	31.5
1CF46-10-5	1CF48-10-5	8	5/16	-5	7.9	M16x1.5	10	61	37	30	19	50.0
	1CF48-10-5C	8	5/16	-5	7.9	M16x1.5	10	61	37	30	19	31.5
1CF46-10-6	1CF48-10-6	10	3/8	-6	9.5	M16x1.5	10	60	37	38	19	50.0
	1CF48-10-6C	10	3/8	-6	9.5	M16x1.5	10	60	37	38	19	31.5
1CF46-12-4	1CF48-12-4	6	1/4	-4	6.4	M18x1.5	12	53	26	29	22	40.0
1CF46-12-5	1CF48-12-5	8	5/16	-5	7.9	M18x1.5	12	60	37	30	22	40.0
1CF46-12-6	1CF48-12-6	10	3/8	-6	9.5	M18x1.5	12	58	36	35	22	40.0
	1CF48-12-6C	10	3/8	-6	9.5	M18x1.5	12	58	36	35	22	31.5
1CF46-12-8	1CF48-12-8	12	1/2	-8	12.7	M18x1.5	12	63	39	45	22	40.0
1CF46-15-6	1CF48-15-6	10	3/8	-6	9.5	M22x1.5	15	58	35	37	27	40.0
1CF46-15-8	1CF48-15-8	12	1/2	-8	12.7	M22x1.5	15	61	37	43	27	40.0
	1CF48-15-8C	12	1/2	-8	12.7	M22x1.5	15	61	37	43	27	31.5
	1CF48-15-10	16	5/8	-10	15.9	M22x1.5	15	67	42	51	27	40.0
1CF46-18-8	1CF48-18-8	12	1/2	-8	12.7	M26x1.5	18	65	41	43	32	40.0
1CF46-18-10	1CF48-18-10	16	5/8	-10	15.9	M26x1.5	18	66	41	45	32	40.0
	1CF48-18-10C	16	5/8	-10	15.9	M26x1.5	18	66	41	45	32	31.5
1CF46-18-12	1CF48-18-12	19	3/4	-12	19.1	M26x1.5	18	80	54	56	32	40.0
1CF46-22-12	1CF48-22-12	19	3/4	-12	19.1	M30x2	22	80	54	55	36	25.0
	1CF48-22-12C	19	3/4	-12	19.1	M30x2	22	80	54	55	36	16.6
	1CF48-28-12	19	3/4	-12	19.1	M36x2	28	80	54	57	41	25.0
1CF46-28-16	1CF48-28-16	25	1	-16	25.4	M36x2	28	101	72	71	41	25.0
	1CF48-28-16C	25	1	-16	25.4	M36x2	28	101	72	71	41	16.0
	1CF48-35-16	25	1	-16	25.4	M45x2	35	101	72	72	50	25.0
1CF46-35-20	1CF48-35-20	31	1 1/4	-20	31.8	M45x2	35	130	83	79	50	25.0
	1CF48-35-20C	31	1 1/4	-20	31.8	M45x2	35	130	83	79	50	16.0
	1CF48-42-24	38	1 1/2	-24	38.1	M52x2	42	139	101	101	60	25.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.
Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

* Suffix C = Stainless

D0**Male Metric 24°****Light Series - Rigid****Straight**

ISO 12151-2-S-L – CEL



Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm	Max WP MPa
		DN	Inch	Size	mm						
1D046-6-4	1D048-6-4	6	1/4	-4	6.4	M12x1.5	6	44	20	12	50.0
1D046-8-4	1D048-8-4	6	1/4	-4	6.4	M14x1.5	8	46	22	14	50.0
	1D048-8-4C	6	1/4	-4	6.4	M14x1.5	8	46	22	14	31.5
1D046-10-4	1D048-10-4	6	1/4	-4	6.4	M16x1.5	10	48	24	17	50.0
1D046-12-4	1D048-12-4	6	1/4	-4	6.4	M18x1.5	12	48	24	19	40.0
1D046-10-5	1D048-10-5	8	5/16	-5	7.9	M16x1.5	10	48	24	17	50.0
1D046-12-5	1D048-12-5	8	5/16	-5	7.9	M18x1.5	12	48	24	19	40.0
1D046-10-6	1D048-10-6	10	3/8	-6	9.5	M16x1.5	10	47	24	17	50.0
1D046-12-6	1D048-12-6	10	3/8	-6	9.5	M18x1.5	12	47	24	19	40.0
1D046-15-6	1D048-15-6	10	3/8	-6	9.5	M22x1.5	15	49	26	22	40.0
1D046-15-8	1D048-15-8	12	1/2	-8	12.7	M22x1.5	15	50	26	22	40.0
1D046-18-8	1D048-18-8	12	1/2	-8	12.7	M26x1.5	18	53	29	27	25.0
	1D048-15-10	16	5/8	-10	15.9	M22x1.5	15	57	29	27	40.0
1D046-18-10	1D048-18-10	16	5/8	-10	15.9	M26x1.5	18	54	29	27	25.0
	1D048-18-12	19	3/4	-12	19.1	M26x1.5	18	55	29	27	25.0
1D046-22-12	1D048-22-12	19	3/4	-12	19.1	M30x2	22	59	33	30	25.0
1D046-28-16	1D048-28-16	25	1	-16	25.4	M36x2	28	65	35	36	25.0
1D046-35-20	1D048-35-20	31	1 1/4	-20	31.8	M45x2	35	85	38	46	25.0
	1D048-42-24	38	1 1/2	-24	38.1	M52x2	42	77	39	41 55	25.0

* Suffix C = Stainless

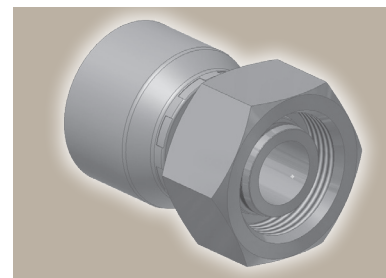
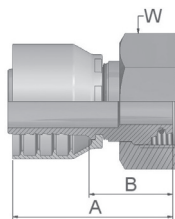
C9

Female Metric 24° - Swivel

Heavy Series with O-Ring

Straight

ISO 12151-2-SWS-S – DK05



Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
1C946-6-4	1C948-6-4	6	1/4	-4	6.4	M14x1.5	6	49	26	17	63.0
1C946-8-4	1C948-8-4	6	1/4	-4	6.4	M16x1.5	8	47	23	19	63.0
1C946-10-4	1C948-10-4	6	1/4	-4	6.4	M18x1.5	10	46	22	22	63.0
1C946-12-4	1C948-12-4	6	1/4	-4	6.4	M20x1.5	12	47	24	24	63.0
	1C948-8-5	8	5/16	-5	7.9	M16x1.5	8	46	23	19	63.0
1C946-10-5	1C948-10-5	8	5/16	-5	7.9	M18x1.5	10	46	22	22	63.0
1C946-12-5	1C948-12-5	8	5/16	-5	7.9	M20x1.5	12	48	24	24	63.0
	1C948-8-6	10	3/8	-6	9.5	M16x1.5	8	49	26	19	63.0
1C946-10-6	1C948-10-6	10	3/8	-6	9.5	M18x1.5	10	45	22	22	63.0
1C946-12-6	1C948-12-6	10	3/8	-6	9.5	M20x1.5	12	47	24	24	63.0
	1C948-12-6C	10	3/8	-6	9.5	M20x1.5	12	47	24	24	63.0
1C946-14-6	1C948-14-6	10	3/8	-6	9.5	M22x1.5	14	47	24	27	63.0
	1C948-16-6	10	3/8	-6	9.5	M24x1.5	16	50	28	30	63.0
1C946-12-8	1C948-12-8	12	1/2	-8	12.7	M20x1.5	12	51	28	24	63.0
	1C948-12-8C	12	1/2	-8	12.7	M20x1.5	12	51	28	24	63.0
	1C948-14-8	12	1/2	-8	12.7	M22x1.5	14	48	24	27	63.0
1C946-16-8	1C948-16-8	12	1/2	-8	12.7	M24x1.5	16	51	28	30	63.0
	1C948-16-8C	12	1/2	-8	12.7	M24x1.5	16	51	28	30	40.0
	1C948-20-8	12	1/2	-8	12.7	M30x2	20	53	29	36	42.0
1C946-16-10	1C948-16-10	16	5/8	-10	15.9	M24x1.5	16	53	28	30	63.0
1C946-20-10	1C948-20-10	16	5/8	-10	15.9	M30x2	20	53	28	36	42.0
	1C948-20-10C	16	5/8	-10	15.9	M30x2	20	53	28	36	40.0
1C946-20-12	1C948-20-12	19	3/4	-12	19.1	M30x2	20	56	30	36	42.0
1C946-25-12	1C948-25-12	19	3/4	-12	19.1	M36x2	25	61	35	46	42.0
1C946-25-16	1C948-25-16	25	1	-16	25.4	M36x2	25	63	33	46	42.0
1C946-30-16	1C948-30-16	25	1	-16	25.4	M42x2	30	67	38	50	42.0
1C946-38-20	1C948-38-20	31	1 1/4	-20	31.8	M52x2	38	80	33	60	42.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.
Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

* Suffix C = Stainless

Medium Pressure

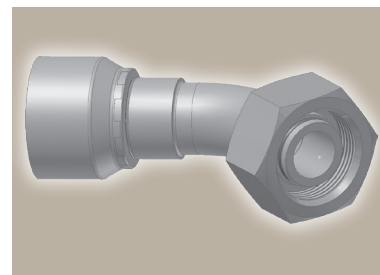
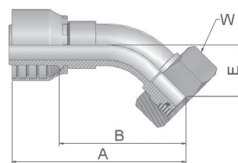
0C

Female Metric 24° - Swivel

Heavy Series with O-Ring

45° Elbow

ISO 12151-2 - SWE -S - DKOS 45°



Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm							
	10C48-6-4	6	1/4	-4	6.4	M14x1.5	6	61	38	16	17	63.0
10C46-8-4	10C48-8-4	6	1/4	-4	6.4	M16x1.5	8	59	35	16	19	63.0
10C46-10-4	10C48-10-4	6	1/4	-4	6.4	M18x1.5	10	59	36	16	22	63.0
10C46-12-5	10C48-12-5	8	5/16	-5	7.9	M20x1.5	12	70	47	17	24	63.0
	10C48-10-6	10	3/8	-6	9.5	M18x1.5	10	70	47	19	22	63.0
10C46-12-6	10C48-12-6	10	3/8	-6	9.5	M20x1.5	12	69	46	20	24	63.0
10C46-16-8	10C48-16-8	12	1/2	-8	12.7	M24x1.5	16	72	49	23	30	63.0
10C46-20-10	10C48-20-10	16	5/8	-10	15.9	M30x2	20	76	51	25	36	42.0
10C46-25-12	10C48-25-12	19	3/4	-12	19.1	M36x2	25	91	65	29	46	42.0
	10C48-30-16	25	1	-16	25.4	M42x2	30	115	86	36	50	42.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.

Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

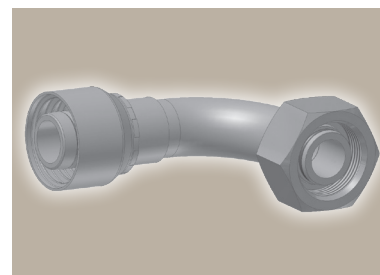
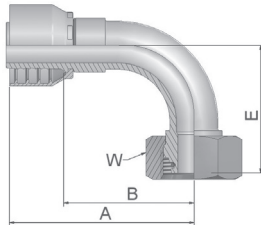
1C

Female Metric 24° - Swivel

Heavy Series with O-Ring

90° Elbow

ISO 12151-2-SWE-S - DKOS 90°



Part Number		Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm							
11C46-6-4	11C48-6-4	6	1/4	-4	6.4	M14x1.5	6	62	39	32	17	63.0
11C46-8-4	11C48-8-4	6	1/4	-4	6.4	M16x1.5	8	50	26	29	19	63.0
11C46-10-4	11C48-10-4	6	1/4	-4	6.4	M18x1.5	10	50	26	29	22	63.0
11C46-10-5	11C48-10-5	8	5/16	-5	7.9	M18x1.5	10	60	36	31	22	63.0
11C46-12-5	11C48-12-5	8	5/16	-5	7.9	M20x1.5	12	60	36	32	24	63.0
11C46-10-6	11C48-10-6	10	3/8	-6	9.5	M18x1.5	10	59	37	36	22	63.0
11C46-12-6	11C48-12-6	10	3/8	-6	9.5	M20x1.5	12	58	35	37	24	63.0
	11C48-14-6	10	3/8	-6	9.5	M22x1.5	14	58	35	37	27	63.0
11C46-16-8	11C48-16-8	12	1/2	-8	12.7	M24x1.5	16	61	37	45	30	63.0
	11C48-16-8C	12	1/2	-8	12.7	M24x1.5	16	61	37	45	30	40.0
11C46-20-10	11C48-20-10	16	5/8	-10	15.9	M30x2	20	65	40	48	36	42.0
11C46-25-12	11C48-25-12	19	3/4	-12	19.1	M36x2	25	80	54	59	46	42.0
11C46-30-16	11C48-30-16	25	1	-16	25.4	M42x2	30	104	75	75	50	42.0
11C46-38-20	11C48-38-20	31	1 1/4	-20	31.8	M52x2	38	130	83	78	60	42.0

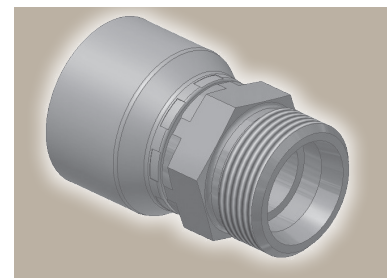
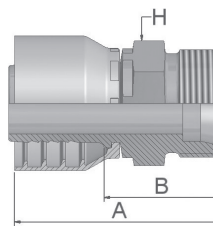
Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.

Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

* Suffix C = Stainless

D2**Male Metric 24° - Rigid****Heavy Series - Straight**

ISO 12151-2-S-S – CES



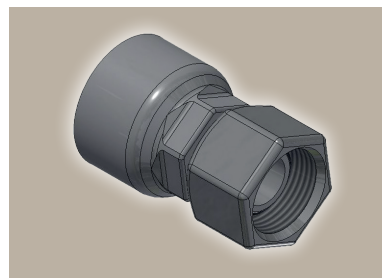
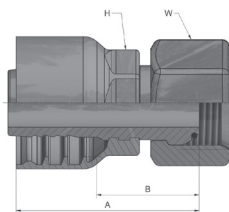
Part Number		Hose I.D.				Thread		Tube	A	B	H	Max WP
		DN	Inch	Size	mm	metric		O.D.				
	1D248-8-4	6	1/4	-4	6.4	M16x1.5		8	48	24	17	63.0
	1D248-10-4	6	1/4	-4	6.4	M18x1.5		10	50	26	19	63.0
	1D248-10-5	8	5/16	-5	7.9	M18x1.5		10	50	26	19	63.0
1D246-12-5	1D248-12-5	8	5/16	-5	7.9	M20x1.5		12	50	26	22	63.0
1D246-12-6	1D248-12-6	10	3/8	-6	9.5	M20x1.5		12	49	26	22	63.0
	1D248-14-6	10	3/8	-6	9.5	M22x1.5		14	51	28	22	63.0
1D246-16-8	1D248-16-8	12	1/2	-8	12.7	M24x1.5		16	52	29	24	63.0
1D246-20-10	1D248-20-10	16	5/8	-10	15.9	M30x2		20	58	32	30	42.0
	1D248-20-12	19	3/4	-12	19.1	M30x2		20	61	35	30	42.0
1D246-25-12	1D248-25-12	19	3/4	-12	19.1	M36x2		25	64	38	36	42.0
	1D248-30-16	25	1	-16	25.4	M42x2		30	71	42	46	42.0

EA

BSP Swivel Female

with O-Ring (60° Cone)

BS 5200 – ISO 12151-6 – DKOR



*New 3S-Fitting-Design

Part Number	Hose I.D.				Thread BSP	A mm	B mm	H mm	W mm	Max WP MPa
	DN	Inch	Size	mm						
1EA48-2-4	6	1/4	-4	6.4	1/8x28	41	17		14	63.0
1EA48-4-4	6	1/4	-4	6.4	1/4x19	40	17		19	45.0
1EA48-4-5	8	5/16	-5	7.9	1/4x19	45	21		19	45.0
1EA48-6-4	6	1/4	-4	6.4	3/8x19	49	26		22	45.0
1EA48-6-5	8	5/16	-5	7.9	3/8x19	50	25		22	45.0
1EA46-6-6	10	3/8	-6	9.5	3/8x19	43	20		22	45.0
1EA48-8-6	10	3/8	-6	9.5	1/2x14	51	28		27	42.0
1EA48-6-8	12	1/2	-8	12.7	3/8x19	46	22		22	45.0
1EA48-8-8	12	1/2	-8	12.7	1/2x14	45	22		27	42.0
1EA48-8-8C	12	1/2	-8	12.7	1/2x14	45	22		27	42.0
1EA48-10-10*	16	5/8	-10	15.9	5/8x14	50	27	24	30	42.0
1EA48-12-10	16	5/8	-10	15.9	3/4x14	54	29		32	42.0
1EA48-12-12*	19	3/4	-12	19.1	3/4x14	53	29	27	32	42.0
1EA48-16-12	19	3/4	-12	19.1	1x11	61	35		41	42.0
1EA48-16-16*	25	1	-16	25.4	1x11	66	38	32	41	42.0
1EA48-16-16C*	25	1	-16	25.4	1x11	61	31		41	42.0
1EA48-20-20	31	1 1/4	-20	31.8	1 1/4x11	78	31		50	35.0
1EA48-24-24	38	1 1/2	-24	38.1	1 1/2x11	72	34		55	30.0
1EA48-32-32	50	2	-32	50.8	2x11	81	33		70	25.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.
Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

* Suffix C = Stainless

* Crimp hex version

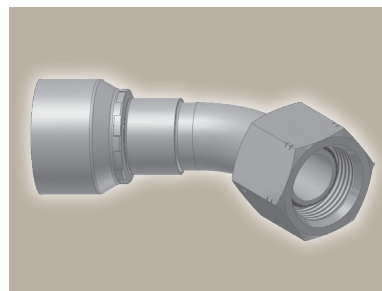
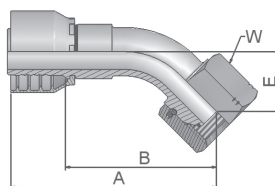
EB

BSP Swivel Female

with O-Ring

45° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR 45°



Part Number	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm	Max WP MPa
	DN	Inch	Size	mm						
1EB48-4-4	6	1/4	-4	6.4	1/4x19	57	34	14	19	45.0
1EB48-6-6	10	3/8	-6	9.5	3/8x19	69	46	17	22	45.0
1EB48-8-8	12	1/2	-8	12.7	1/2x14	71	48	20	27	42.0
1EB48-12-12	19	3/4	-12	19.1	3/4x14	89	63	27	32	42.0
1EB48-16-16	25	1	-16	25.4	1x11	112	82	33	41	42.0
1EB48-32-32	50	2	-32	50.8	2x11	210	161	66	70	25.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.
Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

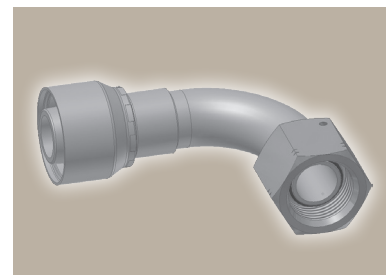
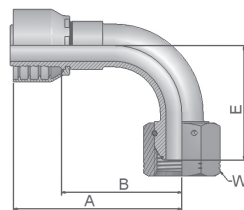
EC

BSP Swivel Female

with O-Ring

90° Elbow (60° Cone)

BS 5200 – ISO 12151-6 – DKOR 90°



Part Number	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm	Max WP MPa
	DN	Inch	Size	mm						
1EC48-4-4	6	1/4	-4	6.4	1/4x19	50	27	24	19	45.0
1EC48-6-4	6	1/4	-4	6.4	3/8x19	51	27	27	22	45.0
1EC48-6-5	8	5/16	-5	7.9	3/8x19	52	28	28	22	45.0
1EC48-6-6	10	3/8	-6	9.5	3/8x19	60	38	33	22	45.0
1EC48-8-6	10	3/8	-6	9.5	1/2x14	60	38	36	27	42.0
1EC48-8-8	12	1/2	-8	12.7	1/2x14	63	40	40	27	42.0
1EC48-10-10	16	5/8	-10	15.9	5/8x14	70	45	44	30	42.0
1EC48-12-12	19	3/4	-12	19.1	3/4x14	79	54	55	32	42.0
1EC48-16-16	25	1	-16	25.4	1x11	104	75	71	41	42.0
1EC48-16-16C	25	1	-16	25.4	1x11	104	75	71	41	42.0
1EC48-20-20	31	1 1/4	-20	31.8	1 1/4x11	129	82	75	50	35.0
1EC48-24-24	38	1 1/2	-24	38.1	1 1/2x11	140	102	103	55	30.0
1EC48-32-32	51	2	-32	50.8	2x11	185	137	132	70	25.0

Hose fittings are delivered with ozone resistant Nitrile (NBR) O-ring as a standard version. Working temperature from -40 °C up to +105 °C.
Hose fittings with special O-rings (Viton or EPDM) available on request. See the O-ring dimensions and part numbers in the 4400 catalogue.

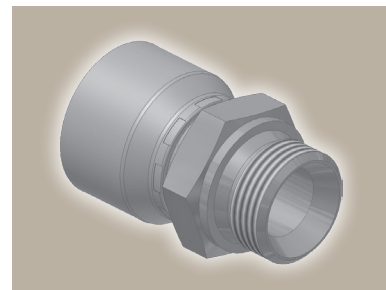
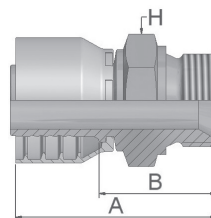
* Suffix C = Stainless

D9

Male BSP Parallel Pipe

Rigid - Straight (60° Cone)

BS5200 – AGR



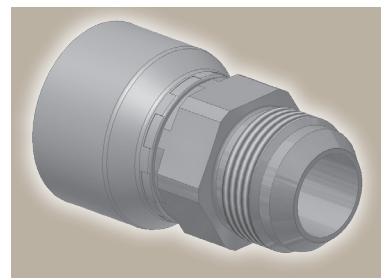
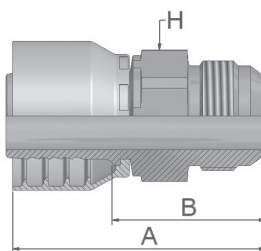
Part Number		Hose I.D.				Thread BSP	A mm	B mm	H mm	Max WP MPa
		DN	Inch	Size	mm					
1D946-4-4	1D948-2-4	6	1/4	-4	6.4	1/8x28	46	22	14	63.0
	1D948-4-4	6	1/4	-4	6.4	1/4x19	51	27	19	63.0
	1D948-6-4	6	1/4	-4	6.4	3/8x19	53	31	22	55.0
	1D948-8-4	6	1/4	-4	6.4	1/2x14	54	52	27	55.0
1D946-6-5	1D948-6-5	8	5/16	-5	7.9	3/8x19	55	31	22	55.0
	1D948-6-6	10	3/8	-6	9.5	3/8x19	54	31	22	55.0
	1D948-8-6	10	3/8	-6	9.5	1/2x14	56	33	27	43.0
	1D948-6-8	12	1/2	-8	12.7	3/8x19	54	30	22	43.0
1D946-8-6	1D948-8-8	12	1/2	-8	12.7	1/2x14	57	33	27	43.0
	1D948-10-10	16	5/8	-10	15.9	5/8x14	60	35	30	42.0
	1D948-12-12	19	3/4	-12	19.1	3/4x14	62	36	32	35.0
	1D948-16-16	25	1	-16	25.4	1x11	72	42	41	28.0
1D946-12-12	1D948-20-20	31	1 1/4	-20	31.8	1 1/4x11	92	45	50	25.0
	1D948-24-24	38	1 1/2	-24	38.1	1 1/2x11	87	49	60	21.0
1D948-32-32		51	2	-32	50.8	2x11	102	54	70	21.0

03

Male JIC 37° - Rigid

Straight

ISO12151-5-S - AGJ



Part Number		Hose I.D.				Thread UNF	A mm	B mm	H mm	Max WP MPa
		DN	Inch	Size	mm					
10346-4-4	10348-4-4	6	1/4	-4	6.4	7/16x20	52	29	14	41.0
10346-6-4	10348-6-4	6	1/4	-4	6.4	9/16x18	55	31	19	35.0
10346-6-6	10348-6-6	10	3/8	-6	9.5	9/16x18	56	31	19	35.0
10346-8-6	10348-8-6	10	3/8	-6	9.5	3/4x16	53	30	22	35.0
10346-8-8	10348-8-8	12	1/2	-8	12.7	3/4x16	57	34	22	35.0
10346-10-10	10348-10-10	16	5/8	-10	15.9	7/8x14	63	38	24	35.0

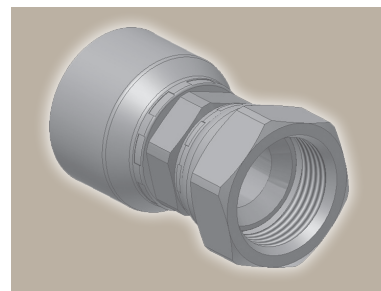
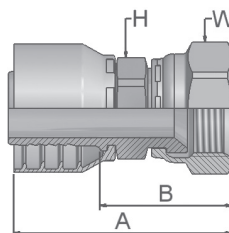
06/68

Female - JIC 37°

SAE 45° Dual Flare

Swivel - Straight

ISO12151-5-SWS - DKJ



*New 3S-Fitting-Design

Part Number		Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
10646-4-4*	10648-4-4*	6	1/4	-4	6.4	7/16x20	48	24	13	14	41.0
10646-6-4*	10648-6-4*	6	1/4	-4	6.4	9/16x18	51	27	13	19	35.0
10646-6-6*	10648-6-6*	10	3/8	-6	9.5	9/16x18	49	26	17	19	35.0
	10648-8-6*	10	3/8	-6	9.5	3/4x16	52	30	17	22	35.0
	10648-8-8*	12	1/2	-8	12.7	3/4x16	56	34	22	22	35.0
	10648-10-8*	12	1/2	-8	12.7	7/8x14	59	36	22	27	35.0
	10648-10-10*	16	5/8	-10	15.9	7/8x14	62	37	24	27	35.0
10646-12-10*	10648-12-10*	16	5/8	-10	15.9	1 1/16x12	63	39	24	32	35.0
10646-12-12*	10648-12-12*	19	3/4	-12	19.1	1 1/16x12	65	40	27	32	35.0
	10648-12-12C*	19	3/4	-12	19.1	1 1/16x12	65	40	27	32	35.0
10646-16-12	10648-16-12	19	3/4	-12	19.1	1 5/16x12	71	45	32	41	28.0
10646-16-16*	10648-16-16*	25	1	-16	25.4	1 5/16x12	78	45	32	41	28.0
	10648-16-16C*	25	1	-16	25.4	1 5/16x12	78	45	32	41	28.0
	10648-20-16	25	1	-16	25.4	1 5/8x12	82	50	32	50	21.0
10646-20-20	10648-20-20	31	1 1/4	-20	31.8	1 5/8x12	100	53	46	50	21.0
	10648-24-24	38	1 1/2	-24	38.1	1 7/8x12	98	60	55	60	17.5
	10648-32-32	51	2	-32	50.8	2 1/2x12	120	72	65	75	17.5

* Suffix C = Stainless

* Crimp hex version

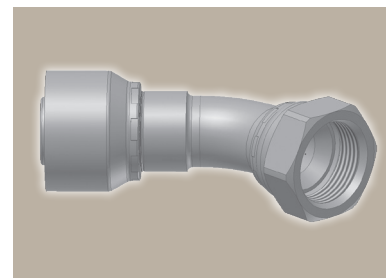
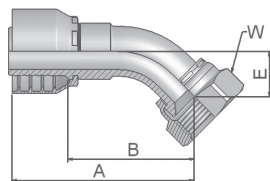
37/3V

Female JIC 37°

SAE 45° - Dual Flare

Swivel Female 45° Elbow

ISO 12151-5-SWE 45° - DKJ 45°



Part Number		Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
13V46-4-4	13V48-4-4	6	1/4	-4	6.4	7/16x20	53	29	10	17	41.0
13746-6-4	13748-6-4	6	1/4	-4	6.4	9/16x18	55	31	11	19	35.0
13746-6-6	13748-6-6	10	3/8	-6	9.5	9/16x18	60	37	11	19	35.0
13V46-8-6	13V48-8-6	10	3/8	-6	9.5	3/4x16	67	44	15	22	35.0
	13V48-8-8	12	1/2	-8	12.7	3/4x16	61	37	15	22	35.0
13V46-10-10	13V48-10-10	16	5/8	-10	15.9	7/8x14	69	44	16	27	35.0
13746-12-12	13748-12-12	19	3/4	-12	19.1	1 1/16x12	83	58	22	32	35.0
13746-16-16	13748-16-16	25	1	-16	25.4	1 5/16x12	99	70	24	41	28.0
	13748-20-20	31	1 1/4	-20	31.8	1 5/8x12	135	88	32	50	21.0
	13748-24-24	38	1 1/2	-24	38.1	1 7/8x12	165	127	58	60	17.5

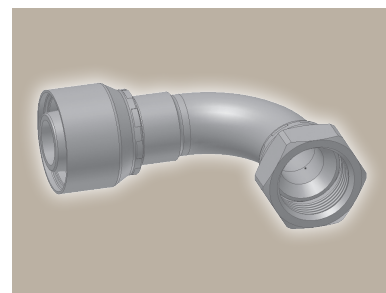
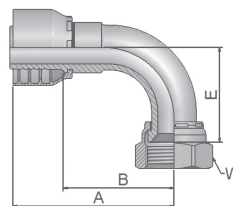
39/3W

Female JIC 37°

SAE 45° - Dual Flare

Swivel Female 90° Elbow

ISO 12151-5-SWES - DKJ 90°



Part Number		Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
13W46-4-4	13W48-4-4	6	1/4	-4	6.4	7/16x20	48	24	21	17	41.0
	13W48-5-4	6	1/4	-4	6.4	1/2x20	57	34	21	17	41.0
13946-6-4	13948-6-4	6	1/4	-4	6.4	9/16x18	49	25	23	19	35.0
13946-6-5	13948-6-5	8	5/16	-5	7.9	9/16x18	51	28	23	19	35.0
13946-6-6	13948-6-6	10	3/8	-6	9.5	9/16x18	51	28	23	19	35.0
13W46-8-6	13W48-8-6	10	3/8	-6	9.5	3/4x16	59	36	29	22	35.0
	13W48-10-6	10	3/8	-6	9.5	7/8x14	61	38	32	27	35.0
13W46-8-8	13W48-8-8	12	1/2	-8	12.7	3/4x16	55	31	29	22	35.0
13W46-10-8	13W48-10-8	12	1/2	-8	12.7	7/8x14	63	39	32	27	35.0
13W46-10-10	13W48-10-10	16	5/8	-10	15.9	7/8x14	64	39	33	27	35.0
	13W48-10-10C	16	5/8	-10	15.9	7/8x14	64	39	33	27	35.0
13946-12-10	13948-12-10	16	5/8	-10	15.9	1 1/16x12	74	49	48	32	35.0
13946-12-12	13948-12-12	19	3/4	-12	19.1	1 1/16x12	80	54	48	32	35.0
13946-16-12	13948-16-12	19	3/4	-12	19.1	1 5/16x12	80	54	56	41	28.0
13946-16-16	13948-16-16	25	1	-16	25.4	1 5/16x12	98	68	56	41	28.0
	13948-20-20	31	1 1/4	-20	31.8	1 5/8x12	129	82	70	50	21.0
	13948-24-24	38	1 1/2	-24	38.1	1 7/8x12	140	102	91	60	17.5

* Suffix C = Stainless

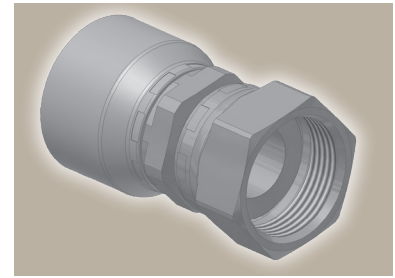
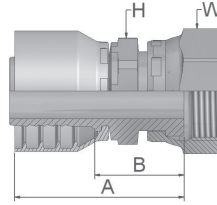
JC

Female ORFS

Swivel - Straight

Short

ISO 12151-1 – SWSA
SAE J516 – ORFS



*New 3S-Fitting-Design

Part Number		Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
1JC46-4-4*	1JC48-4-4*	6	1/4	-4	6.4	9/16x18	39	15	13	17	63.5
1JC46-6-4*	1JC48-6-4*	6	1/4	-4	6.4	11/16x16	40	17	13	22	63.5
1JC46-6-6*	1JC48-6-6*	10	3/8	-6	9.5	11/16x16	40	17	17	22	63.5
1JC46-8-6*	1JC48-8-6*	10	3/8	-6	9.5	13/16x16	41	19	17	24	63.5
1JC46-8-8*	1JC48-8-8*	12	1/2	-8	12.7	13/16x16	43	21	22	24	63.5
1JC46-10-8*	1JC48-10-8*	12	1/2	-8	12.7	1x14	46	22	22	30	41.0
1JC46-10-10*	1JC48-10-10*	16	5/8	-10	15.9	1x14	49	24	24	30	41.0
1JC46-12-10*	1JC48-12-10*	16	5/8	-10	15.9	1 3/16x12	51	26	24	36	41.0
1JC46-12-12*	1JC48-12-12*	19	3/4	-12	19.1	1 3/16x12	52	27	27	36	41.0
1JC46-16-16*	1JC48-16-16*	25	1	-16	25.4	1 7/16x12	63	31	32	41	41.0
1JC46-16-20	1JC48-16-20	31	1 1/4	-20	31.8	1 7/16x12	86	39	46	41	41.0
1JC46-20-20	1JC48-20-20	31	1 1/4	-20	31.8	1 11/16x12	85	36	50	50	28.0

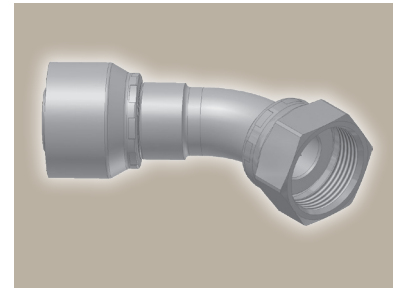
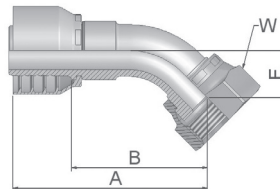
* Crimp hex version

J7

Female ORFS - Swivel

45° Elbow

ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°



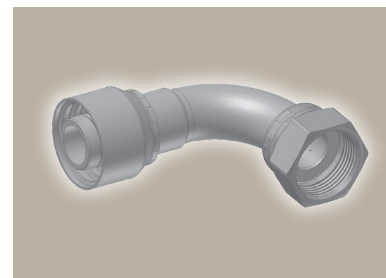
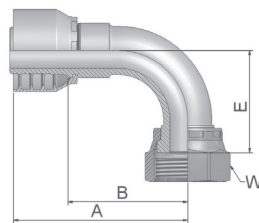
Part Number		Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
1J746-4-4	1J748-4-4	6	1/4	-4	6.4	9/16x18	54	31	10	19 17	63.5
1J746-6-6	1J748-6-6	10	3/8	-6	9.5	11/16x16	54	31	11	22	63.5
1J746-8-8	1J748-8-8	12	1/2	-8	12.7	13/16x16	61	38	15	24	63.5
1J746-10-10	1J748-10-10	16	5/8	-10	15.9	1x14	67	42	16	30	41.0
1J746-12-12	1J748-12-12	19	3/4	-12	19.1	1 3/16x12	83	57	21	36	41.0
1J746-16-16	1J748-16-16	25	1	-16	25.4	1 7/16x12	99	69	24	41	41.0
1J746-20-20	1J748-20-20	31	1 1/4	-20	31.8	1 11/16x12	130	82	27	50	28.0

J9

Female ORFS - Swivel

90° Elbow - Short Drop

ISO 12151-1 - SWES
SAE J516 - ORFS 90°



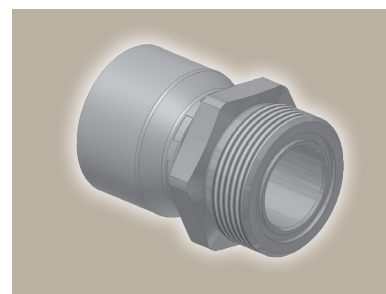
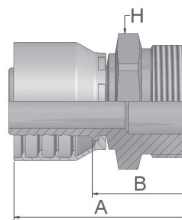
Part Number		Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm	Max WP MPa
		DN	Inch	Size	mm						
1J946-4-4	1J948-4-4	6	1/4	-4	6.4	9/16x18	52	29	21	17	63.5
1J946-6-4	1J948-6-4	6	1/4	-4	6.4	11/16x16	51	27	23	22	63.5
	1J948-8-4	6	1/4	-4	6.4	13/16x16	50	26	29	24	63.5
1J946-6-6	1J948-6-6	10	3/8	-6	9.5	11/16x16	52	29	23	22	63.5
1J946-8-6	1J948-8-6	10	3/8	-6	9.5	13/16x16	53	30	29	24	63.5
1J946-8-8	1J948-8-8	12	1/2	-8	12.7	13/16x16	55	32	29	24	63.5
1J946-10-8	1J948-10-8	12	1/2	-8	12.7	1x14	66	42	32	30	41.0
1J946-10-10	1J948-10-10	16	5/8	-10	15.9	1x14	65	39	32	30	41.0
1J946-10-12	1J948-10-12	19	3/4	-12	19.1	1x14	69	43	32	30	41.0
1J946-12-12	1J948-12-12	19	3/4	-12	19.1	1 3/16x12	80	54	48	36	41.0
1J946-16-16	1J948-16-16	25	1	-16	25.4	1 7/16x12	98	68	56	41	41.0
1J946-20-20	1J948-20-20	31	1 1/4	-20	31.8	1 11/16x12	129	82	64	50	28.0

Medium Pressure

JM

ORFS Male

ISO 12151-1-S - SAE J516



Part Number		Hose I.D.				Thread UNF	A mm	B mm	H mm	Max WP MPa
		DN	Inch	Size	mm					
1JM46-4-4	1JM48-4-4	6	1/4	-4	6.4	9/16x18	44	22	17	63.5
1JM46-6-6	1JM48-6-6	10	3/8	-6	9.5	11/16x16	47	24	19	63.5
1JM46-8-8	1JM48-8-8	12	1/2	-8	12.7	13/16x16	51	27	22	63.5
	1JM48-10-10	16	5/8	-10	15.9	1x14	57	32	27	41.0
	1JM48-10-12	19	3/4	-12	19.1	1x14	59	33	27	41.0
1JM46-12-12	1JM48-12-12	19	3/4	-12	19.1	1 3/16x12	60	34	32	41.0

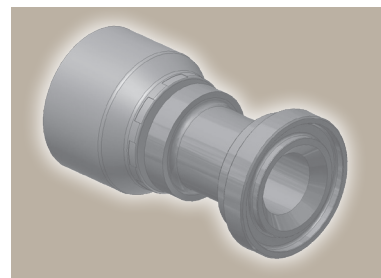
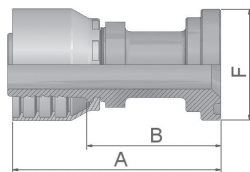
To select corresponding O-ring see inside our main catalog 4400.

15

ISO 6162-1-Flange

Straight

ISO 12151-3-S-L – SFL
(21.0 MPa/ 3000 psi)



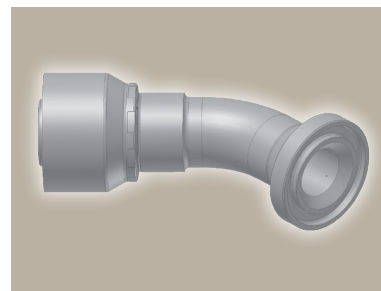
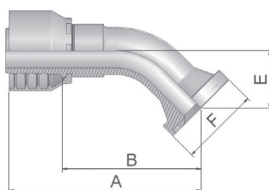
Part Number		Hose I.D.				Flange		A	B	F	Max WP
		DN	Inch	Size	mm	Inch		mm	mm	mm	MPa
11546-12-12	11548-12-12	19	3/4	-12	19.1	3/4		81	55	38	35.0
11546-16-16	11548-16-16	25	1	-16	25.4	1		84	54	45	35.0
	11548-20-20	31	1 1/4	-20	31.8	1 1/4		119	72	51	28.0
	11548-24-24	38	1 1/2	-24	38.1	1 1/2		117	79	60	28.0
	11548-32-32	51	2	-32	50.8	2		127	79	71	21.0

17

ISO 6162-1 Flange

45° Elbow

ISO 12151-3 - E45 - L – SFL 45°
(21.0 MPa/ 3000 psi)



Part Number		Hose I.D.				Flange		A	B	E	F	Max WP
		DN	Inch	Size	mm	Inch		mm	mm	mm	mm	MPa
11748-16-16		25	1	-16	25.4	1		107	78	32	45	35.0
11748-24-24		38	1 1/2	-24	38.1	1 1/2		151	113	44	60	28.0
11748-32-24		38	1 1/2	-24	38.1	2		150	112	44	71	21.0
11748-32-32		51	2	-32	50.8	2		202	153	56	71	21.0

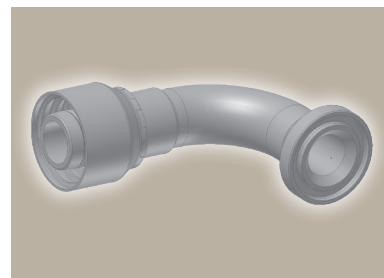
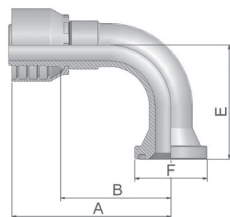
To select corresponding half-flange and O-ring see inside our main catalog 4400.

19

ISO 6162-1-Flange

90° Elbow

ISO 12151-3 - E- L - SFL 90°
(21.0 MPa/ 3000 psi)



Part Number		Hose I.D.				Flange	A	B	E	F	Max WP
		DN	Inch	Size	mm	Inch	mm	mm	mm	mm	MPa
	11948-12-12	19	3/4	-12	19.1	3/4	80	54	58	38	35.0
11946-16-12	11948-16-12	19	3/4	-12	19.1	1	80	54	58	45	35.0
11946-16-16	11948-16-16	25	1	-16	25.4	1	98	68	70	45	35.0
	11948-20-20	31	1 1/4	-20	31.8	1 1/4	130	83	90	51	28.0
	11948-24-20	31	1 1/4	-20	31.8	1 1/2	129	82	90	60	28.0
	11948-24-24	38	1 1/2	-24	38.1	1 1/2	149	111	104	60	28.0
	11948-32-24	38	1 1/2	-24	38.1	2	139	101	104	71	21.0
	11948-32-32	51	2	-32	50.8	2	180	132	138	71	21.0

Medium Pressure