



INTERPUMP

FLUID SOLUTIONS 

Powered by I.M.M. Hydraulics

Fittings

Fittings

Standard Tail

N Tail

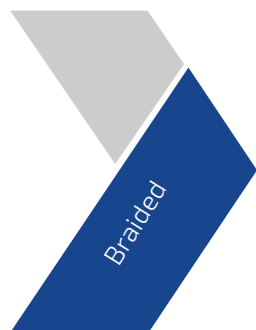
Interlock Tail

Hyblast / Multispiral Tail

Low Pressure Fittings

Standard Tail





001C



Swaged Ferrule (no
skive)

11

003C



Swaged Ferrule (no
skive)

11

001L



Swaged Ferrule (no
skive)

12

0022



Swaged Ferrule (no
skive)

12

012N



Swaged Ferrule

13

012C



Swaged Ferrule

13

0001



Swaged Ferrule (skive)

14

0002



Swaged Ferrule (skive)

15



0009



Swaged Ferrule (skive)

16

004H



Swaged Ferrule (skive)

16

OSI4



Swaged Ferrule (skive)

17

BMC1



Swaged Ferrule (no
skive)

17

BMC2



Swaged Ferrule (no
skive)

18



0007



Swaged Ferrule (no skive)

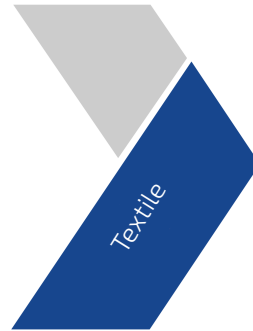
18

0008



Swaged Ferrule (no skive)

19



0003



Swaged Ferrule (no skive)

19



PTFE



Ferrule for PTFE hose

20

PTFE-C



Ferrule for PTFE hose

20



0345



BSP Male Flat Seat

21

0060



BSP Female flat seat

22



0350



BSP Male Parallel 60° cone

23

035G



BSP Male Parallel 60° Cone - Rotating

24

0050



BSP Female 60° cone Thrust Wire

25

0051



BSP Female 60° Cone - Rolled Nut

25

0058



BSP Female 60° Cone Slip On Nut

25

0051D



BSP Female 60° Cone -
Double Hexagon

26

0150



BSP Swept Elbow 60°
Cone-Thrust wire Nut

27

0151



BSP 90° Swept Elbow 60°
Cone - Rolled Nut

27

0158



BSP 90° Swept elbow 60°
cone Slip On Nut

27

0250



BSP Swept Elbow 60°
Cone-Thrust wire Nut

28

0251



BSP 45° Swept Elbow 60°
Cone Rolled nut

28

0258



BSP 45° Swept Elbow 60°
Cone Slip on nut

28

2321



BSP 90° Compact Elbow
60° Cone - Rolled nut

29

2300



BSP 90° Compact Elbow
60° Cone - Thrust wire -
Welded

29

0041



BSP O'Ring Female 60°
Cone-Thrust wire Nut

30

0048



BSP O'Ring Female 60°
Cone - Slip on nut

30

0141



BSP O'Ring 90° Swept
elbow 60° cone Rolled
Nut

31

0148



BSP O'Ring 90° Swept
elbow 60° cone- Slip on
nut

31

0241



BSP O'Ring 45° Swept
Elbow 60° Cone - Rolled
nut

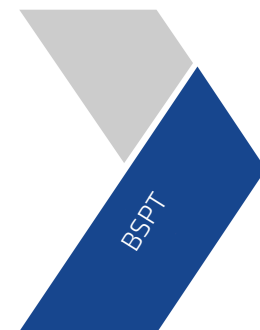
32

0248



BSP O'Ring 45° Swept
Elbow 60° Cone - Slip on
nut

32



0360



BSP Taper Male 60° cone

33

0370



NPTF Male 60° cone

34

037G



NPTF Male Parallel 60°
Cone - Rotating

35

N051



NPSM Female 60° Cone
Rolled Nut

35

0850



JIC Male 74° cone

36

0900



JIC Female 74° - Thrust
Wire Nut

37

0901



JIC Female 74° cone -
Rolled Nut

37

0902



JIC Female 74° - Slip on
nut

37

0901D



JIC Female 74° Cone-
Double Hexagon

38

0950



JIC 90° Swept Elbow 74°
Cone - Thrust Wire

39

0951



JIC 90° Swept Elbow 74°
cone - Rolled Nut

39

0952



JIC 90° Swept Elbow 74°
cone - Slip on nut

39

1000



JIC 45° Swept Elbow 74°
Cone Thrust Wire Nut

40

1001



JIC 45° Swept Elbow 74°
cone - Rolled Nut

40

1002



JIC 45° Swept Elbow 74°
Cone Slip on nut

40

0955



JIC 90° Swept Elbow 74°
cone - ISO SHORT

41

2971



JIC 90° Compact Elbow
74° cone - Crimped Nut

41



0385



SAE Male O'R Flat Seat

42



0500



Metric Male 24° Seat
Light

43

0085



Metric Female 24° Seat
Light

44

0185



90° Metric Swept Elbow
24° Seat Light

45

0285



45° Metric Swept Elbow
24° Seat Light

46



0450



Metric Male 24° Seat
Heavy

47

0084



Metric Female 24° Seat
Heavy

48

0184



90° Metric Swept Elbow
24° Seat Heavy

49

0284



45° Metric Swept Elbow
24° Seat Heavy

50



0550



Metric Standpipe

51

0650



90° Metric Standpipe

52

0650S



Female Metric Tubular
90 ° (welded)

52

0750



45° Metric Standpipe

53

0750S



45° Metric Standpipe
(welded)

53



0035



Metric Female 24° Seat
Light Multiseal

54

0135



90° Metric Swept Elbow
24° Seat Light Multiseal

55



0400



Metric Male 60° cone

56

0100



Metric Female 60° cone

57

0200



90° Metric Swept Elbow
60° cone

58



S350



ORFS Male

59

S050



ORFS Female

60

S05T



ORFS Female Back
Hexagon

61

S150



ORFS 90° Swept Elbow

62

S155



ORFS 90° Swept Elbow -
ISO SHORT

63

S250



ORFS 45° Swept Elbow

64



1260



Straight SAE Flange
3000 PSI

65

1060



90° SAE Flange 3000 PSI

66

1160



45° SAE Flange 3000 PSI

67

FS3L



90° SAE Flange 3000 Psi
- Long Drop

67

S003



Cut Split Flanges - 3000
psi

68



1310



Straight SAE Flange
6000 PSI

69

1110



90° SAE Flange 6000 PSI

70

1210



45° SAE Flange 6000 PSI

71

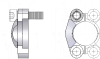
FS6L



90° SAE Flange 6000 PSI
- Long Drop

71

S006



Cut Split Flanges - 6000
psi

72



130S



Straight 'CAT' Flange

72

110S



90° 'CAT' Flange

73

120S



45° 'CAT' Flange

73



1250



Flangia Komatsu dritta
SAE 3000 PSI

74

1050



Komatsu Flange 90°

74

1150



Flangia Komatsu 45° SAE
3000 PSI

74

0940



JIS Female 60° Cone
(Komatsu)

75

0990S



90° JIS Swept Elbow
(Komatsu) - welded

76



0930



JIS Female 60° cone
(Toyota)

76

0980S



90° JIS Swept Elbow
(Toyota) - welded

77



0920



JIS Female 60° cone
(Nissan)

77



0030



Metric Female 24° Cone
French Type

78

Metric Karcher

FK50



K' Female

78

FN50



'K' Male (for gun) -
Diameter 10

79

FN51



'K' Male (for gun) -
Diameter 11

79

Banjo/bolt

1400



BSP Banjo

80

1600



Double BSP Perforated
Bolt

81

1600-00



BSP Perforated Bolt

81

1350



Metric Banjo

82

1650



Metric perforated bolt

83

Junction

D050



Hose Junction

84

Weldable Fitting

GS00

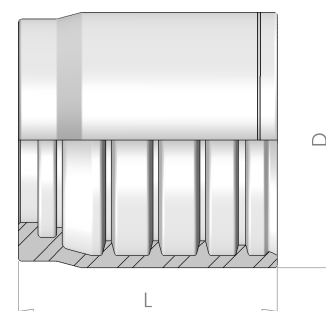


Weldable Fitting

85

001C

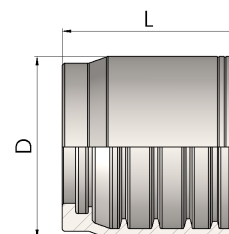
Swaged Ferrule (no skive)



Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	
001C-03	3/16	4.8	18.5	24	NO	R17-2SC-1SN-Pilot-H1
001C-04	1/4	6.4	20	26	NO	R17-2SC-1SC-1SN-Pilot-H1
001C-05	5/16	7.9	22	28	NO	R17-2SC-1SC-1SN-Pilot-H1
001C-06	3/8	9.5	25	28	NO	R17-2SC-1SC-1SN-Pilot-H1
001C-08	1/2	12.7	28	28	NO	R17-2SC-1SC-1SN-Pilot-H1
001C-10	5/8	15.9	32	31	NO	R17-2SC-1SC-1SN-H1
001C-12	3/4	19	36	38	NO	R17-2SC-1SC-1SN-H1
001C-16	1	25.4	44	47.5	NO	R17-2SC-1SC-1SN-H1
001C-20	1.1/4	31.8	54	56	NO	1SN-2SC-1SC
001C-24	1.1/2	38.1	61.6	66	NO	1SN-2SC-1SC
001C-32	2	50.8	75.4	73	NO	1SN-2SC-1SC
001C-40	2.1/2	63.5	88.4	80	NO	2SC-1SC
001C-48	3	76.2	100.5	90	NO	2SC-1SC

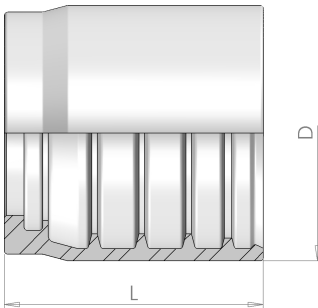
003C

Swaged Ferrule (no skive)



Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	
003C-08	1/2	12.7	31	31	NO	3SC
003C-10	5/8	15.9	36	31	NO	3SC
003C-12	3/4	19	40	38.5	NO	3SC
003C-16	1	25.4	49	48	NO	3SC

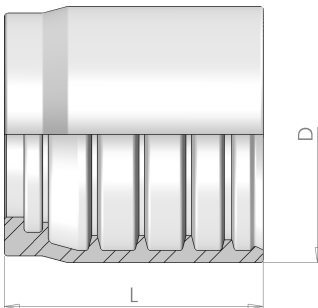
001L



Swaged Ferrule (no skive)

Product number	hose I.D.		Dimension		skive	valid for
	in		D	L	Length	-
001L-04	1/4		19.2	26	NO	Hywasher 4K / HyWasher Plus 4K
001L-05	5/16		20.6	28	NO	Hywasher 4K / HyWasher Plus 4K
001L-06	3/8		23.3	28	NO	Hywasher 4K / HyWasher Plus 4K
001L-08	1/2		27	28	NO	Hywasher 4K / HyWasher Plus 4K

0022

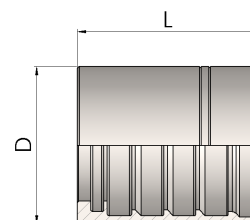


Swaged Ferrule (no skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0022-03	3/16	4.8	21	25.3	NO	2SN-(1SN)
0022-04	1/4	6.4	22	28	NO	2SN-(1SN)
0022-05	5/16	7.9	24	28	NO	2SN-(1SN)
0022-06	3/8	9.5	26	28	NO	2SN-(1SN)
0022-08	1/2	12.7	30	31	NO	2SN-(1SN)
0022-10	5/8	15.9	34	31	NO	2SN-(1SN)
0022-12	3/4	19	38	38.5	NO	2SN-(1SN)
0022-16	1	25.4	47	48	NO	2SN-(1SN)
0022-20	1.1/4	31.8	58	56	NO	2SN-(1SN)
0022-24	1.1/2	38.1	66	66	NO	2SN-(1SN)
0022-32	2	50.8	79	73	NO	2SN-(1SN)

012N

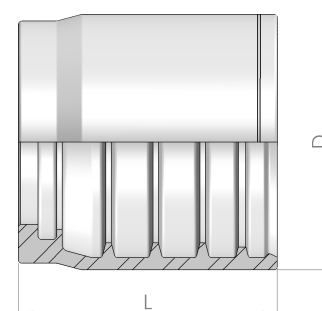
Swaged Ferrule



Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
012N-04	1/4	6.4	18.3	28	21	ONE 1RN-TWO 2RN-2MC-2SC
012N-05	5/16	7.9	20.0	29	22	ONE 1RN-TWO 2RN-2MC-2SC
012N-06	3/8	9.5	22.8	30	23	ONE 1RN-TWO 2RN-2MC-2SC
012N-08	1/2	12.7	26.3	32	24	ONE 1RN-TWO 2RN-2MC-2SC
012N-10	5/8	15.9	29.8	34	26	ONE 1RN-TWO 2RN-2MC-2SC
012N-12	3/4	19	34.4	40	31	ONE 1RN-TWO 2RN-2MC-2SC
012N-16	1	25.4	42.9	49	38	ONE 1RN-TWO 2RN-2MC-2SC
012N-20	1.1/4	31.8	52.5	56	43	TWO 2RN
012N-24	1.1/2	38.1	59.2	63	49	TWO 2RN
012N-32	2	50.8	72.2	73	58	TWO 2RN

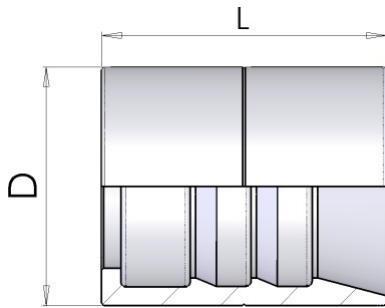
012C

Swaged Ferrule



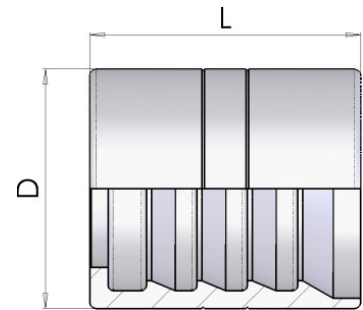
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
012C-20	1.1/4	31.8	49.2	56	43	ONE 1RN-1SC-2SC
012C-24	1.1/2	38.1	56.0	63	49	ONE 1RN-1SC-2SC
012C-32	2	50.8	69.2	73	58	ONE 1RN-1SC-2SC

0001

**Swaged Ferrule (skive)**

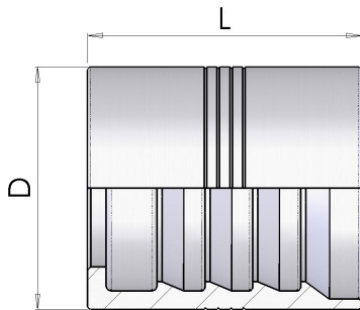
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0001-03	3/16	4.8	17.5	27	20	1SN-(2SC-1ST)
0001-04	1/4	6.4	20	30.2	23	1SN-(2SC-1ST)
0001-05	5/16	7.9	22	30.7	23	1SN-(2SC-1ST)
0001-06	3/8	9.5	24	32	24	1SN-(2SC-1ST)
0001-08	1/2	12.7	28.5	34	25	1SN-(2SC-1ST)
0001-10	5/8	15.9	32	37	27	1SN-(2SC-1ST)
0001-12	3/4	19	36	43	31	1SN-(2SC-1ST)
0001-16	1	25.4	43	50	37	1SN-(2SC-1ST)
0001-20	1.1/4	31.8	52	57	46	1SN-(2SC-1ST)
0001-24	1.1/2	38.1	57	63	44	1SN-(2SC-1ST)
0001-32	2	50.8	70.6	78	60	1SN-(2SC-1ST)

0002

Swaged Ferrule (skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0002-03	3/16	4.8	20	27	21	2SN-(2ST)
0002-04	1/4	6.4	21	30	22	2SN-(2ST)
0002-05	5/16	7.9	24	30	22	2SN-(2ST)
0002-06	3/8	9.5	25.4	32	24	2SN-3SC-(2ST)
0002-08	1/2	12.7	30	34	25	2SN-(2ST)
0002-10	5/8	15.9	34	37	27	2SN-(2ST)
0002-12	3/4	19	38	43	31	2SN-(2ST)
0002-16	1	25.4	46	50	37	2SN-(2ST)
0002-20	1.1/4	31.8	56	59	43	2SN-(2ST)
0002-24	1.1/2	38.1	62	63	45	2SN-(2ST)
0002-32	2	50.8	75	79	61	2SN-(2ST)
0002-40	2.1/2	63.5	95	83.7	63	2SN-(2ST)
0002-48	3	76.2	105.6	94.3	78	2SN-(2ST)

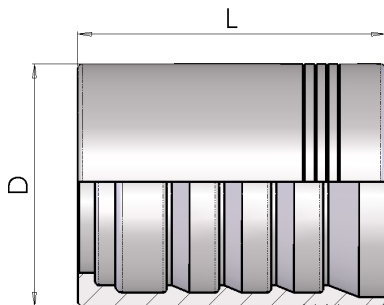
0009



Swaged Ferrule (skive)

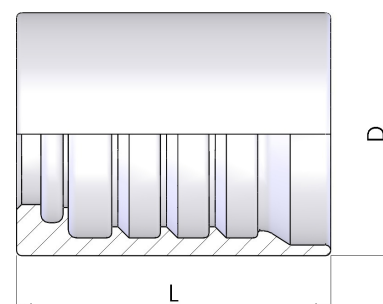
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0009-04	1/4	6.4	21	30	22	4SP-R12
0009-06	3/8	9.5	25.4	33.5	26	4SP-R12
0009-08	1/2	12.7	30	36	28	4SP-R12
0009-10	5/8	15.9	34	40	31	4SP-R12
0009-12	3/4	19	38	43	34	4SP-(R12-4SH)
0009-16	1	25.4	46	60	48	(4SP-R12)
0009-20	1.1/4	31.8	56	66	54	(4SP-R12)
0009-24	1.1/2	38.1	67	76.5	62	(4SP-R12)
0009-32	2	50.8	80	79.8	64	4SP

004H

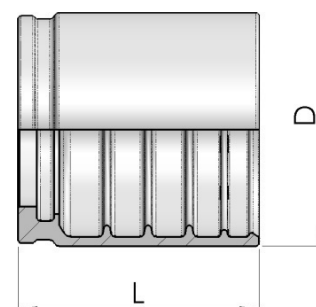


Swaged Ferrule (skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
004H-20	1.1/4	31.8	52	66	55	(4SH)
004H-24	1.1/2	38.1	62	76.5	63	(4SH)

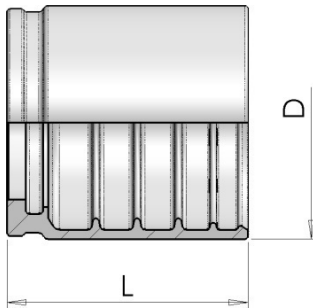
OSI4**Swaged Ferrule (skive)**

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	
OSI4-06	3/8	9.5	24	31	23	Four SP - Hysoflex 4K - Hysoflex 5K - Hysoflex 6K
OSI4-08	1/2	12.7	27.6	33	24.5	Four SP - Hysoflex 4K - Hysoflex 5K - Hysoflex 6K
OSI4-10	5/8	15.9	32	36	27.5	Four SP - Hysoflex 4K
OSI4-12	3/4	19	36.4	42	32.5	Four SP - Hysoflex 4K
OSI4-16	1	25.4	44	55.5	44	Four SP - Hysoflex 4K

BMC1**Swaged Ferrule (no skive)**

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	
BMC1-12	3/4	19	45	41	NO	R12
BMC1-16	1	25.4	53.5	56	NO	R12-4SP-4SH
BMC1-20	1.1/4	31.8	62	62	NO	(4SH)

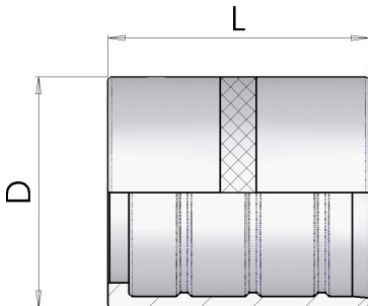
BMC2



Swaged Ferrule (no skive)

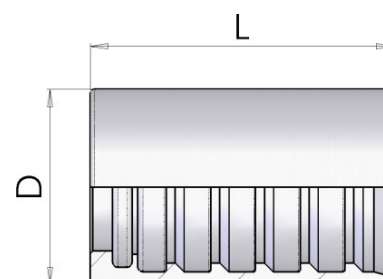
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
BMC2-20	1.1/4	31.8	66	62	NO	R12-4SP
BMC2-24	1.1/2	38.1	73.3	70	NO	R12-4SP-(R13)

0007

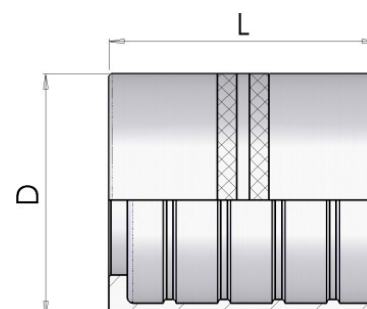


Swaged Ferrule (no skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0007-03	3/16	4.8	14	27	NO	R7-R6-1TE-2TE
0007-04	1/4	6.4	17	29	NO	R7-R6-1TE-2TE
0007-05	5/16	7.9	19	30	NO	R7-R6-1TE-2TE
0007-06	3/8	9.5	21	31	NO	R7-R6-1TE-2TE
0007-08	1/2	12.7	25.4	34	NO	R7-R6-1TE-2TE
0007-10	5/8	15.9	28.5	36	NO	R7-R6-1TE-2TE
0007-12	3/4	19	32	36	NO	R7-R6-1TE-2TE
0007-16	1	25.4	40	50	NO	R7-R6-1TE-2TE

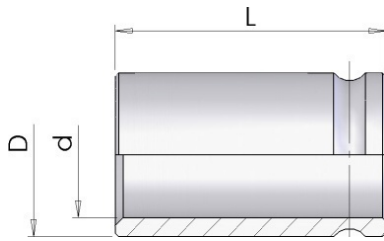
0008**Swaged Ferrule (no skive)**

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0008-03	3/16	4.8	13	25	NO	R8
0008-04	1/4	6.4	17	29	NO	R8
0008-05	5/16	7.9	19	30	NO	R8
0008-06	3/8	9.5	21.5	31	NO	R8
0008-08	1/2	12.7	26	34	NO	R8
0008-10	5/8	15.9	29	40	NO	R8
0008-12	3/4	19	32	42	NO	R8
0008-16	1	25.4	40	50	NO	R8

0003**Swaged Ferrule (no skive)**

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0003-03	3/16	4.8	14	27	NO	R3-3TE-R5
0003-04	1/4	6.4	19	29	NO	R3-3TE-R5
0003-05	5/16	7.9	22	30	NO	R3-3TE-R5
0003-06	3/8	9.5	24	31	NO	R3-3TE-R5
0003-08	1/2	12.7	28.5	34	NO	R3-3TE-R5
0003-10	5/8	15.9	32	36	NO	R3-3TE-R5
0003-12	3/4	19	38	42	NO	R3-3TE-R5
0003-16	1	25.4	46	50	NO	R3-3TE
0003-20	1.1/4	31.8	52	57	NO	R3-3TE

PTFE

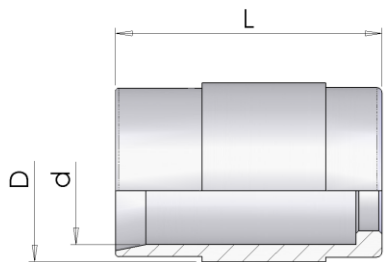


Ferrule for PTFE hose

Product number	hose I.D.		Dimension			skive	valid for
	in	mm	D	L	d-int	Length	-
PTFE-03	3/16	4.8	12.7	22	9.5	NO	PTFE type T1
PTFE-04	1/4	6.4	14.4	23.9	11.1	NO	PTFE type T1
PTFE-05	5/16	7.9	17.1	24.6	13	NO	PTFE type T1
PTFE-06	3/8	9.5	19	27.4	15	NO	PTFE type T1
PTFE-08	1/2	12.7	22.4	28.7	18.3	NO	PTFE type T1
PTFE-10	5/8	15.9	27	31.7	23.1	NO	PTFE type T1
PTFE-12	3/4	19	28.7	34.5	24.8	NO	PTFE type T1
PTFE-16	1	25.4	38.1	43.6	34.3	NO	PTFE type T1

For PTFE hose type T1 - (with standard fittings)

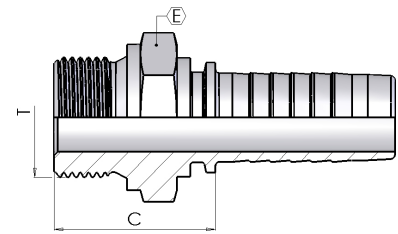
PTFE-C



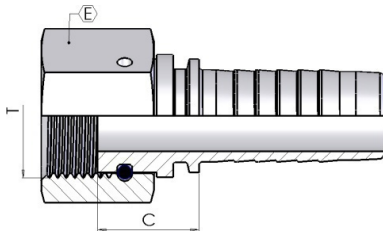
Ferrule for PTFE hose

Product number	hose I.D.		Dimension			skive	valid for
	in	mm	D	L	d-int	Length	-
PTFE-04-C	1/4	6.4	17.8	26.5	14.4	NO	PTFE type LTC
PTFE-06-C	3/8	9.5	20	30.5	16.8	NO	PTFE type LTC
PTFE-08-C	1/2	12.7	24	33.2	20.5	NO	PTFE type LTC
PTFE-10-C	5/8	15.9	29.2	34.8	25.4	NO	PTFE type LTC
PTFE-12-C	3/4	19	31.1	40.9	27.4	NO	PTFE type LTC
PTFE-16-C	1	25.4	38.5	47	34.7	NO	PTFE type LTC

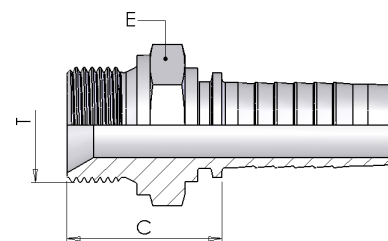
For PTFE hose type LTC - (with standard fittings)

0345**BSP Male - Flat Seat****(AGR-F)**

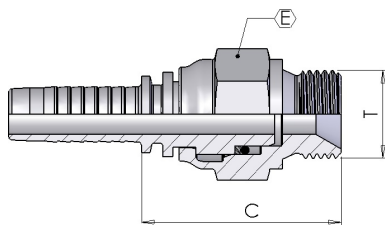
Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0345-04-04	1/4	6.4	04	1/4-19	19	27
0345-05-06	5/16	7.9	05	3/8-19	22	28
0345-06-06	3/8	9.5	06	3/8-19	22	29
0345-06-08	3/8	9.5	06	1/2-14	27	32
0345-08-08	1/2	12.7	08	1/2-14	27	33
0345-10-12	5/8	15.9	10	3/4-14	32	35
0345-12-12	3/4	19	12	3/4-14	32	36
0345-12-16	3/4	19	12	1-11	41	39
0345-16-16	1	25.4	16	1-11	41	40

0060**BSP Female flat seat****(DKR-F)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0060-04-04	1/4	6.4	04	1/4-19	19	14
0060-04-06	1/4	6.4	04	3/8-19	22	15
0060-05-06	5/16	7.9	05	3/8-19	22	15
0060-05-08	5/16	7.9	05	1/2-14	27	17
0060-06-06	3/8	9.5	06	3/8-19	22	15
0060-06-08	3/8	9.5	06	1/2-14	27	16
0060-08-08	1/2	12.7	08	1/2-14	27	16
0060-08-12	1/2	12.7	08	3/4-14	32	23
0060-10-10	5/8	15.9	10	5/8-14	30	16
0060-10-12	5/8	15.9	10	3/4-14	32	20
0060-12-12	3/4	19	12	3/4-14	32	21
0060-12-16	3/4	19	12	1-11	38	23
0060-16-16	1	25.4	16	1-11	38	22

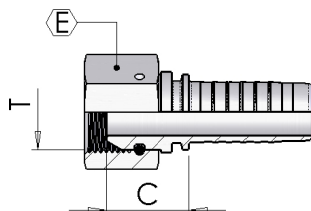
BSP Male Parallel 60° cone**(AGR)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0350-03-02	3/16	4.8	03	1/8-28	14	21
0350-03-04	3/16	4.8	03	1/4-19	19	26
0350-04-02	1/4	6.4	04	1/8-28	14	21
0350-04-04	1/4	6.4	04	1/4-19	19	27
0350-04-06	1/4	6.4	04	3/8-19	22	28
0350-04-08	1/4	6.4	04	1/2-14	27	35
0350-05-04	5/16	7.9	05	1/4-19	19	27
0350-05-06	5/16	7.9	05	3/8-19	22	28
0350-05-08	5/16	7.9	05	1/2-14	27	32
0350-06-04	3/8	9.5	06	1/4-19	19	27
0350-06-06	3/8	9.5	06	3/8-19	22	29
0350-06-08	3/8	9.5	06	1/2-14	27	32
0350-08-06	1/2	12.7	08	3/8-19	22	29
0350-08-08	1/2	12.7	08	1/2-14	27	33
0350-08-10	1/2	12.7	08	5/8-14	30	34
0350-08-12	1/2	12.7	08	3/4-14	32	35
0350-10-08	5/8	15.9	10	1/2-14	27	33
0350-10-10	5/8	15.9	10	5/8-14	30	35
0350-10-12	5/8	15.9	10	3/4-14	32	35
0350-12-08	3/4	19	12	1/2-14	27	33
0350-12-12	3/4	19	12	3/4-14	32	36
0350-12-16	3/4	19	12	1-11	41	39
0350-16-16	1	25.4	16	1-11	41	40
0350-16-20	1	25.4	16	1.1/4-11	50	44
0350-20-16	1.1/4	31.8	20	1-11	41	41
0350-20-20	1.1/4	31.8	20	1.1/4-11	50	45
0350-20-24	1.1/4	31.8	20	1.1/2-11	55	46
0350-24-24	1.1/2	38.1	24	1.1/2-11	55	46
0350-24-32	1.1/2	38.1	24	2-11	70	54
0350-32-24	2	50.8	32	1.1/2-11	65	50
0350-32-32	2	50.8	32	2-11	70	54

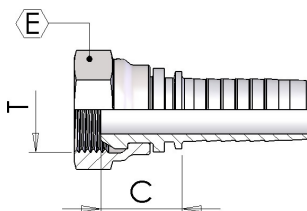
035G**BSP Male Parallel 60° Cone - Rotating****(AGR-RO)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
035G-04-04	1/4	6.4	04	1/4-19	19	37
035G-06-06	3/8	9.5	06	3/8-19	22	43
035G-08-08	1/2	12.7	08	1/2-14	27	47
035G-12-12	3/4	19	12	3/4-14	32	52

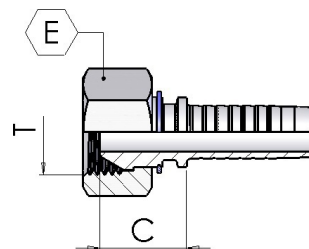
0050



0051



0058



BSP Female 60° Cone

(DKR)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0051-03-02	3/16	4.8	03	1/8-28	14	15
0058-03-04	3/16	4.8	03	1/4-19	19	17
0051-04-02	1/4	6.4	04	1/8-28	14	15
0058-04-04	1/4	6.4	04	1/4-19	19	21
0058-04-06	1/4	6.4	04	3/8-19	22	21
0051-05-04	5/16	9.5	05	1/4-19	19	19
0058-05-06	5/16	7.9	05	3/8-19	22	21
0058-05-08	5/16	7.9	05	1/2-14	27	22
0051-06-04	3/8	9.5	06	1/4-19	19	17
0058-06-06	3/8	9.5	06	3/8-19	22	21
0058-06-08	3/8	9.5	06	1/2-14	27	23
0051-08-06	1/2	12.7	08	3/8-19	22	20
0058-08-08	1/2	12.7	08	1/2-14	27	23
0051-08-10	1/2	12.7	08	5/8-14	30	20
0051-08-12	1/2	12.7	08	3/4-14	32	27
0051-10-08	5/8	15.9	10	1/2-14	27	23
0051-10-10	5/8	15.9	10	5/8-14	30	20
0051-10-12	5/8	15.9	10	3/4-14	32	25
0051-12-08	3/4	19	12	1/2-14	27	24
0051-12-12	3/4	19	12	3/4-14	32	25
0051-12-16	3/4	19	12	1-11	38	26
0051-16-12	1	25.4	16	3/4-14	32	27
0051-16-16	1	25.4	16	1-11	38	27
0050-16-20*	1	25.4	16	1.1/4-11	50	30
0050-20-20*	1.1/4	31.8	20	1.1/4-11	50	32
0050-20-24*	1.1/4	31.8	20	1.1/2-11	55	34
0050-24-24*	1.1/2	38.1	24	1.1/2-11	55	34
0050-24-32*	1.1/2	38.1	24	2-11	70	34
0050-32-32*	2	50.8	32	2-11	70	31
0050-40-40	2.1/2	63.5	40	2.1/2-11	85	41
0050-48-48	3	76.2	48	3-11	100	45

(*) - BSP O-Ring Female

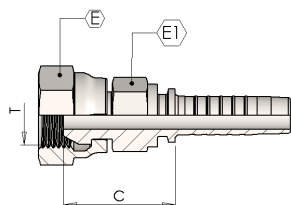
(*) - On request available in version without O-Ring (in case of order use code 015X)



O-Ring

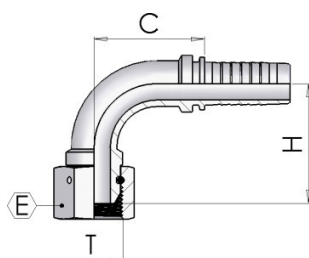
0051D

BSP Female 60° Cone - Double Hexagon

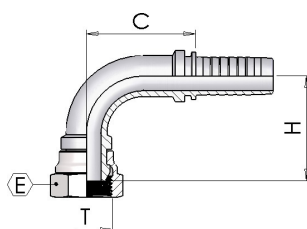


Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
0051D04-04	1/4	6,4	04	1/4-19	19	14	22
0051D06-06	3/8	9.5	06	3/8-19	22	17	28
0051D08-08	1/2	12.7	08	1/2-14	27	22	30
0051D12-12	3/4	19	12	3/4-14	32	27	35

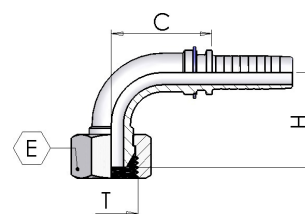
0150



0151



0158

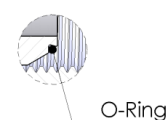


BSP 90° Swept elbow 60° cone

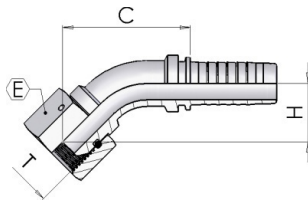
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0151-03-02	3/16	03	03	1/8-28	14	23	23
0151-03-04	3/16	03	03	1/4-19	19	25	25
0151-04-02	1/4	04	04	1/8-28	14	25	25
0158-04-04	1/4	04	04	1/4-19	19	21	27
0158-04-06	1/4	04	04	3/8-19	22	24	27
0151-05-04	5/16	05	05	1/4-19	19	31	31
0158-05-06	5/16	05	05	3/8-19	22	29	31
0151-06-04	3/8	06	06	1/4-19	19	33	31
0158-06-06	3/8	06	06	3/8-19	22	29	33
0158-06-08	3/8	06	06	1/2-14	27	31	36
0151-08-06	1/2	08	08	3/8-19	22	42	39
0158-08-08	1/2	08	08	1/2-14	27	37.5	38.5
0151-08-10	1/2	08	08	5/8-14	30	41	40
0151-08-12	1/2	08	08	3/4-14	32	46	41
0151-10-10	5/8	10	10	5/8-14	30	43	43
0151-10-12	5/8	10	10	3/4-14	32	50	45
0151-12-12	3/4	12	12	3/4-14	32	57	56
0151-12-16	3/4	12	12	1-11	38	56	56
0151-16-16	1	16	16	1-11	38	67	70
0150-20-20*	1.1/4	20	20	1.1/4-11	50	84	83
0150-24-24*	1.1/2	24	24	1.1/2-11	55	95	103
0150-32-32*	2	32	32	2-11	70	124	133

(*) - BSP O-Ring Female

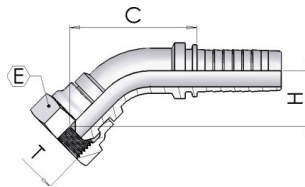
(*) - On request available in version without O-Ring (in case of order use code 015X)



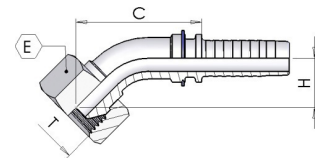
0250



0251



0258



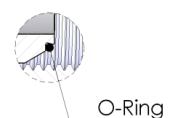
BSP 45° Swept Elbow 60° Cone

(DKR-45°)

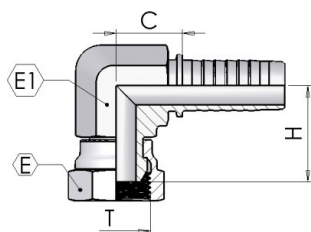
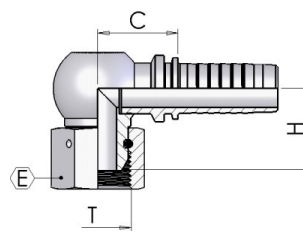
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0251-03-02	3/16	4.8	03	1/8-28	14	15	33
0251-04-02	1/4	6.4	04	1/8-28	14	14	40
0258-04-04	1/4	6.4	04	1/4-19	19	14	39
0258-04-06	1/4	6.4	04	3/8-19	22	16	41
0251-05-04	5/16	7.9	05	1/4-19	19	16	47
0251-06-04	3/8	9.5	06	1/4-19	19	19	50
0258-06-06	3/8	9.5	06	3/8-19	22	17	47
0258-06-08	3/8	9.5	06	1/2-14	27	16	52
0251-08-06	1/2	12.7	08	3/8-19	22	22	63
0258-08-08	1/2	12.7	08	1/2-14	27	19	61
0251-08-10	1/2	12.7	08	5/8-14	30	21	64
0251-08-12	1/2	12.7	08	3/4-14	32	26	67
0251-10-08	5/8	15.9	10	1/2-14	27	24	68
0251-10-10	5/8	15.9	10	5/8-14	30	23	68
0251-10-12	5/8	15.9	10	3/4-14	32	27	72
0251-12-12	3/4	19	12	3/4-14	32	28	88
0251-12-16	3/4	19	12	1-11	38	32	88
0251-16-16	1	25.4	16	1-11	38	30	88
0250-20-20*	1.1/4	31.8	20	1.1/4-11	50	40	107
0250-24-24*	1.1/2	38.1	24	1.1/2-11	55	51	117
0250-32-32*	2	50.8	32	2-11	70	59	146

(*) - BSP O-Ring Female

(*) - On request available in version without O-Ring (in case of order use code 025X)

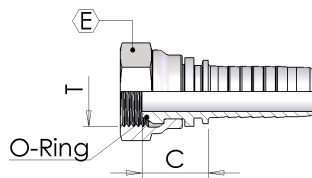


O-Ring

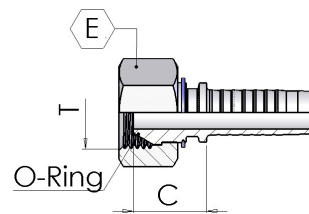
2321**2300****BSP 90° Compact Elbow 60° Cone****(DKR 90° K)**

Product number	hose I.D.		Dimension						
	in	mm	dash size	T	E	E1	drop H	Cut-off C	
2321-03-02	3/16	4.8	03	1/8-28	14	12	18	17	
2321-03-04	3/16	4.8	03	1/4-19	19	14	20	17	
2321-04-04	1/4	6.4	04	1/4-19	19	15	20	19	
2321-04-06	1/4	6.4	04	3/8-19	22	17	29	24	
2321-05-06	5/16	7.9	05	3/8-19	22	17	23	24	
2321-06-06	3/8	9.5	06	3/8-19	22	17	23	23	
2321-06-08	3/8	9.5	06	1/2-14	27	19	26	28	
2321-08-08	1/2	12.7	08	1/2-14	27	22	27	26	
2321-10-10	5/8	15.9	10	5/8-14	30	24	28	29	
2321-12-12	3/4	19	12	3/4-14	32	27	32	32	
2321-16-16	1	25.4	16	1-11	38	32	36	38	
2300-20-20	1.1/4	31.8	20	1.1/4-11	50	-	46	47	

0041



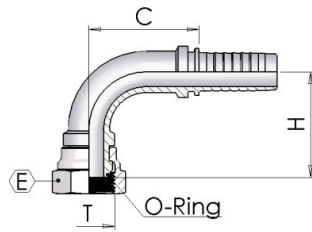
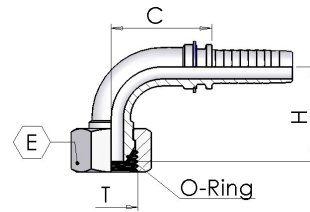
0048



BSP O'Ring Female 60° Cone

(DKOR)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0048-04-04	1/4	6.4	04	1/4-19	19	22
0048-04-06	1/4	6.4	04	3/8-19	22	20
0048-06-06	3/8	9.5	06	3/8-19	22	20
0048-06-08	3/8	9.5	06	1/2-14	27	23
0048-08-08	1/2	12.7	08	1/2-14	27	23
0041-10-10	5/8	15.9	10	5/8-14	30	21
0041-12-12	3/4	19	12	5/8-14	32	26
0041-16-16	1	25.4	16	1-11	38	28

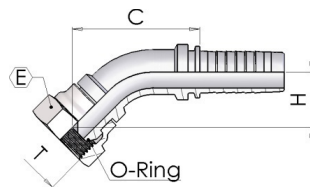
0141**0148**

BSP O'Ring 90° Swept elbow 60° cone

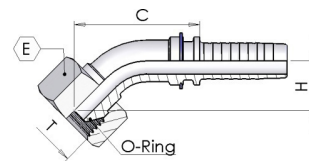
(DKOR 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0148-04-04	1/4	6.4	04	1/4-19	19	22	27
0148-04-06	1/4	6.4	04	3/8-19	22	23	27
0148-06-06	3/8	9.5	06	3/8-19	22	23	27
0148-06-08	3/8	9.5	06	1/2-14	27	30	33
0148-08-08	1/2	12.7	08	1/2-14	27	35	42
0141-10-10	5/8	15.9	10	5/8-14	30	54	37
0141-12-12	3/4	19	12	3/4-14	32	58	56
0141-16-16	1	25.4	16	1-11	38	37	70

0241

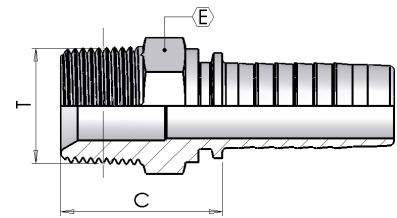


0248



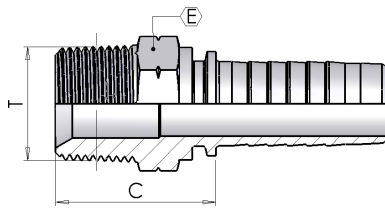
BSP O'Ring 45° Swept Elbow 60° Cone (DKOR 45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0248-04-04	1/4	6.4	04	1/4-19	19	15	41
0248-06-06	3/8	9.5	06	3/8-19	22	15	47
0248-08-08	1/2	12.7	08	1/2-14	27	19	61
0241-12-12	3/4	19	12	3/4-14	32	28	88
0241-16-16	1	25.4	16	1-11	38	32	114

0360**BSP Taper Male 60° cone****(AGR-K)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0360-03-02	3/16	4.8	03	1/8-28	12	21
0360-03-04	3/16	4.8	03	1/4-19	15	27
0360-04-02	1/4	6.4	04	1/8-28	12	22
0360-04-04	1/4	6.4	04	1/4-19	15	28
0360-04-06	1/4	6.4	04	3/8-19	19	28
0360-05-04	5/16	7.9	05	1/4-19	15	28
0360-05-06	5/16	7.9	05	3/8-19	19	28
0360-06-04	3/8	9.5	06	1/4-19	17	28
0360-06-06	3/8	9.5	06	3/8-19	19	28
0360-06-08	3/8	9.5	06	1/2-14	22	33
0360-08-06	1/2	12.7	08	3/8-19	19	29
0360-08-08	1/2	12.7	08	1/2-14	22	34
0360-08-12	1/2	12.7	08	3/4-14	27	36
0360-12-12	3/4	19	12	3/4-14	27	37
0360-12-16	3/4	19	12	1-11	36	43
0360-16-16	1	25.4	16	1-11	36	44
0360-20-20	1.1/4	31.8	20	1.1/4-11	46	47
0360-24-24	1.1/2	38.1	24	1.1/2-11	50	49
0360-32-32	2	50.8	32	2-11	65	55

0370



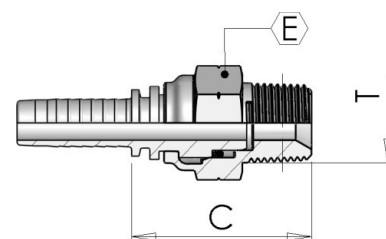
NPTF Male 60° cone

(AGN)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0370-03-02	3/16	4.8	03	1/8-27	12	22
0370-03-04	3/16	4.8	03	1/4-18	15	27
0370-04-02	1/4	6.4	04	1/8-27	12	22
0370-04-04	1/4	6.4	04	1/4-18	15	28
0370-04-06	1/4	6.4	04	3/8-18	19	28
0370-05-04	5/16	7.9	05	1/4-18	15	28
0370-05-06	5/16	7.9	05	3/8-18	19	28
0370-06-04	3/8	9.5	06	1/4-18	17	28
0370-06-06	3/8	9.5	06	3/8-18	19	28
0370-06-08	3/8	9.5	06	1/2-14	22	34
0370-08-06	1/2	12.7	08	3/8-18	19	29
0370-08-08	1/2	12.7	08	1/2-14	22	35
0370-08-12	1/2	12.7	08	3/4-14	27	36
0370-10-08	5/8	15.8	10	1/2-14	24	35
0370-10-12	5/8	15.8	10	3/4-14	27	36
0370-12-08	3/4	19	12	1/2-14	24	36
0370-12-12	3/4	19	12	3/4-14	27	37
0370-12-16	3/4	19	12	1-11.1/2	36	43
0370-16-16	1	25.4	16	1-11.1/2	36	44
0370-20-20	1.1/4	31.8	20	1.1/4-11.1/2	46	47
0370-24-24	1.1/2	38.1	24	1.1/2-11.1/2	50	49
0370-32-32	2	50.8	32	2-11.1/2	65	55
0370-40-40	2.1/2	63.5	40	2.1/2-8	80	55
0370-48-48	3	76.2	48	3-8	90	58

037G

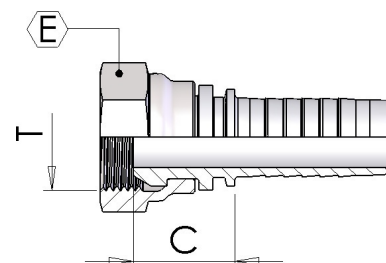
**NPTF Male Parallel 60° Cone -
Rotating
(AGN-RO)**



Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
037G-04-04	1/4	6.4	04	1/4-18	19	39
037G-06-06	3/8	9.5	06	3/8-18	22	43
037G-08-08	1/2	12.7	08	1/2-14	27	49
037G-12-12	3/4	19	12	3/4-14	32	52

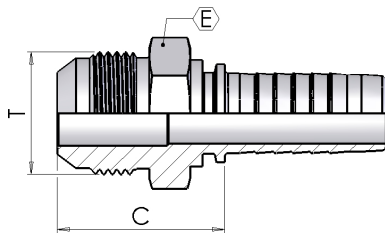
N051

**NPSM Female 60° Cone Rolled Nut
(DKN)**



Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
N051-03-04	3/16	4.8	03	1/4-18	19	17
N051-04-04	1/4	6.4	04	1/4-18	19	17
N051-06-06	3/8	9.5	06	3/8-18	22	19
N051-08-08	1/2	12.7	08	1/2-14	27	23
N051-12-12	3/4	19	12	3/4-14	32	25
N051-16-16	1	25.4	16	1-11	38	27

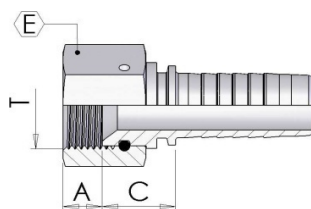
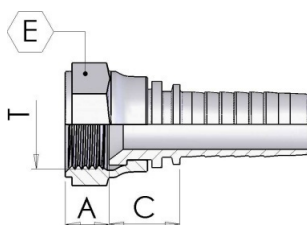
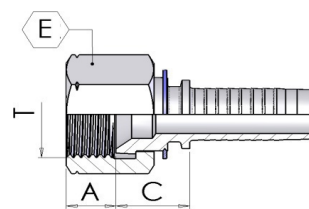
0850



JIC Male 74° cone

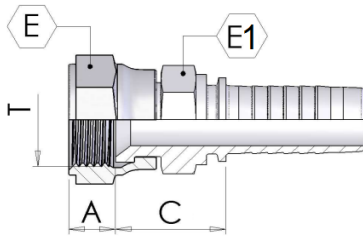
(AGJ)

Product number	hose I.D.		Dimension				Note
	in	mm	dash size	T	E	Cut-off C	
0850-03-04	3/16	4.8	03	7/16-20	12	26	
0850-04-04	1/4	6.4	04	7/16-20	12	27	
0850-04-05	1/4	6.4	04	1/2-20	14	27	
0850-04-06	1/4	6.4	04	9/16-18	15	27	
0850-05-05	5/16	7.9	05	1/2-20	14	27	
0850-05-06	5/16	7.9	05	9/16-18	15	27	
0850-05-08	5/16	7.9	05	3/4-16	19	30	
0850-06-06	3/8	9.5	06	9/16-18	15	27	
0850-06-07	3/8	9.5	06	5/8-18	17	30	* SAE 45°
0850-06-08	3/8	9.5	06	3/4-16	19	30	
0850-06-10	3/8	9.5	06	7/8-14	24	34	
0850-08-08	1/2	12.7	08	3/4-16	19	31	
0850-08-10	1/2	12.7	08	7/8-14	24	35	
0850-08-12	1/2	12.7	08	1.1/16-12	27	37	
0850-10-10	5/8	15.9	10	7/8-14	24	35	
0850-10-12	5/8	15.9	10	1.1/16-12	27	37	
0850-12-10	3/4	19	12	7/8-14	24	36	
0850-12-12	3/4	19	12	1.1/16-12	27	38	
0850-12-14	3/4	19	12	1.3/16-12	32	41	
0850-12-16	3/4	19	12	1.5/16-12	34	42	
0850-16-12	1	25.4	16	1.1/16-12	27	39	
0850-16-16	1	25.4	16	1.5/16-12	34	43	
0850-16-20	1	25.4	16	1.5/8-12	42	46	
0850-20-20	1.1/4	31.8	20	1.5/8-12	42	47	
0850-20-24	1.1/4	31.8	20	1.7/8-12	50	52	
0850-24-24	1.1/2	38.1	24	1.7/8-12	50	52	
0850-32-32	2	50.8	32	2.1/2-12	65	62	

0900**0901****0902****JIC Female 74°****(DKJ)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	Cut-off C	A
0901-03-04	3/16	4.8	03	7/16-20	15	14	8.5
0901-03-05	3/16	4.8	03	1/2-20	17	14	9.5
0901-04-04	1/4	6.4	04	7/16-20	15	14	8.5
0902-04-05	1/4	6.4	04	1/2-20	17	17	9.5
0902-04-06	1/4	6.4	04	9/16-18	19	17	9
0901-04-07	1/4	6.4	04	5/8-18	22	17	11
0901-05-05	5/16	7.9	05	1/2-20	17	15	9.5
0901-05-07	5/16	7.9	05	5/8-18	22	17	11
0901-06-04	3/8	9.5	06	7/16-20	15	15	9
0901-06-05	3/8	9.5	06	1/2-20	17	15	9.5
0901-06-06	3/8	9.5	06	9/16-18	19	16	9
0901-06-07	3/8	9.5	06	5/8-18	22	16	11
0902-06-08	3/8	9.5	06	3/4-16	22	18	10.5
0901-08-08	1/2	12.7	08	3/4-16	24	18	10.5
0902-08-10	1/2	12.7	08	7/8-14	27	20	13
0901-10-10	5/8	15.9	10	7/8-14	27	20	13
0902-10-12	5/8	15.9	10	1.1/16-12	32	20	13.5
0901-12-10	3/4	19	12	7/8-14	27	20	13
0902-12-12	3/4	19	12	1.1/16-12	32	22	13.5
0901-12-14	3/4	19	12	1.3/16-12	36	23	14
0901-12-16	3/4	19	12	1.5/16-12	38	23	15.5
0901-16-12	1	25.4	12	1.1/16-12	32	23	13.5
0901-16-16	1	25.4	16	1.5/16-12	38	24	15.5
0900-16-20	1	25.4	16	1.5/8-12	50	27	16.5
0900-20-20	1.1/4	31.8	20	1.5/8-12	50	28	16.5
0900-20-24	1.1/4	31.8	20	1.7/8-12	55	31	19
0900-24-24	1.1/2	38.1	24	1.7/8-12	55	31	19
0900-32-32	2	50.8	32	2.1/2-12	70	31	20

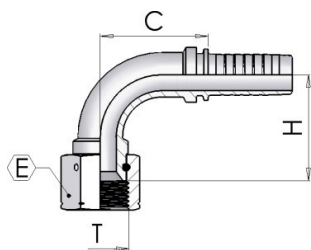
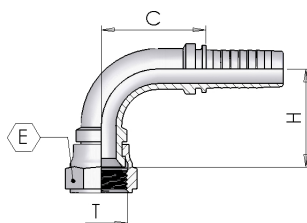
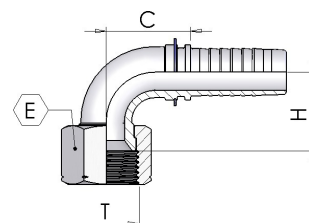
0901D



JIC Female 74° Cone- Double Hexagon

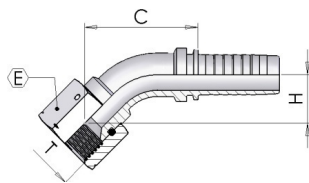
(DKJ)

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	E	E1	Cut-off C	A
0901D04-04	1/4	6.4	04	7/16-20	15	12	20	8.5
0901D04-05	1/4	6.4	04	1/2-20	17	14	20	9.5
0901D04-06	1/4	6.4	04	9/16-18	19	14	22	9
0901D06-06	3/8	9.5	06	9/16-18	19	17	24	9
0901D06-08	3/8	9.5	06	3/4-16	24	19	26	10.5
0901D08-08	1/2	12.7	08	3/4-16	24	22	26	10.5
0901D08-10	1/2	12.7	08	7/8-14	27	22	27	13
0901D10-10	5/8	15.9	10	7/8-14	27	22	26	13
0901D10-12	5/8	15.9	10	1.1/16-12	32	27	27	13.5
0901D12-12	3/4	19	12	1.1/16-12	32	27	32	13.5
0901D16-16	1	25.4	16	1.5/16-12	38	36	33	15.5

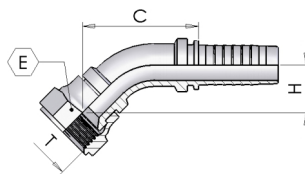
0950**0951****0952****JIC 90° Swept Elbow 74° cone**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0951-03-04	3/16	4.8	03	7/16-20	15	22	22
0951-03-05	3/16	4.8	03	1/2-20	17	22	22
0951-04-04	1/4	6.4	04	7/16-20	15	22	22
0952-04-05	1/4	6.4	04	1/2-20	17	21	27
0952-04-06	1/4	6.4	04	9/16-18	19	21	26
0951-05-05	5/16	7.9	05	1/2-20	17	30	29
0951-05-06	5/16	7.9	05	9/16-18	19	31	29
0951-06-05	3/8	9.5	06	1/2-20	17	33	30
0951-06-06	3/8	9.5	06	9/16-18	19	32	31
0951-06-07	3/8	9.5	06	5/8-18	22	32	33
0952-06-08	3/8	9.5	06	3/4-16	22	34	41
0951-06-10	3/8	9.5	06	7/8-14	27	36	33
0951-08-08	1/2	12.7	08	3/4-16	24	41	41
0952-08-10	1/2	12.7	08	7/8-14	27	34	41
0951-08-12	1/2	12.7	08	1.1/16-12	32	43	42
0951-10-10	5/8	15.9	10	7/8-14	27	44	43
0951-12-10	3/4	19	12	7/8-14	27	53	56
0952-10-12	5/8	15.9	10	1.1/16-12	32	37	47
0952-12-12	3/4	19	12	1.1/16-12	32	45	58
0951-12-14	3/4	19	12	1.3/16-12	36	53	56
0951-12-16	3/4	19	12	1.5/16-12	38	55	60
0951-16-12	1	25.4	16	1.1/16-12	38	55	60
0951-16-16	1	25.4	16	1.5/16-12	32	63	63
0950-20-20	1.1/4	31.8	20	1.5/8-12	50	85	82
0950-24-24	1.1/2	38.1	24	1.7/8-12	55	97	104
0950-32-32	2	50.8	32	2.1/2-12	70	134	124

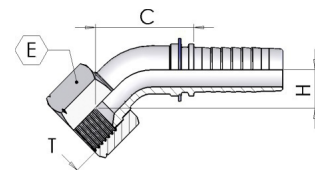
1000



1001



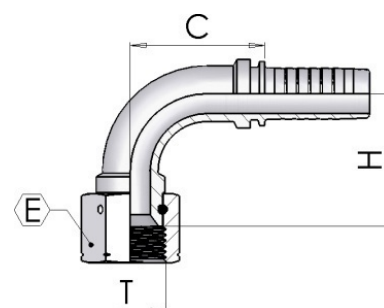
1002



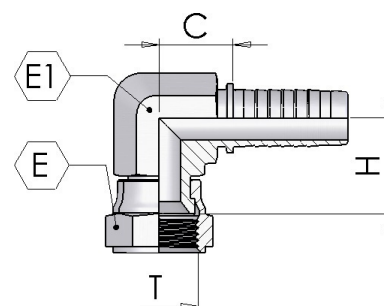
JIC 45° Swept Elbow 74°

(DKJ-45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
1001-03-04	3/16	4.8	03	7/16-20	15	15	33
1001-04-04	1/4	6.4	04	7/16-20	15	13	38
1002-04-05	1/4	6.4	04	1/2-20	17	11	38
1002-04-06	1/4	6.4	04	9/16-18	19	11	38
1001-05-05	5/16	7.9	05	1/2-20	17	17	46
1001-05-06	5/16	7.9	05	9/16-18	19	18	47
1001-06-05	3/8	9.5	06	1/2-20	17	18	49
1001-06-06	3/8	9.5	06	9/16-18	19	17	51
1002-06-08	3/8	9.5	06	3/4-16	22	13	48
1001-06-10	3/8	9.5	06	7/8-14	27	21	54
1001-08-08	1/2	12.7	08	3/4-16	24	22	62
1002-08-10	1/2	12.7	08	7/8-14	27	16	58
1001-08-12	1/2	12.7	08	1.1/16-12	32	25	68
1001-10-10	5/8	15.9	10	7/8-14	27	24	68
1002-10-12	5/8	15.9	10	1.1/16-12	32	18	66
1002-12-12	3/4	19	12	1.1/16-12	32	21	81
1001-12-14	3/4	19	12	1.3/16-12	36	29	84
1001-12-16	3/4	19	12	1.5/16-12	38	28	88
1001-16-16	1	25.4	16	1.5/16-12	38	29	83
1000-20-20	1.1/4	31.8	20	1.5/8-12	50	42	108
1000-24-24	1.1/2	38.1	24	1.7/8-12	55	49	119
1000-32-32	2	50.8	32	2.1/2-12	70	65	142

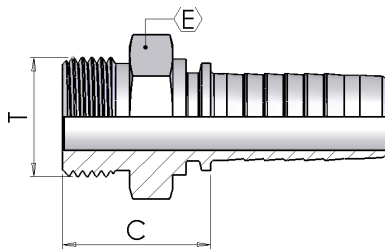
095S**JIC 90° Swept Elbow 74° cone - ISO
SHORT**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
095S-04-04	1/4	6.4	04	7/16-20	15	22	25
095S-06-06	3/8	9.5	06	9/16-18	19	23	31
095S-08-08	1/2	12.7	08	3/4-16	24	29	41
095S-10-10	5/8	15.9	10	7/8-14	27	32	43
095S-12-12	3/4	19	12	1.1/16-12	32	48	56
095S-16-16	1	25.4	16	1.5/16-12	41	57	70

2971**JIC 90° Compact Elbow 74° cone -
Crimped Nut
(DKJ-90°K)**

Product number	hose I.D.		Dimension						
	in	mm	dash size	T	E	E1	drop H	Cut-off C	
2971-04-04	1/4	6.4	04	7/16-20	15	15	17	19	
2971-04-05	1/4	6.4	04	1/2-20	17	15	18	19	
2971-04-06	1/4	6.4	04	9/16-18	19	15	21	19	
2971-05-06	5/16	7.9	05	9/16-18	19	17	21	23	
2971-06-06	3/8	9.5	06	9/16-18	19	17	20	24	
2971-06-08	3/8	9.5	06	3/4-16	24	19	22	25	
2971-08-08	1/2	12.7	08	3/4-16	24	22	22.5	26.5	
2971-08-10	1/2	12.7	08	7/8-14	27	22	23.5	26.5	
2971-12-12	3/4	19.1	12	1.1/16-12	32	27	28.5	31.5	
2971-16-16	1	25.4	16	1.5/16-12	38	32	32	33.5	

0385



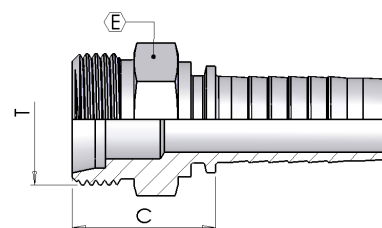
SAE Male O'R Flat Seat

(SAE-OR)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0385-04-04	1/4	6.4	04	7/16-20	14	24
0385-04-06	1/4	6.4	04	9/16-18	17	24
0385-05-06	5/16	7.9	05	9/16-18	17	24
0385-06-06	3/8	9.5	06	9/16-18	17	25
0385-06-08	3/8	9.5	06	3/4-16	22	28
0385-08-08	1/2	12.7	08	3/4-16	22	28
0385-08-10	1/2	12.7	08	7/8-14	27	30
0385-08-12	1/2	12.7	08	1.1/16-12	32	32
0385-10-10	5/8	15.9	10	7/8-14	27	30
0385-10-12	5/8	15.9	10	1.1/16-12	32	32
0385-12-12	3/4	19	12	1.1/16-12	32	33

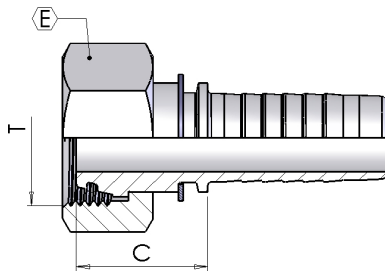
Metric Male 24° Seat Light

(CEL)



Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0500-03-12	3/16	4.8	03	M12-1.5	6	14	22
0500-03-14	3/16	4.8	03	M14-1.5	8	14	22
0500-04-12	1/4	6.4	04	M12-1.5	6	14	23
0500-04-14	1/4	6.4	04	M14-1.5	8	14	22
0500-04-16	1/4	6.4	04	M16-1.5	10	17	23
0500-04-18	1/4	6.4	04	M18-1.5	12	19	24
0500-05-14	5/16	7.9	05	M14-1.5	8	14	22
0500-05-16	5/16	7.9	05	M16-1.5	10	17	23
0500-05-18	5/16	7.9	05	M18-1.5	12	19	24
0500-05-22	5/16	7.9	05	M22-1.5	15	22	25
0500-06-16	3/8	9.5	06	M16-1.5	10	17	23
0500-06-18	3/8	9.5	06	M18-1.5	12	19	24
0500-06-22	3/8	9.5	06	M22-1.5	15	22	25
0500-08-18	1/2	12.7	08	M18-1.5	12	19	25
0500-08-22	1/2	12.7	08	M22-1.5	15	22	26
0500-08-26	1/2	12.7	08	M26-1.5	18	27	27
0500-10-22	5/8	15.9	10	M22-1.5	15	22	26
0500-10-26	5/8	15.9	10	M26-1.5	18	27	27
0500-10-30	5/8	15.9	10	M30-2	22	30	32
0500-12-26	3/4	19	12	M26-1.5	18	27	28
0500-12-30	3/4	19	12	M30-2	22	30	33
0500-16-36	1	25.4	16	M36-2	28	36	32
0500-20-45	1.1/4	31.8	20	M45-2	35	46	36
0500-24-52	1.1/2	38.1	24	M52-2	42	55	38

0085



Metric Female 24° Seat Light

(DKOL)

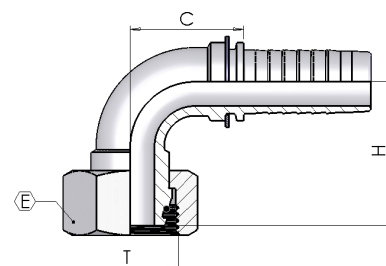
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0085-03-12	3/16	4.8	03	M12-1.5	6	14	23
0085-03-14	3/16	4.8	03	M14-1.5	8	17	24
0085-04-12*	1/4	6.4	04	M12-1.5	6	14	25
0085-04-14	1/4	6.4	04	M14-1.5	8	17	24
0085-04-16	1/4	6.4	04	M16-1.5	10	19	24
0085-04-18	1/4	6.4	04	M18-1.5	12	22	25
0085-05-14*	5/16	7.9	05	M14-1.5	8	19	26
0085-05-16	5/16	7.9	05	M16-1.5	10	19	24
0085-05-18	5/16	7.9	05	M18-1.5	12	22	25
0085-06-16*	3/8	9.5	06	M16-1.5	10	19	25
0085-06-18	3/8	9.5	06	M18-1.5	12	22	25
0085-06-22	3/8	9.5	06	M22-1.5	15	27	29
0085-08-18*	1/2	12.7	08	M18-1.5	12	24	28
0088-08-18	1/2	12.7	08	M18-1.5	12	22	28
0085-08-22	1/2	12.7	08	M22-1.5	15	27	29
0085-08-26	1/2	12.7	08	M26-1.5	18	32	29
0085-10-22*	5/8	15.9	10	M22-1.5	15	27	31
0085-10-26	5/8	15.9	10	M26-1.5	18	32	29
0085-10-30	5/8	15.9	10	M30-2	22	36	29
0085-12-26*	3/4	19	12	M26-1.5	18	32	35
0085-12-30	3/4	19	12	M30-2	22	36	29
0085-12-36	3/4	19	12	M36-2	28	41	28
0085-16-36	1	25.4	16	M36-2	28	41	30
0085-20-45	1.1/4	31.8	20	M45-2	35	50	40
0085-20-52	1.1/4	31.8	20	M52-2	42	60	43
0085-24-52	1.1/2	38.1	24	M52-2	42	60	41

*Rolled Nut

0185

90° Metric Swept Elbow 24° Seat Light

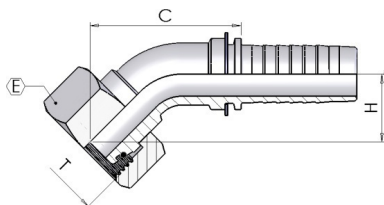
(DKOL-90°)



Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0185-03-12	3/16	4.8	03	M12-1.5	6	14	23	22
0185-03-14	3/16	4.8	03	M14-1.5	8	17	24	23
0185-04-12*	1/4	6.4	04	M12-1.5	6	14	34	26
0185-04-14	1/4	6.4	04	M14-1.5	8	17	26	26
0185-04-16	1/4	6.4	04	M16-1.5	10	19	27	24
0185-04-18	1/4	6.4	04	M18-1.5	12	22	30	27
0185-05-14*	5/16	7.9	05	M14-1.5	8	19	38	30
0185-05-16	5/16	7.9	05	M16-1.5	10	19	31	31
0185-05-18	5/16	7.9	05	M18-1.5	12	22	32	31
0185-06-16*	3/8	9.5	06	M16-1.5	10	19	39	32
0185-06-18	3/8	9.5	06	M18-1.5	12	22	35	32
0185-06-22	3/8	9.5	06	M22-1.5	15	27	35	32
0185-08-18*	1/2	12.7	08	M18-1.5	12	24	48	40
0185-08-22	1/2	12.7	08	M22-1.5	15	27	38	41
0185-08-26	1/2	12.7	08	M26-1.5	18	32	39	41
0185-10-22*	5/8	15.9	10	M22-1.5	15	27	55	42
0185-10-26	5/8	15.9	10	M26-1.5	18	32	44	44
0185-12-30	3/4	19	12	M30-2	22	36	52	58
0185-16-36	1	25.4	16	M36-2	28	41	62	72
0185-20-45	1.1/4	31.8	20	M45-2	35	50	81	84
0185-24-52	1.1/2	38.1	24	M52-2	42	60	93	102

*Rolled Nut

0285

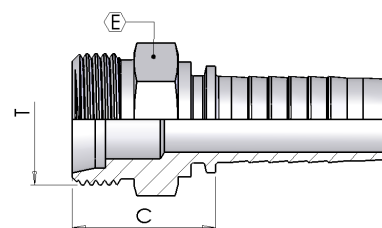


45° Metric Swept Elbow 24° Seat Light

(DKOL-45°)

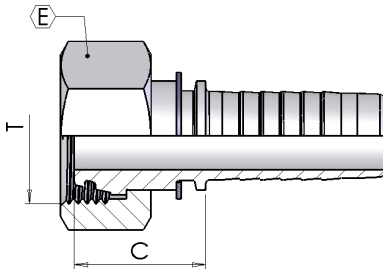
Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	H	Cut-off C
0285-03-12	3/16	4.8	03	M12-1.5	6	14	14	36
0285-04-12*	1/4	6.4	04	M12-1.5	6	14	21	46
0285-04-14	1/4	6.4	04	M14-1.5	8	17	14	42
0285-04-16	1/4	6.4	04	M16-1.5	10	19	15	42
0285-04-18	1/4	6.4	04	M18-1.5	12	22	16	43
0285-05-16	5/16	7.9	05	M16-1.5	10	19	17	48
0285-05-18	5/16	7.9	05	M18-1.5	12	22	18	48
0285-06-16*	3/8	9.5	06	M16-1.5	10	19	22	55
0285-06-18	3/8	9.5	06	M18-1.5	12	22	19	52
0285-06-22	3/8	9.5	06	M22-1.5	15	27	19	51
0285-08-22	1/2	12.7	08	M22-1.5	15	27	21	63
0285-08-26	1/2	12.7	08	M26-1.5	18	32	22	63
0285-10-22*	5/8	15.9	10	M22-1.5	15	27	32	75
0285-10-26	5/8	15.9	10	M26-1.5	18	32	23	68
0285-12-30	3/4	19	12	M30-2	22	36	25	86
0285-16-36	1	25.4	16	M36-2	28	41	29	81
0285-20-45	1.1/4	31.8	20	M45-2	35	50	32	106
0285-24-52	1.1/2	38.1	24	M52-2	42	60	42	118

*Rolled Nut

Metric Male 24° Seat Heavy**(CES)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0450-03-16	3/16	4.8	03	M16-1.5	8	17	26
0450-04-14	1/4	6.4	04	M14-1.5	6	14	25
0450-04-16	1/4	6.4	04	M16-1.5	8	17	27
0450-04-18	1/4	6.4	04	M18-1.5	10	19	27
0450-04-20	1/4	6.4	04	M20-1.5	12	22	27
0450-05-18	5/16	7.9	05	M18-1.5	10	19	27
0450-05-20	5/16	7.9	05	M20-1.5	12	22	29
0450-06-18	3/8	9.5	06	M18-1.5	10	19	27
0450-06-20	3/8	9.5	06	M20-1.5	12	22	29
0450-06-22	3/8	9.5	06	M22-1.5	14	22	31
0450-06-24	3/8	9.5	06	M24-1.5	16	24	31
0450-08-20	1/2	12.7	08	M20-1.5	12	22	29
0450-08-22	1/2	12.7	08	M22-1.5	14	22	31
0450-08-24	1/2	12.7	08	M24-1.5	16	24	32
0450-08-30	1/2	12.7	08	M30-2	20	30	33
0450-10-30	5/8	15.9	10	M30-2	20	30	34
0450-12-30	3/4	19	12	M30-2	20	30	35
0450-12-36	3/4	19	12	M36-2	25	36	38
0450-16-36	1	25.4	16	M36-2	25	36	39
0450-16-42	1	25.4	16	M42-2	30	46	42
0450-20-42	1.1/4	31.8	20	M42-2	30	46	43
0450-20-52	1.1/4	31.8	20	M52-2	38	55	45
0450-24-52	1.1/2	38.1	24	M52-2	38	55	45

0084



Metric Female 24° Seat Heavy

(DKOS)

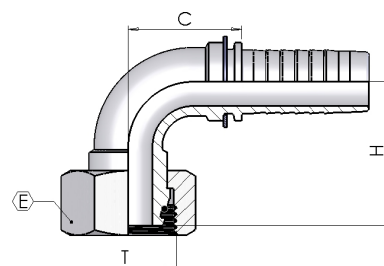
Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	erm.	E	Cut-off C	
0084-03-14	3/16	4.8	03	M14-1.5	6	17	22	
0084-03-16	3/16	4.8	03	M16-1.5	8	19	25	
0084-04-14	1/4	6.4	04	M14-1.5	6	17	23	
0084-04-16	1/4	6.4	04	M16-1.5	8	19	25	
0084-04-18	1/4	6.4	04	M18-1.5	10	22	24	
0084-04-20	1/4	6.4	04	M20-1.5	12	24	22	
0084-05-16	5/16	7.9	05	M16-1.5	8	19	26	
0084-05-18	5/16	7.9	05	M18-1.5	10	22	25	
0084-05-20	5/16	7.9	05	M20-1.5	12	24	25	
0084-06-18	3/8	9.5	06	M18-1.5	10	22	25	
0084-06-20	3/8	9.5	06	M20-1.5	12	24	25	
0084-06-22	3/8	9.5	06	M22-1.5	14	27	29	
0084-06-24	3/8	9.5	06	M24-1.5	16	30	29	
0084-08-20*	1/2	12.7	08	M20-1.5	12	27	28	(*)
0084-08-22	1/2	12.7	08	M22-1.5	14	27	17	
0084-08-24	1/2	12.7	08	M24-1.5	16	30	30	
0084-08-30	1/2	12.7	08	M30-2	20	36	33	
0084-10-24*	5/8	15.9	10	M24-1.5	16	30	31	(*)
0084-10-30	5/8	15.9	10	M30-2	20	36	33	
0084-12-30	3/4	19	12	M30-2	20	36	34	
0084-12-36	3/4	19	12	M36-2	25	46	40	
0084-16-36	1	25	16	M36-2	25	46	41	
0084-16-42	1	25	16	M42-2	30	50	43	
0084-20-52	1.1/4	31.8	20	M52-2	38	60	44	
0084-24-52	1.1/2	38.1	24	M52-2	38	60	44	

*Rolled Nut

0184

90° Metric Swept Elbow 24° Seat Heavy

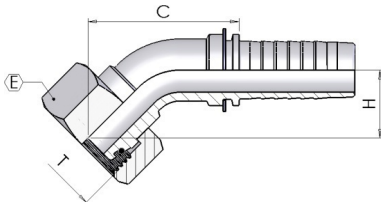
(DKOS-90°)



Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0184-03-16	3/16	4.8	03	M16-1.5	8	19	25	22
0184-04-14	1/4	6.4	04	M14-1.5	6	17	26	27
0184-04-16	1/4	6.4	04	M16-1.5	8	19	26	26
0184-04-18	1/4	6.4	04	M18-1.5	10	22	31	27
0184-04-20	1/4	6.4	04	M20-1.5	12	24	30	27
0184-05-18	5/16	7.9	05	M18-1.5	10	22	33	33
0184-05-20	5/16	7.9	05	M20-1.5	12	24	34	30
0184-06-18	3/8	9.5	06	M18-1.5	10	22	35	34
0184-06-20	3/8	9.5	06	M20-1.5	12	24	34	34
0184-06-22	3/8	9.5	06	M22-1.5	14	27	33	33
0184-06-24	3/8	9.5	06	M24-1.5	16	30	35	33
0184-08-20*	1/2	12.7	08	M20-1.5	12	27	48	40
0184-08-22	1/2	12.7	08	M22-1.5	14	27	41	41
0184-08-24	1/2	12.7	08	M24-1.5	16	30	41	40
0184-10-24*	5/8	15.9	10	M24-1.5	16	30	60	42
0184-10-30	5/8	15.9	10	M30-2	20	36	50	46
0184-12-30	3/4	19	12	M30-2	20	36	56	58
0184-12-36	3/4	19	12	M36-2	25	46	57	59
0184-16-36	1	25.4	16	M36-2	25	46	67	77
0184-16-42	1	25.4	16	M42-2	30	50	67	72
0184-20-52	1.1/4	31.8	20	M52-2	38	60	82	84
0184-24-52	1.1/2	38.1	24	M52-2	38	60	105	105

*Rolled Nut

0284

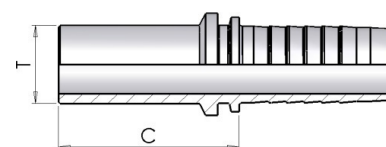


45° Metric Swept Elbow 24° Seat Heavy

(DKOS-45°)

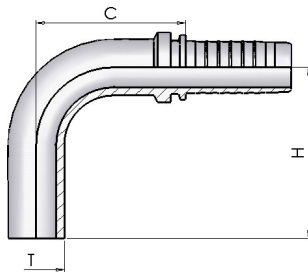
Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0284-03-16	3/16	4.8	03	M16-1.5	8	19	16	36
0284-04-14	1/4	6.4	04	M14-1.5	6	17	15	37
0284-04-16	1/4	6.4	04	M16-1.5	8	19	15	42
0284-04-18	1/4	6.4	04	M18-1.5	10	22	18	45
0284-05-20	5/16	7.9	05	M20-1.5	12	24	19	49
0284-06-18	3/8	9.5	06	M18-1.5	10	22	19	51
0284-06-20	3/8	9.5	06	M20-1.5	12	24	18	53
0284-06-22	3/8	9.5	06	M22-1.5	14	27	20	54
0284-08-24	1/2	12.7	08	M24-1.5	16	30	21	63
0284-10-30	5/8	15.9	10	M30-2	20	36	29	74
0284-12-30	3/4	19	12	M30-2	20	36	30	87
0284-12-36	3/4	19	12	M36-2	25	46	31	75
0284-16-36	1	25.4	16	M36-2	25	46	34	85
0284-16-42	1	25.4	16	M42-2	30	50	33	85
0284-20-52	1.1/4	31.8	20	M52-2	38	60	39	105
0284-24-52	1.1/2	38.1	24	M52-2	38	60	52	129

0550

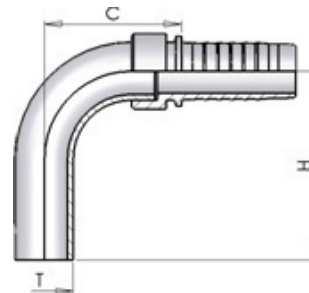
Metric Standpipe**(BEL-BES)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	Pipe T	Type	Cut-off C
0550-03-06	3/16	4.8	03	6	L/S	30
0550-03-08	3/16	4.8	03	8	L/S	29
0550-04-06	1/4	6.4	04	6	L/S	32
0550-04-08	1/4	6.4	04	8	L/S	30
0550-04-10	1/4	6.4	04	10	L/S	33
0550-04-12	1/4	6.4	04	12	L/S	30
0550-05-08	5/16	7.9	05	08	L/S	31
0550-05-10	5/16	7.9	05	10	L/S	31
0550-05-12	5/16	7.9	05	12	L/S	33
0550-06-08	3/8	9.5	06	08	L/S	33
0550-06-10	3/8	9.5	06	10	L/S	33
0550-06-12	3/8	9.5	06	12	L/S	32
0550-06-14	3/8	9.5	06	14	S	37
0550-06-15	3/8	9.5	06	15	L	32
0550-08-12	1/2	12.7	08	12	L/S	36
0550-08-15	1/2	12.7	08	15	L	34
0550-08-16	1/2	12.7	08	16	S	39
0550-08-18	1/2	12.7	08	18	L	35
0550-10-18	5/8	15.9	10	18	L	35
0550-10-20	5/8	15.9	10	20	S	45
0550-10-22	5/8	15.9	10	22	L	33
0550-12-18	3/4	19	12	18	L	37
0550-12-20	3/4	19	12	20	S	46
0550-12-22	3/4	19	12	22	L	38
0550-12-25	3/4	19	12	25	S	49
0550-12-28	3/4	19	12	28	L	40
0550-16-25	1	25.4	16	25	S	51
0550-16-28	1	25.4	16	28	L	41
0550-16-30	1	25.4	16	30	S	54
0550-20-30	1.1/4	31.8	20	30	S	58
0550-20-35	1.1/4	31.8	20	35	L	48
0550-24-38	1.1/2	38.1	24	38	S	63
0550-24-42	1.1/2	38.1	24	42	L	50

0650



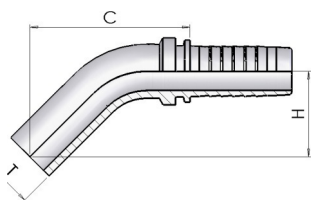
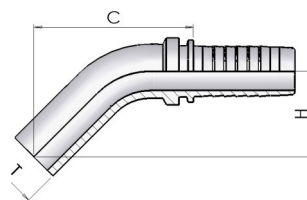
0650S



90° Metric Standpipe

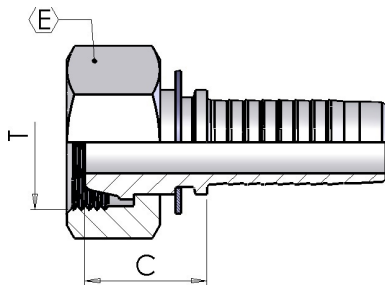
(BEL-BES 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	Pipe T	Type	drop H	Cut-off C
0650-03-06	3/16	4.8	03	6	L/S	32	20
0650S03-08	3/16	4.8	03	8	L/S	41	25
0650-04-06	1/4	6.4	04	6	L/S	32	23
0650-04-08	1/4	6.4	04	8	L/S	34	25
0650-04-10	1/4	6.4	04	10	L/S	43	25
0650S04-12	1/4	6.4	04	12	L/S	44	35
0650-05-10	5/16	7.9	05	10	L/S	40	29
0650-05-12	5/16	7.9	05	12	L/S	45	29
0650-06-10	3/8	9.5	06	10	L/S	40	27
0650-06-12	3/8	9.5	06	12	L/S	44	30
0650S06-15	3/8	9.5	06	15	L	52	39
0650S08-12	1/2	12.7	08	12	L/S	44	33
0650S08-15	1/2	12.7	08	15	L	52	39
0650S08-18	1/2	12.7	08	18	L	56	42
0650S10-18	5/8	15.9	10	18	L	56	51
0650S12-22	3/4	19	12	22	L	71	51
0650S12-25	3/4	19	12	25	S	75	57
0650S16-25	1	25.4	16	25	S	75	57
0650S16-28	1	25.4	16	28	L	89	60
0650S24-42	1 1/2	38.1	24	42	L	125	106

0750**0750S****45° Metric Standpipe****(BEL-BES 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	Pipe T	Type	drop H	Cut-off C
0750-03-06	3/16	4.8	03	6	L/S	25	38
0750-04-06	1/4	6.4	04	6	L/S	24	41
0750-04-08	1/4	6.4	04	8	L/S	25	43
0750-04-10	1/4	6.4	04	10	L/S	30	47
0750-05-10	5/16	7.9	05	10	L/S	30	49
0750-06-10	3/8	9.5	06	10	L/S	33	50
0750-06-12	3/8	9.5	06	12	L/S	29	52
0750S08-12	1/2	12.7	08	12	L	29	51
0750S08-15	1/2	12.7	08	15	L	29	55
0750S08-18	1/2	12.7	08	18	L	29	56
0750S10-18	5/8	15.9	10	18	L	29	56
0750S12-22	3/4	19	12	22	L	35	65

0035



Metric Female 24° Seat Light Multiseal

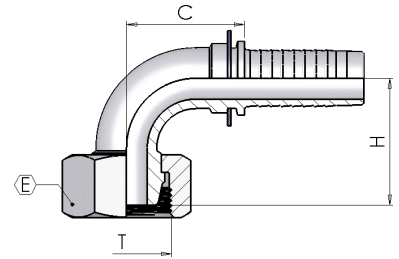
(DKL)

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	erm.	E	Cut-off C	
0035-03-12	3/16	4.8	03	M12-1.5	6	14	19	
0035-03-16	3/16	4.8	03	M16-1.5	10	19	18	
0035-04-14	1/4	6.4	04	M14-1.5	8	17	19	
0035-04-16	1/4	6.4	04	M16-1.5	10	19	19	
0035-05-16	5/16	7.9	05	M16-1.5	10	19	19	
0035-05-18	5/16	7.9	05	M18-1.5	12	22	21	
0035-06-16	3/8	9.5	06	M16-1.5	10	19	23	*
0035-06-18	3/8	9.5	06	M18-1.5	12	22	23	
0035-06-22	3/8	9.5	06	M22-1.5	15	27	22	
0035-08-22	1/2	12.7	08	M22-1.5	15	27	22	
0035-08-26	1/2	12.7	08	M26-1.5	18	32	24	
0035-10-26	5/8	15.9	10	M26-1.5	18	32	24	
0035-12-30	3/4	19	12	M30-2	22	36	29	
0035-16-36	1	25.4	16	M36-2	28	41	30	

*Rolled Nut

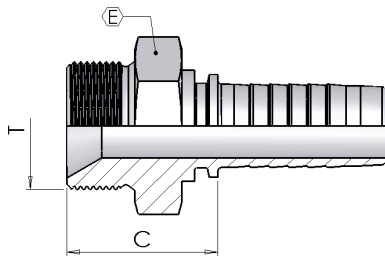
0135

90° Metric Swept Elbow 24° Seat Light Multiseal

(DKL-90°)


Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0135-04-14	1/4	6.4	04	M14-1.5	8	17	25	25
0135-04-16	1/4	6.4	04	M16-1.5	10	19	24	26
0135-05-16	5/16	7.9	05	M16-1.5	10	19	29	32
0135-06-18	3/8	9.5	06	M18-1.5	12	22	30	36
0135-08-22	1/2	12.7	08	M22-1.5	15	27	38	41

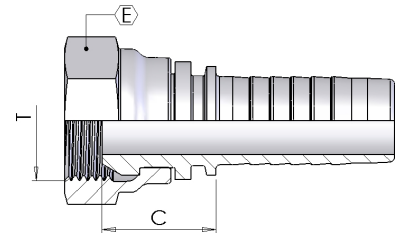
0400



Metric Male 60° cone

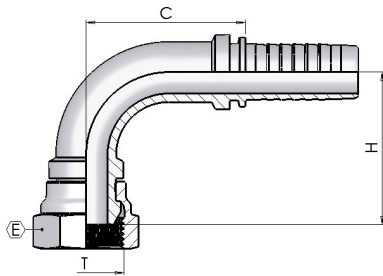
(AGM)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0400-03-10	3/16	4.8	03	M10-1	14	19
0400-03-12	3/16	4.8	03	M12-1.5	17	25
0400-04-14	1/4	6.4	04	M14-1.5	19	26
0400-05-16	5/16	7.9	05	M16-1.5	22	26
0400-05-18	5/16	7.9	05	M18-1.5	24	26
0400-06-14	3/8	9.5	06	M14-1.5	19	26
0400-06-16	3/8	9.5	06	M16-1.5	22	26
0400-06-18	3/8	9.5	06	M18-1.5	24	27
0400-08-18	1/2	12.7	08	M18-1.5	24	28
0400-08-22	1/2	12.7	08	M22-1.5	27	30
0400-10-26	5/8	15.9	10	M26-1.5	32	32
0400-12-30	3/4	19	12	M30-1.5	36	36
0400-16-38	1	25.4	16	M38-1.5	46	37
0400-20-45	1.1/4	31.8	20	M45-1.5	55	39

Metric Female 60° cone**(DKM)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0100-03-10	3/16	4.8	03	M10-1	14	15
0100-04-10	1/4	6.4	04	M10-1	14	15
0100-04-14	1/4	6.4	04	M14-1.5	19	17
0100-05-14	5/16	7.9	05	M14-1.5	19	17
0100-05-16	5/16	7.9	05	M16-1.5	22	19
0100-05-18	5/16	7.9	05	M18-1.5	24	19
0100-06-14	3/8	9.5	06	M14-1.5	19	17
0100-06-16	3/8	9.5	06	M16-1.5	22	19
0100-06-18	1/2	12.7	08	M18-1.5	24	19
0100-08-18	1/2	12.7	08	M18-1.5	24	20
0100-08-20	1/2	12.7	08	M20-1.5	27	22.5
0100-08-22	1/2	12.7	08	M22-1.5	27	22.5
0100-10-26	5/8	15.9	10	M26-1.5	32	25
0100-12-30	3/4	19	12	M30-1.5	36	26
0100-16-38	1	25.4	16	M38-1.5	46	33
0100-20-45	1.1/4	31.8	20	M45-1.5	50	34
0100-24-52	1.1/2	38.1	24	M52x1.5	60	35
0100-32-65	2	50.8	32	M65-2	75	31

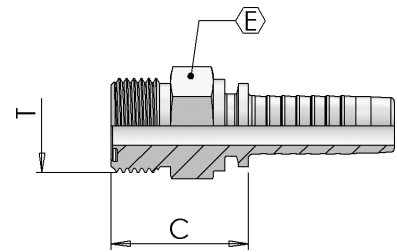
0200



90° Metric Swept Elbow 60° cone

(DKM-90°)

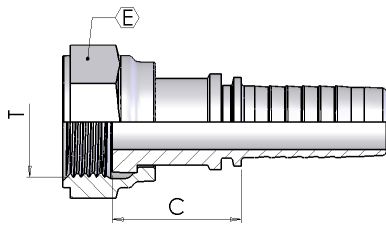
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0200-03-10	3/16	4.8	03	M10-1	14	23	22
0200-04-10	1/4	6.4	04	M10-1	14	25	24
0200-04-14	1/4	6.4	04	M14-1.5	19	26	24
0200-05-14	5/16	7.9	05	M14-1.5	19	31	29
0200-05-16	5/16	7.9	05	M16-1.5	22	35	29
0200-05-18	5/16	7.9	05	M18-1.5	24	35	29
0200-06-16	3/8	9.5	06	M16-1.5	22	34	33
0200-06-18	3/8	9.5	06	M18-1.5	24	34	33
0200-08-22	1/2	12.7	08	M22-1.5	27	40	41
0200-12-30	3/4	19	12	M30-1.5	36	36	57
0200-16-38	1	25.4	16	M38-1.5	46	71	70

S350**ORFS Male****(AGO)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
S350-04-06-B0	1/4	6.4	04	9/16-18	17	23
S350-04-09-B0	1/4	6.4	04	11/16-16	19	21
S350-05-09-B0	5/16	7.9	05	11/16-16	19	26
S350-06-09-B0	3/8	9.5	06	11/16-16	19	26
S350-06-11-B0	3/8	9.5	6	13/16-16	22	29
S350-08-11-B0	1/2	12.7	08	13/16-16	22	29
S350-08-13-B0	1/2	12.7	08	1-14	27	34
S350-08-14-B0	1/2	12.7	08	1.3/16-12	32	35
S350-10-13-B0	5/8	15.9	10	1-14	27	33
S350-10-14-B0	5/8	15.9	10	1.3/16-12	32	35
S350-12-14-B0	3/4	19	12	1.3/16-12	32	36
S350-12-15-B0	3/4	19	12	1.7/16-12	38	36
S350-16-15-B0	1	25.4	16	1.7/16-12	38	37
S350-16-21-B0	1	25.4	16	1.11/16-12	46	38
S350-20-21-B0	1.1/4	31.8	20	1.11/16-12	46	39

- with plug and O-Ring

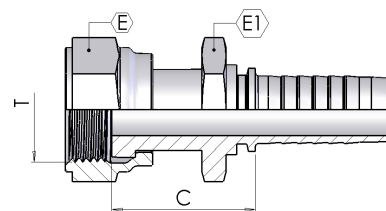
S050



ORFS Female

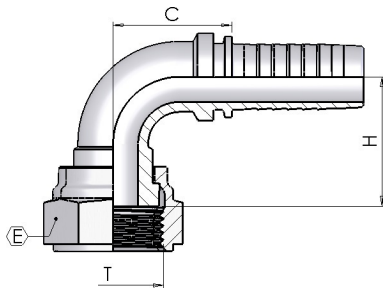
(ORFS)

Product number	hose I.D.		Dimension				Note
	in	mm	dash size	T	E	Cut-off C	
S050-04-06	1/4	6.4	04	9/16-18	19	25	
S050-04-09	1/4	6.4	04	11/16-16	22	29	
S050-05-09	5/16	7.9	05	11/16-16	22	29	
S050-06-09	3/8	9.5	06	11/16-16	22	29	
S050-06-11	3/8	9.5	06	13/16-16	24	30	
S050-08-11	1/2	12.7	08	13/16-16	24	32	
S050-08-13	1/2	12.7	08	1-14	30	35	
S050-08-14	1/2	12.7	08	1.3/16-12	36	37	
S050-10-13	5/8	15.9	10	1-14	30	35	
S050-10-14	5/8	15.9	10	1.3/16-12	36	34	
S050-12-13	3/4	19	12	1-14	30	37	
S050-12-14	3/4	19	12	1.3/16-12	36	35	
S050-12-15	3/4	19	12	1.7/16-12	41	41	
S050-16-15	1	25.4	16	1.7/16-12	41	39	
S050-20-21	1.1/4	31.8	20	1.11/16-12	50	40	Slip on nut
S050-24-32	1.1/2	38.1	24	2-12	60	41	Slip on nut

S05T**ORFS Female Back Hexagon****(ORFS)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
S05T-04-06	1/4	6.4	04	9/16-18	17	15	30
S05T-06-09	3/8	9.5	06	11/16-16	22	17	34
S05T-08-11	1/2	12.7	08	13/16-16	24	19	37
S05T-10-13	5/8	15.9	10	1-14	30	24	41
S05T-12-14	3/4	19	12	1.3/16-12	36	30	42
S05T-16-15	1	25.4	16	1.7/16-12	41	36	50

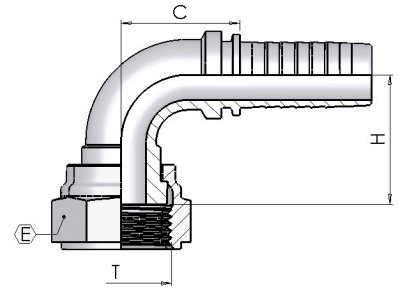
S150



ORFS 90° Swept Elbow

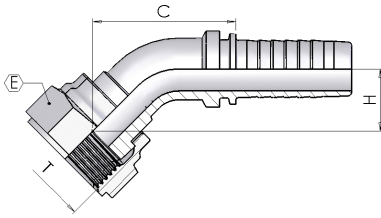
(ORFS-90°)

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
S150-04-06	1/4	6.4	04	9/16-18	19	26	25	
S150-04-09	1/4	6.4	04	11/16-16	22	23	25	
S150-05-09	5/16	7.9	05	11/16-16	22	32	29	
S150-06-09	3/8	9.5	06	11/16-16	22	33	33	
S150-06-11	3/8	9.5	06	13/16-16	24	32	33	
S150-08-11	1/2	12.7	08	13/16-16	24	36	43	
S150-08-13	1/2	12.7	08	1-14	30	40	42	
S150-08-14	1/2	12.7	08	1.3/16-12	36	39	42	
S150-10-13	5/8	15.9	10	1-14	30	39	44	
S150-10-14	5/8	15.9	10	1.3/16-12	36	39	42	Welded
S150-12-13	3/4	19	12	1-14	30	39	42	Welded
S150-12-14	3/4	19	12	1.3/16-12	36	49	57	
S150-12-15	3/4	19	12	1.7/16-12	41	51	56	
S150-16-15	1	25.4	16	1.7/16-12	41	62	67	
S150-16-21	1	25.4	20	1.11/16-12	50	58	62	Welded
S150-20-21	1.1/4	31.8	20	1.11/16-12	50	58	63	Welded
S150-24-32	1.1/2	38.1	24	2-12	60	73	80	Welded

S15S**ORFS 90° Swept Elbow - ISO SHORT****(ORFS-90° S)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
S15S-04-06	1/4	6.4	04	9/16-18	19	21	25
S15S-06-09	3/8	9.5	06	11/16-16	22	23	33
S15S-08-11	1/2	12.7	08	13/16-16	24	29	43
S15S-08-13	1/2	12.7	08	1-14	30	32	39
S15S-10-13	5/8	15.9	10	1-14	30	32	47
S15S-12-14	3/4	19	12	1.3/16-12	36	48	57
S15S-16-15	1	25.4	16	1.7/16-12	41	56	67

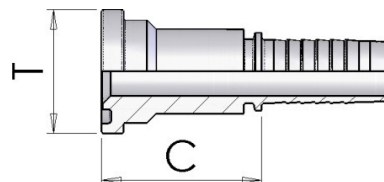
S250



ORFS 45° Swept Elbow

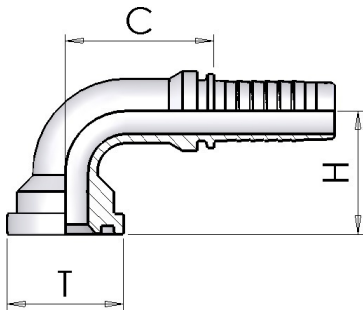
(ORFS-45°)

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
S250-04-06	1/4	6.4	04	9/16-18	19	14	40	
S250-04-09	1/4	6.4	04	11/16-16	22	14	38	
S250-05-09	5/16	7.9	05	11/16-16	22	14	44	
S250-06-09	3/8	9.5	06	11/16-16	22	17	52	
S250-06-11	3/8	9.5	06	13/16-16	24	18	51	
S250-08-11	1/2	12.7	08	13/16-16	24	20	62	
S250-08-13	1/2	12.7	08	1-14	30	23	64	
S250-08-14	1/2	12.7	08	1.3/16-12	36	17	44	Welded
S250-10-13	5/8	15.9	10	1-14	30	22	67	
S250-10-14	5/8	15.9	10	1.3/16-12	36	18	44	Welded
S250-12-13	3/4	19	12	1-14	30	15	40	Welded
S250-12-14	3/4	19	12	1.3/16-12	36	23	84	
S250-12-15	3/4	19	12	1.7/16-12	41	26	84	
S250-16-15	1	25.4	16	1.7/16-12	41	27	78	
S250-20-21	1.1/4	31.8	20	1.11/16-12	50	44	125	Welded
S250-24-32	1.1/2	38.1	24	2-12	60	29	78	Welded

1260**Straight SAE Flange 3000 PSI****(SFL)**

Product number	hose I.D.		Dimension				Note
	in	mm	dash size	T Flange	mm	Cut-off C	
1260-08-08	1/2	12.7	08	1/2	30,2	45	
1260-08-12	1/2	12.7	08	3/4	38.1	50	
1260-10-08	5/8	15.9	10	1/2	30,2	45	
1260-10-10	5/8	15.9	10	5/8	34	56	*
1260-10-12	5/8	15.9	10	3/4	38.1	49	
1260-12-12	3/4	19	12	3/4	38.1	50	
1260-12-16	3/4	19	12	1	44.5	53	
1260-16-16	1	25.4	16	1	44.5	54	
1260-16-20	1	25.4	16	1.1/4	50.8	57	
1260-20-20	1.1/4	31.8	20	1.1/4	50.8	59	
1260-20-24	1.1/4	31.8	20	1.1/2	60.3	62	
1260-24-24	1.1/2	38.1	24	1.1/2	60.3	62	
1260-24-32	1.1/2	38.1	24	2	71.4	67	
1260-32-32	2	50.8	32	2	71.4	68	
1260-32-40	2	50.8	32	2.1/2	84.1	76	
1260-40-40	2.1/2	63,5	40	2.1/2	84	76	
1260-48-48	3	76,2	48	3	102	63	

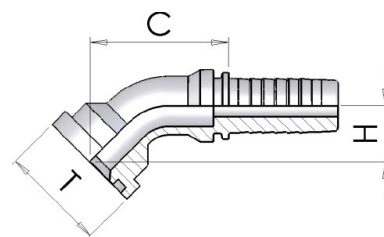
1060



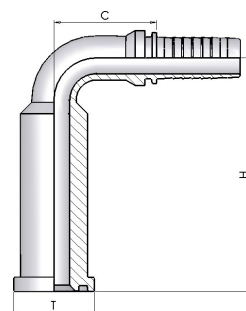
90° SAE Flange 3000 PSI

(SFL 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1060-08-08	1/2	12.7	08	1/2	30.2	39	39
1060-08-12	1/2	12.7	08	3/4	38.1	44	42
1060-10-08	5/8	15.9	10	1/2	30.2	42	45
1060-10-12	5/8	15.9	10	3/4	38.1	47	45
1060-12-12	3/4	19	12	3/4	38.1	51	58
1060-12-16	3/4	19	12	1	44.5	55	56
1060-16-16	1	25.4	16	1	44.5	65	70
1060-16-20	1	25.4	16	1.1/4	50.8	70	67
1060-16-24	1	25.4	16	1.1/2	60.3	71	72
1060-20-16	1.1/4	31.8	20	1	44.5	73	83
1060-20-20	1.1/4	31.8	20	1.1/4	50.8	79	85
1060-20-24	1.1/4	31.8	20	1.1/2	60.3	81	85
1060-24-24	1.1/2	38.1	24	1.1/2	60.3	89	101
1060-24-32	1.1/2	38.1	24	2	71.4	90	102
1060-32-32	2	50.8	32	2	71.4	113	134

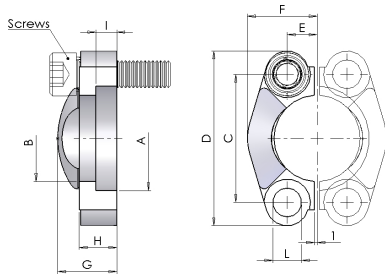
1160**45° SAE Flange 3000 PSI****(SFL 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1160-08-08	1/2	12.7	08	1/2	30.2	22	62
1160-08-12	1/2	12.7	08	3/4	38.1	25	67
1160-12-12	3/4	19	12	3/4	38.1	25	69
1160-12-16	3/4	19	12	1	44.5	30	88
1160-16-16	1	25.4	16	1	44.5	29	82
1160-20-20	1.1/4	31.8	20	1.1/4	50.8	38	102
1160-20-24	1.1/4	31.8	20	1.1/2	60.3	39	106
1160-24-24	1.1/2	38.1	24	1.1/2	60.3	44	114
1160-24-32	1.1/2	38.1	24	2	71.4	40	115
1160-32-32	2	50.8	32	2	71.4	58	135

FS3L**90° SAE Flange 3000 Psi - Long Drop****(SFL 90° L)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
FS3L-12-12	3/4	19	12	3/8	38.1	123	56
FS3L-16-16	1	25.4	16	1	44.5	127	70
FS3L-20-20	1.1/4	31.8	20	1.1/4	50.8	178	85

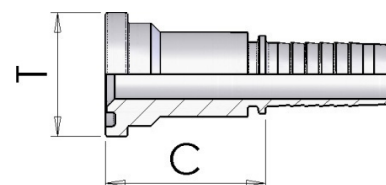
S003



Cut Split Flanges - 3000 psi

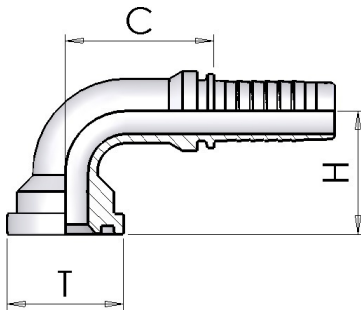
Product number	SAE	Dimension									
	size	A	B	C	D	E	F	G	H	I	L
S003-08	1/2"	30.96	24.3	38.1	54	8.7	22.8	19	13	6.2	8.8
S003-12	3/4"	38.89	32.1	47.6	65	11.1	25.9	22	14	6.2	10.8
S003-16	1"	45.24	38.5	52.4	70	13.1	29.2	24	16	7.5	10.8
S003-20	1.1/4"	51.59	43.7	58.7	79	15.1	36.3	22	14	7.5	12
S003-24	1.1/2"	61.09	50.8	69.9	94	17.9	41.1	25	16	7.5	13.5
S003-32	2"	72.24	62.7	77.8	102	21.4	48.2	26	16	9	13.5
S003-40	2.1/2"	84.94	74.9	88.9	114	25.4	54.1	38	19	9	13.5

This product is sold in pairs

1310**Straight SAE Flange 6000 PSI****(SFS)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
1310-08-08	1/2	12.7	08	1/2	31.8	46
1310-08-12	1/2	12.7	08	3/4	41.3	53
1310-10-12	5/8	15.9	10	3/4	41.3	53
1310-12-12	3/4	19	12	3/4	41.3	54
1310-12-16	3/4	19	12	1	47.6	60
1310-16-16	1	25.4	16	1	47.6	61
1310-16-20	1	25.4	16	1.1/4	54	68
1310-20-20	1.1/4	31.8	20	1.1/4	54	70
1310-20-24	1.1/4	31.8	20	1.1/2	63.5	76
1310-24-24	1.1/2	38.1	24	1.1/2	63.5	76
1310-24-32	1.1/2	38.1	24	2	79.4	85
1310-32-32	2	50.8	32	2	79.4	85

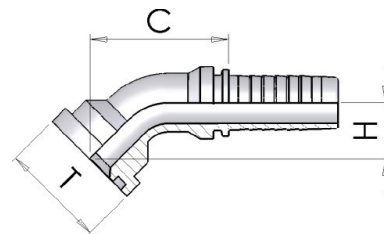
1110



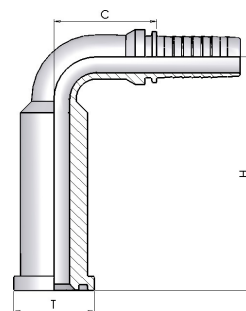
90° SAE Flange 6000 PSI

(SFS 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1110-08-08	1/2	12.7	08	1/2	31.8	39	39
1110-08-12	1/2	12.7	08	3/4	41.3	48	39
1110-10-08	5/8	15.9	10	1/2	31.8	42	45
1110-10-12	5/8	15.9	10	3/4	41.3	52	44
1110-12-12	3/4	19	12	3/4	41.3	55	56
1110-12-16	3/4	19	12	1	47.6	63	56
1110-16-12	1	25.4	16	3/4	41.3	64	68
1110-16-16	1	25.4	16	1	47.6	69	70
1110-16-20	1	25.4	16	1.1/4	54	74	71
1110-20-20	1.1/4	31.8	20	1.1/4	54	83	97
1110-20-24	1.1/4	31.8	20	1.1/2	63.5	93	97
1110-24-24	1.1/2	38.1	24	1.1/2	63.5	103	100
1110-32-32	2	50.8	32	2	79.4	136	125

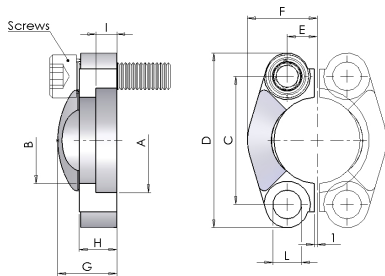
1210**45° SAE Flange 6000 PSI****(SFS 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1210-08-08	1/2	12.7	08	1/2	31.8	22	62
1210-08-12	1/2	12.7	08	3/4	41.3	28	69
1210-10-08	5/8	15.9	10	1/2	31.8	21	66
1210-10-12	5/8	15.9	10	3/4	41.3	27	75
1210-12-12	3/4	19	12	3/4	41.3	28	74
1210-12-16	3/4	19	12	1	47.6	32	90
1210-16-12	1	25.4	16	3/4	41.3	29	94
1210-16-16	1	25.4	16	1	47.6	34	86
1210-16-20	1	25.4	16	1.1/4	54	37	90
1210-20-20	1.1/4	31.8	20	1.1/4	54	41	111
1210-20-24	1.1/4	31.8	20	1.1/2	63.5	48	118
1210-24-24	1.1/2	38.1	24	1.1/2	63.5	50	122
1210-32-32	2	50.8	32	2	79.4	58	151

FS6L**90° SAE Flange 6000 PSI - Long Drop****(SFS 90° L)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
FS6L-08-08	1/2	12.7	08	1/2	32	75	40
FS6L-12-12	3/4	19	12	3/4	41.3	126	56
FS6L-16-16	1	25.4	16	1	47.6	132	70
FS6L-20-20	1.1/4	31.8	20	1.1/4	54	185	82

S006

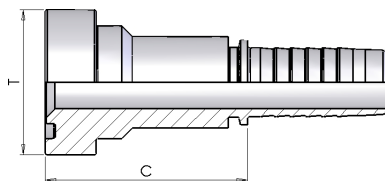


Cut Split Flanges - 6000 psi

Product number	SAE	Dimension									
	size	A	B	C	D	E	F	G	H	I	L
S006-08	1/2"	32.54	24.6	40.5	56	9.1	23.6	22	16	7.2	8.8
S006-12	3/4"	42.06	32.5	50.8	71	11.9	30	28	19	8.3	11
S006-16	1"	48.41	38.9	57.2	81	13.9	34.8	33	24	9	13
S006-20	1 1/4"	54.76	44.5	66.7	95	15.9	38.6	38	27	9.8	15
S006-24	1 1/2"	64.29	51.6	79.4	113	18.3	47.5	43	30	12.1	17
S006-32	2"	80.16	67.6	96.8	133	22.2	56.9	52	37	12.1	21

This product is sold in pairs

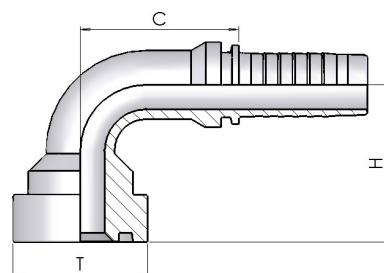
130S



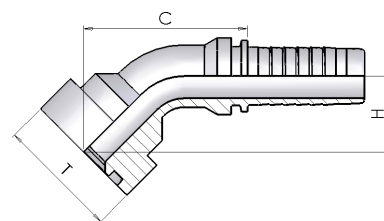
Straight 'CAT' Flange

(SFC)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
130S-12-12	3/4	19	12	3/4	41.3	58
130S-12-16	3/4	19	12	1	47.6	64
130S-16-16	1	25.4	16	1	47.6	65
130S-16-20	1	25.4	16	1 1/4	54	73
130S-20-20	1 1/4	31.8	20	1 1/4	54	74
130S-24-24	1 1/2	38.1	24	1 1/2	63.5	80

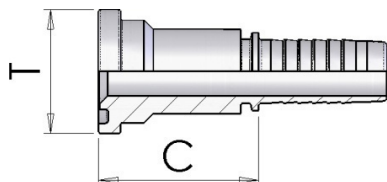
110S**90° 'CAT' Flange****(SFC 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
110S-12-12	3/4	19	12	3/4	41.3	62	56
110S-12-16	3/4	19	12	1	47.6	65	56
110S-16-16	1	25.4	16	1	47.6	74	78
110S-16-20	1	25.4	16	1.1/4	54	80	78
110S-20-20	1.1/4	31.8	20	1.1/4	54	90	97
110S-20-24	1.1/4	31.8	20	1.1/2	63.5	95	96
110S-24-24	1.1/2	38.1	24	1.1/2	63.5	104	115

120S**45° 'CAT' Flange****(SFC 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
120S-12-12	3/4	19	12	3/4	41.3	32	88
120S-12-16	3/4	19	12	1	47.6	37	93
120S-16-16	1	25.4	16	1	47.6	37	90
120S-16-20	1	25.4	16	1.1/4	54	44	122
120S-20-20	1.1/4	31.8	20	1.1/4	54	43	114
120S-20-24	1.1/4	31.8	20	1.1/2	63.5	48	119
120S-24-24	1.1/2	38.1	24	1.1/2	63.5	52	172

1250

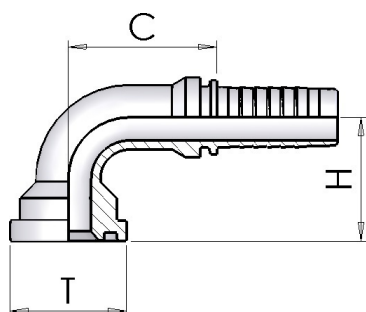


Flangia Komatsu dritta SAE 3000 PSI

(SFL)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
1250-10-10	5/8	15.9	10	5/8	34	56

1050

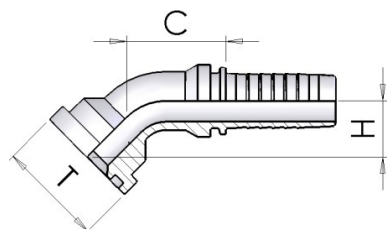


Komatsu Flange 90°

(JIS-KF)

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T Flange	mm	drop H	Cut-off C	
1050-10-10	5/8	15.9	10	5/8	34	47	58	Welded

1150



Flangia Komatsu 45° SAE 3000 PSI

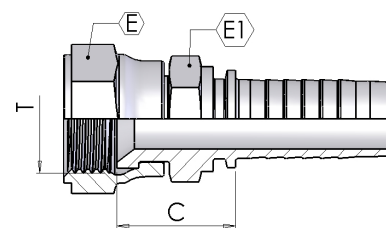
(SFL 45°)

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T Flange	mm	drop H	Cut-off C	
1150-10-10	5/8	15.9	10	5/8	34	54	23	Welded

0940

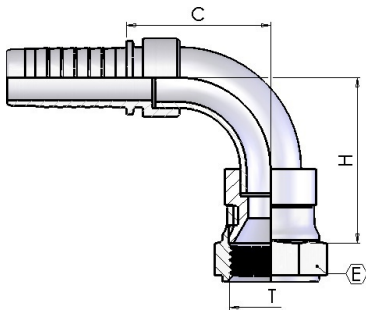
JIS Female 60° Cone (Komatsu)

(JIS-K)



Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
0940-04-14	1/4	6.4	04	M14x1,5	19	17	22
0940-05-16	5/16	7.9	05	M16x1,5	22	17	22
0940-06-14	3/8	9.5	06	M14x1,5	19	17	22
0940-06-16	3/8	9.5	06	M16x1,5	22	19	22
0940-06-18	3/8	9.5	06	M18x1,5	24	19	21
0940-08-22	1/2	12.7	08	M22x1,5	27	22	27
0940-08-24	1/2	12.7	08	M24x1,5	30	27	25
0940-10-24	5/8	15.9	10	M24x1,5	30	27	26
0940-12-30	3/4	19	12	M30x1,5	36	30	30
0940-16-33	1	25.4	16	M33x1,5	41	36	33
0940-20-36	1.1/4	31.8	20	M36x1,5	46	46	37
0940-24-42	1.1/2	38.1	24	M42x1,5	50	50	38

0990S

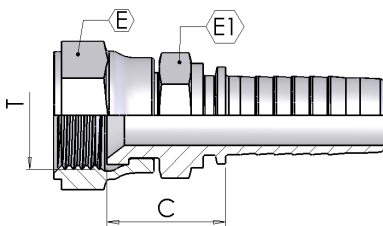


90° JIS Swept Elbow (Komatsu) - welded

(JIS-K 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0990S04-14	1/4	6.4	04	M14x1,5	19	35	38
0990S05-16	5/16	7.9	05	M16x1,5	22	30	27
0990S06-14	3/8	9.5	06	M14x1,5	19	33	31
0990S06-18	3/8	9.5	06	M18x1,5	24	33	31
0990S08-22	1/2	12.7	08	M22x1,5	27	39	33
0990S10-24	5/8	15.9	10	M24x1,5	30	48	42
0990S12-30	3/4	19	12	M30x1,5	36	43	48
0990S16-33	1	25.4	16	M33x1,5	41	62	57

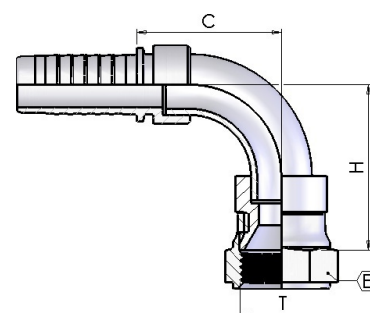
0930



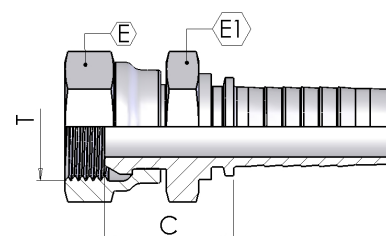
JIS Female 60° cone (Toyota)

(JIS-T)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
0930-04-04	1/4	6.4	04	1/4-19	19	17	20
0930-06-06	3/8	9.5	06	3/8-19	22	19	22
0930-08-08	1/2	12.7	08	1/2-14	27	22	26
0930-12-12	3/4	19	12	3/4-14	32	30	29
0930-16-16	1	25.4	16	1-11	38	36	31
0930-20-20	1.1/4	31.8	20	1.1/4-11	50	46	35
0930-24-24	1.1/2	38.1	24	1.1/2-11	55	50	28

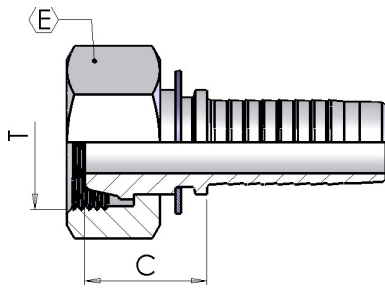
0980S**90° JIS Swept Elbow (Toyota) -
welded****(JIS-T 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0980S04-04	1/4	6.4	04	1/4-19	19	35	38
0980S06-06	3/8	9.5	06	3/8-19	22	30	27
0980S08-08	1/2	12.7	08	1/2-14	27	39	33
0980S12-12	3/4	19	12	3/4-14	32	55	48
0980S16-16	1	25.4	16	1-11	38	62	57

0920**JIS Female 60° cone (Nissan)****(JIS-N)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
0920-04-04	1/4	6.4	04	1/4-19	19	19	23
0920-06-06	3/8	9.5	06	3/8-19	22	22	28
0920-08-08	1/2	12.7	08	1/2-14	27	27	27

0030

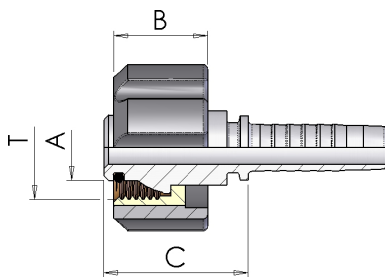


Metric Female 24° Cone French Type

(DKF)

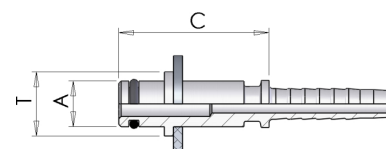
Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0030-05-20	5/16	7.9	05	M20-1.5	24	25
0030-06-20	3/8	9.5	06	M20-1.5	24	26
0030-08-24	1/2	12.7	08	M24-1.5	30	28
0030-10-30	5/8	15.9	10	M30-1.5	36	25
0030-12-30	3/4	19	12	M30-1.5	36	26
0030-12-36	3/4	19	12	M36-1.5	46	29
0030-16-45	1	25.4	16	M45-1.5	55	30
0030-20-52	1.1/4	31.8	20	M52-1.5	65	34

FK50

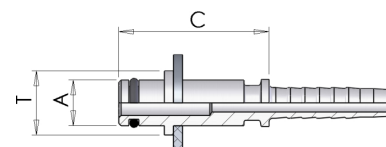


K' Female

Product number	hose I.D.		Dimension				
	in	dash size	mm	T	A	B	Cut-off C
FK50-04-22	1/4	04	6.4	M22-1.5	14	20	31
FK50-05-22	5/16	05	7.9	M22-1.5	14	20	31
FK50-06-22	3/8	06	9.5	M22-1.5	14	20	31
FK50-04022	1/4	04	6.4	M22-1.5	14	27	31
FK50-05022	5/16	05	7.9	M22-1.5	14	27	31
FK50-06022	3/8	06	9.5	M22-1.5	14	27	31

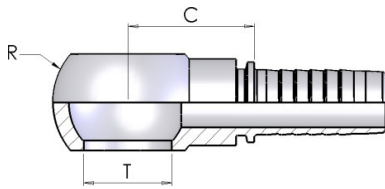
FN50**'K' Male (for gun) - Diameter 10**

Product number	hose I.D.		Dimension	
	in	mm	dash size	A
FN50-04-22	1/4	6.4	04	10
FN50-05-22	5/16	7.9	05	10
FN50-06-22	3/8	9.5	06	10

FN51**'K' Male (for gun) - Diameter 11**

Product number	hose I.D.		Dimension		
	in	mm	dash size	A	Cut-off C
FN51-04-22	1/4	6.4	04	11	33
FN51-05-22	5/16	7.9	05	11	33

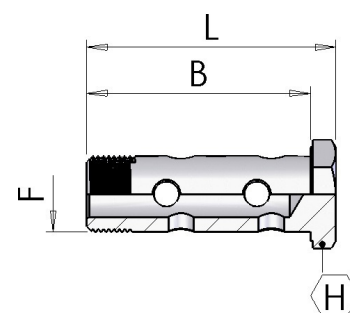
1400



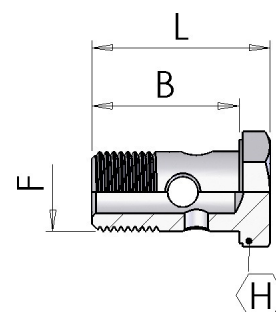
BSP Banjo

RNR

Product number	hose I.D.		Dimension				
	in	mm	dash size	hole T	mm	R	Cut-off C
1400-03-02	3/16	4.8	03	1/8-28	10.2	17	19
1400-03-04	3/16	4.8	03	1/4-19	13.3	24	26
1400-04-02	1/4	6.4	04	1/8-28	10.2	17	25
1400-04-04	1/4	6.4	04	1/4-19	13.3	24	26
1400-04-06	1/4	6.4	04	3/8-19	17	28	26
1400-05-04	5/16	7.9	05	1/4-19	13.3	24	26
1400-05-06	5/16	7.9	05	3/8-19	17	28	26
1400-06-04	3/8	9.5	06	1/4-19	13.3	24	26
1400-06-06	3/8	9.5	06	3/8-19	17	28	26
1400-06-08	3/8	9.5	06	1/2-14	21.2	36	31
1400-08-06	1/2	12.7	08	3/8-19	17	28	27
1400-08-08	1/2	12.7	08	1/2-14	21.2	36	31
1400-08-12	1/2	12.7	08	3/4-14	26.5	45	38
1400-10-12	5/8	15.9	10	3/4-14	26.5	45	38
1400-12-12	3/4	19	12	3/4-14	26.5	45	38
1400-12-16	3/4	19	12	1-11	33.5	58	49
1400-16-16	1	25.4	16	1-11	33.5	58	50

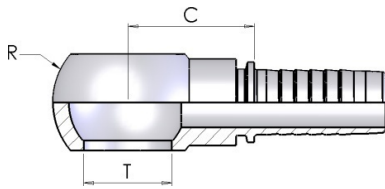
1600**Double BSP Perfored Bolt**

Product number	Dimension			
	F	B	L	H
1600-04-04	1/4-19	43	49	19
1600-06-06	3/8-19	49	57	22
1600-08-08	1/2-14	62	70	27
1600-12-12	3/4-14	78	87	32
1600-16-16	1-11	98	109	41

1600-00**BSP Perfored Bolt**

Product number	Dimension			
	F	B	L	H
1600-00-02	1/8-28	19	24	14
1600-00-04	1/4-19	29	34	19
1600-00-06	3/8-19	33	41	22
1600-00-08	1/2-14	38	46	27
1600-00-12	3/4-14	47	56	32
1600-00-16	1-11	58	69	41

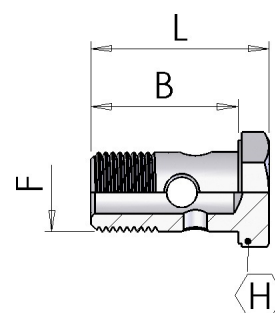
1350



Metric Banjo

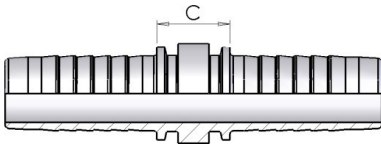
RNM

Product number	hose I.D.		Dimension				
	in	mm	dash size	hole T	mm	R	Cut-off C
1350-03-10	3/16	4.8	03	M10-1	10.2	17	25
1350-03-12	3/16	4.8	03	M12-1.5	12.2	20	22
1350-04-10	1/4	6.4	04	M10-1	10.2	17	25
1350-04-12	1/4	6.4	04	M12-1.5	12.2	20	22
1350-04-14	1/4	6.4	04	M14-1.5	14.2	24	26
1350-05-14	5/16	7.9	05	M14-1.5	14.2	24	26
1350-05-16	5/16	7.9	05	M16-1.5	16.2	28	26
1350-05-18	5/16	7.9	05	M18-1.5	18.2	32	29
1350-06-14	3/8	9.5	06	M14-1.5	14.2	24	26
1350-06-16	3/8	9.5	06	M16-1.5	16.2	28	26
1350-06-18	3/8	9.5	06	M18-1.5	18.2	32	29
1350-06-22	3/8	9.5	06	M22-1.5	22.2	36	31
1350-08-16	1/2	12.7	08	M16-1.5	16.2	28	27
1350-08-18	1/2	12.7	08	M18-1.5	18.2	32	29
1350-08-22	1/2	12.7	08	M22-1.5	22.2	36	31
1350-10-22	5/8	15.9	10	M22-1.5	22.2	36	31
1350-10-26	5/8	15.9	10	M26-1.5	26.5	45	38
1350-12-22	3/4	19	12	M22-1.5	22.2	36	32
1350-12-26	3/4	19	12	M26-1.5	26.2	46	38
1350-16-30	1	25.4	16	M30-2	30.2	54	45

1650**Metric perfored bolt**

Product number	Dimension			
	F	B	L	H
1650-00-10	M10-1	19	24	14
1650-00-12	M12-1.5	26	31	17
1650-00-14	M14-1.5	29	34	19
1650-00-16	M16-1.5	33	41	22
1650-00-18	M18-1.5	37	44	24
1650-00-22	M22-1.5	38	46	27
1650-00-26	M26-1.5	47	56	32
1650-00-30	M30-1.5	58	68	36

D050

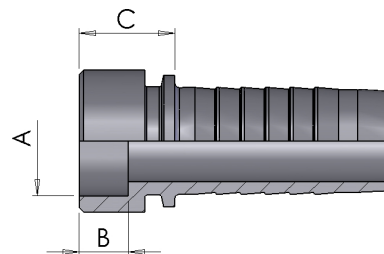


Hose Junction

Product number	hose I.D.		Dimension	
	in	mm	dash size	Cut-off C
D050-03	3/16	4.8	03	17
D050-04	1/4	6.4	04	22
D050-05	5/16	7.9	05	22
D050-06	3/8	9.5	06	22
D050-08	1/2	12.7	08	23
D050-10	5/8	15.9	10	18
D050-12	3/4	19	12	19
D050-16	1	25.4	16	21
D050-20	1.1/4	31.8	20	24
D050-24	1.1/2	38.1	24	24
D050-32	2	50.8	32	26

GS00

Weldable Fitting



Product number	hose I.D.		Dimension			
	in	mm	dash size	A	B	Cut-off C
GS00-03-08	3/16	4.8	03	08	6	12
GS00-04-06	1/4	6.4	04	06	6	14
GS00-04-08	1/4	6.4	04	08	6	14
GS00-04-10	1/4	6.4	04	10	6	15
GS00-04-12	1/4	6.4	04	12	7	17
GS00-05-08	5/16	7.9	05	08	6	14
GS00-05-10	5/16	7.9	05	10	6	14
GS00-05-12	5/16	7.9	05	12	6	14
GS00-06-06	3/8	9.5	06	06	6	15
GS00-06-08	3/8	9.5	06	08	6	15
GS00-06-10	3/8	9.5	06	10	6	14
GS00-06-12	3/8	9.5	06	12	7	15
GS00-06-15	3/8	9.5	06	15	7	14
GS00-08-12	1/2	12.7	08	12	7	15
GS00-08-14	1/2	12.7	08	14	8	15
GS00-08-15	1/2	12.7	08	15	7	15
GS00-08-16	1/2	12.7	08	16	7	15
GS00-08-20	1/2	12.7	08	20	9	18
GS00-10-16	5/8	15.9	10	16	8	16
GS00-10-18	5/8	15.9	10	18	8	16
GS00-10-20	5/8	15.9	10	20	9	18
GS00-12-16	3/4	19	12	16	8	16
GS00-12-18	3/4	19	12	18	8	16
GS00-12-20	3/4	19	12	20	9	18
GS00-12-22	3/4	19	12	22	9	18
GS00-12-25	3/4	19	12	25	9	19
GS00-16-25	1	25.4	16	25	9	19
GS00-16-30	1	25.4	16	30	9	20
GS00-20-35	1.1/4	31.8	20	35	11	23

without zinc plating



N Tail



0NI4



Swaged Ferrule 4WS (no skive)

90

0NI6



Swaged Ferrule (no skive)

90



0370N



NPTF Male 60° cone

91



0350N



BSP Male Parallel 60° cone

91

0050N 0051N



BSP Female 60° Cone

92

0150N 0151N



BSP 90° Swept elbow 60° cone

93

0250N 0251N



BSP 45° Swept Elbow 60° Cone

94



0850N



JIC Male 74° cone

95

0900N 0901N



JIC Female 74° Cone-Double Hexagon

96

0950N 0951N



JIC 90° Swept Elbow 74° cone

97

095SN



JIC 90° Swept Elbow 74° cone - ISO SHORT

97

1000N 1001N



JIC 45° Swept Elbow 74° cone

98



0500N



Metric Male 24° Seat
Light

99

0085N



Metric Female 24° Seat
Light

100

0185N



90° Metric Swept Elbow
24° Seat Light

100

0285N



45° Metric Swept Elbow
24° Seat Light

101



0450N



Metric Male 24° Seat
Heavy

101

0084N



Metric Female 24° Seat
Heavy

102

0184N



90° Metric Swept Elbow
24° Seat Heavy

102

0284N



45° Metric Swept Elbow
24° Seat Heavy

103



S350N



ORFS Male

104

S05TN



ORFS Female Back
Hexagon

104

S15SN



ORFS 90° Swept Elbow -
ISO SHORT

105

S250N



ORFS 45° Swept Elbow

105



S150N



ORFS 90° Swept Elbow

106

1250N



Straight SAE Flange
3000 PSI

107

1050N



90° SAE Flange 3000 PSI

107



1150N



45° SAE Flange 3000 PSI

108

1300N



Straight SAE Flange
6000 PSI

108

1100N



90° SAE Flange 6000 PSI

109



1200N



45° SAE Flange 6000 PSI

110

130SN



Straight 'CAT' Flange

110

110SN



90° 'CAT' Flange

111



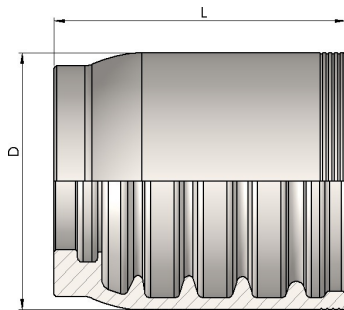
120SN



45° 'CAT' Flange

112

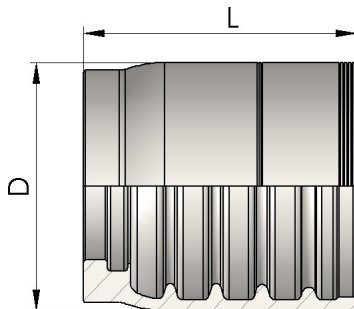
ONI4



Swaged Ferrule 4WS (no skive)

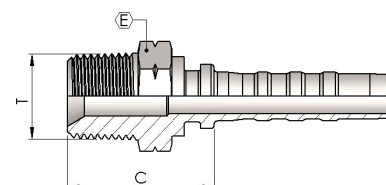
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
ONI4-06	3/8	9.5	30.5	37	NO	SR-ISO
ONI4-08	1/2	12.7	33.5	37.5	NO	SR-ISO
ONI4-10	5/8	15.9	37.5	46	NO	SR-ISO
ONI4-12	3/4	19	44.5	50.5	NO	SR-ISO
ONI4-16	1	25.4	52.5	59.5	NO	SR-ISO
ONI4-20	1.1/4	31.8	60.5	70	NO	SR-ISO
ONI4-24	1.1/2	38.1	69.5	80	NO	SR-ISO

ONI6

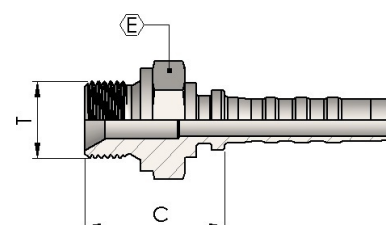


Swaged Ferrule (no skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
ONI6-20	1.1/4	31.8	63.5	70	NO	SR-ISO
ONI6-24	1.1/2	38.1	72.5	80	NO	SR-ISO

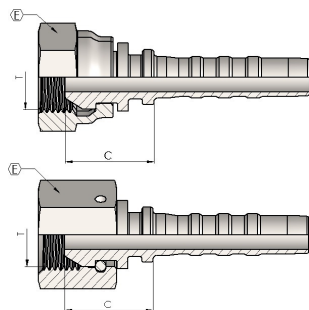
0370N**NPTF Male 60° cone****(AGN)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0370N06-06	3/8	9.5	06	3/8-18	19	30
0370N06-08	3/8	9.5	06	1/2-14	22	36
0370N08-08	1/2	12.7	08	1/2-14	22	36
0370N12-12	3/4	19	12	3/4-14	27	39
0370N16-16	1	25.4	16	1-11.1/2	36	46
0370N20-20	1.1/4	31.8	20	1.1/4-11.1/2	46	50
0370N24-24	1.1/2	38.1	24	1.1/2-11.1/2	50	54

0350N**BSP Male Parallel 60° cone****(AGR)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0350N06-06	3/8	9.5	06	3/8-19	22	31
0350N06-08	3/8	9.5	06	1/2-14	27	34
0350N08-08	1/2	12.7	08	1/2-14	27	34
0350N10-10	5/8	15.9	10	5/8-14	30	37
0350N10-12	5/8	15.9	10	3/4-14	32	37
0350N12-12	3/4	19	12	3/4-14	32	38
0350N12-16	3/4	19	12	1-11	41	41
0350N16-16	1	25.4	16	1-11	41	42
0350N16-20	1	25.4	16	1.1/4-11	50	46
0350N20-20	1.1/4	31.8	20	1.1/4-11	50	48
0350N24-24	1.1/2	38.1	24	1.1/2-11	55	51

0050N 0051N

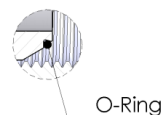


BSP Female 60° Cone

(DKR)

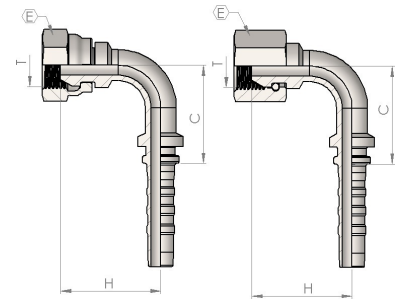
Product number	hose I.D.		Dimension				Note
	in	mm	dash size	T	E	Cut-off C	
0051N06-06	3/8	9.5	06	3/8-19	22	21	
0051N06-08	3/8	9.5	06	1/2-14	27	24	
0051N08-08	1/2	12.7	08	1/2-14	27	24	
0051N10-10	5/8	15.9	10	5/8-14	30	22	
0050N10-12	5/8	15.9	10	3/4-14	32	27	
0050N12-12	3/4	19	12	3/4-14	32	27	
0050N12-16	3/4	19	12	1-11	41	28	
0050N16-16	1	25.4	16	1-11	41	30	
0050N20-20	1.1/4	31.8	20	1.1/4-11	50	34	(*)
0050N20-24	1.1/4	31.8	20	1.1/2-11	55	36	(*)
0050N24-24	1.1/2	38.1	24	1.1/2-11	55	39	(*)

(*) - Femmina BSP con O-Ring.



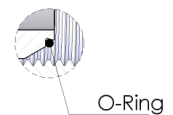
0150N 0151N

BSP 90° Swept elbow 60° cone

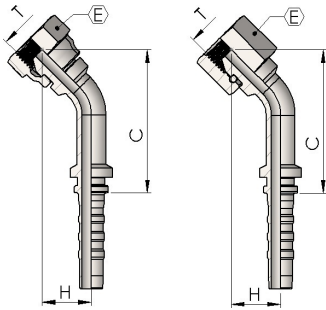


Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
0151N06-06	3/8	9.5	06	3/8-19	22	35	33	
0151N06-08	3/8	9.5	06	1/2-14	27	40	31	
0151N08-08	1/2	12.7	08	1/2-14	27	41	39	
0151N10-10	5/8	15.9	10	5/8-14	30	43	44	
0150N10-12	5/8	15.9	10	3/4-14	32	50	45	
0150N12-12	3/4	19	12	3/4-14	32	57	59	
0150N16-16	1	25.4	16	1-11	41	70	78	
0150N16-20	1	25.4	16	1.1/4-11	50	76	77	(*)
0150N20-20	1.1/4	31.8	20	1.1/4-11	50	84	97	(*)
0150N24-24	1.1/2	38.1	24	1.1/2-11	55	104	110	(*)

(*) - BSP O-Ring Female



0250N 0251N

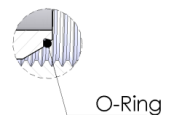


BSP 45° Swept Elbow 60° Cone

(DKR-45°)

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
0251N06-06	3/8	9.5	06	3/8-19	22	19	54	
0251N06-08	3/8	9.5	06	1/2-14	27	21	57	
0251N08-08	1/2	12.7	08	1/2-14	27	24	66	
0251N10-10	5/8	15.9	10	5/8-14	30	23	70	
0250N10-12	5/8	15.9	10	3/4-14	32	27	74	
0250N12-12	3/4	19	12	3/4-14	32	28	88	
0250N16-16	1	25.4	16	1-11	41	38	116	
0250N16-20	1	25.4	16	1.1/4-11	50	33	70	(*)
0250N20-20	1.1/4	31.8	20	1.1/4-11	50	41	103	(*)
0250N24-24	1.1/2	38.1	24	1.1/2-11	55	54	172	(*)

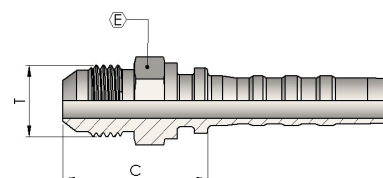
(*) - BSP O-Ring Female



0850N

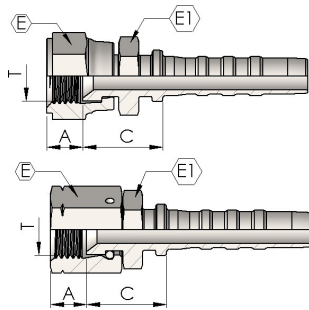
JIC Male 74° cone

(AGJ)



Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0850N06-06	3/8	9.5	06	9/16-18	15	29
0850N06-08	3/8	9.5	06	3/4-16	19	32
0850N08-08	1/2	12.7	08	3/4-16	19	32
0850N08-10	1/2	12.7	08	7/8-14	24	36
0850N08-12	1/2	12.7	08	1.1/16-12	27	38
0850N10-10	5/8	15.9	10	7/8-14	24	37
0850N12-12	3/4	19	12	1.1/16-12	27	40
0850N16-16	1	25.4	16	1.5/16-12	34	45
0850N20-20	1.1/4	31.8	20	1.5/8-12	42	50
0850N24-24	1.1/2	38.1	24	1.7/8-12	55	52

0900N 0901N



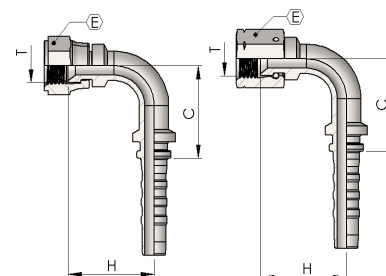
JIC Female 74° Cone- Double Hexagon

(DKJ)

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	E	E1	Cut-off C	A
0901N06-06	3/8	9.5	06	9/16-18	19	17	26	9
0901N06-08	3/8	9.5	06	3/4-16	24	19	28	10.5
0901N08-08	1/2	12.7	08	3/4-16	24	22	28	10.5
0901N08-10	1/2	12.7	08	7/8-14	27	22	28	13
0900N08-12	1/2	12.7	08	1.1/16-12	32	27	33	13.5
0901N10-10	5/8	15.9	10	7/8-14	27	22	28	13
0900N12-12	3/4	19	12	1.1/16-12	32	27	34	13.5
0900N16-16	1	25.4	16	1.5/16-12	38	36	35	15.5
0900N20-20	1.1/4	31.8	20	1.5/8-12	50	46	42	16.5
0900N24-24	1.1/2	38.1	24	1.7/8-12	55	50	46	19

0950N 0951N

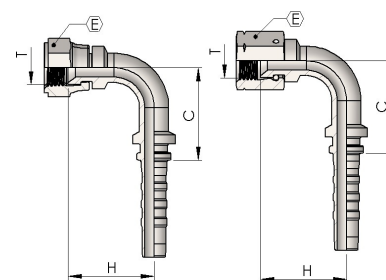
JIC 90° Swept Elbow 74° cone



Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0951N06-06	3/8	9.5	06	9/16-18	19	32	31
0951N06-08	3/8	9.5	06	3/4-16	24	34	35
0951N08-08	1/2	12.7	08	3/4-16	24	41	41
0951N08-10	1/2	12.7	08	7/8-14	27	40	41
0950N08-12	1/2	12.7	08	1.1/16-12	32	43	39
0950N10-10	5/8	15.9	10	7/8-14	27	45	42
0950N12-12	3/4	19	12	1.1/16-12	32	54	56
0950N16-16	1	25.4	16	1.5/16-12	41	65	70
0950N20-20	1.1/4	31.8	20	1.5/8-12	50	85	82
0950N24-24	1.1/2	38.1	24	1.7/8-12	55	97	104

095SN

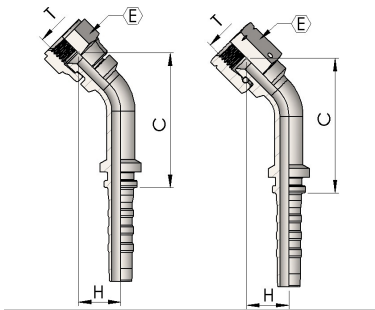
JIC 90° Swept Elbow 74° cone - ISO SHORT



Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
095SN06-06	3/8	9.5	06	9/16-18	19	23	31
095SN08-08	1/2	12.7	08	3/4-16	24	29	41
095SN12-12*	3/4	19	12	1.1/16-12	32	48	56
095SN16-16	1	25.4	16	1.5/16-12	41	57	71

*Thrust Wire Nut

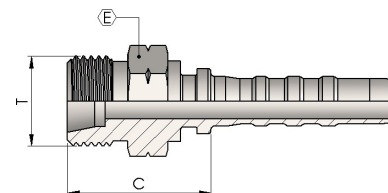
1000N 1001N



JIC 45° Swept Elbow 74°

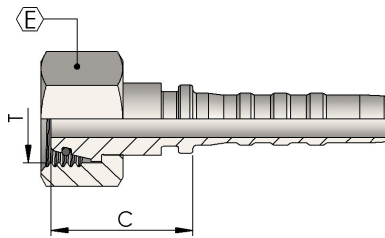
(DKJ-45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
1001N06-06	3/8	9.5	06	9/16-18	19	17	51
1001N06-08	3/8	9.5	06	3/4-16	24	19	51
1001N08-08	1/2	12.7	08	3/4-16	24	22	62
1001N08-10	1/2	12.7	08	7/8-14	27	23	64
1000N08-12	1/2	12.7	08	1.1/16-12	32	25	68
1001N10-10	5/8	15.9	10	7/8-14	27	24	68
1000N12-12	3/4	19	12	1.1/16-12	32	28	84
1000N16-16	1	25.4	16	1.5/16-12	41	32	83
1000N20-20	1.1/4	31.8	20	1.5/8-12	50	42	108
1000N24-24	1.1/2	38.1	24	1.7/8-12	55	49	156

0500N**Metric Male 24° Seat Light****(CEL)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0500N06-16	3/8	9.5	06	M16-1.5	10	17	23
0500N06-18	3/8	9.5	06	M18-1.5	12	19	24
0500N06-22	3/8	9.5	06	M22-1.5	15	22	25
0500N08-18	1/2	12.7	08	M18-1.5	12	19	25
0500N08-22	1/2	12.7	08	M22-1.5	15	22	26
0500N08-26	1/2	12.7	08	M26-1.5	18	27	27
0500N10-22	5/8	15.9	10	M22-1.5	15	22	26
0500N10-26	5/8	15.9	10	M26-1.5	18	27	27
0500N10-30	5/8	15.9	10	M30-2	22	30	32
0500N12-26	3/4	19	12	M26-1.5	18	27	28
0500N12-30	3/4	19	12	M30-2	22	30	33
0500N16-36	1	25.4	16	M36-2	28	36	32
0500N20-45	1.1/4	31.8	20	M45-2	35	46	36
0500N24-52	1.1/2	38.1	24	M52-2	42	55	38

0085N

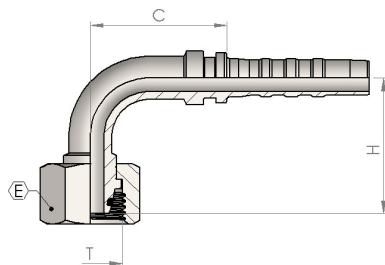


Metric Female 24° Seat Light

(DKOL)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0085N06-18	3/8	9.5	06	M18-1.5	12	22	27
0085N08-22	1/2	12.7	08	M22-1.5	15	27	30
0085N10-26	5/8	15.9	10	M26-1.5	18	32	31
0085N12-30	3/4	19	12	M30-2	22	36	31
0085N16-36	1	25.4	16	M36-2	28	41	32
0085N20-45	1.1/4	31.8	20	M45-2	35	50	43
0085N24-52	1.1/2	38.1	24	M52-2	42	60	46

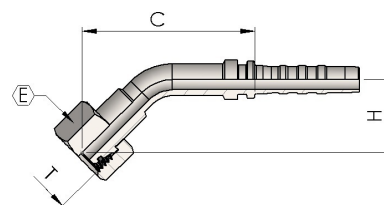
0185N



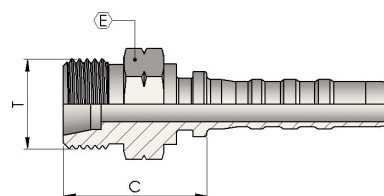
90° Metric Swept Elbow 24° Seat Light

(DKOL-90°)

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0185N06-18	3/8	9.5	06	M18-1.5	12	22	33	34
0185N08-22	1/2	12.7	08	M22-1.5	15	27	41	41
0185N10-26	5/8	15.9	10	M26-1.5	18	32	44	44
0185N12-30	3/4	19	12	M30-2	22	36	52	58
0185N16-36	1	25.4	16	M36-2	28	41	62	72
0185N20-45	1.1/4	31.8	20	M45-2	35	50	73	63
0185N24-52	1.1/2	38.1	24	M52-2	42	60	83	81

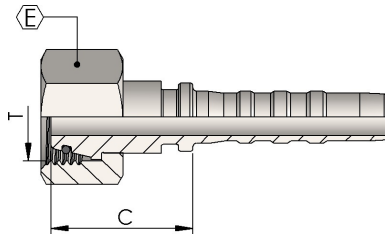
0285N**45° Metric Swept Elbow 24° Seat
Light****(DKOL-45°)**

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	H	Cut-off C
0285N06-18	3/8	9.5	06	M18-1.5	12	22	19	52
0285N08-22	1/2	12.7	08	M22-1.5	15	27	21	63
0285N10-26	5/8	15.9	10	M26-1.5	18	32	23	68
0285N16-36	1	25.4	16	M36-2	28	41	29	82
0285N20-45	1.1/4	31.8	20	M45-2	35	50	39	107
0285N24-52	1.1/2	38.1	24	M52-2	42	60	36	85

0450N**Metric Male 24° Seat Heavy****(CES)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0450N06-20	3/8	9.5	06	M20-1.5	12	22	31
0450N08-24	1/2	12.7	08	M24-1.5	16	24	33
0450N10-30	5/8	15.9	10	M30-2	20	30	36
0450N12-30	3/4	19	12	M30-2	20	30	37
0450N12-36	3/4	19	12	M36-2	25	36	39
0450N16-42	1	25.4	16	M42-2	30	46	44
0450N20-52	1.1/4	31.8	20	M52-2	38	55	48
0450N24-52	1.1/2	38.1	24	M52-2	38	55	50

0084N

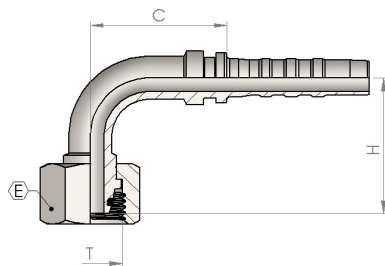


Metric Female 24° Seat Heavy

(DKOS)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0084N06-20	3/8	9.5	06	M20-1.5	12	24	25
0084N08-24	1/2	12.7	08	M24-1.5	16	30	29
0084N10-30	5/8	15.9	10	M30-2	20	34	34
0084N12-30	3/4	19	12	M30-2	20	36	36
0084N12-36	3/4	19	12	M36-2	25	46	41
0084N16-36	1	25.4	16	M36-2	25	46	42
0084N16-42	1	25.4	16	M42-2	30	50	44
0084N20-52	1.1/4	31.8	20	M52-2	38	60	46
0084N24-52	1.1/2	38.1	24	M52-2	38	60	52

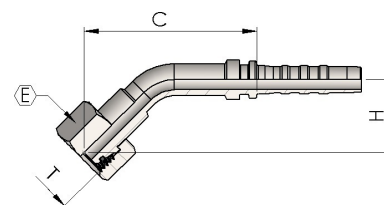
0184N



90° Metric Swept Elbow 24° Seat Heavy

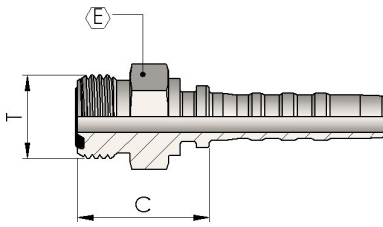
(DKOS-90°)

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0184N06-20	3/8	9.5	06	M20-1.5	12	24	34	34
0184N08-24	1/2	12.7	08	M24-1.5	16	30	41	40
0184N10-30	5/8	15.9	10	M30-2	20	36	50	46
0184N12-30	3/4	19	12	M30-2	20	36	56	58
0184N12-36	3/4	19	12	M36-2	25	46	57	59
0184N16-36	1	25.4	16	M36-2	25	46	67	77
0184N16-42	1	25.4	16	M42-2	30	50	67	72
0184N20-52	1.1/4	31.8	20	M52-2	38	60	82	84
0184N24-52	1.1/2	38.1	24	M52-2	38	60	105	105

0284N**45° Metric Swept Elbow 24° Seat
Heavy****(DKOS-45°)**

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0284N06-20	3/8	9.5	06	M20-1.5	12	24	18	53
0284N08-24	1/2	12.7	08	M24-1.5	16	30	21	63
0284N10-30	5/8	15.9	10	M30-2	20	36	29	74
0284N12-30	3/4	19	12	M30-2	20	36	30	90
0284N12-36	3/4	19	12	M36-2	25	46	29	91
0284N16-36	1	25.4	16	M36-2	25	46	34	86
0284N16-42	1	25.4	16	M42-2	30	50	30	87
0284N20-52	1.1/4	31.8	20	M52-2	38	60	39	105
0284N24-52	1.1/2	38.1	24	M52-2	38	60	53	129

S350N



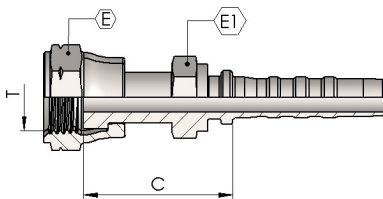
ORFS Male

(AGO)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
S350N06-09	3/8	9.5	06	11/16-16	19	26
S350N06-11	3/8	9.5	06	13/16-16	22	29
S350N08-11	1/2	12.7	08	13/16-16	22	29
S350N10-13	5/8	15.9	10	1-14	27	33
S350N12-14	3/4	19	12	1.3/16-12	32	36
S350N16-15	1	25.4	16	1.7/16-12	38	37
S350N16-21	1	25.4	16	1.11/16-12	46	38
S350N20-21	1.1/4	31.8	20	1.11/16-12	46	39
S350N20-32	1.1/4	31.8	20	2-12	55	48.5
S350N24-32	1.1/2	38.1	24	2-12	55	52.5

- with plug and O-Ring

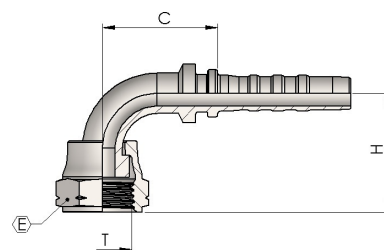
S05TN



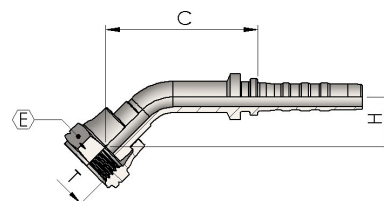
ORFS Female Back Hexagon

(ORFS)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
S05TN06-09	3/8	9.5	06	11/16-16	22	17	36
S05TN06-11	3/8	9.5	06	13/16-16	24	19	38
S05TN08-11	1/2	12.7	08	13/16-16	24	19	38
S05TN10-13	5/8	15.9	10	1-14	30	24	43
S05TN12-14	3/4	19	12	1.3/16-12	36	30	44
S05TN16-15	1	25.4	16	1.7/16-12	41	36	52
S05TN20-21	1.1/4	31.8	20	1.11/16-12	50	46	56
S05TN24-32	1.1/2	38.1	24	2-12	60	50	62

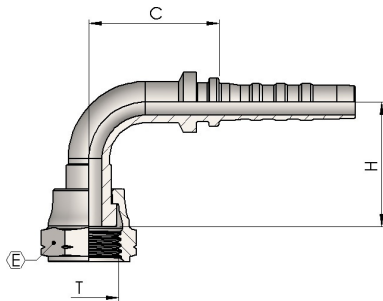
S15SN**ORFS 90° Swept Elbow - ISO SHORT****(ORFS-90° S)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
S15SN06-09	3/8	9.5	06	11/16-16	22	23	35
S15SN08-11	1/2	12.7	08	13/16-16	24	29	44
S15SN10-13	5/8	15.9	10	1-14	30	32	47
S15SN12-14	3/4	19	12	1.3/16-12	36	48	58

S250N**ORFS 45° Swept Elbow****(ORFS-45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
S250N06-09	3/8	9.5	06	11/16-16	22	17	52
S250N06-11	3/8	9.5	06	13/16-16	24	18	51
S250N08-11	1/2	12.7	08	13/16-16	24	20	62
S250N10-13	5/8	15.9	10	1-14	30	22	67
S250N12-14	3/4	19	12	1.3/16-12	36	23	84
S250N16-15	1	25.4	16	1.7/16-12	41	27	82
S250N20-21	1.1/4	31.8	20	1.11/16-12	50	44	104
S250N20-32	1.1/4	31.8	20	2-12	60	44	125
S250N24-32	1.1/2	38.1	24	2-12	60	44	127

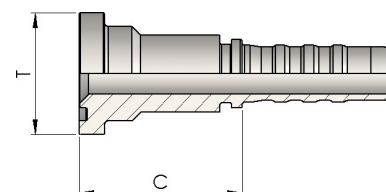
S150N



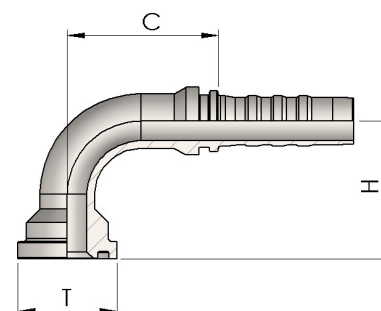
ORFS 90° Swept Elbow

(ORFS-90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
S150N06-09	3/8	9.5	06	11/16-16	22	33	33
S150N06-11	3/8	9.5	06	13/16-16	24	32	33
S150N08-11	1/2	12.7	08	13/16-16	24	36	43
S150N10-13	5/8	15.9	10	1-14	30	42	46
S150N12-14	3/4	19	12	1.3/16-12	36	49	55
S150N16-15	1	25.4	16	1.7/16-12	41	62	80
S150N16-21	1	25.4	20	1.11/16-12	50	58	62
S150N20-21	1.1/4	31.8	20	1.11/16-12	50	58	96
S150N20-32	1.1/4	31.8	20	2-12	60	73	63
S150N24-32	1.1/2	38.1	24	2-12	60	73	80

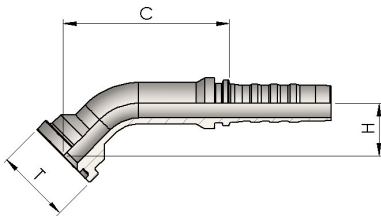
1250N**Straight SAE Flange 3000 PSI****(SFL)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
1250N08-08	1/2	12.7	08	1/2	30.2	48
1250N12-12	3/4	19	12	3/4	38.1	54
1250N12-16	3/4	19	12	1	44.5	55
1250N16-16	1	25.4	16	1	44.5	56
1250N16-20	1	25.4	16	1.1/4	50.8	59
1250N20-20	1.1/4	31.8	20	1.1/4	50.8	62
1250N20-24	1.1/4	31.8	20	1.1/2	60.3	65
1250N24-24	1.1/2	38.1	24	1.1/2	60.3	67
1250N24-32	1.1/2	38.1	24	2	71.4	72

1050N**90° SAE Flange 3000 PSI****(SFL 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1050N08-08	1/2	12.7	08	1/2	30.2	39	40
1050N12-12	3/4	19	12	3/4	38.1	53	58
1050N12-16	3/4	19	12	1	44.5	58	58
1050N16-16	1	25.4	16	1	44.5	65	72
1050N16-20	1	25.4	16	1.1/4	50.8	70	72
1050N20-20	1.1/4	31.8	20	1.1/4	50.8	82	97
1050N20-24	1.1/4	31.8	20	1.1/2	60.3	85	96
1050N24-24	1.1/2	38.1	24	1.1/2	60.3	96	115

1150N

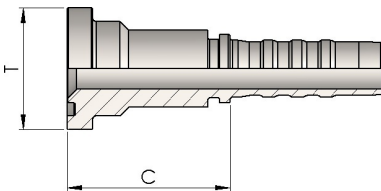


45° SAE Flange 3000 PSI

(SFL 45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1150N12-12	3/4	19	12	3/4	38.1	25	81
1150N12-16	3/4	19	12	1	44.5	28	86
1150N16-16	1	25.4	16	1	44.5	32	79
1150N16-20	1	25.4	16	1.1/4	50.8	37	113
1150N20-20	1.1/4	31.8	20	1.1/4	50.8	39	103
1150N20-24	1.1/4	31.8	20	1.1/2	60.3	39	107
1150N24-24	1.1/2	38.1	24	1.1/2	60.3	44	159

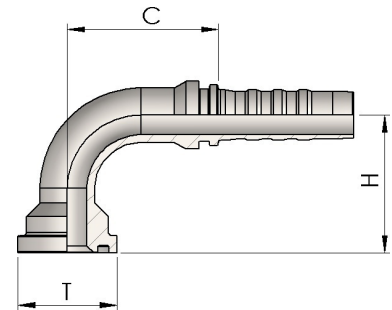
1300N



Straight SAE Flange 6000 PSI

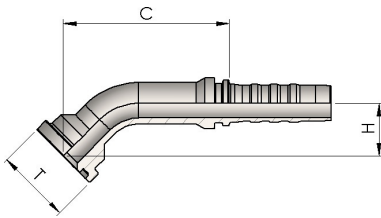
(SFS)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
1300N08-08	1/2	12.7	08	1/2	31.8	47
1300N12-12	3/4	19	12	3/4	41.3	56
1300N12-16	3/4	19	12	1	47.6	62
1300N16-16	1	25.4	16	1	47.6	63
1300N16-20	1	25.4	16	1.1/4	54	71
1300N20-20	1.1/4	31.8	20	1.1/4	54	73
1300N20-24	1.1/4	31.8	20	1.1/2	63.5	79
1300N24-24	1.1/2	38.1	24	1.1/2	63.5	81
1300N24-32	1.1/2	38.1	24	2	79.4	90

1100N**90° SAE Flange 6000 PSI****(SFS 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1100N08-08	1/2	12.7	08	1/2	31.8	39	42
1100N10-12	5/8	15.9	10	3/4	41.3	51	46
1100N12-12	3/4	19	12	3/4	41.3	53	61
1100N12-16	3/4	19	12	1	47.6	63	56
1100N16-16	1	25.4	16	1	47.6	69	72
1100N16-20	1	25.4	16	1.1/4	54	77	72
1100N20-20	1.1/4	31.8	20	1.1/4	54	84.5	100
1100N20-24	1.1/4	31.8	20	1.1/2	63.5	92	99
1100N24-24	1.1/2	38.1	24	1.1/2	63.5	104	127

1200N

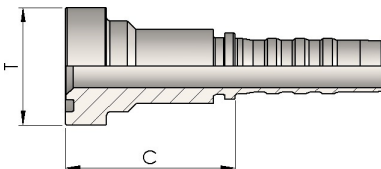


45° SAE Flange 6000 PSI

(SFS 45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1200N08-08	1/2	12.7	08	1/2	31.8	22	62
1200N12-12	3/4	19	12	3/4	41.3	27	90
1200N12-16	3/4	19	12	1	47.6	34	93
1200N16-16	1	25.4	16	1	47.6	34	90
1200N16-20	1	25.4	16	1.1/4	54	40	94
1200N20-16	1.1/4	31.8	20	1	47.6	34	98
1200N20-20	1.1/4	31.8	20	1.1/4	54	41	111
1200N20-24	1.1/4	31.8	20	1.1/2	63.5	46	120
1200N24-20	1.1/2	38.1	24	1.1/4	54	40	154
1200N24-24	1.1/2	38.1	24	1.1/2	63.5	50	122
1200N24-32	1.1/2	38.1	24	2	79.4	59	128

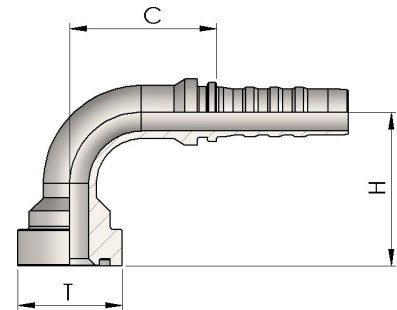
130SN



Straight 'CAT' Flange

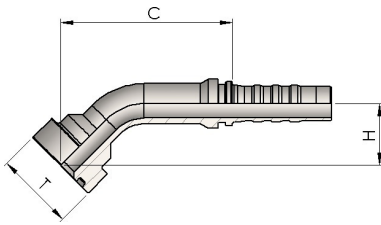
(SFC)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
130SN12-12	3/4	19	12	3/4	41.3	60
130SN12-16	3/4	19	12	1	47.6	66
130SN16-16	1	25.4	16	1	47.6	67
130SN16-20	1	25.4	16	1.1/4	54	75
130SN20-20	1.1/4	31.8	20	1.1/4	54	77
130SN24-24	1.1/2	38.1	24	1.1/2	63.5	85

110SN**90° 'CAT' Flange****(SFC 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
110SN12-12	3/4	19	12	3/4	41.3	62	56
110SN12-16	3/4	19	12	1	47.6	65	56
110SN16-16	1	25.4	16	1	47.6	74	81
110SN16-20	1	25.4	16	1.1/4	54	80	78
110SN20-16	1.1/4	31.8	20	1	47.6	87	97
110SN20-20	1.1/4	31.8	20	1.1/4	54	90	97
110SN20-24	1.1/4	31.8	20	1.1/2	63.5	95	97
110SN24-20	1.1/2	38.1	24	1.1/4	54	101	115
110SN24-24	1.1/2	38.1	24	1.1/2	63.5	104	115
110SN24-32	1.1/2	38.1	24	2	79.4	104	115

120SN



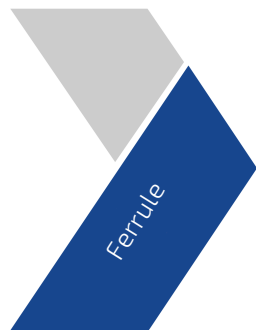
45° 'CAT' Flange

(SFC 45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
120SN12-12	3/4	19	12	3/4	41.3	32	88
120SN12-16	3/4	19	12	1	47.6	37	93
120SN16-16	1	25.4	16	1	47.6	37	90
120SN16-20	1	25.4	16	1.1/4	54	44	122
120SN20-16	1.1/4	31.8	20	1	47.6	40	111
120SN20-20	1.1/4	31.8	20	1.1/4	54	43	114
120SN20-24	1.1/4	31.8	20	1.1/2	63.5	48	119
120SN24-20	1.1/2	38.1	24	1.1/4	54	50	170
120SN24-24	1.1/2	38.1	24	1.1/2	63.5	52	172

Interlock Tail





004N



Swaged Ferrule (skive)

117

0042



Swaged Ferrule (skive)

117

0013



Swaged Ferrule (skive)

118

00J4



Swaged Ferrule (skive)

118

00J6



Swaged Ferrule (skive)

119



0370H



NPTF Male 60° cone

119



0350H



BSP Male Parallel 60° cone

120

0050H



BSP Female 60° cone Thrust Wire

120

0150H



BSP 90° Swept Elbow 60° cone Thrust Wire

121

0250H



BSP 45° Swept Elbow 60° Cone - Thrust Wire

121



0850H



JIC Male 74° cone

122

0900H



JIC Female 74° - Thrust Wire Nut

122

0950H



JIC 90° Swept Elbow 74°
Cone - Thrust Wire

123

1000H



JIC 45° Swept Elbow 74°
Cone - Thrust Wire

123



0450H



Metric Male 24° Seat
Heavy

124

0084H



Metric Female 24° Seat
Heavy

124



0184H



90° Metric Swept Elbow
24° Seat Heavy

125

0284H



45° Metric Swept Elbow
24° Seat Heavy

125



S350H



ORFS Male

126

S05TH



ORFS Female Back
Hexagon

126

S150H



ORFS 90° Swept Elbow

127

S250H



ORFS 45° Swept Elbow

127



1250H



Straight SAE Flange
3000 PSI

128

1050H



90° SAE Flange 3000 PSI

128

1150H



45° SAE Flange 3000 PSI

129

1300H



Straight SAE Flange
6000 PSI

130

1100H



90° SAE Flange 6000 PSI

131



1200H



45° SAE Flange 6000 PSI

132

130SH



Straight 'CAT' Flange

132

110SH



90° 'CAT' Flange

133



120SH



45° 'CAT' Flange

133

D050H



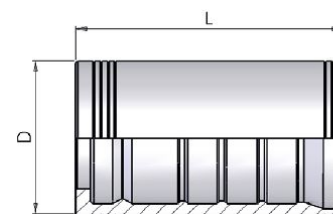
Hose Junction

134



004N

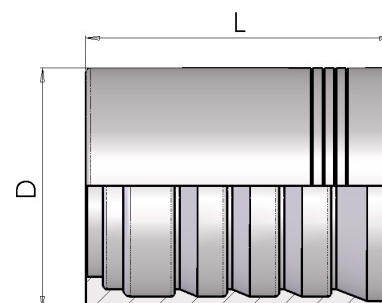
Swaged Ferrule (skive)



Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
004N-12	3/4	19	38	60	52/15	R13-4SH-R15 -(4SP)
004N-16	1	25.4	46	75	64/17	4SH-R13-R15-(4SP)
004N-20	1.1/4	31.8	55	88	74/22	4SH
004N-24	1.1/2	38.1	62	94	81/22,5	4SH
004N-32	2	50.8	78	99	85/30	4SH

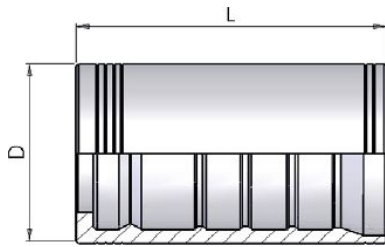
0042

Swaged Ferrule (skive)



Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0042-20	1.1/4	31.8	60	88	74/22	IS42 - HyTraktion
0042-24	1.1/2	38.1	70	94	82/22	IS42 - HyTraktion

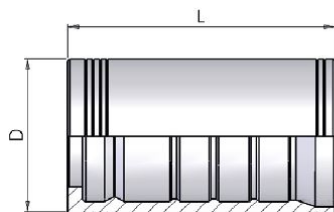
0013



Swaged Ferrule (skive)

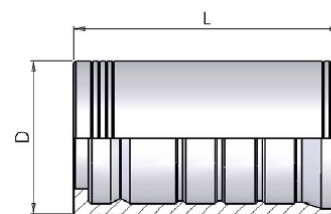
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0013-10	5/8	15.9	34.5	57.5	47/15	R15
0013-16	1	25.4	48	75	64/17	R13-R15
0013-20	1.1/4	31.8	60	88	74/22	R13 -R15
0013-24	1.1/2	38.1	67	94	81/22,5	R13 -R15
0013-32	2	50.8	85	99	85/30	R13-R15
0013-40	2.1/2	63.5	99	140	125/35	R13-R15
0013-48	3	76.2	116	154	135/37	R13-R15

00J4

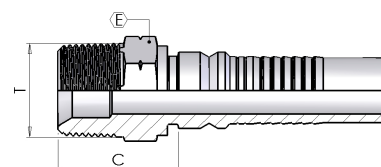


Swaged Ferrule (skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
00J4-16	1	25.4	49	72.5	62/17	HySpir 500

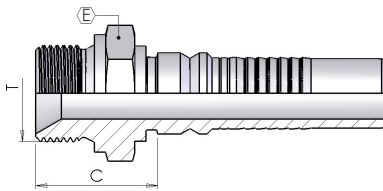
00J6**Swaged Ferrule (skive)**

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
00J6-16	1	25.4	51	74.5	65/17	MegaJet

0370H**NPTF Male 60° cone****(AGN)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0370H12-12	3/4	19	12	3/4-14	27	35
0370H16-16	1	25.4	16	1-11.1/2	36	41
0370H20-20	1.1/4	31.8	20	1.1/4-11.1/2	46	44
0370H24-24	1.1/2	38.1	24	1.1/2-11.1/2	50	47
0370H32-32	2	50.8	32	2-11.1/2	65	54

0350H

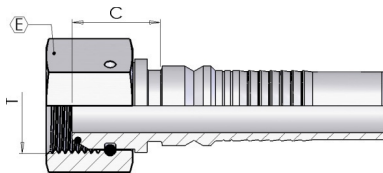


BSP Male Parallel 60° cone

(AGR)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0350H12-12	3/4	19	12	3/4-14	32	33
0350H12-16	3/4	19	12	1-11	41	36
0350H16-16	1	25.4	16	1-11	41	37
0350H16-20	1	25.4	16	1.1/4-11	50	41
0350H20-20	1.1/4	31.8	20	1.1/4-11	50	42
0350H24-24	1.1/2	38.1	24	1.1/2-11	55	44
0350H32-32	2	50.8	32	2-11	70	53

0050H

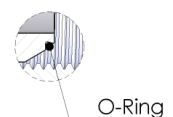


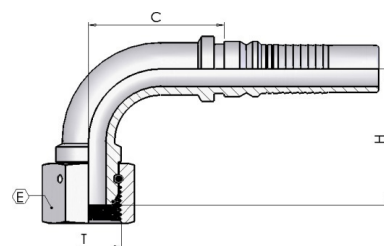
BSP Female 60° cone Thrust Wire

(DKR)

Product number	hose I.D.		Dimension		Note
	in	mm	dash size	Cut-off C	
0050H12-12	3/4	19	12	23	(*)
0050H12-16	3/4	19	12	25	(*)
0050H16-16	1	25.4	16	26	(*)
0050H20-20	1.1/4	31.8	20	29	(*)
0050H20-24	1.1/4	31.8	20	31	(*)
0050H24-24	1.1/2	38.1	24	31	(*)
0050H32-32	2	50.8	32	30	(*)

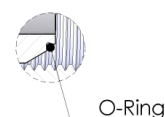
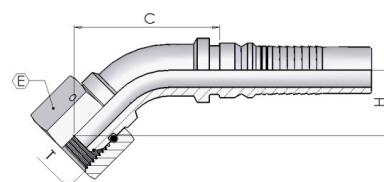
(*) - BSP O-Ring Female



0150H**BSP 90° Swept Elbow 60° cone
Thrust Wire****(DKR 90°)**

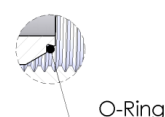
Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
0150H12-12	3/4	19	12	3/4-14	32	60	51	(*)
0150H16-16	1	25.4	16	1-11	41	70	73	(*)
0150H16-20	1	25.4	16	1.1/4-11	50	76	73	(*)
0150H20-20	1.1/4	31.8	20	1.1/4-11	50	83	93	(*)
0150H24-24	1.1/2	38.1	24	1.1/2-11	55	104	110	(*)

(*) - BSP O-Ring Female

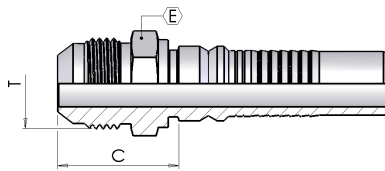
**0250H****BSP 45° Swept Elbow 60° Cone -
Thrust Wire****(DKR 45°)**

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
0250H12-12	3/4	19	12	3/4-14	32	31	85	(*)
0250H16-16	1	25.4	16	1-11	41	38	112	(*)
0250H20-20	1.1/4	31.8	20	1.1/4-11	50	41	98	(*)
0250H24-24	1.1/2	38.1	24	1.1/2-11	55	54	166	(*)
0250H32-32	2	50.8	32	2-11	70	71	143	(*)

(*) - BSP O-Ring Female



0850H

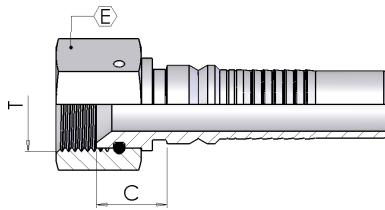


JIC Male 74° cone

(AGJ)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0850H12-12	3/4	19	12	1.1/16-12	27	36
0850H16-16	1	25.4	16	1.5/16-12	34	40
0850H20-20	1.1/4	31.8	20	1.5/8-12	42	44
0850H24-24	1.1/2	38.1	24	1.7/8-12	50	49

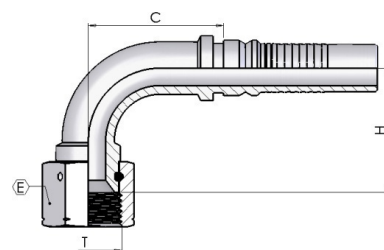
0900H



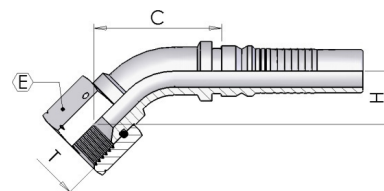
JIC Female 74° - Thrust Wire Nut

(DKJ)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0900H12-12	3/4	19	12	1.1/16-12	32	19
0900H12-16	3/4	19	12	1.5/16-12	41	22
0900H16-16	1	25.4	16	1.5/16-12	41	23
0900H20-20	1.1/4	31.8	20	1.5/8-12	50	26
0900H24-24	1.1/2	38.1	24	1.7/8-12	55	29
0900H32-32	2	50.8	32	2.1/2-12	70	30

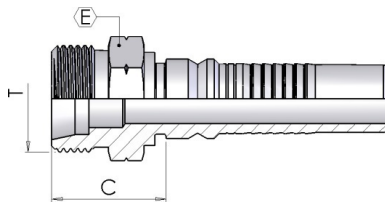
0950H**JIC 90° Swept Elbow 74° Cone -
Thrust Wire****(DKJ 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	Thread T	hex E	drop H	Cut-off C
0950H12-12	3/4	19	12	1.1/16-12	32	59	51
0950H12-16	3/4	19	12	1.5/16-12	41	62	54
0950H16-16	1	25.4	16	1.5/16-12	41	68	74
0950H20-20	1.1/4	31.8	20	1.5/8-12	50	86	92
0950H24-24	1.1/2	38.1	24	1.7/8-12	55	100	112
0950H32-32	2	50.8	32	2.1/2-12	70	134	121

1000H**JIC 45° Swept Elbow 74° Cone -
Thrust Wire****(DKJ 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
1000H12-12	3/4	19	12	1.1/16-12	32	28	85
1000H12-16	3/4	19	12	1.5/16-12	41	32	88
1000H16-16	1	25.4	16	1.5/16-12	41	33	83
1000H20-20	1.1/4	31.8	20	1.5/8-12	50	40	109
1000H24-24	1.1/2	38.1	24	1.7/8-12	55	49	165
1000H32-32	2	50.8	32	2.1/2-12	70	67	194

0450H

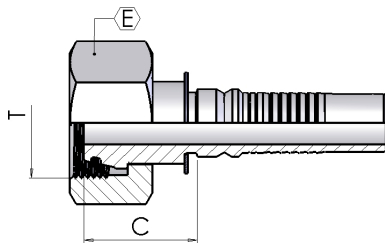


Metric Male 24° Seat Heavy

(CES)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0450H12-36	3/4	19	12	M36-2	25	36	36
0450H16-42	1	25.4	16	M42-2	30	46	39
0450H20-52	1.1/4	31.8	20	M52-2	38	55	42
0450H24-52	1.1/2	38.1	24	M52-2	38	55	42.5

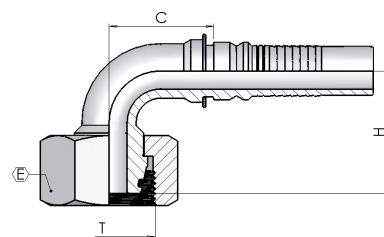
0084H



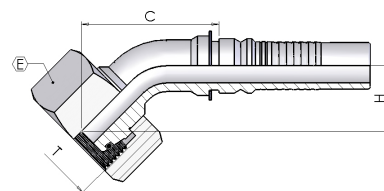
Metric Female 24° Seat Heavy

(DKOS)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0084H12-36	3/4	19	12	M36-2	25	46	37
0084H16-36	1	25.4	16	M36-2	25	46	38
0084H16-42	1	25.4	16	M42-2	30	50	41
0084H20-42	1.1/4	31.8	20	M42-2	30	50	32
0084H20-52	1.1/4	31.8	20	M52-2	38	60	41
0084H24-52	1.1/2	38.1	24	M52-2	38	60	42

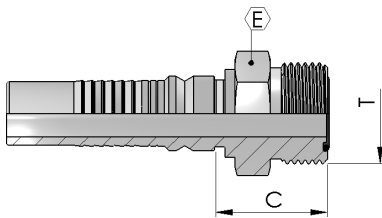
0184H**90° Metric Swept Elbow 24° Seat Heavy****(DKOS 90°)**

Product number	hose I.D.		Dimension						
	in	mm	dash size	T	erm.	E	drop H	Cut-off C	
0184H12-36	3/4	19	12	M36-2	25	46	60	54	
0184H16-36	1	25.4	16	M36-2	25	46	68	75	
0184H16-42	1	25.4	16	M42-2	30	50	69	74	
0184H20-52	1.1/4	31.8	20	M52-2	38	60	83	91	

0284H**45° Metric Swept Elbow 24° Seat Heavy****(DKOS 45°)**

Product number	hose I.D.		Dimension						
	in	mm	dash size	T	erm.	E	drop H	Cut-off C	
0284H12-36	3/4	19	12	M36-2	25	46	31	86	
0284H16-36	1	25.4	16	M36-2	25	46	34	82	
0284H16-42	1	25.4	16	M42-2	30	50	34	83	
0284H20-52	1.1/4	31.8	20	M52-2	38	60	40	105	

S350H

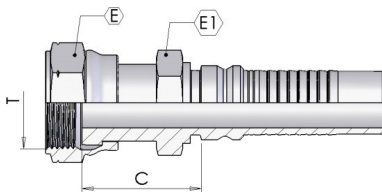


ORFS Male

(AGO)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
S350H12-14-BO	3/4	19	12	1.3/16-12	32	34
S350H16-15-BO	1	25.4	16	1.7/16-12	38	35
S350H20-21-BO	1.1/4	31.8	20	1.11/16-12	46	36
S350H24-32-BO	1.1/2	38.1	24	2-12	55	38

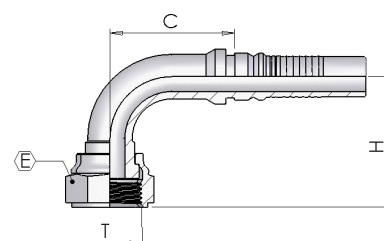
S05TH



ORFS Female Back Hexagon

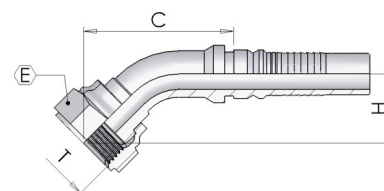
(ORFS)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	E1	Cut-off C
S05TH12-14	3/4	19	12	1.3/16-12	30	30	39
S05TH16-15	1	25.4	16	1.7/16-12	36	36	47
S05TH20-21	1.1/4	31.8	20	1.11/16-12	46	46	50

S150H**ORFS 90° Swept Elbow****(ORFS 90°)**

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
S150H12-14	3/4	19	12	1.3/16-12	36	54	50	
S150H16-15	1	25.4	16	1.7/16-12	41	66	69	
S150H20-21	1.1/4	31.8	20	1.11/16-12	50	80	87	*

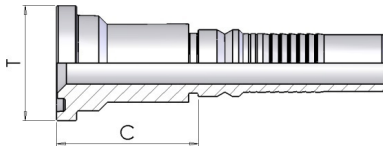
* Slip on nut

S250H**ORFS 45° Swept Elbow****(ORFS 45°)**

Product number	hose I.D.		Dimension					Note
	in	mm	dash size	T	E	drop H	Cut-off C	
S250H12-14	3/4	19	12	1.3/16-12	36	23	84	
S250H16-15	1	25.4	16	1.7/16-12	41	28	77	
S250H20-21	1.1/4	31.8	20	1.11/16-12	50	37	130	*

* Slip on nut

1250H

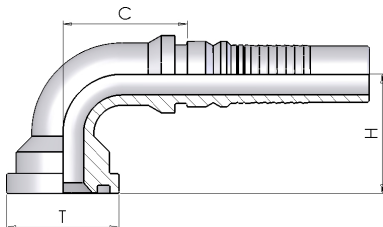


Straight SAE Flange 3000 PSI

(SFL)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
1250H12-12	3/4	19	12	3/4	38.1	47
1250H12-16	3/4	19	12	1	44.5	50
1250H16-16	1	25.4	16	1	44.5	52
1250H20-20	1.1/4	31.8	20	1.1/4	50.8	56
1250H20-24	1.1/4	31.8	20	1.1/2	60.3	59
1250H24-24	1.1/2	38.1	24	1.1/2	60.3	60
1250H32-32	2	50.8	32	2	71.4	67

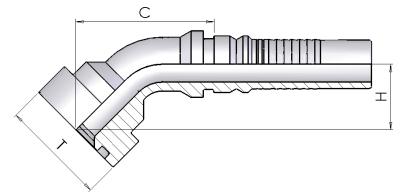
1050H



90° SAE Flange 3000 PSI

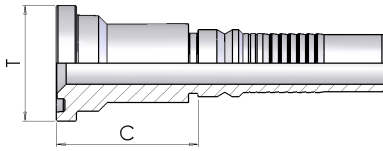
(SFL 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1050H12-12	3/4	19	12	3/4	38.1	52	52
1050H12-16	3/4	19	12	1	44.5	56	55
1050H16-16	1	25.4	16	1	44.5	65	73
1050H20-20	1.1/4	31.8	20	1.1/4	50.8	82	91
1050H24-24	1.1/2	38.1	24	1.1/2	60.3	96	106
1050H32-32	2	50.8	32	2	71.4	113	128

1150H**45° SAE Flange 3000 PSI****(SFL 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1150H12-12	3/4	19	12	3/4	38.1	25	81
1150H12-16	3/4	19	12	1	44.5	28	86
1150H16-16	1	25.4	16	1	44.5	35	107
1150H16-20	1	25.4	16	1.1/4	50.8	37	104
1150H20-20	1.1/4	31.8	20	1.1/4	50.8	37	113
1150H20-24	1.1/4	31.8	20	1.1/2	60.3	40	113
1150H24-24	1.1/2	38.1	24	1.1/2	60.3	44	125
1150H24-32	1.1/2	38.1	24	2	71.4	40	126
1150H32-32	2	50.8	32	2	71.4	50	133

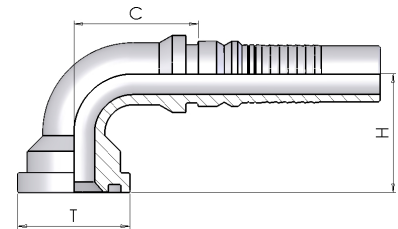
1300H



Straight SAE Flange 6000 PSI

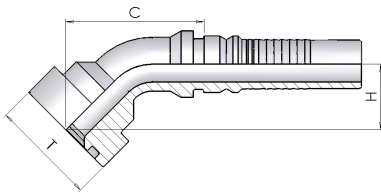
(SFS)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
1300H12-12	3/4	19	12	3/4	41.3	51
1300H12-16	3/4	19	12	1	47.6	57
1300H16-12	1	25.4	16	3/4	41.3	52
1300H16-16	1	25.4	16	1	47.6	59
1300H16-20	1	25.4	16	1.1/4	54	66
1300H20-16	1.1/4	31.8	20	1	47.6	60
1300H20-20	1.1/4	31.8	20	1.1/4	54	67
1300H20-24	1.1/4	31.8	20	1.1/2	63.5	73
1300H24-20	1.1/2	38.1	24	1.1/4	54	75
1300H24-24	1.1/2	38.1	24	1.1/2	63.5	74
1300H24-32	1.1/2	38.1	24	2	79.4	82
1300H32-32	2	50.8	32	2	79.4	84

1100H**90° SAE Flange 6000 PSI****(SFS 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1100H12-12	3/4	19	12	3/4	41.3	55	53
1100H12-16	3/4	19	12	1	47.6	63	52
1100H16-12	1	25.4	16	3/4	41.3	56	61
1100H16-16	1	25.4	16	1	47.6	69	75
1100H16-20	1	25.4	16	1.1/4	54	74	71
1100H20-16	1.1/4	31.8	20	1	47.6	70	82
1100H20-20	1.1/4	31.8	20	1.1/4	54	84,5	93
1100H20-24	1.1/4	31.8	20	1.1/2	63.5	92	94
1100H24-24	1.1/2	38.1	24	1.1/2	63.5	101	114
1100H24-32	1.1/2	38.1	24	2	79.4	115	115
1100H32-32	2	50.8	32	2	79.4	126	136.5

1200H

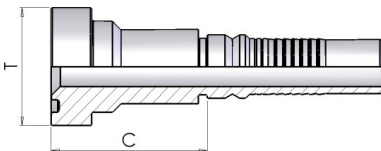


45° SAE Flange 6000 PSI

(SFS 45°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
1200H12-12	3/4	19	12	3/4	41.3	28	85
1200H12-16	3/4	19	12	1	47.6	34	88
1200H16-12	1	25.4	16	3/4	41.3	31	79
1200H16-16	1	25.4	16	1	47.6	31	85
1200H16-20	1	25.4	16	1.1/4	54	40	89
1200H20-16	1.1/4	31.8	20	1	47.6	38	90
1200H20-20	1.1/4	31.8	20	1.1/4	54	41	109
1200H24-24	1.1/2	38.1	24	1.1/2	63.5	50	133
1200H32-32	2	50.8	32	2	79.4	53	132

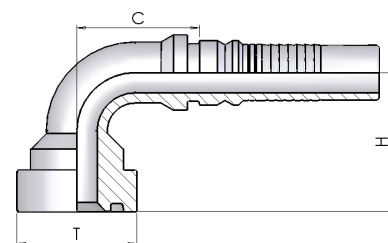
130SH



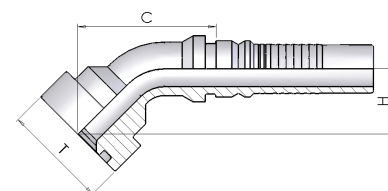
Straight 'CAT' Flange

(SFC)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T Flange	mm	Cut-off C
130SH12-12	3/4	19	12	3/4	41.3	55
130SH12-16	3/4	19	12	1	47.6	62
130SH16-16	1	25.4	16	1	47.6	63
130SH16-20	1	25.4	16	1.1/4	54	70
130SH20-20	1.1/4	31.8	20	1.1/4	54	71
130SH24-24	1.1/2	38.1	24	1.1/2	64	78

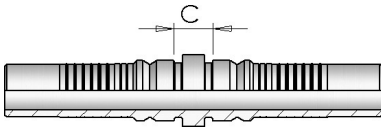
110SH**90° 'CAT' Flange****(SFC 90°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
110SH12-12	3/4	19	12	3/4	41.3	62	51
110SH16-16	1	25.4	16	1	47.6	75	73.2
110SH16-20	1	25.4	16	1.1/4	54	82	74
110SH20-20	1.1/4	31.8	20	1.1/4	54	89	93
110SH24-24	1.1/2	38.1	24	1.1/2	63.5	106	110

120SH**45° 'CAT' Flange****(SFC 45°)**

Product number	hose I.D.		Dimension				
	in	mm	dash size	T Flange	mm	drop H	Cut-off C
120SH12-12	3/4	19	12	3/4	41.3	30	89
120SH16-16	1	25.4	16	1	47.6	38	86
120SH24-24	1.1/2	38.1	24	1.1/2	63.5	52	169

D050H



Hose Junction

Product number	hose I.D.		Dimension	
	in	mm	dash size	Cut-off C
D050H12	3/4	19	12	15
D050H16	1	25.4	16	16
D050H20	1.1/4	31.8	20	19
D050H24	1.1/2	38.1	24	19
D050H32	2	50.8	32	24

Hyblast / Multispiral Tail





00Y4



Swaged Ferrule (skive)

138

00Y6



Swaged Ferrule (skive)

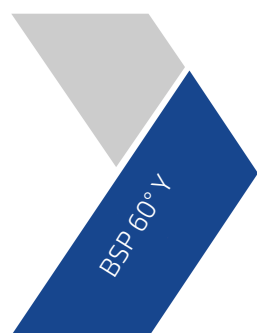
138

0019



Swaged Ferrule (skive)

139



0050Y



BSP Female 60° cone
Thrust Wire

139



0370Y



NPTF Male 60° cone

140



0084Y

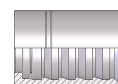


Metric Female 24° Seat
Heavy

140



002M



Swaged Ferrule (skive)

141



0900M



JIC Female 74° - Thrust
Wire Nut

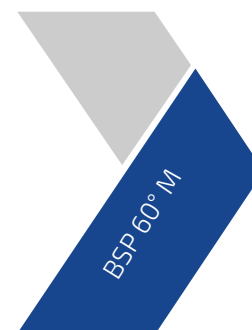
141

0950M



JIC 90° Swept Elbow 74°
Cone - Thrust Wire

142



0050M



BSP Female 60° cone
Thrust Wire

142

0150M



BSP 90° Swept Elbow 60°
cone Thrust Wire

142



0370M



NPTF Male 60° cone

143



0084M



Metric Female 24° Seat
Heavy

143

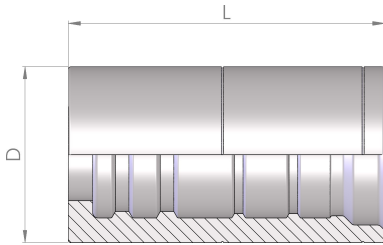
0184M



90° Metric Swept Elbow
24° Seat Heavy

143

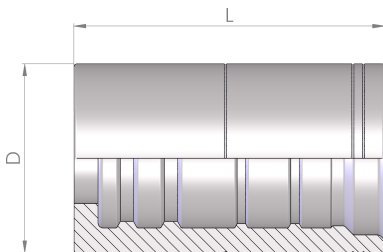
00Y4



Swaged Ferrule (skive)

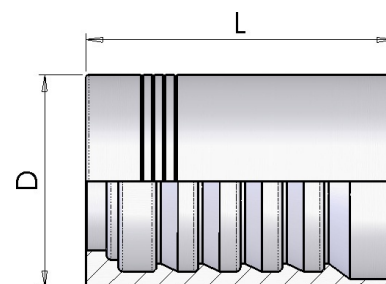
Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
00Y4-06	3/8	9.5	32.5	58.5	50/22	HB 12k/15k/18k
00Y4-08	1/2	12.7	36.5	62	52/23	HB 12k/15k/18k
00Y4-12	3/4	19	43.8	69	56/25	HB 12k/15k
00Y4-16	1	25.4	51.9	78.5	68/30	HB 10k

00Y6

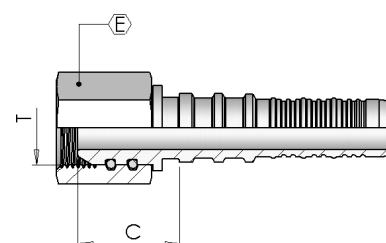


Swaged Ferrule (skive)

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
00Y6-06	3/8	9.5	35.5	58.5	50/22	HB 20k
00Y6-08	1/2	12.7	39.8	62	52/23	HB 20k
00Y6-12	3/4	19	47	69	56/25	HB 20k
00Y6-16	1	25.4	54.9	78.5	68/30	HB 12k

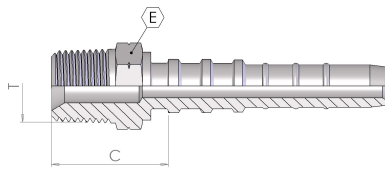
0019**Swaged Ferrule (skive)**

Product number	hose I.D.		Dimension		skive	valid for
	in	mm	D	L	Length	-
0019-04	1/4	6.4	21	40	30	WB-VHP-4SP-4SH

0050Y**BSP Female 60° cone Thrust Wire**

Product number	hose I.D.		Dimension				Max WP
	in	mm	dash size	T	E	Cut-off C	bar
0050Y06-06	3/8	9.5	06	3/8-19	25	28	1250
0050Y08-08	1/2	12.7	08	1/2-14	30	33	1100
0050Y12-12	3/4	19	12	3/4-14	32	33	850
0050Y16-16	1	25.4	16	1-11	38	40	700

0370Y

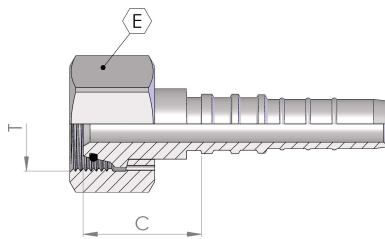


NPTF Male 60° cone

(AGN)

Product number	hose I.D.		Dimension				Max WP
	in	mm	dash size	T	E	Cut-off C	bar
0370Y06-06	3/8	9.5	06	3/8-18	19	29	1100
0370Y08-08	1/2	12.7	08	1/2-14	22	35	1100
0370Y12-12	3/4	19	12	3/4-14	27	37	850
0370Y16-16	1	25.4	16	1-11.1/2	38	49	700

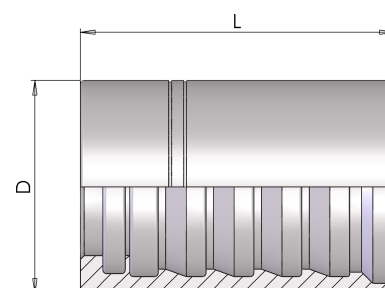
0084Y



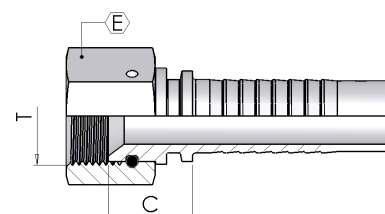
Metric Female 24° Seat Heavy

(DKOS)

Product number	hose I.D.		Dimension					Max WP
	in	mm	dash size	T	erm.	E	Cut-off C	bar
0084Y06-22	3/8	9.5	06	M22-1.5	14	30	38	1450
0084Y06-24	3/8	9.5	06	M24-1.5	16	32	39	1450
0084Y08-24	1/2	12.7	08	M24-1.5	16	34	39	1450
0084Y12-36	3/4	19	12	M36-2	25	46	45	1450

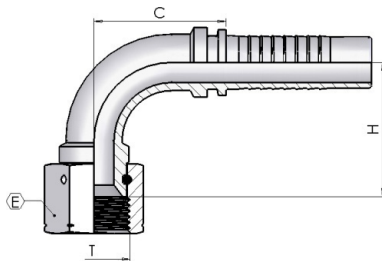
002M**Swaged Ferrule (skive)**

Product number	hose I.D.		Dimension		skive
	in	mm	D	L	Length
002M-04	1/4	6.4	19.6	38	29
002M-06	3/8	9.5	24	40	31

0900M**JIC Female 74° - Thrust Wire Nut****(DKJ)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0900M04-04	1/4	6.4	04	7/16-20	17	16
0900M06-06	3/8	9.5	06	9/16-18	19	18
0900M06-08	3/8	9.5	06	3/4-16	24	20

0950M

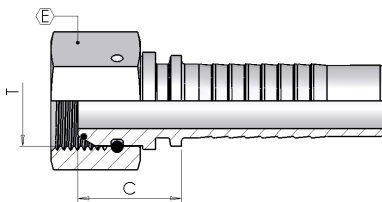


JIC 90° Swept Elbow 74° Cone - Thrust Wire

(DKJ 90°)

Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0950M04-04	1/4	6.4	04	7/16-20	17	26	26
0950M06-06	3/8	9.5	06	9/16-18	19	33	35
0950M06-08	3/8	9.5	06	3/4-16	24	34	35

0050M

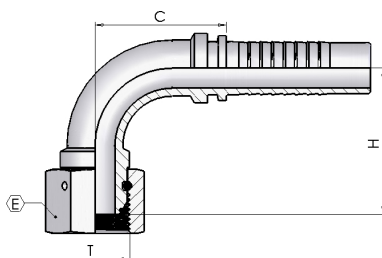


BSP Female 60° cone Thrust Wire

(DKR)

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0050M04-04	1/4	6.4	04	1/4-19	19	20

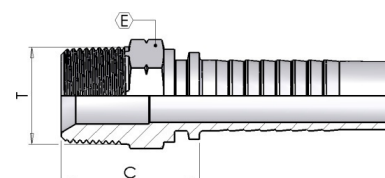
0150M



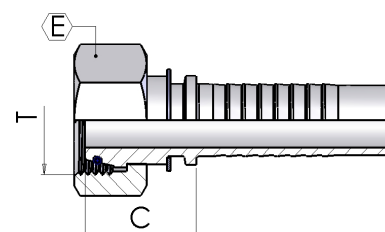
BSP 90° Swept Elbow 60° cone Thrust Wire

(DKR 90°)

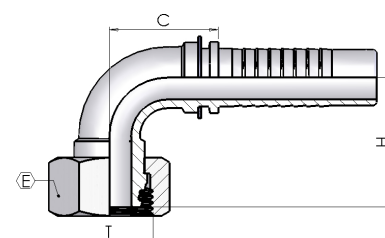
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
0150M04-04	1/4	6.4	04	1/4-19	19	28	26

0370M**NPTF Male 60° cone****(AGN)**

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
0370M04-04	1/4	6.4	04	1/4-18	29	29
0370M06-06	3/8	9.5	06	3/8-19	29	29

0084M**Metric Female 24° Seat Heavy****(DKOS)**

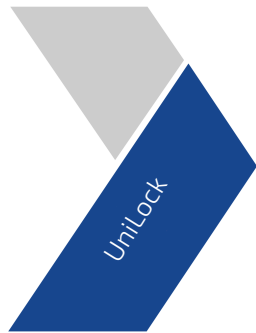
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	erm.	E	Cut-off C
0084M04-16	1/4	6.4	04	M16-1.5	8	19	27
0084M04-18	1/4	6.5	04	M18-1.5	10	22	24

0184M**90° Metric Swept Elbow 24° Seat Heavy****(DKOS 90°)**

Product number	hose I.D.		Dimension					
	in	mm	dash size	T	erm.	E	drop H	Cut-off C
0184M04-16	1/4	6.4	04	M16-1.5	8	19	26	28
0184M04-18	1/4	6.4	04	M18-1.5	10		31	33

Low Pressure Fittings





P050



BSP Female 60° cone - UniLock

146

P150



BSP 90° Swept elbow 60° cone - UniLock

146

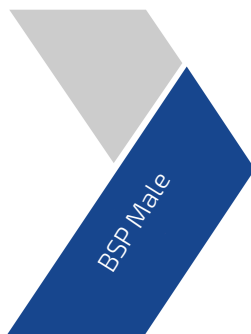


BA



Steel ferrule

147



0345B



BSP Male - Flat Seat

148

0350B



BSP Male Parallel 60° cone

149



0051B



BSP Female 60° Cone

150

0151B



BSP 90° Swept Elbow 60° Cone

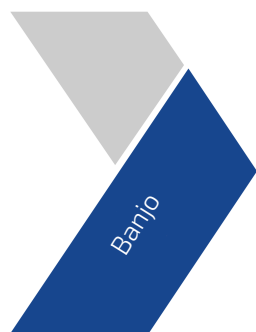
151

0251B



BSP 45° Swept Elbow 60° Cone

152



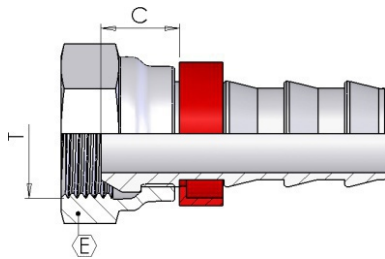
1350B



Metric Banjo

153

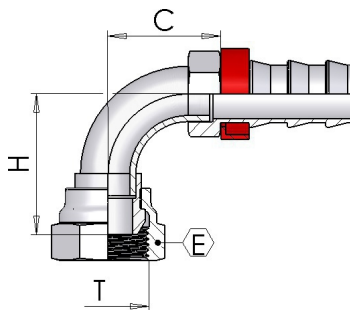
P050



BSP Female 60° cone - UniLock

Product number	hose I.D.		Dimension			
	in	mm	dash size	T	E	Cut-off C
P050-04-04	1/4	6.4	04	1/4-19	17	10
P050-06-06	3/8	9.5	06	3/8-19	19	10
P050-08-08	1/2	12.7	08	1/2-14	27	13
P050-12-12	3/4	19	12	3/4-14	32	16
P050-16-16	1	25.4	16	1-11	38	15

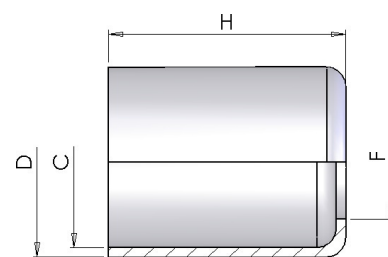
P150



BSP 90° Swept elbow 60° cone - UniLock

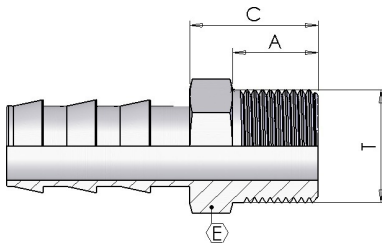
Product number	hose I.D.		Dimension				
	in	mm	dash size	T	E	drop H	Cut-off C
P150-04-04	1/4	6.4	04	1/4-19	17	23	21
P150-06-06	3/8	9.5	06	3/8-19	19	29	31
P150-08-08	1/2	12.7	08	1/2-14	27	36	38
P150-12-12	3/4	19	12	3/4-14	32	65	54
P150-16-16	1	25.4	16	1-11	38	55	44

Steel ferrule



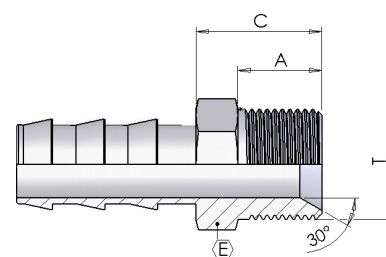
Product number	Dimension			
	D	C	F	H
BA-021-024	24	21	16	31
BA-024-027	27	24	18	31
BA-027-030	30	27	20	34
BA-029-032	32	29	21	35
BA-035-038	38	35	27	36
BA-037-040	40	37	28	38
BA-039-042	42	39	29	40
BA-046-050	50	46	34	46
BA-085-090	90	85	68	63
BA-095-100	100	95	78	68

0345B



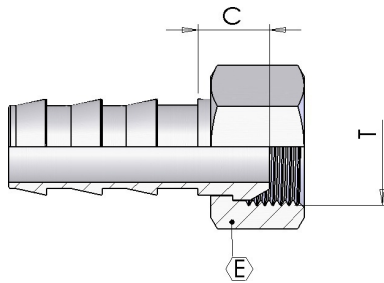
BSP Male - Flat Seat

Product number	hose I.D.		Dimension				
	in	mm	DN	T	A	E	Cut-off C
0345B04-02	1/4	6.4	06	1/8-18	10	14	16
0345B04-04	1/4	6.4	06	1/4-19	10	14	16
0345B05-04	5/16	7.9	08	1/4-19	10	14	16
0345B05-06	5/16	7.9	08	3/8-19	12	17	19
0345B06-04	3/8	9.5	10	1/4-19	10	17	16
0345B06-06	3/8	9.5	10	3/8-19	12	17	19
0345B06-08	3/8	9.5	10	1/2-14	13	22	21
0345B08-06	1/2	12.7	13	3/8-19	12	19	19
0345B08-08	1/2	12.7	13	1/2-14	13	22	21
0345B10-06	5/8	15.9	16	3/8-19	12	19	19
0345B10-08	5/8	15.9	16	1/2-14	13	22	21
0345B10-12	5/8	15.9	16	3/4-14	15	27	21
0345B12-08	3/4	19	19	1/2-14	13	24	21
0345B12-12	3/4	19	19	3/4-14	15	27	23
0345B12-16	3/4	19	19	1-11	16	34	25
0345B16-12	1	25.4	25	3/4-14	15	30	23
0345B16-16	1	25.4	25	1-11	16	34	25
0345B20-12	1.1/4	31.8	32	3/4-14	15	34	23
0345B20-16	1.1/4	31.8	32	1-11	16	36	26
0345B20-20	1.1/4	31.8	32	1.1/4-11	17	42	27
0345B24-20	1.1/2	38.1	38	1.1/4-11	17	42	27
0345B24-24	1.1/2	38.1	38	1.1/2-11	18	50	29
0345B32-32	2	50.8	50	2-11	19	60	31
0345B40-40	2.1/2	63.5	70	2.1/2-11	23	75	36

0350B**BSP Male Parallel 60° cone**

Product number	hose I.D.		Dimension				
	in	mm	DN	T	A	E	Cut-off C
0350B04-02	1/4	6.4	06	1/8-28	9	14	14
0350B04-04	1/4	6.4	06	1/4-19	10	19	16
0350B05-04	5/16	7.9	08	1/4-19	10	19	16
0350B06-04	3/8	9.5	10	1/4-19	10	19	16
0350B06-06	3/8	9.5	10	3/8-19	12	22	18

0051B

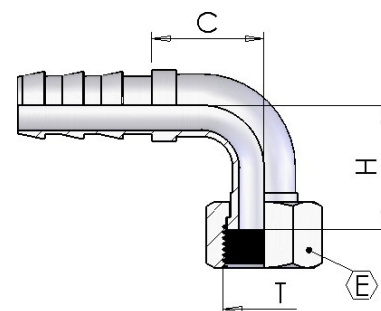


BSP Female 60° Cone

Product number	hose I.D.		Dimension			
	in	mm	DN	T	E	Cut-off C
0051B03-02	3/16	4.8	05	1/8-28	14	9
0051B04-02	1/4	6.4	06	1/8-28	14	9
0051B04-04	1/4	6.4	06	1/4-19	17	10
0051B05-04	5/16	7.9	08	1/4-19	17	10
0051B05-06	5/16	7.9	08	3/8-19	19	11
0051B06-06	3/8	9.5	10	3/8-19	19	11
0051B06-08	3/8	9.5	10	1/2-14	24	12
0051B08-06	1/2	12.7	13	3/8-19	19	11
0051B08-08	1/2	12.7	13	1/2-14	24	12
0051B10-08	5/8	15.9	16	1/2-14	24	12
0051B10-12	5/8	15.9	16	3/4-14	30	14
0051B12-12	3/4	19	19	3/4-14	30	14
0051B12-16	3/4	19	19	1-11	38	15
0051B16-16	1	25.4	25	1-11	38	16
0051B20-20	1.1/4	31.8	32	1.1/4-11	46	16
0051B20-24	1.1/4	31.8	32	1.1/2-11	55	18
0051B24-24	1.1/2	38.1	38	1.1/2-11	55	18
0051B32-32	2	50.8	50	2-11	65	19
0051B40-40	2.1/2	63.5	60	2.1/2-11	85	24
0051B48-48	3	76.2	70	3-11	100	26

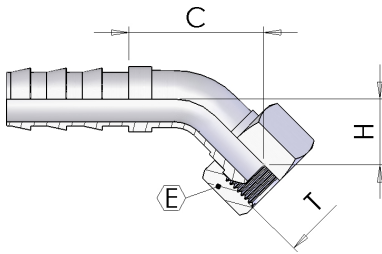
0151B

BSP 90° Swept Elbow 60° Cone



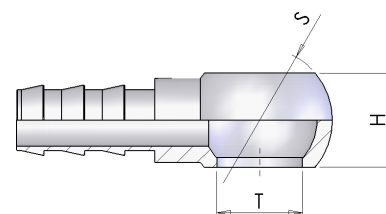
Product number	hose I.D.		Dimension				
	in	mm	DN	T	E	drop H	Cut-off C
0151B04-04	1/4	6.4	06	1/4-19	17	25	28
0151B05-04	5/16	7.9	08	1/4-19	17	25	28
0151B05-06	5/16	7.9	08	3/8-19	19	32	32
0151B06-06	3/8	9.5	10	3/8-19	19	33	33
0151B06-08	3/8	9.5	10	1/2-14	24	35	38
0151B08-06	1/2	12.7	13	3/8-19	19	35	38
0151B08-08	1/2	12.7	13	1/2-14	24	41	43
0151B08-12	1/2	12.7	13	3/4-14	30	45	40
0151B10-08	5/8	15.9	16	1/2-14	24	41	44
0151B10-12	5/8	15.9	16	3/4-14	30	45	40
0151B12-12	3/4	19	19	3/4-14	30	49	51
0151B12-16	3/4	19	19	1-11	38	49	45
0151B16-12	1	25.4	25	3/4-14	32	57	45
0151B16-16	1	25.4	25	1-11	38	58	60
0151B16-20	1	25.4	25	1.1/4-11	46	64	56
0151B20-20	1.1/4	31.8	32	1.1/4-11	46	66	70
0151B24-24	1.1/2	38.1	38	1.1/2-11	55	75	70
0151B32-32	2	50.8	50	2-11	65	70	66
0151B40-40	2.1/2	63.5	60	2.1/2-11	85	85	82

0251B



BSP 45° Swept Elbow 60° Cone

Product number	hose I.D.		Dimension				
	in	mm	DN	T	E	drop H	Cut-off C
0251B04-04	1/4	6.4	06	1/4-19	17	17	44
0251B05-06	5/16	7.9	08	3/8-19	19	19	50
0251B06-06	3/8	9.5	10	3/8-19	19	20	52
0251B06-08	3/8	9.5	10	1/2-14	24	23	54
0251B08-06	1/2	12.7	13	3/8-19	19	23	54
0251B08-08	1/2	12.7	13	1/2-14	24	25	60
0251B10-12	5/8	15.9	16	3/4-14	30	28	65
0251B12-12	3/4	19	19	3/4-14	30	28	65
0251B12-16	3/4	19	19	1-11	38	30	55
0251B16-16	1	25.4	25	1-11	38	30	74
0251B20-20	1.1/4	31.8	32	1.1/4-11	46	35	72
0251B24-24	1.1/2	38.1	38	1.1/2-11	55	35	72
0251B32-32	2	50.8	50	2-11	65	50	90

1350B**Metric Banjo**

Product number	hose I.D.		Dimension			
	in	mm	DN	hole T	H	S
1350B04-10	1/4	6.4	06	M10-1	11	17
1350B04-12	1/4	6.4	06	M12-1,5	12	20
1350B04-14	1/4	6.4	06	M14-1,5	14	24
1350B05-12	5/16	7.9	08	M12-1,5	12	20
1350B05-14	5/16	7.9	08	M14-1,5	14	24
1350B05-16	5/16	7.9	08	M16-1,5	19	28
1350B06-16	3/8	9.5	10	M16-1,5	19	28
1350B06-18	3/8	9.5	10	M18-1,5	20	32
1350B08-18	1/2	12.7	13	M18-1,5	20	32
1350B08-22	1/2	12.7	13	M22-1,5	23	36
1350B10-18	5/8	15.9	16	M18-1,5	20	32

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0002	15	0250H	121
0003	19	0250N 0251N	94
0007	18	0251	28
0008	19	0251B	152
0009	16	0258	28
0013	118	0284	50
0019	139	0284H	125
001C	11	0284N	103
001L	12	0285	46
0022	12	0285N	101
002M	141	0345	21
0030	78	0345B	148
0035	54	0350	23
003C	11	0350B	149
0041	30	0350H	120
0042	117	0350N	91
0048	30	035G	24
004H	16	0360	33
004N	117	0370	34
0050	25	0370H	119
0050H	120	0370M	143
0050M	142	0370N	91
0050N 0051N	92	0370Y	140
0050Y	139	037G	35
0051	25	0385	42
0051B	150	0400	56
0051D	26	0450	47
0058	25	0450H	124
0060	22	0450N	101
0084	48	0500	43
0084H	124	0500N	99
0084M	143	0550	51
0084N	102	0650	52
0084Y	140	0650S	52
0085	44	0750	53
0085N	100	0750S	53
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00J6	119	0850H	122
00Y4	138	0850N	95
00Y6	138	0900	37
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012C	13	0900M	141
012N	13	0900N 0901N	96
0135	55	0901	37
0141	31	0901D	38
0148	31	0902	37
0150	27	0920	77
0150H	121	0930	76
0150M	142	0940	75
0150N 0151N	93	0950	39
0151	27	0950H	123
0151B	151	0950M	142
0158	27	0950N 0951N	97
0184	49	0951	39
0184H	125	0952	39
0184M	143	095S	41
0184N	102	095SN	97
0185	45	0980S	77
0185N	100	0990S	76
0200	58	0NI4	90
0241	32	0NI6	90
0248	32	0SI4	17

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1001	40	S150	62
1002	40	S150H	127
1050	74	S150N	106
1050H	128	S155	63
1050N	107	S155N	105
1060	66	S250	64
1100H	131	S250H	127
1100N	109	S250N	105
110S	73	S350	59
110SH	133	S350H	126
110SN	111	S350N	104
1110	70		
1150	74		
1150H	129		
1150N	108		
1160	67		
1200H	132		
1200N	110		
120S	73		
120SH	133		
120SN	112		
1210	71		
1250	74		
1250H	128		
1250N	107		
1260	65		
1300H	130		
1300N	108		
130S	72		
130SH	132		
130SN	110		
1310	69		
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