









DIN – Metric

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SAE

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<p>XG</p> <p>Dd-18</p> <p>Caterpillar® Flange 60° Elbow</p> 	<p>XN</p> <p>Dd-19</p> <p>Caterpillar® Flange 90° Elbow</p> 	<p>K5</p> <p>Dd-19</p> <p>Komatsu® Flange Straight</p> 	<p>K7</p> <p>Dd-20</p> <p>Komatsu® Flange 45° Elbow</p> 
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<p>JM</p> <p>Dd-23</p> <p>ORFS Male ISO 12151-1-S – SAE J516</p> 			

French Standard

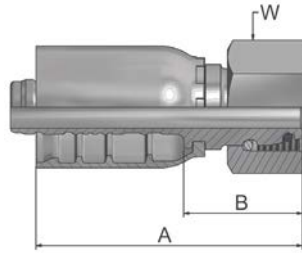
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<p>FG</p> <p>Dd-24</p> <p>Male French Gas Series Rigid – Straight (24° Cone)</p> 
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A large range of special hose fittings for the MRO market can be found on page Dd-25

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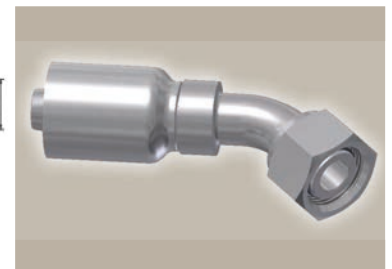
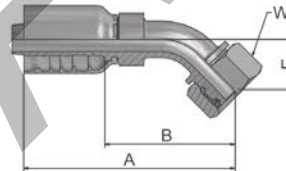
CA **Female Metric 24°
Light Series with O-Ring
Swivel - Straight**
ISO 12151-2-SWS-L – DKOL



Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
1CA77-15-8	12	1/2	-8	12,7	M22x1,5	15	63	28	27
1CA77-18-10	16	5/8	-10	15,9	M26x1,5	18	66	27	32
1CA77-18-12	19	3/4	-12	19,1	M26x1,5	18	74	28	32
1CA77-22-12	19	3/4	-12	19,1	M30x2	22	73	27	36
1CA77-22-16	25	1	-16	25,4	M30x2	22	88	33	36
1CA77-28-16	25	1	-16	25,4	M36x2	28	89	35	41
1CA77-35-20	31	1 1/4	-20	31,8	M45x2	35	100	37	50
1CA77-42-24	38	1 1/2	-24	38,1	M52x2	42	106	39	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

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
	DN	Inch	Size	mm						
1CE77-15-8	12	1/2	-8	12,7	M22x1,5	15	84	49	24	27
1CE77-22-12	19	3/4	-12	19,1	M30x2	22	120	74	29	36
1CE77-28-16	25	1	-16	25,4	M36x2	28	142	88	33	41
1CE77-35-20	31	1 1/4	-20	31,8	M45x2	35	162	98	37	50
1CE77-42-24	38	1 1/2	-24	38,1	M52x2	42	201	134	49	60

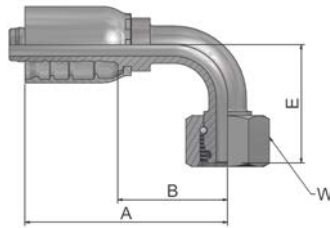
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

CF **Female Metric 24°
Light Series with O-Ring
Swivel - 90° Elbow**

ISO 12151-2-SWE-L – DKOL 90°

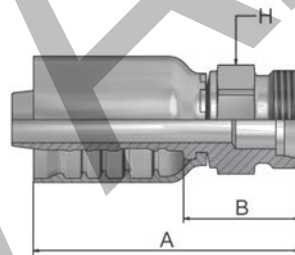


Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
1CF77-15-8	12	1/2	-8	12,7	M22x1,5	15	76	41	45	27
1CF77-18-10	16	5/8	-10	15,9	M26x1,5	18	92	53	49	32
1CF77-18-12	19	3/4	-12	19,1	M26x1,5	18	108	62	56	32
1CF77-22-12	19	3/4	-12	19,1	M30x2	22	108	62	59	36
1CF77-28-16	25	1	-16	25,4	M36x2	28	131	77	69	41
1CF77-35-20	31	1 1/4	-20	31,8	M45x2	35	151	87	79	50
1CF77-42-24	38	1 1/2	-24	38,1	M52x2	42	179	112	101	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

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

ISO 12151-2-S-L – CEL



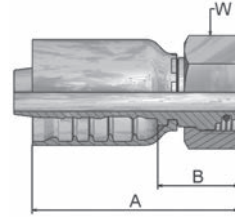
Part Number	Hose I.D.				Thread metric	A mm	B mm	H mm
	DN	Inch	Size	mm				
1D077-15-8	12	1/2	-8	12,7	M22x1,5	61	27	22
1D077-18-10	16	5/8	-10	15,9	M26x1,5	68	30	27
1D077-22-12	19	3/4	-12	19,1	M30x2	82	36	30
1D077-28-16	25	1	-16	25,4	M36x2	92	38	36

Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

C9 Female Metric 24° - Swivel Heavy Series with O-Ring Straight

ISO 12151-2-SWS-S – DKOS

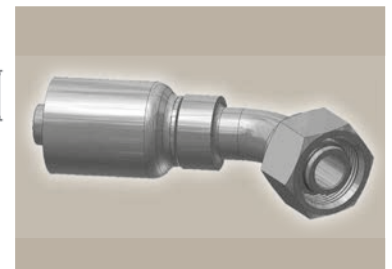
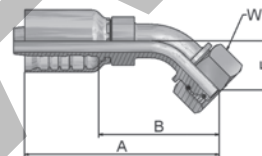


Part Number	Hose I.D.				Thread metric	A mm	B mm	W mm
	DN	Inch	Size	mm				
1C977-12-8	12	1/2	-8	12,7	M20x1,5	61	26	24
1C977-16-8	12	1/2	-8	12,7	M24x1,5	60	25	30
1C977-16-10	16	5/8	-10	15,9	M24x1,5	67	28	30
1C977-20-10	16	5/8	-10	15,9	M30x2	68	28	36
1C977-20-12	19	3/4	-12	19,1	M30x2	76	30	36
1C977-25-12	19	3/4	-12	19,1	M36x2	76,6	30,6	46
1C977-25-12-SW41	19	3/4	-12	19,1	M36x2	77	31	41
1C977-30-12	19	3/4	-12	19,1	M42x2	83	37	50
1C977-25-16	25	1	-16	25,4	M36x2	86	35	46
1C977-30-16	25	1	-16	25,4	M42x2	89	35	50
1C977-30-20	31	1 1/4	-20	31,8	M42x2	102	39	50
1C977-38-20	31	1 1/4	-20	31,8	M52x2	100	36	60
1C977-38-24	38	1 1/2	-24	38,1	M52x2	106	39	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

OC 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	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
10C77-16-8	12	1/2	-8	12,7	M24x1,5	83	49	24	30
10C77-12-10	16	5/8	-10	15,9	M20x1,5	105	66	26	24
10C77-16-10	16	5/8	-10	15,9	M24x1,5	111	64	24	30
10C77-20-10	16	5/8	-10	15,9	M30x2	107	68	28	36
10C77-20-12	19	3/4	-12	19,1	M30x2	120	74	30	36
10C77-25-12	19	3/4	-12	19,1	M36x2	119	73	29	46
10C77-25-12-SW41	19	3/4	-12	19,1	M36x2	119	73	29	41
10C77-30-12	19	3/4	-12	19,1	M42x2	121	75	30	50
10C77-25-16	25	1	-16	25,4	M36x2	142	88	33	46
10C77-30-16	25	1	-16	25,4	M42x2	142	88	33	50
10C77-30-20	31	1 1/4	-20	31,8	M42x2	155	91	34	50
10C77-38-20	31	1 1/4	-20	31,8	M52x2	161	97	37	60
10C77-38-24	38	1 1/2	-24	38,1	M52x2	195	128	49	60

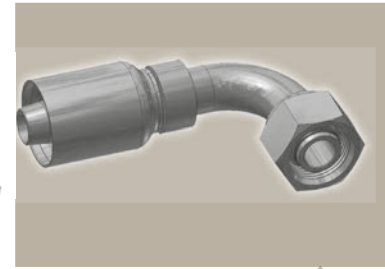
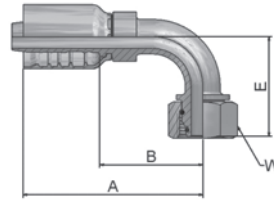
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

1C Female Metric 24° - Swivel Heavy Series with O-Ring 90° Elbow

ISO 12151-2-SWE-S – DKOS 90°

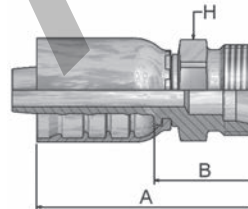


Part Number	Hose I.D.				Thread metric	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
11C77-16-8	12	1/2	-8	12,7	M24x1,5	77	42	45	30
11C77-16-10	16	5/8	-10	15,9	M24x1,5	92	53	45	30
11C77-20-10	16	5/8	-10	15,9	M30x2	92	53	53	36
11C77-20-12	19	3/4	-12	19,1	M30x2	108	62	60	36
11C77-25-12	19	3/4	-12	19,1	M36x2	108	62	58,5	46
11C77-25-12-SW41	19	3/4	-12	19,1	M36x2	108	62	59	41
11C77-30-12	19	3/4	-12	19,1	M42x2	108	62	61	50
11C77-25-16	25	1	-16	25,4	M36x2	131	77	69	46
11C77-30-16	25	1	-16	25,4	M42x2	131	77	69	50
11C77-30-20	31	1 1/4	-20	31,8	M42x2	145	82	73	50
11C77-38-20	31	1 1/4	-20	31,8	M52x2	151	87	78	60
11C77-38-24	38	1 1/2	-24	38,1	M52x2	179	112	101	60

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

D2 Male Metric 24° - Rigid Heavy Series - Straight

ISO 12151-2-S-S – CES



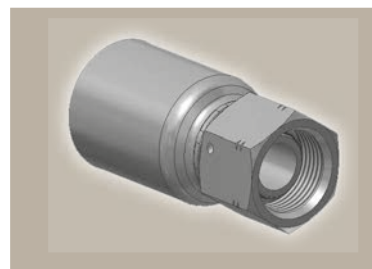
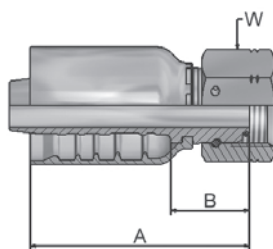
Part Number	Hose I.D.				Thread metric	A mm	B mm	H mm
	DN	Inch	Size	mm				
1D277-16-8	12	1/2	-8	12,7	M24x1,5	64	30	24
1D277-16-10	16	5/8	-10	15,9	M24x1,5	69	30	24
1D277-20-10	16	5/8	-10	15,9	M30x2	72	34	30
1D277-20-12	19	3/4	-12	19,1	M30x2	84	38	30
1D277-25-12	19	3/4	-12	19,1	M36x2	86	40	36
1D277-25-16	25	1	-16	25,4	M36x2	96	42	36
1D277-30-16	25	1	-16	25,4	M42x2	99	45	46
1D277-30-20	31	1 1/4	-20	31,8	M42x2	110	47	46
1D277-38-20	31	1 1/4	-20	31,8	M52x2	114	51	55
1D277-38-24	38	1 1/2	-24	38,1	M52x2	120	53	55

Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

EA BSP Swivel Female with O-Ring (60° Cone)

BS 5200 – ISO 12151-6 – DKOR

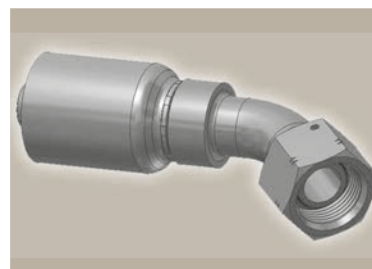
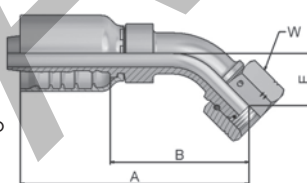


Part Number	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
1EA77-8-8	12	1/2	-8	12,7	1/2x14	58	23	27
1EA77-10-10	16	5/8	-10	15,9	5/8x14	62	23	30
1EA77-12-10	16	5/8	-10	15,9	3/4x14	63	24	32
1EA77-12-12	19	3/4	-12	19,1	3/4x14	72	26	32
1EA77-16-12	19	3/4	-12	19,1	1x11	82	36	41
1EA77-12-16	25	1	-16	25,4	3/4x14	83	29	32
1EA77-16-16	25	1	-16	25,4	1x11	90	36	41
1EA77-20-20	31	1 1/4	-20	31,8	1 1/4x11	96	33	50
1EA77-24-24	38	1 1/2	-24	38,1	1 1/2	103	36	55
1EA77-32-32	51	2	-32	50,8	2	118	40	70

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

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
	DN	Inch	Size	mm					
1EB77-8-8	12	1/2	-8	12,7	1/2x14	80	45	20	27
1EB77-10-10	16	5/8	-10	15,9	5/8x14	101	62	22	30
1EB77-12-10	16	5/8	-10	15,9	3/4x14	103	64	24	32
1EB77-12-12	19	3/4	-12	19,1	3/4x14	117	71	27	32
1EB77-16-12	19	3/4	-12	19,1	1x11	120	74	29	41
1EB77-16-16	25	1	-16	25,4	1x11	133	79	35	41
1EB77-20-20	31	1 1/4	-20	31,8	1 1/4x11	164	100	35	50
1EB77-24-24	38	1 1/2	-24	38,1	1 1/2	197	130	50	55
1EB77-32-32	51	2	-32	50,8	2	255	178	86	70

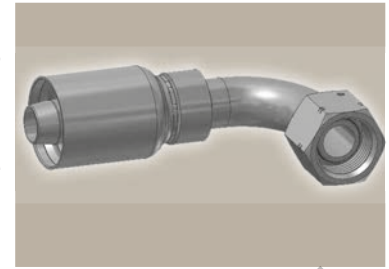
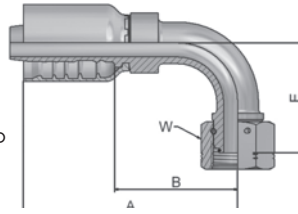
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

EC **BSP Swivel Female
with O-Ring
90° Elbow (60° Cone)**

BS 5200 – ISO 12151-6 – DKOR 90°

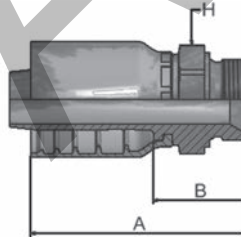


Part Number	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1EC77-8-8	12	1/2	-8	12,7	1/2x14	76	41	40	27
1EC77-10-10	16	5/8	-10	15,9	5/8x14	92	53	44	30
1EC77-12-10	16	5/8	-10	15,9	3/4x14	92	53	47	32
1EC77-12-12	19	3/4	-12	19,1	3/4x14	108	62	55	32
1EC77-16-12	19	3/4	-12	19,1	1x11	108	62	59	41
1EC77-16-16	25	1	-16	25,4	1x11	131	77	72	41
1EC77-20-20	31	1 1/4	-20	31,8	1 1/4x11	151	87	75	50
1EC77-24-24	38	1 1/2	-24	38,1	1 1/2	179	112	103	55
1EC77-32-32	51	2	-32	50,8	2	236	159	150	70

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

D9 **Male BSP Parallel Pipe
Rigid - Straight (60° Cone)**

BS5200 – AGR



Part Number	Hose I.D.				Thread BSP	A mm	B mm	H mm
	DN	Inch	Size	mm				
1D977-8-8	12	1/2	-8	12,7	1/2x14	68	33	27
1D977-10-10	16	5/8	-10	15,9	5/8x14	74	36	30
1D977-12-12	19	3/4	-12	19,1	3/4x14	87	41	32
1D977-16-12	19	3/4	-12	19,1	1x11	91	45	41
1D977-16-16	25	1	-16	25,4	1x11	91	45	41
1D977-20-16	25	1	-16	25,4	1 1/4x11	103	49	50
1D977-20-20	31	1 1/4	-20	31,8	1 1/4x11	113	50	50
1D977-24-24	38	1 1/2	-24	38,1	1 1/2x11	124	57	55

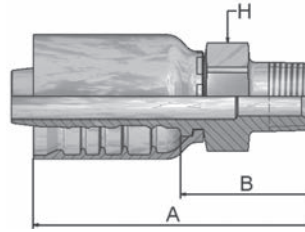
Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

01

Male NPTF Pipe Rigid – Straight

SAE J476A / J516 – AGN



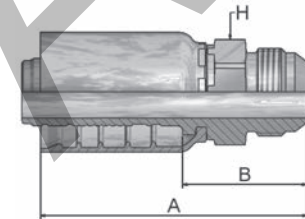
Part Number	Hose I.D.				Thread NPTF	A mm	B mm	H mm
	DN	Inch	Size	mm				
10177-8-8	12	1/2	-8	12,7	1/2-14	69	35	22
10177-8-12	19	3/4	-12	19,1	1/2-14	87	41	30
10177-12-12	19	3/4	-12	19,1	3/4-14	87	41	30
10177-16-16	25	1	-16	25,4	1-11 1/2	103	49	36
10177-20-20	31	1 1/4	-20	31,8	1 1/4-11 1/2	116	53	46
10177-24-24	38	1 1/2	-24	38,1	1 1/2-11 1/2	124	57	50
10177-32-32	51	2	-32	50,8	2-11 1/2	143	66	65

The combination of high temperature and high pressure could reduce the hose life.

03

Male JIC 37° - Rigid Straight

ISO12151-5-S – AGJ



Part Number	Hose I.D.				Thread UNF	A mm	B mm	H mm
	DN	Inch	Size	mm				
10377-8-8	12	1/2	-8	12,7	3/4x16	66,45	32	22
10377-10-8	12	1/2	-8	12,7	7/8x14	69	34	24
10377-12-8	12	1/2	-8	12,7	1 1/16x12	77	42	27
10377-10-10	16	5/8	-10	15,9	7/8x14	76	38	24
10377-12-10	16	5/8	-10	15,9	1 1/16x12	82	43	30
10377-10-12	19	3/4	-12	19,1	7/8x14	87	41	30
10377-12-12	19	3/4	-12	19,1	1 1/16x12	89	43	30
10377-16-12	19	3/4	-12	19,1	1 5/16x12	92	46	36
10377-16-16	25	1	-16	25,4	1 5/16x12	101,4	47	36
10377-20-16	25	1	-16	25,4	1 5/8x12	110	56	50
10377-20-20	31	1 1/4	-20	31,8	1 5/8x12	118	55	50
10377-32-32	51	2	-32	50,8	2 1/2x12	148	71	65

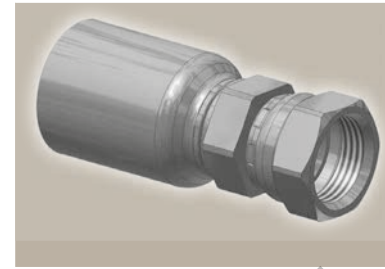
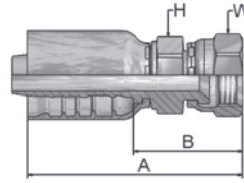
The combination of high temperature and high pressure could reduce the hose life.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

06 Female JIC 37° - 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
	DN	Inch	Size	mm					
10677-8-8*	12	1/2	-8	12,7	3/4x16	71	37	22	22
10677-10-8*	12	1/2	-8	12,7	7/8x14	74	39	22	27
10677-12-8	12	1/2	-8	12,7	1 1/16x12	80	46	30	32
10677-10-10*	16	5/8	-10	15,9	7/8x14	81	42	24	27
10677-12-10*	16	5/8	-10	15,9	1 1/16x12	84	45	30	32
10677-10-12	19	3/4	-12	19,1	7/8x14	92	46	30	27
10677-12-12*	19	3/4	-12	19,1	1 1/16x12	94	48	30	32
10677-14-12	19	3/4	-12	19,1	1 3/16x12	99	53	36	36
10677-16-12*	19	3/4	-12	19,1	1 5/16x12	99	53	36	41
10677-12-16	25	1	-16	25,4	1 1/16x12	102	48	36	32
10677-16-16*	25	1	-16	25,4	1 5/16x12	106	52	36	41
10677-20-16*	25	1	-16	25,4	1 5/8x12	109	55	41	50
10677-16-20	31	1 1/4	-20	31,8	1 5/16x12	120	57	46	41
10677-20-20	31	1 1/4	-20	31,8	1 5/8 12	124	60	46	50
10677-24-20	31	1 1/4	-20	31,8	1 7/8x12	108	44	50	60
10677-24-24	38	1 1/2	-24	38,1	1 7/8x12	136	69	50	60
10677-32-32	51	2	-32	50,8	2 1/2x12	160	83	65	75

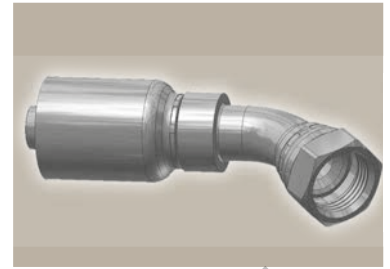
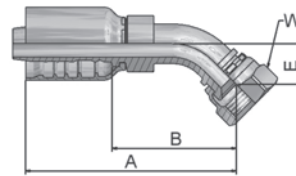
The combination of high temperature and high pressure could reduce the hose life.

Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

37 Female JIC 37° - Swivel 45° Elbow

ISO 12151-5-SWE 45° - DKJ 45°

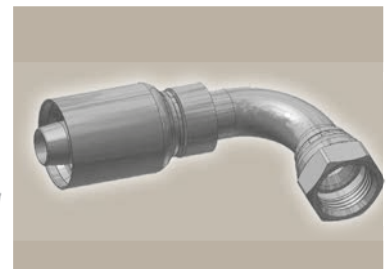
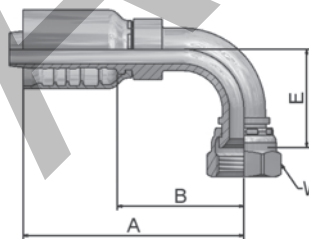


Part Number	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
13777-8-8	12	1/2	-8	12,7	3/4x16	73	38	15	22
13777-10-8	12	1/2	-8	12,7	7/8x14	78	43	16	27
13777-12-8	12	1/2	-8	12,7	1 1/16x12	79	44	21	32
13777-10-10	16	5/8	-10	15,9	7/8x14	93	54	16	27
13777-12-10	16	5/8	-10	15,9	1 1/16x12	100	61	21	32
13777-10-12	19	3/4	-12	19,1	7/8x14	102	56	16	27
13777-12-12	19	3/4	-12	19,1	1 1/16x12	111	65	21	32
13777-16-12	19	3/4	-12	19,1	1 5/16x12	114	68	24	41
13777-16-16	25	1	-16	25,4	1 5/16x12	133	79	24	41
13777-20-20	31	1 1/4	-20	31,8	1 5/8x12	153	90	32	50
13777-24-24	38	1 1/2	-24	38,1	1 7/8x12	201	134	58	60
13777-32-32	51	2	-32	50,8	2 1/2x12	258	181	72	75

The combination of high temperature and high pressure could reduce the hose life.

39 Female JIC 37° - Swivel 90° Elbow

ISO 12151-5-SWES - DKJ 90°



Part Number	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
13977-8-8	12	1/2	-8	12,7	3/4x16	71	36	29	22
13977-10-8	12	1/2	-8	12,7	7/8x14	71	36	32	27
13977-12-8	12	1/2	-8	12,7	1 1/16x12	76	41	48	32
13977-10-10	16	5/8	-10	15,9	7/8x14	88	50	33	27
13977-12-10	16	5/8	-10	15,9	1 1/16x12	92	53	48	32
13977-10-12	19	3/4	-12	19,1	7/8x14	97	51	33	27
13977-12-12	19	3/4	-12	19,1	1 1/16x12	108	62	48	32
13977-16-12	19	3/4	-12	19,1	1 5/16x12	108	62	56	41
13977-16-16	25	1	-16	25,4	1 5/16x12	131	77	74	41
13977-20-20	31	1 1/4	-20	31,8	1 5/8x12	148	84	78	50
13977-24-24	38	1 1/2	-24	38,1	1 7/8x12	175	108	102	60
13977-32-32	51	2	-32	50,8	2 1/2x12	236	159	152	75

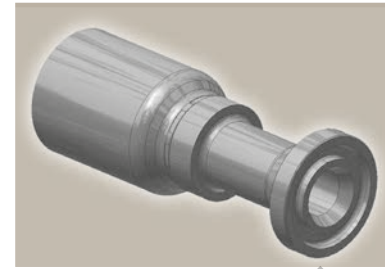
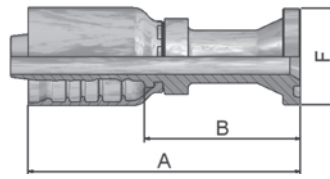
The combination of high temperature and high pressure could reduce the hose life.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

15/4A ISO 6162-1-Flange Straight

ISO 12151-3-S-L – SFL
(35.0 MPa/ 5000 psi)



Part Number	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
11577-8-8	12	1/2	-8	12,7	1/2	90	55	30
11577-12-8	12	1/2	-8	12,7	3/4	67	33	38
11577-10-10	16	5/8	-10	15,9	5/8	100	60	34
11577-12-10	16	5/8	-10	15,9	3/4	75	36	38
11577-12-12	19	3/4	-12	19,1	3/4	107	62	38
11577-16-12	19	3/4	-12	19,1	1	88	42	45
11577-16-16	25	1	-16	25,4	1	119	65	45
14A77-20-16	25	1	-16	25,4	1 1/4	90	36	51
11577-16-20	31	1 1/4	-20	31,8	1	130	66	45
14A77-20-20	31	1 1/4	-20	31,8	1 1/4	138	74	51
14A77-24-20	31	1 1/4	-20	31,8	1 1/2	100	37	60
14A77-20-24	38	1 1/2	-24	38,1	1 1/4	146	79	51
14A77-24-24	38	1 1/2	-24	38,1	1 1/2	140	73	60
14A77-32-24	38	1 1/2	-24	38,1	2	117	50	71
14A77-32-32	51	2	-32	50,8	2	163	86	71

SAE flange halves see in section Eb.

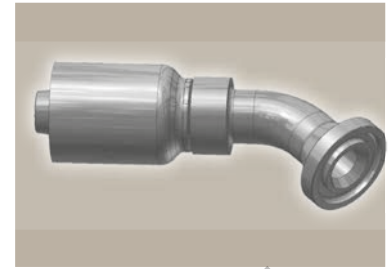
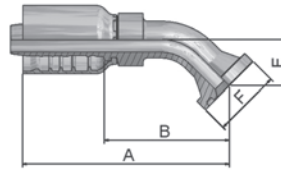
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.



Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

17/4F ISO 6162-1-Flange 45° Elbow

ISO 12151-3 - E45S - L - SFL 45°
(35.0 MPa/ 5000 psi)



Part Number	 Hose I.D.				 Flange	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm	Inch				
11777-8-8	12	1/2	-8	12,7	1/2	79	45	20	30
11777-12-8	12	1/2	-8	12,7	3/4	81	47	22	38
11777-10-10	16	5/8	-10	15,9	5/8	103	64	24	34
11777-12-12	19	3/4	-12	19,1	3/4	116	70	26	38
11777-16-12	19	3/4	-12	19,1	1	116	70	26	45
11777-16-16	25	1	-16	25,4	1	130	76	32	45
14F77-20-16	25	1	-16	25,4	1 1/4	130	76	32	51
14F77-20-20	31	1 1/4	-20	31,8	1 1/4	167	104	38	51
14F77-24-20	31	1 1/4	-20	31,8	1 1/2	167	104	38	60
14F77-24-24	38	1 1/2	-24	38,1	1 1/2	192	125	44	60
14F77-32-24	38	1 1/2	-24	38,1	2	192	125	44	71
14F77-32-32	51	2	-32	50,8	2	211	134	56	71

SAE flange halves see in section Eb.

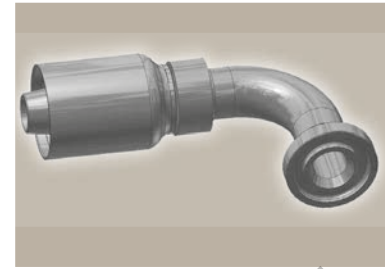
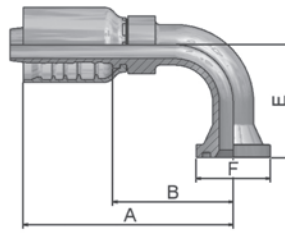
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

19/4N ISO 6162-1-Flange 90° Elbow

ISO 12151-3-E-L – SFL 90°
(35.0 MPa/ 5000 psi)



Part Number	Hose I.D.				Flange	A	B	E	F
	DN	Inch	Size	mm					
11977-8-8	12	1/2	-8	12,7	1/2	76	41	41	30
11977-12-8	12	1/2	-8	12,7	3/4	80	45	42	38
11977-10-10	16	5/8	-10	15,9	5/8	92	53	53	34
11977-12-12	19	3/4	-12	19,1	3/4	108	62	58	38
11977-16-12	19	3/4	-12	19,1	1	108	62	58	45
11977-16-16	25	1	-16	25,4	1	120	66	70	45
14N77-20-16	25	1	-16	25,4	1 1/4	120	66	70	51
11977-16-20	31	1 1/4	-20	31,8	1	156	92	90	45
14N77-20-20	31	1 1/4	-20	31,8	1 1/4	156	92	90	51
14N77-24-20	31	1 1/4	-20	31,8	1 1/2	156	92	90	60
14N77-24-24	38	1 1/2	-24	38,1	1 1/2	180	113	104	60
14N77-32-24	38	1 1/2	-24	38,1	2	180	113	104	71
14N77-32-32	51	2	-32	50,8	2	206	129	138	71

SAE flange halves see in section Eb.

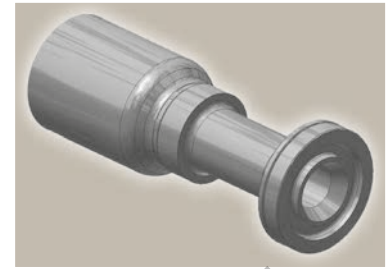
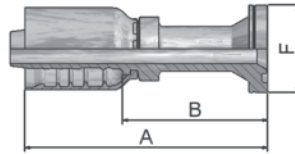
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

6A ISO 6162-2-Flange Straight

ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)



Part Number	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
16A77-8-8	12	1/2	-8	12.7	1/2	89	55	32
16A77-12-8	12	1/2	-8	12.7	3/4	69.4	34.75	41
16A77-12-10	16	5/8	-10	15.9	3/4	75	36	41
16A77-16-10	16	5/8	-10	15.9	1	80	41	48
16A77-8-12	19	3/4	-12	19.1	1/2	106	60	32
16A77-12-12	19	3/4	-12	19.1	3/4	114.2	68.2	41
16A77-16-12	19	3/4	-12	19.1	1	88.2	42	48
16A77-20-12	19	3/4	-12	19.1	1 1/4	93	47	54
16A77-12-16	25	1	-16	25.4	3/4	126	72	41
16A77-16-16	25	1	-16	25.4	1	113	59	48
16A77-20-16	25	1	-16	25.4	1 1/4	103	49	54
16A77-16-20	31	1 1/4	-20	31.8	1	145	82	48
16A77-20-20	31	1 1/4	-20	31.8	1 1/4	146	82	54
16A77-24-20	31	1 1/4	-20	31.8	1 1/2	118	55	64
16A77-20-24	38	1 1/2	-24	38.1	1 1/4	154	87	54
16A77-24-24	38	1 1/2	-24	38.1	1 1/2	162	96	64
16A77-32-24	38	1 1/2	-24	38.1	2	133	66	79
16A77-32-32	51	2	-32	50.8	2	183	105	79

SAE flange halves see in section Eb.

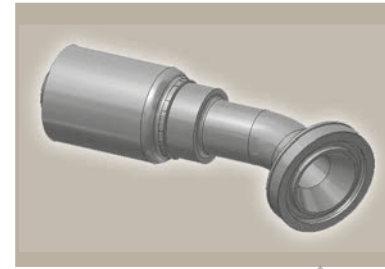
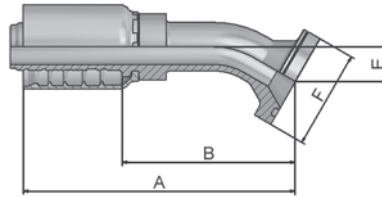
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

6E ISO 6162-2 Flange 30° Elbow

SFS 30°
(42.0 MPa/ 6000 psi)



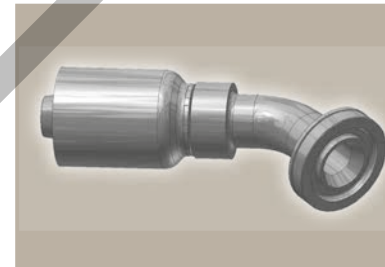
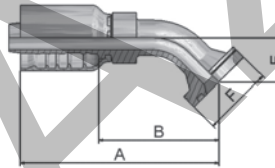
Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
16E77-12-12	19	3/4	-12	19,1	3/4	121	75	16	41
16E77-16-12	19	3/4	-12	19,1	1	122	76	16	48
16E77-16-16	25	1	-16	25,4	1	136	82	19	48
16E77-20-16	25	1	-16	25,4	1 1/4	149	95	19	54
16E77-20-20	31	1 1/4	-20	31,8	1 1/4	175	111	24	54
16E77-24-24	38	1 1/2	-24	38,1	1 1/2	190	123	30	64
16E77-32-32	51	2	-32	50,8	2	228	145	32	79

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

6F ISO 6162-2-Flange 45° Elbow - Heavy Series

ISO 12151-3 - E45-S - SFS 45°
(42.0 MPa/ 6000 psi)



Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
16F77-8-8	12	1/2	-8	12,7	1/2	79	44	19	32
16F77-12-8	12	1/2	-8	12,7	3/4	85,8	51	26	41
16F77-8-10	16	5/8	-10	15,9	1/2	105	66	26	32
16F77-12-10	16	5/8	-10	15,9	3/4	104	66	26	41
16F77-16-10	16	5/8	-10	15,9	1	105	66	26	48
16F77-12-12	19	3/4	-12	19,1	3/4	116,2	70	26	41
16F77-16-12	19	3/4	-12	19,1	1	116	70	26	48
16F77-12-16	25	1	-16	25,4	3/4	132	78	32	41
16F77-16-16	25	1	-16	25,4	1	141	87	32	48
16F77-20-16	25	1	-16	25,4	1 1/4	142	88	32	54
16F77-16-20	31	1 1/4	-20	31,8	1	154	90	38	48
16F77-20-20	31	1 1/4	-20	31,8	1 1/4	167	104	38	54
16F77-24-20	31	1 1/4	-20	31,8	1 1/2	173	110	44	64
16F77-20-24	38	1 1/2	-24	38,1	1 1/4	184	117	44	54
16F77-24-24	38	1 1/2	-24	38,1	1 1/2	192	125	44	64
16F77-32-24	38	1 1/2	-24	38,1	2	192	125	44	79
16F77-32-32	51	2	-32	50,8	2	218	141	56	79

SAE flange halves see in section Eb.

Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

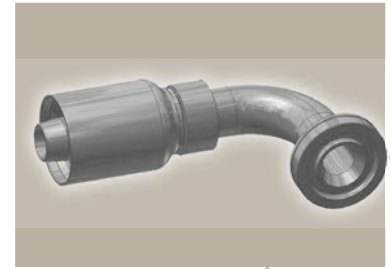
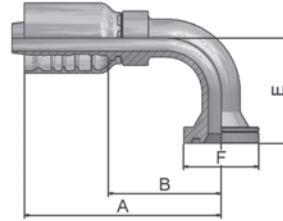
Approved **fitting series** for **hose types**, depending on size:



77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

6N

ISO 6162-2-Flange 90° Elbow

ISO 12151-3 - E-S - SFS 90°
(42.0 MPa/ 6000 psi)



Part Number	 Hose I.D.				 Flange	A	B	E	F
	DN	Inch	Size	mm					
16N77-8-8	12	1/2	-8	12.7	1/2	76	41	41	32
16N77-12-8	12	1/2	-8	12.7	3/4	81.05	47	45	41
16N77-8-10	16	5/8	-10	15.9	1/2	92	53	54	32
16N77-12-10	16	5/8	-10	15.9	3/4	92	53	54	41
16N77-16-10	16	5/8	-10	15.9	1	92	53	54	48
16N77-12-12	19	3/4	-12	19.1	3/4	108.2	62	58	41
16N77-16-12	19	3/4	-12	19.1	1	108	62	58	48
16N77-20-12	19	3/4	-12	19.1	1 1/4	108	62	63	54
16N77-12-16	25	1	-16	25.4	3/4	115	61	70	41
16N77-16-16	25	1	-16	25.4	1	120	66	70	48
16N77-20-16	25	1	-16	25.4	1 1/4	135	81	70	54
16N77-16-20	31	1 1/4	-20	31.8	1	138	75	90	48
16N77-20-20	31	1 1/4	-20	31.8	1 1/4	156	92	90	54
16N77-24-20	31	1 1/4	-20	31.8	1 1/2	151	87	90	64
16N77-20-24	38	1 1/2	-24	38.1	1 1/4	156	89	104	54
16N77-24-24	38	1 1/2	-24	38.1	1 1/2	180	113	104	64
16N77-32-24	38	1 1/2	-24	38.1	2	175	108	104	79
16N77-32-32	51	2	-32	50.8	2	223	138	138	79

SAE flange halves see in section Eb.

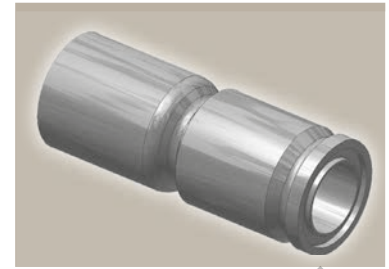
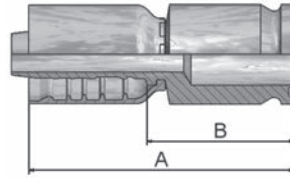
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

X5 Flange - Straight

Full flange system for
ISO 6162-1 or ISO 6162-2

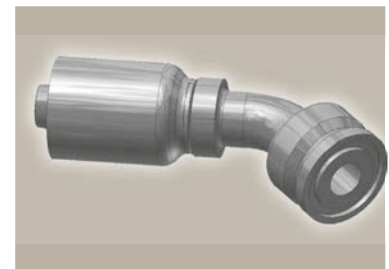
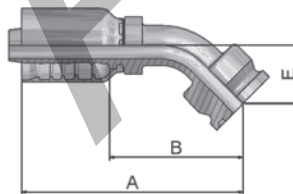


Part Number	Hose I.D.				Flange Inch	A mm	B mm
	DN	Inch	Size	mm			
1X577-12-12	19	3/4	-12	19,1	3/4	103	57
1X577-16-12	19	3/4	-12	19,1	1	103	57
1X577-16-16	25	1	-16	25,4	1	113	59
1X577-20-16	25	1	-16	25,4	1 1/4	113	59
1X577-20-20	31	1 1/4	-20	31,8	1 1/4	124	57
1X577-24-24	38	1 1/2	-24	38,1	1 1/2	129	62
1X577-32-32	51	2	-32	50,8	2	154	77

Full flange system see Eb-4.

X7 Flange - 45° Elbow

Full flange system for
ISO 6162-1 or ISO 6162-2



Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm
	DN	Inch	Size	mm				
1X777-12-12	19	3/4	-12	19,1	3/4	119	73	29
1X777-16-12	19	3/4	-12	19,1	1	118	72	29
1X777-16-16	25	1	-16	25,4	1	141	87	32
1X777-20-16	25	1	-16	25,4	1 1/4	147	93	38
1X777-16-20	31	1 1/4	-20	31,8	1	146	82	38
1X777-20-20	31	1 1/4	-20	31,8	1 1/4	159	96	38
1X777-24-20	31	1 1/4	-20	31,8	1 1/2	165	102	44
1X777-24-24	38	1 1/2	-24	38,1	1 1/2	183	116	45

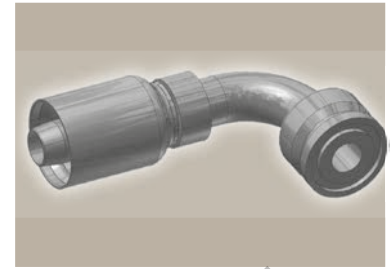
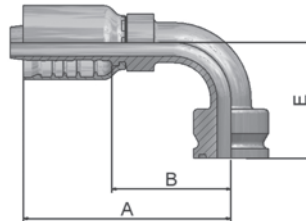
Full flange system see Eb-4.

Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

X9 Flange - 90° Elbow

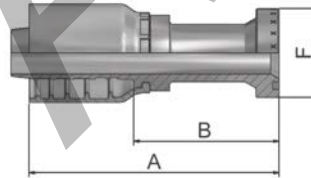
Full flange system for
ISO 6162-1 or ISO 6162-2



Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm
	DN	Inch	Size	mm				
1X977-8-8	12	1/2	-8	12,7	1/2	81	45	43
1X977-12-12	19	3/4	-12	19,1	3/4	108	62	61
1X977-16-12	19	3/4	-12	19,1	1	108	62	61
1X977-12-16	25	1	-16	25,4	3/4	110	56	70
1X977-16-16	25	1	-16	25,4	1	131	77	70
1X977-20-16	25	1	-16	25,4	1 1/4	131	77	70
1X977-16-20	31	1 1/4	-20	31,8	1	130	67	90
1X977-20-20	31	1 1/4	-20	31,8	1 1/4	148	84	90
1X977-24-20	31	1 1/4	-20	31,8	1 1/2	148	84	90
1X977-24-24	38	1 1/2	-24	38,1	1 1/2	180	113	104
1X977-32-32	51	2	-32	50,8	2	221	144	138

Full flange system see Eb-4.

XA Caterpillar® Flange Straight

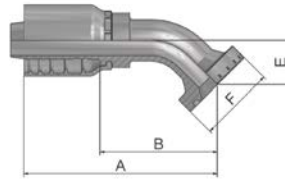


Part Number	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
1XA77-12-12	19	3/4	-12	19,1	3/4	114	68	41
1XA77-16-12	19	3/4	-12	19,1	3/4	88	42	48
1XA77-16-16	25	1	-16	25,4	1	141	87	48
1XA77-20-16	25	1	-16	25,4	1	104	50	54
1XA77-20-20	31	1 1/4	-20	31,8	1 1/4	152	88	54
1XA77-24-20	31	1 1/4	-20	31,8	1 1/2	121	57	64
1XA77-24-24	38	1 1/2	-24	38,1	1 1/2	176	109	64
1XA77-32-24	38	1 1/2	-24	38,1	2	133	66	79
1XA77-32-32	51	2	-32	50,8	2	192	115	79

Approved **fitting series** for hose types, depending on size:

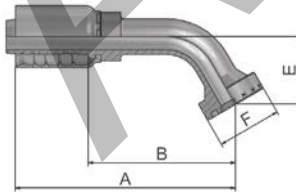
77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

XF Caterpillar® Flange
45° Elbow



Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
1XF77-12-12	19	3/4	-12	19,1	3/4	122	76	31	41
1XF77-16-16	25	1	-16	25,4	1	145	91	36	48
1XF77-20-20	31	1 1/4	-20	31,8	1 1/4	166	103	37	54
1XF77-24-20	31	1 1/4	-20	31,8	1 1/2	166	103	37	64

XG Caterpillar® Flange
60° Elbow

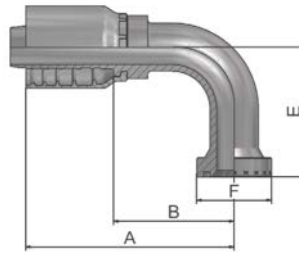


Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
1XG77-12-12	19	3/4	-12	19,1	3/4	137	91	42	41
1XG77-16-16	25	1	-16	25,4	1	163	109	50	48
1XG77-20-20	31	1 1/4	-20	31,8	1 1/4	205	141	51	54

Approved **fitting series** for **hose types**, depending on size:

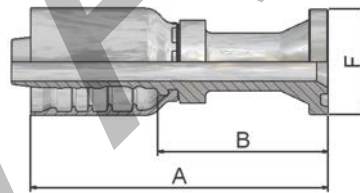
77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

XN Caterpillar® Flange 90° Elbow



Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
1XN77-12-12	19	3/4	-12	19,1	3/4	108	62	63	41
1XN77-16-12	19	3/4	-12	19,1	1	108	62	63	48
1XN77-16-16	25	1	-16	25,4	1	131	77	74	48
1XN77-20-16	25	1	-16	25,4	1 1/4	131	77	74	54
1XN77-20-20	31	1 1/4	-20	31,8	1 1/4	156	92	94	54
1XN77-24-20	31	1 1/4	-20	31,8	1 1/2	156	92	77	64
1XN77-24-24	38	1 1/2	-24	38,1	1 1/2	160	103	106	79
1XN77-32-24	38	1 1/2	-24	38,1	2	169	103	106	79

K5 Komatsu® Flange Straight

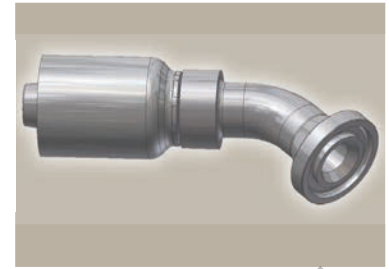
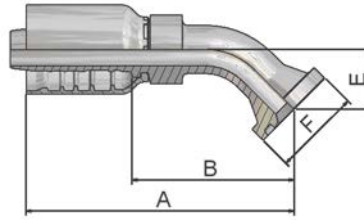


Part Number	Hose I.D.				A mm	B mm
	DN	Inch	Size	mm		
1K577-16-16	25	1	-16	25,4	119	65

Approved **fitting series** for hose types, depending on size:

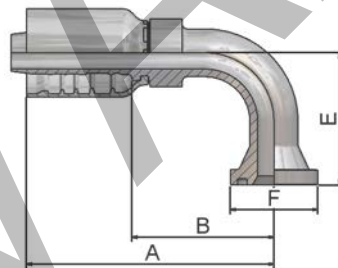
77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

K7 Komatsu® Flange 45° Elbow



Part Number	Hose I.D.				A mm	B mm	E mm
	DN	Inch	Size	mm			
1K777-12-12	19	3/4	-12	19,1	116	70	26
1K777-16-16	25	1	-16	25,4	143	89	32
1K777-20-20	31	1 1/4	-20	31,8	159	96	38

K9 Komatsu® Flange 90° Elbow



Part Number	Hose I.D.				A mm	B mm	E mm
	DN	Inch	Size	mm			
1K977-12-12	19	3/4	-12	19,1	108	62	58
1K977-16-16	25	1	-16	25,4	127	73	70
1K977-20-20	31	1 1/4	-20	31,8	148	84	90

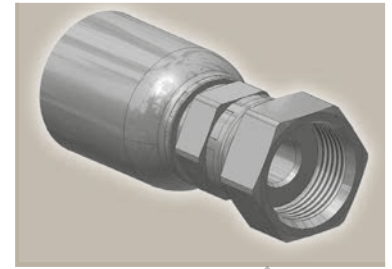
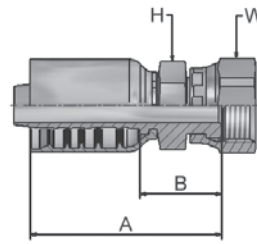
Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
SX42 SX42LT SX42TC															

JC

Female ORFS Swivel - Straight Short

ISO 12151-1 – SWSA
SAE J516 – ORFS



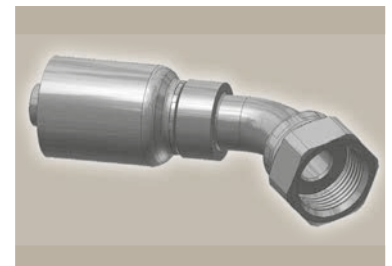
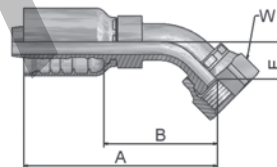
*New 3S-Fitting-Design – more information see Dd-Index

Part Number	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
1JC77-8-8*	12	1/2	-8	12,7	13/16x16	60	25	22	24
1JC77-10-8*	12	1/2	-8	12,7	1x14	65	31	22	30
1JC77-12-8	12	1/2	-8	12,7	1 3/16x12	64	29	30	36
1JC77-10-10*	16	5/8	-10	15,9	1x14	70	31	24	30
1JC77-12-10*	16	5/8	-10	15,9	1 3/16x16	69	30	24	36
1JC77-10-12	19	3/4	-12	19,1	1x14	79	33	30	30
1JC77-12-12*	19	3/4	-12	19,1	1 3/16x12	79	35	30	36
1JC77-16-12*	19	3/4	-12	19,1	1 7/16x12	85	41	30	41
1JC77-12-16	25	1	-16	25,4	1 3/16x12	92	38	36	36
1JC77-16-16*	25	1	-16	25,4	1 7/16x12	91	37,1	36	41
1JC77-20-16*	25	1	-16	25,4	1 11/16x12	90	36	36	50
1JC77-20-20	31	1 1/4	-20	31,8	1 11/16x12	107	44	46	50
1JC77-24-24	38	1 1/2	-24	38,1	2x12	109	43	50	60
1JC77-32-32	51	2	-32	50,8	2 1/2x12	143	66	65	75

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
	DN	Inch	Size	mm					
1J777-8-8	12	1/2	-8	12,7	13/16x16	72,7	38	15	24
1J777-10-10	16	5/8	-10	15,9	1x14	86	47	16	30
1J777-12-10	16	5/8	-10	15,9	1 3/16x12	98	59	21	36
1J777-12-12	19	3/4	-12	19,1	1 3/16x12	111	65	21	36
1J777-16-12	19	3/4	-12	19,1	1 7/16x12	114	68	24	41
1J777-16-16	25	1	-16	25,4	1 7/16x12	133	79	24	41
1J777-20-20	31	1 1/4	-20	31,8	1 11/16x12	145	81	25	50
1J777-24-20	31	1 1/4	-20	31,8	2x12	148	84	27	60
1J777-24-24	38	1 1/2	-24	38,1	2x12	176	109	42	60

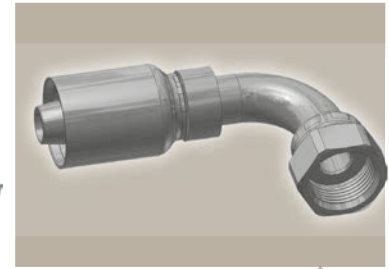
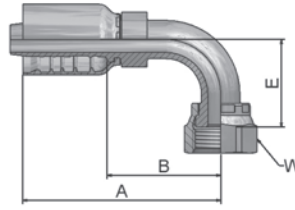
The combination of high temperature and high pressure could reduce the hose life.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

J9 Female ORFS - Swivel 90° Elbow - Short Drop

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

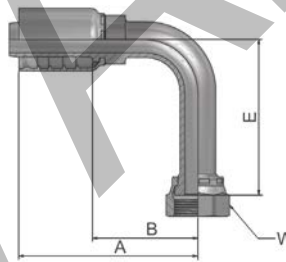


Part Number	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1J977-8-8	12	1/2	-8	12,7	13/16x16	70,65	36	29	24
1J977-10-10	16	5/8	-10	15,9	1x14	97	50	32	30
1J977-12-10	16	5/8	-10	15,9	1 3/16x12	89	50	48	36
1J977-10-12	19	3/4	-12	19,1	1x14	97	51	32	30
1J977-12-12	19	3/4	-12	19,1	1 3/16x12	108	62	48	36
1J977-16-12	19	3/4	-12	19,1	1 7/16x12	108	62	56	41
1J977-16-16	25	1	-16	25,4	1 7/16x12	131	77	56	41
1J977-20-20	31	1 1/4	-20	31,8	1 11/16x12	146	82	64	50
1J977-24-24	38	1 1/2	-24	38,1	2x12	163	96	69	60

The combination of high temperature and high pressure could reduce the hose life.

J1 Female ORFS - Swivel 90° Elbow - Long Drop

ISO 12151-1 - SWEL
SAE J 516 - ORFS 90° L



Part Number	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
1J177-12-12	19	3/4	-12	19,1	1 3/16x12	108	62	96	36
1J177-16-16	25	1	-16	25,4	1 7/16x12	131	77	114	41

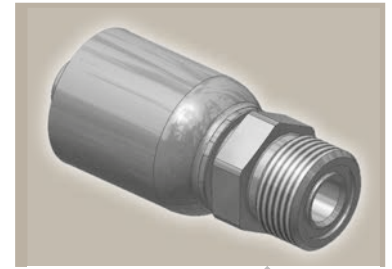
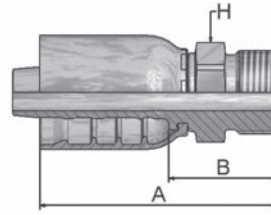
Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

JM

ORFS Male

ISO 12151-1-S – SAE J516



Part Number	Hose I.D.				Thread UNF	A mm	B mm	H mm
	DN	Inch	Size	mm				
1JM77-8-8	12	1/2	-8	12,7	13/16x16	66	32	22
1JM77-12-8	12	1/2	-8	12,7	1 3/16x12	75	40	32
1JM77-10-10	16	5/8	-10	15,9	1x14	76	37	27
1JM77-12-10	16	5/8	-10	15,9	1 3/16x12	79	40	32
1JM77-12-12	19	3/4	-12	19,1	1 3/16x12	89	43	32
1JM77-16-12	19	3/4	-12	19,1	1 7/16x12	93	47	41
1JM77-16-16	25	1	-16	25,4	1 7/16x12	96	40,9	41
1JM77-20-16	25	1	-16	25,4	1 11/16x12	93	39,2	46
1JM77-20-20	31	1 1/4	-20	31,8	1 11/16x12	110	46	46
1JM77-24-20	31	1 1/4	-20	31,8	2 1/2	116	52	55

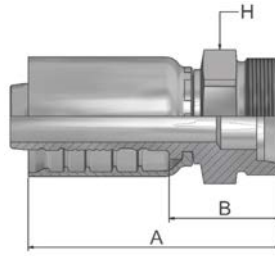
JM fittings are supplied without O-ring.
Find O-rings in section E. Special O-rings are available on request.

The combination of high temperature and high pressure could reduce the hose life.

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

FG Male French Gas Series
Rigid - Straight (24° Cone)



Part Number	Hose I.D.				Thread metric	A mm	B mm	H mm
	DN	Inch	Size	mm				
1FG77-27-12	19	3/4	-12	19.1	M36x1.5	82	36	36
1FG77-33-16	25	1	-16	25.4	M45x1.5	97	43	46

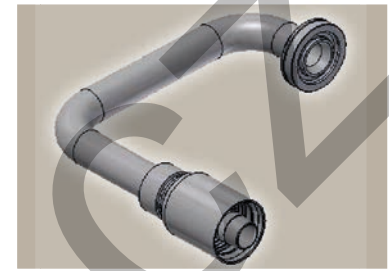
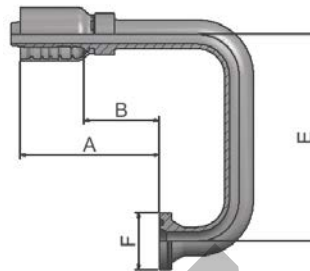
Approved **fitting series** for **hose types**, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												

Large range of special hose fittings for the MRO market

The demand for special hose fittings is part of our everyday business. In order to meet this demand with the authority expected, the Polymer Hose Division Europe has extended its standard offer with special hose fittings such as an extra drop length, etc.

The following is an overview of our special hose fitting selection:



Further special hose fittings are available on request.

Part Number	Description	Hose I.D. Size	Flange Inch	A mm	B mm	E mm	F mm
11977-12-12-SL100	SAE 5000 psi 90° elbow - drop length 100 mm	-12	3/4	108	62	100	38
11977-12-12-SL150	SAE 5000 psi 90° elbow - drop length 150 mm	-12	3/4	108	62	150	38
11977-16-12-SL100	SAE 5000 psi 90° elbow - drop length 100 mm	-12	1	108	62	100	45
11977-16-12-SL150	SAE 5000 psi 90° elbow - drop length 150 mm	-12	1	108	62	150	45
11977-16-16-SL150	SAE 5000 psi 90° elbow - drop length 150 mm	-16	1	131	77	150	45
14N77-24-24-SL150	SAE 5000 psi 90° elbow - drop length 150 mm	-24	1 1/2	175	108	150	60
16A77-20-20-RL186	SAE 6000 psi - straight - Special	-20	1 1/4	175	112		54
16F77-12-16-STB10	SAE 6000 psi - 10° elbow	-16	3/4	143	89	6	41
16F77-20-16-RL110	SAE 6000 psi - 45° elbow - Special	-16	1 1/4	164	110	32	54
16N77-12-12-SL100	SAE 6000 psi 90° elbow - drop length 100 mm	-12	3/4	108	62	100	41
16N77-12-12-SL230	SAE 6000 psi 90° elbow - drop length 230 mm	-12	3/4	108	62	230	41
16N77-12-12-SL72	SAE 6000 psi 90° elbow - drop length 72 mm	-12	3/4	108	62	72	41
16N77-12-12-SL85	SAE 6000 psi 90° elbow - drop length 85 mm	-12	3/4	108	62	85	41
16N77-12-12-STB115	SAE 6000 psi - 115° elbow	-12	3/4	116	70	72	41
16N77-12-12-STB180	SAE 6000 psi - 180° elbow	-12	3/4	101	55	150	41
16N77-12-16-SL55	SAE 6000 psi 90° elbow - drop length 85 mm	-16	3/4	118	64	55	41
16N77-12-16-SL95	SAE 6000 psi 90° elbow - drop length 95 mm	-16	3/4	118	64	95	41
16N77-16-16-SL100	SAE 6000 psi 90° elbow - drop length 100 mm	-16	1	131	77	100	48
16N77-16-16-SL110	SAE 6000 psi 90° elbow - drop length 110 mm	-16	1	131	77	110	48
16N77-16-16-SL120	SAE 6000 psi 90° elbow - drop length 120 mm	-16	1	131	77	120	48
16N77-16-16-SL150	SAE 6000 psi 90° elbow - drop length 150 mm	-16	1	131	77	150	48
16N77-16-16-SL175	SAE 6000 psi 90° elbow - drop length 175 mm	-16	1	135	81	175	48
16N77-16-16-STB120	SAE 6000 psi 120° elbow	-16	1	110	56	85	48
16N77-16-16-STB63-SL75	SAE 6000 psi 63° elbow - drop length 75 mm	-16	1	167	113	75	48
16N77-20-16-SL120	SAE 6000 psi 90° elbow - drop length 120 mm	-16	1 1/4	135	81	120	54
16N77-20-16-SL130	SAE 6000 psi 90° elbow - drop length 130 mm	-16	1 1/4	135	81	130	54
16N77-20-16-STB110-SL150	SAE 6000 psi 110° elbow - drop length 150 mm	-16	1 1/4	128	74	150	54
16N77-20-16-STB70-SL70	SAE 6000 psi 70° elbow - drop length 70 mm	-16	1 1/4	157	103	70	54
16N77-20-20-SL115-RL220	SAE 6000 psi 90° elbow - drop length 220 mm	-20	1 1/4	220	156	115	54
16N77-20-20-SL120	SAE 6000 psi 90° elbow - drop length 120 mm	-20	1 1/4	151	87	120	54
16N77-20-20-SL150-RL150	SAE 6000 psi 90° elbow - drop length 150 mm	-20	1 1/4	238	175	150	54
16N77-20-20-SL150-RL220	SAE 6000 psi 90° elbow - drop length 150 mm	-20	1 1/4	220	156	150	54
16N77-20-20-SL195-RL320	SAE 6000 psi 90° elbow - drop length 195 mm	-20	1 1/4	320	256	195	54
16N77-20-20-SL230-RL250	SAE 6000 psi 90° elbow - drop length 230 mm	-20	1 1/4	338	275	230	54
16N77-20-20-SL230-RL320	SAE 6000 psi 90° elbow - drop length 230 mm	-20	1 1/4	320	256	230	54
16377-16-16	SAE 6000 psi 135° elbow	-16	1	122	68	88	48
16377-20-20	SAE 6000 psi 135° elbow	-20	1 1/4	132	69	109	54
16377-24-24	SAE 6000 psi 135° elbow	-24	1 1/2	124	57	129	64

Approved **fitting series** for hose types, depending on size:

77	387	387ST	387TC	487	487ST	487TC	787	787TC	787ST	797	797TC	797ST	797RH	SR	SRI42
	SX42	SX42LT	SX42TC												