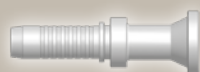


Flange

Page De-11 – De-13

15

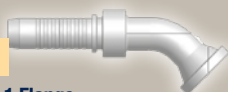
De-11



**ISO 6162-1-Flange
Straight**
ISO 12151-3-S-L – SFL
(21.0 MPa/ 3000 psi)

17

De-11



**ISO 6162-1 Flange
45° Elbow**
ISO 12151-3-E45-L – SFL 45°
(21.0 MPa/ 3000 psi)

19

De-12



**ISO 6162-1-Flange
90° Elbow**
ISO 12151-3-E-L – SFL 90°
(21.0 MPa/ 3000 psi)

6A

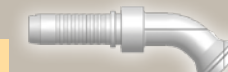
De-12



**ISO 6162-2-Flange
Straight**
ISO 12151-3-S-S – SFS
(42.0 MPa/ 6000 psi)

6F

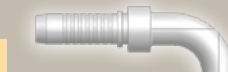
De-13



**ISO 6162-2-Flange
45° Elbow – Heavy Series**
ISO 12151-3-E45-S – SFS 45°
(42.0 MPa/ 6000 psi)

6N

De-13



**ISO 6162-2-Flange
90° Elbow**
ISO 12151-3-E-S – SFS 90°
(42.0 MPa/ 6000 psi)

ORFS

Page De-14 – De-15

JC

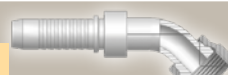
De-14



**Female ORFS
Swivel – Straight
Short**
ISO 12151-1 – SWSA SAE J516 – ORFS

J7

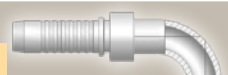
De-14



**Female ORFS – Swivel
45° Elbow**
ISO 12151-1 – SWE 45°
SAE J516 – ORFS 45°

J9

De-15



**Female ORFS – Swivel
90° Elbow – Short Drop**
ISO 12151-1 – SWES
SAE J516 – ORFS 90°

VS

**Interlock
Outside Skive**



**Only for use with
adjustable crimpers.**

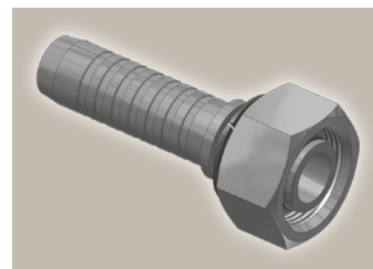
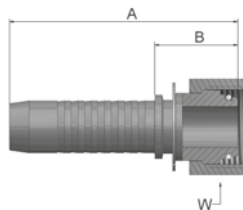
Part Number	 Hose I.D.				B mm
	DN	Inch	Size	mm	
100VS-4	6	1/4	-4	6.4	38
100VS-6	10	3/8	-6	9.5	36
100VS-8	12	1/2	-8	12.7	41

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

VS H31 H31TC H31ST FA35

CA Female Metric 24° Light Series with O-Ring Swivel – Straight

ISO 12151-2-SWS-L – DKOL

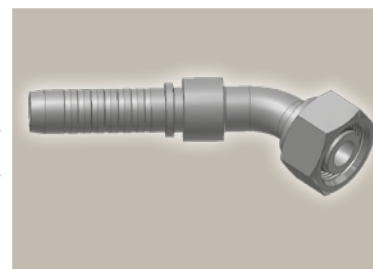
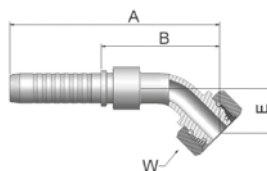


Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KCAVS-10-6	10	3/8	-6	9.5	M16x1.5	10	65	26	19
KCAVS-12-6	10	3/8	-6	9.5	M18x1.5	12	62	23	22
KCAVS-15-8	12	1/2	-8	12.7	M22x1.5	15	70	27	27

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						
KCEVS-12-6	10	3/8	-6	9.5	M18x1.5	12	94	55	20	22
KCEVS-15-8	12	1/2	-8	12.7	M22x1.5	15	104	62	24	27

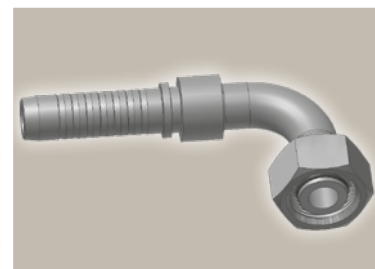
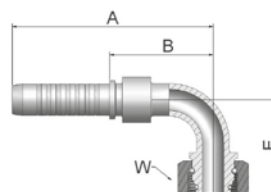
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

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

VS H31 H31TC H31ST FA35

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

ISO 12151-2-SWE-L – DKOL 90°

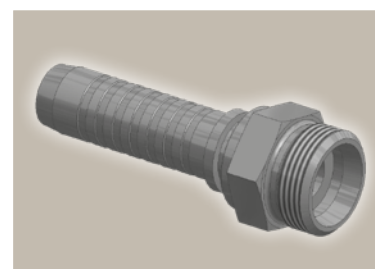
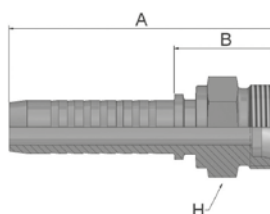


Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
KCFVS-12-6	10	3/8	-6	9.5	M18x1.5	12	83	45	36	22
KCFVS-15-8	12	1/2	-8	12.7	M22x1.5	15	92	50	45	27

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.

D0 Male Metric 24° Light Series – Rigid Straight

ISO 12151-2-S-L – CEL



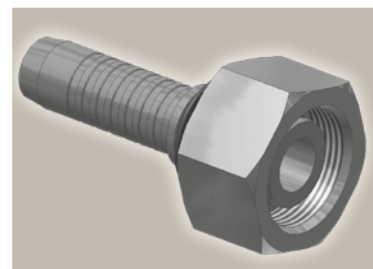
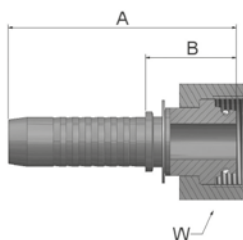
Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
KDOVS-12-6	10	3/8	-6	9.5	M18x1.5	12	64	25	19
KDOVS-15-8	12	1/2	-8	12.7	M22x1.5	15	71	28	22

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

VS H31 H31TC H31ST FA35

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

ISO 12151-2-SWS-S – DKOS

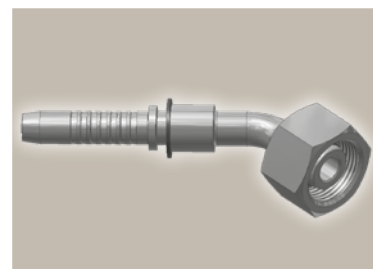
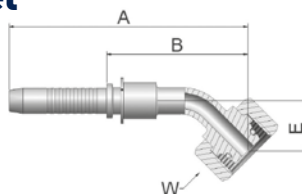


Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
KC9VS-8-4	6	1/4	-4	6.4	M16x1.5	8	61	23	19
KC9VS-10-4	6	1/4	-4	6.4	M18x1.5	10	62	24	22
KC9VS-8-6	10	3/8	-6	9.5	M16x1.5	8	64	25	19
KC9VS-12-6	10	3/8	-6	9.5	M20x1.5	12	63	25	24
KC9VS-14-6	10	3/8	-6	9.5	M22x1.5	14	63	24	27
KC9VS-16-8	12	1/2	-8	12.7	M24x1.5	16	71	29	30
KC9VS-20-8	12	1/2	-8	12.7	M30x2	20	71	29	36

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	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
KOCVS-8-4	6	1/4	-4	6.4	M16x1.5	8	88	50	16	19
KOCVS-10-4	6	1/4	-4	6.4	M18x1.5	10	88	50	16	22
KOCVS-12-6	10	3/8	-6	9.5	M20x1.5	12	94	56	20	24
KOCVS-14-6	10	3/8	-6	9.5	M22x1.5	14	94	56	20	27
KOCVS-16-8	12	1/2	-8	12.7	M24x1.5	16	105	62	24	30

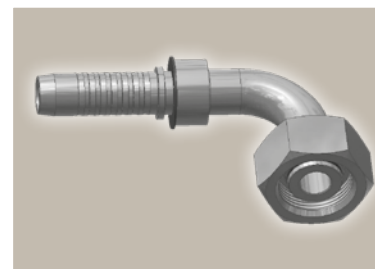
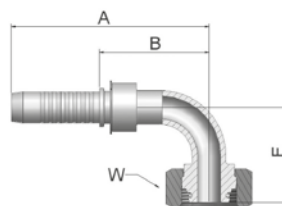
Fittings with standard O-ring seals can be used for temperatures from -40 °C up to +105 °C.
O-rings see section Eb. Special O-rings are available on request.

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

VS H31 H31TC H31ST FA35

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

ISO 12151-2-SWE-S – DKOS 90°

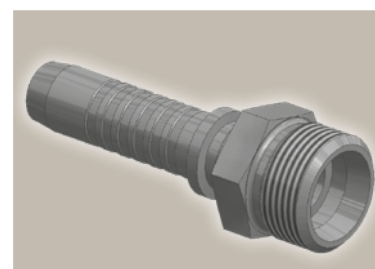
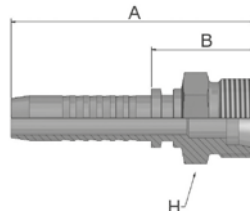


Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
K1CVS-8-4	6	1/4	-4	6.4	M16x1.5	8	79	41	29	19
K1CVS-10-4	6	1/4	-4	6.4	M18x1.5	10	79	41	29	22
K1CVS-12-6	10	3/8	-6	9.5	M20x1.5	12	83	45	37	24
K1CVS-14-6	10	3/8	-6	9.5	M22x1.5	12	83	45	37	27
K1CVS-16-8	12	1/2	-8	12.7	M24x1.5	16	93	51	45	30

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



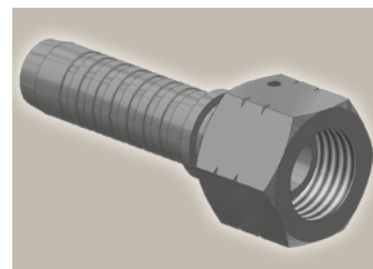
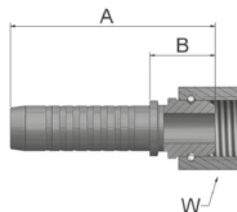
Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
KD2VS-12-6	10	3/8	-6	9.5	M20x1.5	12	66	27	22
KD2VS-14-6	10	3/8	-6	9.5	M22x1.5	14	68	30	22
KD2VS-16-8	12	1/2	-8	12.7	M24x1.5	16	74	31	24

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

VS H31 H31TC H31ST FA35

92 Female BSP Parallel Pipe Swivel – Straight (60° Cone)

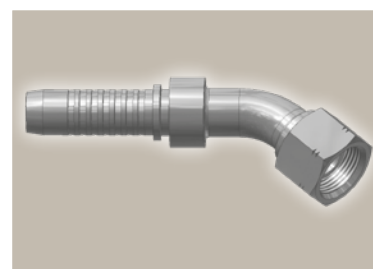
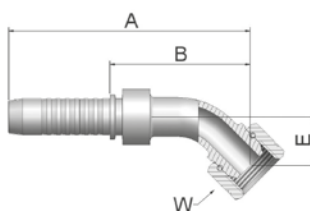
BS5200-A – DKR



Part Number	Hose I.D.				Thread BSP	A mm	B mm	W mm
	DN	Inch	Size	mm				
K92VS-6-6	10	3/8	-6	9.5	3/8x19	60	22	22
K92VS-8-6	10	3/8	-6	9.5	1/2x14	62	23	27
K92VS-8-8	12	1/2	-8	12.7	1/2x14	67	24	27
K92VS-10-8	12	1/2	-8	12.7	5/8x14	65	23	30

B1 Female BSP Parallel Pipe Swivel 45° Elbow (60° Cone)

BS 5200-D – DKR 45°



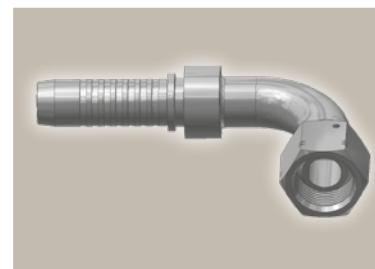
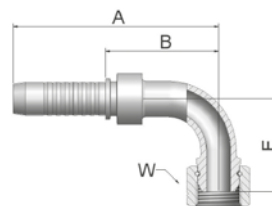
Part Number	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
KB1VS-6-6	10	3/8	-6	9.5	3/8x19	90	52	17	22
KB1VS-8-8	12	1/2	-8	12.7	1/2x14	100	58	20	27
KB1VS-10-8	12	1/2	-8	12.7	5/8x14	99	57	19	30

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

VS H31 H31TC H31ST FA35

B2 Female BSP Parallel Pipe Swivel 90° Elbow (60° Cone)

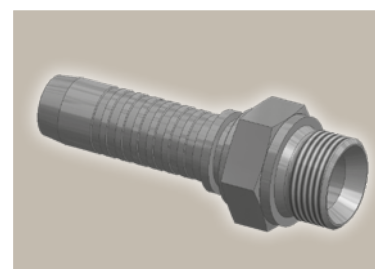
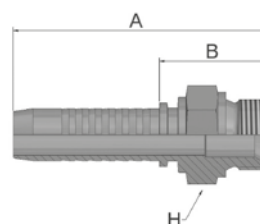
BS 5200-B – DKR 90°



Part Number	Hose I.D.				Thread BSP	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
KB2VS-6-6	10	3/8	-6	9.5	3/8x19	82	44	33	22
KB2VS-8-6	10	3/8	-6	9.5	1/2x14	83	45	36	27
KB2VS-8-8	12	1/2	-8	12.7	1/2x14	92	50	40	27
KB2VS-10-8	12	1/2	-8	12.7	5/8x14	92	50	38	30

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				
KD9VS-4-4	6	1/4	-4	6.4	1/4x19	67	28	19
KD9VS-6-6	10	3/8	-6	9.5	3/8x19	71	33	22
KD9VS-8-8	12	1/2	-8	12.7	1/2x14	78	36	27

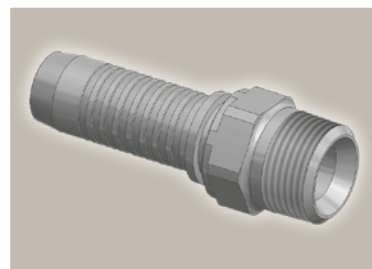
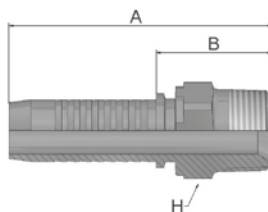
Approved **fitting series** for **hose types**, depending on size:

VS H31 H31TC H31ST FA35

01

Male NPTF Pipe Rigid – Straight

SAE J476A / J516 – AGN

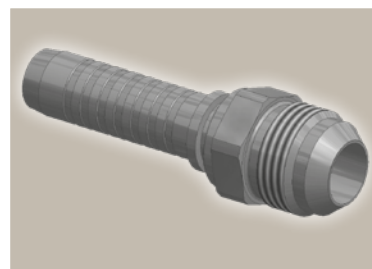
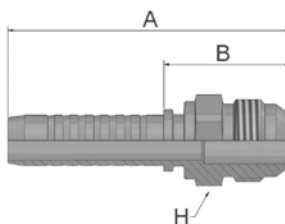


Part Number	Hose I.D.				Thread NPTF	A mm	B mm	H mm
	DN	Inch	Size	mm				
K01VS-6-6	10	3/8	-6	9.5	3/8-18	71	33	19
K01VS-8-8	12	1/2	-8	12.7	1/2-14	83	40	22

03

Male JIC 37° – Rigid Straight

ISO12151-5-S – AGJ



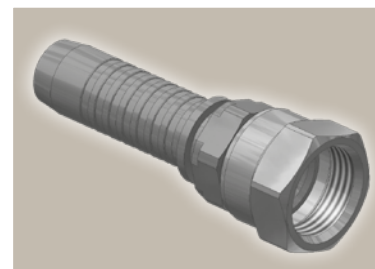
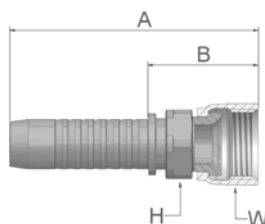
Part Number	Hose I.D.				Thread UNF	A mm	B mm	H mm
	DN	Inch	Size	mm				
K03VS-6-6	10	3/8	-6	9.5	9/16x18	71	32	19
K03VS-8-6	10	3/8	-6	9.5	3/4x16	69	31	22
K03VS-8-8	12	1/2	-8	12.7	3/4x16	79	36	22
K03VS-10-8	12	1/2	-8	12.7	7/8x14	77	35	24

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

VS H31 H31TC H31ST FA35

06/68 Female – JIC 37° SAE 45° Dual Flare Swivel – Straight

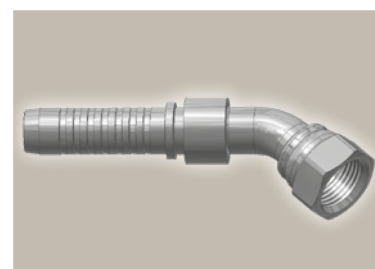
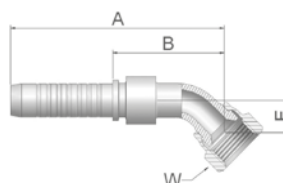
ISO12151-5-SWS – DKJ



Part Number	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
K68VS-4-4	6	1/4	-4	6.4	7/16 20	66	28	14	17
K06VS-6-6	10	3/8	-6	9.5	9/16x18	69	31	17	19
K68VS-8-6	10	3/8	-6	9.5	3/4x16	74	35	17	22
K68VS-8-8	12	1/2	-8	12.7	3/4x16	77	35	22	22
K68VS-10-8	12	1/2	-8	12.7	7/8x14	83	41	22	27
K06VS-12-8	12	1/2	-8	12.7	1 1/16x12	83	41	27	32

37/3V Female JIC 37° SAE 45° – Dual Flare Swivel Female 45° Elbow

ISO 12151-5-SWE 45° – DKJ 45°

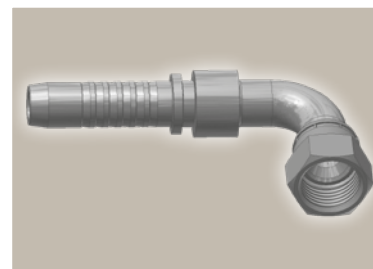
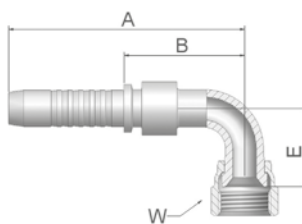


Part Number	Hose I.D.				Thread UNF	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
K37VS-6-6	10	3/8	-6	9.5	9/16x18	83	45	11	19
K3VVS-8-6	10	3/8	-6	9.5	3/4x16	87	49	15	22
K3VVS-8-8	12	1/2	-8	12.7	3/4x16	93	51	15	22
K3VVS-10-8	12	1/2	-8	12.7	7/8x14	94	52	16	27
K37VS-12-8	12	1/2	-8	12.7	1 1/16x12	99	57	21	32

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

VS H31 H31TC H31ST FA35

39/3W Female JIC 37°
SAE 45° – Dual Flare
Swivel Female 90° Elbow
 ISO 12151-5-SWES – DKJ 90°



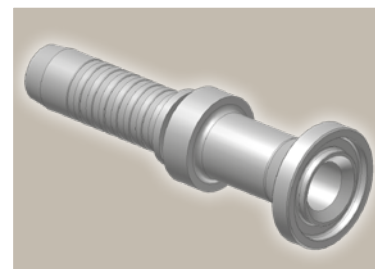
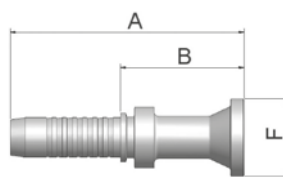
Part Number	 Hose I.D.				 Thread	A	B	E	 W
	DN	Inch	Size	mm	UNF	mm	mm	mm	mm
K39VS-6-6	10	3/8	-6	9.5	9/16x18	80	42	23	19
K3WVS-8-6	10	3/8	-6	9.5	3/4x16	80	42	29	22
K3WVS-8-8	12	1/2	-8	12.7	3/4x16	87	45	29	22
K3WVS-10-8	12	1/2	-8	12.7	7/8x14	87	45	32	27

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

VS H31 H31TC H31ST FA35

15 ISO 6162-1-Flange Straight

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

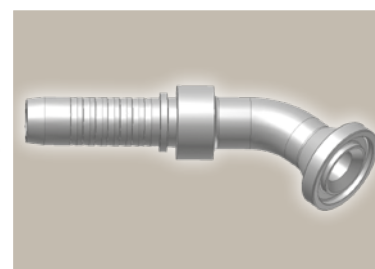
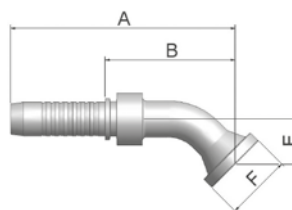


Part Number	Hose I.D.				Flange Inch	A mm	B mm	F mm
	DN	Inch	Size	mm				
K15VS-8-8	12	1/2	-8	12.7	1/2	102	59	30
K15VS-12-8	12	1/2	-8	12.7	3/4	77	34	38

SAE flange halves see in section Eb.

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 Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K17VS-8-8	12	1/2	-8	12.7	1/2	100	57	20	30
K17VS-12-8	12	1/2	-8	12.7	3/4	101	58	21	38

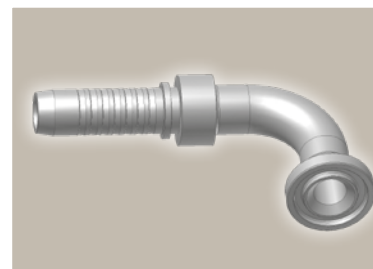
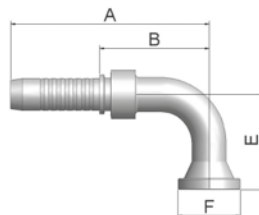
SAE flange halves see in section Eb.

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

VS H31 H31TC H31ST FA35

19 ISO 6162-1-Flange 90° Elbow

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

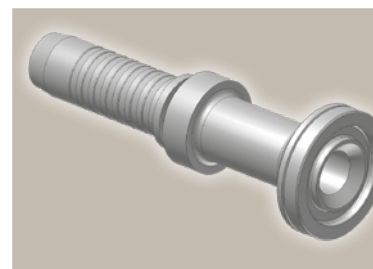
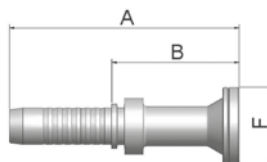


Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K19VS-8-8	12	1/2	-8	12.7	1/2	92	50	41	30
K19VS-12-8	12	1/2	-8	12.7	3/4	92	50	42	38

SAE flange halves see in section Eb.

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				
K6AVS-8-8	12	1/2	-8	12.7	1/2	105	63	32
K6AVS-12-8	12	1/2	-8	12.7	3/4	79	36	41

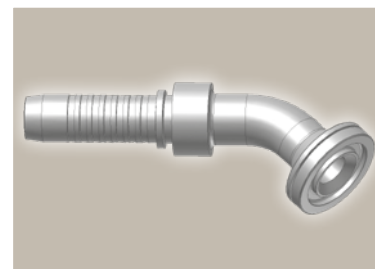
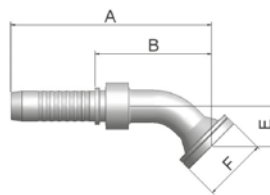
SAE flange halves see in section Eb.

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

VS H31 H31TC H31ST FA35

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

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

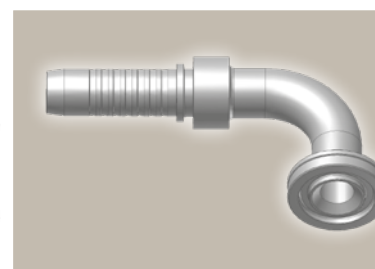
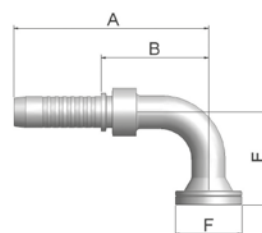


Part Number	Hose I.D.				Flange Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6FVS-8-8	12	1/2	-8	12.7	1/2	94	52	19	32
K6FVS-12-8	12	1/2	-8	12.7	3/4	106	64	26	41

SAE flange halves see in section Eb.

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 Inch	A mm	B mm	E mm	F mm
	DN	Inch	Size	mm					
K6NVS-8-8	12	1/2	-8	12.7	1/2	87	45	41	32
K6NVS-12-8	12	1/2	-8	12.7	3/4	92	50	45	41

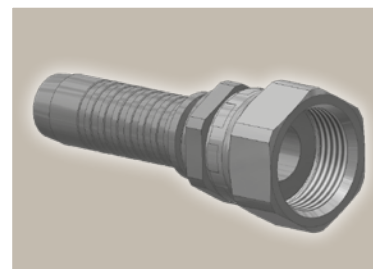
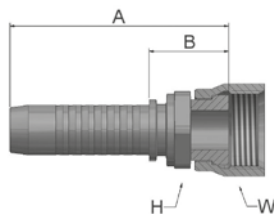
SAE flange halves see in section Eb.

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

VS H31 H31TC H31ST FA35

JC Female ORFS Swivel – Straight Short

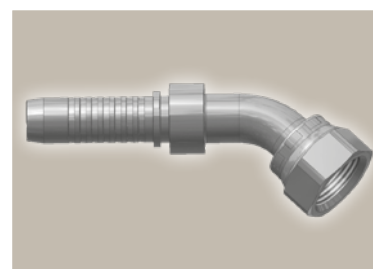
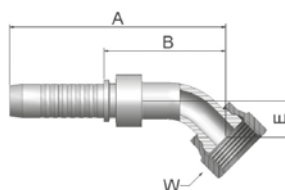
ISO 12151-1 – SWSA
SAE J516 – ORFS



Part Number	Hose I.D.				Thread UNF	A mm	B mm	H mm	W mm
	DN	Inch	Size	mm					
KJCVS-6-6	10	3/8	-6	9.5	11/16x16	60	22	17	22
KJCVS-8-6	10	3/8	-6	9.5	13/16x16	62	23	19	24
KJCVS-8-8	12	1/2	-8	12.7	13/16x16	67	24	22	24
KJCVS-10-8	12	1/2	-8	12.7	1x14	69	26	24	30

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					
KJ7VS-6-6	10	3/8	-6	9.5	11/16x16	83	45	11	22
KJ7VS-8-6	10	3/8	-6	9.5	13/16x16	89	51	15	24
KJ7VS-8-8	12	1/2	-8	12.7	13/16x16	93	51	15	24
KJ7VS-10-8	12	1/2	-8	12.7	1x14	96	53	16	30

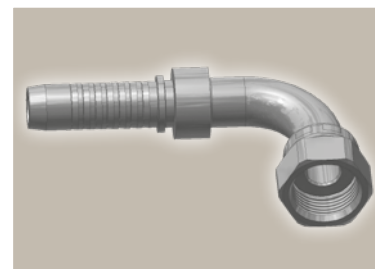
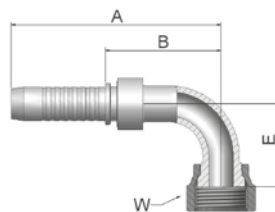
Approved **fitting series** for **hose types**, depending on size:

VS H31 H31TC H31ST FA35

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					
KJ9VS-6-6	10	3/8	-6	9.5	11/16x16	80	42	23	22
KJ9VS-8-6	10	3/8	-6	9.5	13/16x16	83	45	29	24
KJ9VS-8-8	12	1/2	-8	12.7	13/16x16	87	45	29	24
KJ9VS-10-8	12	1/2	-8	12.7	1x14	88	46	30	30

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

VS H31 H31TC H31ST FA35