



**FLUID CONNECTORS FOR HYDRAULIC**  
**A COMPLETE PRODUCT RANGE OF FITTINGS**



**HYDRAULIC FITTINGS**



# FITTINGS INDEX

FITTING CODE	PAGE
000820-000830	2
000910-000920-000930	2
003400	3
010710	4
010510	5
020512 - 020513	6
020542 - 020543	7
020592 - 020593	8
020812	9
020842	10
020892	11
012510	12
022512 - 022513	13
022712	14
022542 - 022543	15
022592 - 022593	16
024792	17
012410	18
022411	19
022441 - 022443	20
022491 - 022493	21
024491	22
012810	23
023311	24
023321	25
023331	26
023341	27
023361	28
023371	29
023391	30
023391 Long Drop	31
023301P	32
023301S	32
023301T	33
023611	33
023641	34
023691	35
011110	36
021512 - 021513	37
021542 - 021543	38
021592 - 021593	39
011210	40
021612 - 021613	41
021642 - 021643	42
021692 - 021693	43
024011 - 024012	44
024091	44
023811	45
024111	46
024141	46
024191	46
023911	47

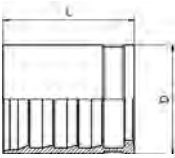
FITTING CODE	PAGE
023941	47
023991	48
020310	48
020910	49
021212 - 021213	49
001500	50
001600	50
001800-001810	51
040812	51
040842	52
040892	52
042512	53
042542	53
042592	54
042411	54
042441	55
042491	55
044492 Long Drop	56
032810	56
043310	57
043320	57
043330	58
43340	58
043390	59
043610	60
043630	61
043640	61
043660	62
043690	63
043690 Long Drop	63
041612 - 041613	64
041642 - 041643	64
041692 - 041693	65
043910	65
043920	66
043930	66
043940	67
043960	67
043970	68
043990	68
043990 Long Drop	69
048510	69
048540	70
048590	70
083308	71
083609	71
083607	72
088507	72
L012510	73
L012810	73
L022513	74
L022593	74

# BRAIDFIT TYPE

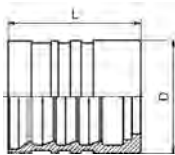
FERRULE

000820/000830

NO-SKIVE FERRULE FOR COMPACT HOSES



PART. REF.	HOSE BORE			DIMENSIONS (mm)							
	DN	Dash	Inch			D	L				
000820-03	5	-3	3/16"			14	26,4				
000830-04	6	-4	1/4"			18	29,6				
000830-05	8	-5	5/16"			19	31,9				
000820-06	10	-6	3/8"			22	32,9				
000820-08	12	-8	1/2"			26	33,9				
000820-10	16	-10	5/8"			29	35,9				
000820-12	19	-12	3/4"			33	41,7				
000820-16	25	-16	1"			41	49,7				
000820-20	31	-20	1.1/4"			48	57				
000820-24	38	-24	1.1/2"			55,5	66				
000820-32	51	-32	2"			68,6	70				



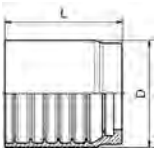
FERRULE

000910/000920/000930

SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES

PART. REF.	HOSE BORE			DIMENSIONS (mm)							
	DN	Dash	Inch			D	L				
000910-03	5	-3	3/16"			20,6	26				
000910-04	6	-4	1/4"			22	30				
000910-05	8	-5	5/16"			24	31				
000910-06	10	-6	3/8"			26	33				
000910-08	12	-8	1/2"			30	34				
000910-10	16	-10	5/8"			33	39				
000920-12	19	-12	3/4"			38	40				
000930-16	25	-16	1"			46	54				
000920-20	31	-20	1.1/4"			57	60				
000910-24	38	-24	1.1/2"			65	70				
000910-32	51	-32	2"			79	72				

# BRAIDFIT TYPE



FERRULE

003400

NO-SKIVE FERRULE FOR WIRE BRAID HOSES

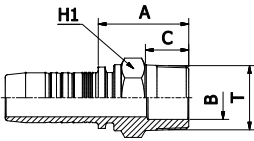
PART. REF.	HOSE BORE			DIMENSIONS (mm)								
	DN	Dash	Inch			D	L					
003400-03	5	-3	3/16"			21	23					
003400-04	6	-4	1/4"			23	30,1					
003400-05	8	-5	5/16"			24	30					
003400-06	10	-6	3/8"			26	31,1					
003400-08	12	-8	1/2"			29	34					
003400-10	16	-10	5/8"			33	37					
003400-12	19	-12	3/4"			37	42					
003400-16	25	-16	1"			46	50,7					
003400-20	31	-20	1.1/4"			59	57,2					
003400-24	38	-24	1.1/2"			67	64,8					
003400-32	51	-32	2"			80	68,3					
003400-38	60	-38	2.3/8"			82,5	69					
003400-40	63	40	2.1/2"			88,2	68,8					
003400-48	76	-48	3"			103	75					
003400-56	89	-56	3.1/2"			123,4	91					

# BRAIDFIT TYPE

BS STANDARD CONNECTIONS

010710

BSP MALE TAPERED - ISO 7



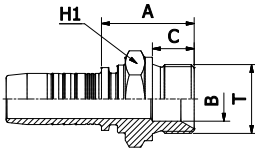
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H1			
010710-03-02	5	-3	3/16"	1/8" - 28	4,5	20,5	8	12				
010710-03-04	5	-3	3/16"	1/4" - 19	4,5	24,5	12	14				
010710-04-02	6	-4	1/4"	1/8" - 28	4,5	21	8	12				
010710-04-04	6	-4	1/4"	1/4" - 19	4,5	25	12	14				
010710-04-06	6	-4	1/4"	3/8" - 19	7	26	12	19				
010710-04-08	6	-4	1/4"	1/2" - 14	10	29,5	15	22				
010710-05-04	8	-5	5/16"	1/4" - 19	5,5	25	12	14				
010710-05-06	8	-5	5/16"	3/8" - 19	7	26,5	12	19				
010710-05-08	8	-5	5/16"	1/2" - 14	10	30	15	22				
010710-06-06	10	-6	3/8"	3/8" - 19	7	27	12	19				
010710-06-08	10	-6	3/8"	1/2" - 14	10	30,5	15	22				
010710-08-04	12	-8	1/2"	1/4" - 19	4,5	26	12	19				
010710-08-08	12	-8	1/2"	1/2" - 14	10	31	15	22				
010710-10-08	16	-10	5/8"	1/2" - 14	10	31	15	22				
010710-10-12	16	-10	5/8"	3/4" - 14	17	34	17	27				
010710-12-12	19	-12	3/4"	3/4" - 14	17	35,5	17	27				
010710-16-12	25	-16	1"	3/4" - 14	17	38	17	32				
010710-16-16	25	-16	1"	1" - 11	22,5	42	21	36				
010710-20-20	31	-20	1.1/4"	1.1/4" - 11	28,5	47,5	23	46				
010710-24-24	38	-24	1.1/2"	1.1/2" - 11	32	50	23	50				
010710-32-32	51	-32	2"	2" - 11	44	55,5	27	65				

# BRAIDFIT TYPE

BS STANDARD CONNECTIONS

010510

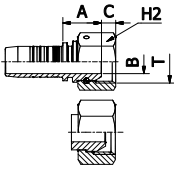
BSP MALE PARALLEL 60° CONE SEAT - BS 5200  
ISO 8434-6



PART. REF.	HOSE BORE		Thread	DIMENSIONS (mm)							
------------	-----------	--	--------	-----------------	--	--	--	--	--	--	--

	DN	Dash	inch	T		B	A	C	H1			
010510-03-02	5	-3	3/16"	1/8"-28		3,5	22,5	10	14			
010510-03-04	5	-3	3/16"	1/4"-19		5	25	11	19			
010510-04-02	6	-4	1/4"	1/8"-28		3,5	22,5	10	14			
010510-04-04	6	-4	1/4"	1/4"-19		5	25,5	11	19			
010510-04-06	6	-4	1/4"	3/8"-19		8	27	12	22			
010510-04-08	6	-4	1/4"	1/2"-14		11	30	14	27			
010510-05-04	8	-5	5/16"	1/4"-19		5	26	11	19			
010510-05-06	8	-5	5/16"	3/8"-19		8	27,5	12	22			
010510-06-04	10	-6	3/8"	1/4"-19		5	26	11	19			
010510-06-06	10	-6	3/8"	3/8"-19		8	28	12	22			
010510-06-08	10	-6	3/8"	1/2"-14		11	30,5	14	27			
010510-08-06	12	-8	1/2"	3/8"-19		8	28	12	22			
010510-08-08	12	-8	1/2"	1/2"-14		11	31	14	27			
010510-08-10	12	-8	1/2"	5/8"-14		14,5	33	16	30			
010510-08-12	12	-8	1/2"	3/4"-14		17	34	16	32			
010510-10-10	16	-10	5/8"	5/8"-14		14,5	33	16	30			
010510-10-12	16	-10	5/8"	3/4"-14		17	35,5	16	32			
010510-12-08	19	-12	3/4"	1/2"-14		11	32	14	27			
010510-12-12	19	-12	3/4"	3/4"-14		17	35,5	16	32			
010510-12-16	19	-12	3/4"	1" -11		22,5	39,5	19	41			
010510-16-12	25	-16	1"	3/4"-14		17	36,5	16	32			
010510-16-16	25	-16	1"	1" -11		22,5	41	19	41			
010510-16-20	25	-16	1"	1.1/4" -11		28,5	45	20	50			
010510-20-20	31	-20	1.1/4"	1.1/4" -11		28,5	46,5	20	50			
010510-20-24	31	-20	1.1/4"	1.1/2" -11		33,5	48,5	22	55			
010510-24-24	38	-24	1.1/2"	1.1/2" -11		33,5	49,5	22	55			
010510-32-32	51	-32	2"	2" -11		46	54	25	70			

# BRAIDFIT TYPE



BS STANDARD CONNECTIONS

## 020512/020513

BSP FEMALE 60° CONE - BS 5200  
ISO 12151-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H2			
020512-03-02	5	-3	3/16"	1/8" - 28		3	16	4,4	14			
020513-03-04	5	-3	3/16"	1/4" - 19		4	16,5	5,4	19			
020512-04-02	6	-4	1/4"	1/8" - 28		3,1	16,5	4,4	14			
020513-04-04	6	-4	1/4"	1/4" - 19		4	17	5,4	19			
020513-04-06	6	-4	1/4"	3/8" - 19		7	19	6	22			
020513-04-08	6	-4	1/4"	1/2" - 14		9,5	19,5	6,3	27			
020512-05-04	8	-5	5/16"	1/4" - 19		4,1	17,5	4,2	19			
020513-05-06	8	-5	5/16"	3/8" - 19		7	19	6	22			
020513-05-08	8	-5	5/16"	1/2" - 14		9,3	20,5	6,3	27			
020512-06-04	10	-6	3/8"	1/4" - 19		4,1	18	4,2	19			
020513-06-06	10	-6	3/8"	3/8" - 19		7	19,5	6	22			
020513-06-08	10	-6	3/8"	1/2" - 14		9,3	20	6,3	27			
020512-08-06	12	-8	1/2"	3/8" - 19		7,1	21	6	22			
020513-08-08	12	-8	1/2"	1/2" - 14		9,3	20,5	6,3	27			
020512-08-10	12	-8	1/2"	5/8" - 14		12,1	22	10,2	28			
020512-08-12	12	-8	1/2"	3/4" - 14		15	24,5	9	32			
020512-10-08	16	-10	5/8"	1/2" - 14		9,8	24	6,5	27			
020512-10-10	16	-10	5/8"	5/8" - 14		12,5	21,5	10,2	28			
020512-10-12	16	-10	5/8"	3/4" - 14		15	23	9	32			
020512-12-08	19	-12	3/4"	1/2" - 14		9,8	25	6,5	27			
020512-12-12	19	-12	3/4"	3/4" - 14		15	24,5	9	32			
020512-12-16	19	-12	3/4"	1" - 11		19,8	26	10,5	38			
020512-16-12	25	-16	1"	3/4" - 14		15	25,5	9	32			
020512-16-16	25	-16	1"	1" - 11		19,8	27,5	10,5	38			

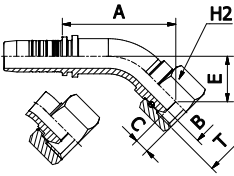


# BRAIDFIT TYPE

BS STANDARD CONNECTIONS

020542/020543

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS 5200  
ISO 12151-6



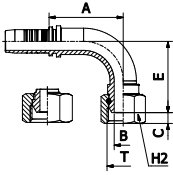
PART. REF.		HOSE BORE		Thread	DIMENSIONS (mm)						
	DN	Dash	inch	T	B	A	C	E	H2		
020542-03-02	5	-3	3/16"	1/8" - 28	3	31	4,4	15	14		
020543-03-04	5	-3	3/16"	1/4" - 19	4	35,5	5,4	14,5	19		
020542-04-02	6	-4	1/4"	1/8" - 28	3,1	35,5	4,4	14,5	14		
020543-04-04	6	-4	1/4"	1/4" - 19	4	36	5,4	15	19		
020543-04-06	6	-4	1/4"	3/8" - 19	7	37,5	6	16	22		
020542-05-04	8	-5	5/16"	1/4" - 19	4	35,5	4,1	16	19		
020543-05-06	8	-5	5/16"	3/8" - 19	7	38	6	13,5	22		
020543-06-06	10	-6	3/8"	3/8" - 19	7	42	6	15,5	22		
020543-06-08	10	-6	3/8"	1/2" - 14	9,3	42,5	6,3	16	27		
020542-08-06	12	-8	1/2"	3/8" - 19	7,1	52	6	20	22		
020543-08-08	12	-8	1/2"	1/2" - 14	9,3	49,5	6,3	17	27		
020542-08-10	12	-8	1/2"	5/8" - 14	12,1	54,5	10,2	22,5	28		
020542-08-12	12	-8	1/2"	3/4" - 14	15	57	9	25	32		
020542-10-08	16	-10	5/8"	1/2" - 14	9,3	63,5	6,5	26,5	27		
020542-10-10	16	-10	5/8"	5/8" - 14	12,5	63	10,2	26	28		
020542-10-12	16	-10	5/8"	3/4" - 14	15	64	9	27	32		
020542-12-08	19	-12	3/4"	1/2" - 14	9,3	55,5	6,5	22,5	27		
020542-12-12	19	-12	3/4"	3/4" - 14	15	70,5	9	28,5	32		
020542-12-16	19	-12	3/4"	1" - 11	19,8	72,5	10,5	30	38		
020542-16-16	25	-16	1"	1" - 11	19,8	91	10,5	36,5	38		

# BRAIDFIT TYPE

BS STANDARD CONNECTIONS

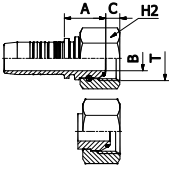
020592/020593

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS 5200  
ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
020592-03-02	5	-3	3/16"	1/8" - 28	3	21,5	4,4	26	14		
020592-03-04	5	-3	3/16"	1/4" - 19	4	29	5,4	29	19		
020592-04-02	6	-4	1/4"	1/8" - 28	3,1	28,5	4,4	27	14		
020593-04-04	6	-4	1/4"	1/4" - 19	4	29,5	5,4	29	19		
020593-04-06	6	-4	1/4"	3/8" - 19	7	29,5	6	31	22		
020592-05-04	8	-5	5/16"	1/4" - 19	4	26,5	4,1	29,5	19		
020593-05-06	8	-5	5/16"	3/8" - 19	7	32	6	27,5	22		
020593-05-08	8	-5	5/16"	1/2" - 14	9,3	36,5	6,3	32	27		
020592-06-04	10	-6	3/8"	1/4" - 19	4	27	4,1	29,5	19		
020593-06-06	10	-6	3/8"	3/8" - 19	7	36,5	6	31,5	22		
020593-06-08	10	-6	3/8"	1/2" - 14	9,3	36,5	6,3	32	27		
020592-08-06	12	-8	1/2"	3/8" - 19	7,1	45	6	41	22		
020593-08-08	12	-8	1/2"	1/2" - 14	9,3	45	6,3	36,5	27		
020592-08-10	12	-8	1/2"	5/8" - 14	12,1	44	10,2	44	28		
020592-08-12	12	-8	1/2"	3/4" - 14	15	44	9	45,5	32		
020592-10-08	16	-10	5/8"	1/2" - 14	9,3	53,5	6,5	54,5	27		
020592-10-10	16	-10	5/8"	5/8" - 14	12,5	53,5	10,2	53,5	28		
020592-10-12	16	-10	5/8"	3/4" - 14	15	53,5	9	55	32		
020592-12-08	19	-12	3/4"	1/2" - 14	9,3	45,5	6,5	44	27		
020592-12-12	19	-12	3/4"	3/4" - 14	15	61,5	9	59,5	32		
020592-12-16	19	-12	3/4"	1" - 11	19,8	61,5	10,5	62	38		
020592-16-12	25	-16	1"	3/4" - 14	15	64,5	9	59,5	32		
020592-16-16	25	-16	1"	1" - 11	19,8	79,5	10,5	76	38		

# BRAIDFIT TYPE



BS STANDARD CONNECTIONS

## 020812/020813

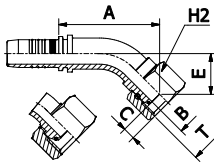
BSP O-RING FEMALE 60° CONE - BS 5200  
ISO 12151-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H2			
020813-03-04	5	-3	3/16"	1/4" - 19	4	16,5	5,4	19				
020813-04-04	6	-4	1/4"	1/4" - 19	4	17	5,4	19				
020813-04-06	6	-4	1/4"	3/8" - 19	7	19	6	22				
020812-06-04	10	-6	3/8"	1/4" - 19	4,1	18	4,1	19				
020813-06-06	10	-6	3/8"	3/8" - 19	7	19,5	6	22				
020813-06-08	10	-6	3/8"	1/2" - 14	9,3	21	6,3	27				
020813-08-08	12	-8	1/2"	1/2" - 14	9,3	20,5	6,3	27				
020812-10-10	16	-10	5/8"	5/8" - 14	12,5	22	9,7	28				
020812-12-12	19	-12	3/4"	3/4" - 14	15	25	8,5	32				
020812-16-12	25	-16	1"	3/4" - 14	15	26	8,5	32				
020812-16-16	25	-16	1"	1" - 11	19,8	27,5	10,6	38				
020812-16-20	25	-16	1"	1.1/4" - 11	26,1	31	10,5	50				
020812-20-16	31	-20	1.1/4"	1" - 11	19,8	29	10,5	38				
020812-20-20	31	-20	1.1/4"	1.1/4" - 11	26	31,5	10,5	50				
020812-20-24	31	-20	1.1/4"	1.1/2" - 11	32,1	29,5	12,5	60				
020812-24-20	38	-24	1.1/2"	1.1/4" - 11	26	31,5	10,5	50				
020812-24-24	38	-24	1.1/2"	1.1/2" - 11	32	30,5	12,5	60				
020812-24-32	38	-24	1.1/2"	2" - 11	42,1	30	16,1	70				
020812-32-32	51	-32	2"	2" - 11	42	32	16,1	70				

# BRAIDFIT TYPE

BS STANDARD CONNECTIONS

020842/020843



45° BSP O-RING FEMALE SWEEP ELBOW 60° CONE - BS 5200  
ISO 12151-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	E	H2		
020843-04-04	6	-4	1/4"	1/4" - 19		4	36	5,4	14,5	19		
020843-06-06	10	-6	3/8"	3/8" - 19		7	42	6	15,5	22		
020843-08-08	12	-8	1/2"	1/2" - 14		9,3	49,5	6,3	17	27		
020842-10-10	16	-10	5/8"	5/8" - 14		12,5	63,5	9,7	27,5	28		
020842-12-12	19	-12	3/4"	3/4" - 14		15	71	8,5	29	32		
020842-16-12	25	-16	1"	3/4" - 14		15	79,5	8,5	29	32		
020842-16-16	25	-16	1"	1" - 11		19,8	90,5	10,6	35,5	38		
020842-16-20	25	-16	1"	1.1/4" - 11		26,1	93	10,5	38	50		
020842-20-20	31	-20	1.1/4"	1.1/4" - 11		26	101,5	10,5	39	50		
020842-20-24	31	-20	1.1/4"	1.1/2" - 11		32,1	118,5	12,5	40,5	60		
020842-24-20	38	-24	1.1/2"	1.1/4" - 11		26	106	10,5	42	50		
020842-24-24	38	-24	1.1/2"	1.1/2" - 11		32	118	12,5	45	60		
020842-24-32	38	-24	1.1/2"	2" - 11		42,1	117,5	16,1	44,5	70		
020842-32-32	51	-32	2"	2" - 11		42	134	16,1	47	70		

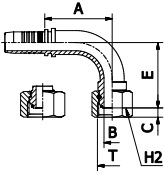
020842: THRUST-WIRE NUT / 020843: SLIP-ON NUT

# BRAIDFIT TYPE

BS STANDARD CONNECTIONS

020892/020893

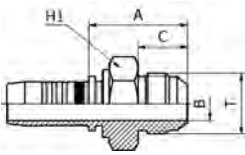
90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS 5200  
ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
020893-03-04	5	-3	3/16"	1/4" - 19	4	29	5,4	29	19		
020893-04-04	6	-4	1/4"	1/4" - 19	4	29,5	5,4	29	19		
020892-06-04	10	-6	3/8"	1/4" - 19	4,1	35,5	4,1	33	19		
020893-06-06	10	-6	3/8"	3/8" - 19	7	36,5	6	31,5	22		
020893-08-08	12	-8	1/2"	1/2" - 14	9,3	45	6,3	36,5	27		
020892-10-10	16	-10	5/8"	5/8" - 14	12,5	53	9,7	55	28		
020892-12-12	19	-12	3/4"	3/4" - 14	15	61,5	8,5	60	32		
020892-12-16	19	-12	3/4"	1" - 11	19,8	61,5	10,6	62	38		
020892-16-12	25	-16	1"	3/4" - 14	15	79,5	8,5	60	32		
020892-16-16	25	-16	1"	1" - 11	19,8	79,5	10,6	76	38		
020892-16-20	25	-16	1"	1.1/4" - 11	26,1	79,5	10,5	78,5	50		
020892-20-16	31	-20	1.1/4"	1" - 11	19,8	79,5	10,6	76	38		
020892-20-20	31	-20	1.1/4"	1.1/4" - 11	26	90,5	10,5	83,5	50		
020892-20-24	31	-20	1.1/4"	1.1/2" - 11	32,1	90,5	12,5	84,5	60		
020892-24-20	38	-24	1.1/2"	1.1/4" - 11	26	95	10,5	90,5	50		
020892-24-24	38	-24	1.1/2"	1.1/2" - 11	32	108	12,5	98,5	60		
020892-24-32	38	-24	1.1/2"	2" - 11	42,1	108	16,1	98	70		
020892-32-32	51	-32	2"	2" - 11	42	131	16,1	110,5	70		

020892: THRUST-WIRE NUT / 020893: SLIP-ON NUT

# BRAIDFIT TYPE



SAE STANDARD CONNECTIONS

012510

JIC MALE 37° CONE - SAE J516  
ISO 12151-5

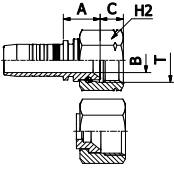
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H1			
012510-04-04	6	-4	1/4"	7/16"-20		4	28	14	12			
012510-04-05	6	-4	1/4"	1/2"-20		5,5	29	14	14			
012510-04-06	6	-4	1/4"	9/16"-18		7	29	14	17			
012510-05-04	8	-5	5/16"	7/16"-20		4	29	14	14			
012510-05-05	8	-5	5/16"	1/2"-20		5,5	29	14	14			
012510-05-06	8	-5	5/16"	9/16"-18		7	29	14	17			
012510-06-05	10	-6	3/8"	1/2"-20		5,5	29,5	14	17			
012510-06-06	10	-6	3/8"	9/16"-18		7	29,5	14	17			
012510-06-08	10	-6	3/8"	3/4"-16		9,3	34	16,5	19			
012510-06-10	10	-6	3/8"	7/8"-14		12,5	38,5	19,5	24			
012510-08-06	12	-8	1/2"	9/16"-18		7	32	14	19			
012510-08-08	12	-8	1/2"	3/4"-16		9,3	34,5	16,5	19			
012510-08-10	12	-8	1/2"	7/8"-14		12,5	39	19,5	24			
012510-08-12	12	-8	1/2"	1.1/16"- 12		15	43	22	27			
012510-10-10	16	-10	5/8"	7/8"-14		12,5	39	19,5	24			
012510-10-12	16	-10	5/8"	1.1/16"- 12		15	42,5	22	27			
012510-12-10	19	-12	3/4"	7/8"-14		12,5	41,5	19,5	27			
012510-12-12	19	-12	3/4"	1.1/16"- 12		15	44	22	27			
012510-12-14	19	-12	3/4"	1.3/16"- 12		15	44,5	22,5	32			
012510-12-16	19	-12	3/4"	1.5/16"- 12		19,8	47	23	34			
012510-16-12	25	-16	1"	1.1/16"- 12		15	45	22	32			
012510-16-16	25	-16	1"	1.5/16"- 12		19,8	48	23	34			
012510-16-20	25	-16	1"	1.5/8"-12		26	53	24,3	42			
012510-20-20	31	-20	1.1/4"	1.5/8"-12		26	53,5	24,3	42			
012510-20-24	31	-20	1.1/4"	1.7/8"-12		32	60,5	27,5	50			
012510-24-24	38	-24	1.1/2"	1.7/8"-12		32	60,5	27,5	50			
012510-32-32	51	-32	2"	2.1/2"-12		42	72	34	65			

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

## 022512/022513

JIC FEMALE 37° CONE SEAT - SAE J516  
ISO 12151-5



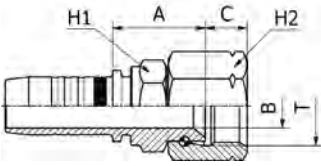
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H2			
022513-03-04	5	-3	3/16"	7/16" - 20		3	15	8	15			
022512-03-05	5	-3	3/16"	1/2" - 20		4	15,5	9,1	17			
022512-04-04	6	-4	1/4"	7/16" - 20		4	15,5	8,7	17			
022512-04-05	6	-4	1/4"	1/2" - 20		4	16	9,1	17			
022513-04-06	6	-4	1/4"	9/16" - 18		4	16,5	9,8	19			
022512-05-04	8	-5	5/16"	7/16" - 20		4	15,5	8,7	17			
022512-05-05	8	-5	5/16"	1/2" - 20		5,5	16	9,1	17			
022512-05-06	8	-5	5/16"	9/16" - 18		7	15,5	9,2	19			
022513-05-08	8	-5	5/16"	3/4" - 16		5,5	17	10,1	22			
022512-06-05	10	-6	3/8"	1/2" - 20		5,5	16,5	9,1	17			
022512-06-06	10	-6	3/8"	9/16" - 18		7	16	9,2	19			
022513-06-08	10	-6	3/8"	3/4" - 16		7	17,5	10,1	22			
022513-06-10	10	-6	3/8"	7/8" - 14		9,3	18	12,4	27			
022512-08-08	12	-8	1/2"	3/4" - 16		9,3	20	10,2	22			
022513-08-10	12	-8	1/2"	7/8" - 14		9,3	18,5	12,4	27			
022513-08-12	12	-8	1/2"	1.1/16" - 12		12,5	22	14,1	32			
022512-10-10	16	-10	5/8"	7/8" - 14		12,5	20	12,3	27			
022513-10-12	16	-10	5/8"	1.1/16" - 12		12,5	21,5	14,1	32			
022512-12-08	19	-12	3/4"	3/4" - 16		9,3	21,5	10,2	22			
022512-12-10	19	-12	3/4"	7/8" - 14		12,5	21,5	12,3	27			
022512-12-12	19	-12	3/4"	1.1/16" - 12		15	22,5	14,2	32			
022512-12-14	19	-12	3/4"	1.3/16" - 12		15	23	14,3	36			
022512-12-16	19	-12	3/4"	1.5/16" - 12		19,8	23	15	38			
022512-16-12	25	-16	1"	1.1/16" - 12		15	23,5	14,2	32			
022512-16-16	25	-16	1"	1.5/16" - 12		19,8	24	15	38			
022512-16-20	25	-16	1"	1.5/8" - 12		26	30	16,2	50			
022512-20-20	31	-20	1.1/4"	1.5/8" - 12		26	30	16,2	50			
022512-20-24	31	-20	1.1/4"	1.7/8" - 12		32	35	18,8	60			
022512-24-24	38	-24	1.1/2"	1.7/8" - 12		32	35	18,8	60			
022512-32-24	51	-32	2"	1.7/8" - 12		32	37	18,8	60			
022512-32-32	51	-32	2"	2.1/2" - 12		44	35,5	24	75			

# BRAIDFIT TYPE

## SAE STANDARD CONNECTIONS

### 022712

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON  
SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)					
	DN	Dash	inch		T	B	A	C	H1	H2
022712-03-04	5	-3	3/16"	7/16"-20	4	20,5	8,7	12	17	
022712-04-04	6	-4	1/4"	7/16"-20	4	21	8,7	12	17	
022712-04-05	6	-4	1/4"	1/2"-20	4	21,5	9,1	12	17	
022712-04-06	6	-4	1/4"	9/16"-18	7	24	9,2	14	19	
022712-05-05	8	-5	5/16"	1/2"-20	5,5	21,5	9,1	14	17	
022712-05-06	8	-5	5/16"	9/16"-18	7	24	9,2	14	19	
022712-05-08	8	-5	5/16"	3/4"-16	9,3	26	10,2	19	22	
022712-06-04	10	-6	3/8"	7/16"-20	4	24,5	8,7	17	17	
022712-06-05	10	-6	3/8"	1/2"-20	5,5	25	9,1	17	17	
022712-06-06	10	-6	3/8"	9/16"-18	7	24,5	9,2	17	19	
022712-06-08	10	-6	3/8"	3/4"-16	9,3	27	10,2	19	22	
022712-06-10	10	-6	3/8"	7/8"-14	12,5	28	12,3	22	27	
022712-08-06	12	-8	1/2"	9/16"-18	7	24,5	9,2	19	19	
022712-08-08	12	-8	1/2"	3/4"-16	9,3	27,5	10,2	19	22	
022712-08-10	12	-8	1/2"	7/8"-14	12,5	28,5	12,3	22	27	
022712-08-12	12	-8	1/2"	1.1/16"-12	14	30	14,2	27	32	
022712-10-08	16	-10	5/8"	3/4"-16	9,3	28,5	10,2	22	22	
022712-10-10	16	-10	5/8"	7/8"-14	12,5	28,5	12,3	22	27	
022712-10-12	16	-10	5/8"	1.1/16"-12	15	30	14,2	27	32	
022712-12-08	19	-12	3/4"	3/4"-16	9,3	30	10,2	27	22	
022712-12-10	19	-12	3/4"	7/8"-14	12,5	30	12,3	27	27	
022712-12-12	19	-12	3/4"	1.1/16"-12	15	31,5	14,2	27	32	
022712-12-14	19	-12	3/4"	1.3/16"-12	15	33	14,3	30	36	
022712-12-16	19	-12	3/4"	1.5/16"-12	19,8	32,5	15	32	38	
022712-16-12	25	-16	1"	1.1/16"-12	12,5	34	14,2	32	32	
022712-16-16	25	-16	1"	1.5/16"-12	19,8	34,5	15	32	38	
022712-16-20	25	-16	1"	1.5/8"-12	26	43	16,2	41	50	
022712-20-16	31	-20	1.1/4"	1.5/16"-12	19,8	36	15	38	38	
022712-20-20	31	-20	1.1/4"	1.5/8"-12	26	43,5	16,2	41	50	
022712-24-24	38	-24	1.1/2"	1.7/8"-12	32	51	18,8	50	60	
022712-32-32	51	-32	2"	2.1/2"-12	44	51,5	24	65	75	

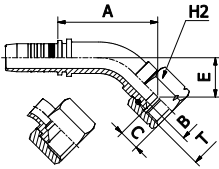


# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

## 022542/022543

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516  
ISO 12151-5



PART. REF.		HOSE BORE		Thread	DIMENSIONS (mm)						
	DN	Dash	inch	T	B	A	C	E	H2		
022542-03-04	5	-3	3/16"	7/16" - 20	4	35	8,7	14,5	17		
022542-04-04	6	-4	1/4"	7/16" - 20	4	35,5	8,7	14,5	17		
022542-04-05	6	-4	1/4"	1/2" - 20	4	35,5	9,1	14,5	17		
022543-04-06	6	-4	1/4"	9/16" - 18	4	35,5	9,8	14	19		
022542-05-05	8	-5	5/16"	1/2" - 20	5,5	37,5	9,1	14	17		
022542-05-06	8	-5	5/16"	9/16" - 18	7	38	9,2	14,5	19		
022542-06-06	10	-6	3/8"	9/16" - 18	7	42	9,2	16,5	19		
022543-06-08	10	-6	3/8"	3/4" - 16	7	41	10,1	14	22		
022543-06-10	10	-6	3/8"	7/8" - 14	9,3	42,5	12,4	15,5	27		
022542-08-06	12	-8	1/2"	9/16" - 18	7	43	9,2	16,5	19		
022542-08-08	12	-8	1/2"	3/4" - 16	9,3	52	10,2	20	22		
022543-08-10	12	-8	1/2"	7/8" - 14	9,3	49,5	12,4	17	27		
022543-08-12	12	-8	1/2"	1.1/16" - 12	12,5	49,5	14,1	17	32		
022542-10-10	16	-10	5/8"	7/8" - 14	12,5	62	12,3	25,5	27		
022543-10-12	16	-10	5/8"	1.1/16" - 12	12,5	60	14,1	24	32		
022542-12-08	19	-12	3/4"	3/4" - 16	9,3	53,5	10,2	20	22		
022542-12-10	19	-12	3/4"	7/8" - 14	12,5	63,5	12,3	25	27		
022542-12-12	19	-12	3/4"	1.1/16" - 12	15	70	14,2	27,5	32		
022542-12-14	19	-12	3/4"	1.3/16" - 12	15	69,5	14,3	27,5	36		
022542-12-16	19	-12	3/4"	1.5/16" - 12	19,8	70	15	27,5	38		
022542-16-12	25	-16	1"	1.1/16" - 12	15	72,5	14,2	27,5	32		
022542-16-16	25	-16	1"	1.5/16" - 12	19,8	84	15	32	38		
022542-16-20	25	-16	1"	1.5/8" - 12	26	90	16,2	36	50		
022542-20-20	31	-20	1.1/4"	1.5/8" - 12	26	103,5	16,2	41,5	50		
022542-20-24	31	-20	1.1/4"	1.7/8" - 12	32	106,5	18,8	44,5	60		
022542-24-24	38	-24	1.1/2"	1.7/8" - 12	32	119	18,8	46,5	60		
022542-32-32	51	-32	2"	2.1/2" - 12	44	163	24	68	75		

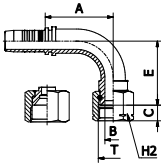
022542: THRUST-WIRE NUT - 022543: SLIP-ON NUT

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

## 022592/022593

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516  
ISO 12151-5



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
022593-03-04	5	-3	3/16"	7/16" - 20	3	26	8,5	23,5	15		
022592-04-04	6	-4	1/4"	7/16" - 20	4	28,5	8,7	27	17		
022592-04-05	6	-4	1/4"	1/2" - 20	4	28,5	9,1	27,5	17		
022593-04-06	6	-4	1/4"	9/16" - 18	4	29,5	9,8	28	19		
022593-04-08	6	-4	1/4"	3/4" - 16	7	29,5	10	30,5	22		
022592-05-05	8	-5	5/16"	1/2" - 20	5,5	31	9,1	28	17		
022592-05-06	8	-5	5/16"	9/16" - 18	7	31	9,2	28,5	19		
022592-06-05	10	-6	3/8"	1/2" - 20	5,5	30	9,1	26,5	17		
022592-06-06	10	-6	3/8"	9/16" - 18	7	35,5	9,2	32,5	19		
022593-06-08	10	-6	3/8"	3/4" - 16	7	36,5	10,1	29,5	22		
022593-06-10	10	-6	3/8"	7/8" - 14	9,3	36,5	12,4	31,5	27		
022592-08-06	12	-8	1/2"	9/16" - 18	7	37	9,2	33	19		
022592-08-08	12	-8	1/2"	3/4" - 16	9,3	44	10,2	41	22		
022593-08-10	12	-8	1/2"	7/8" - 14	9,3	45	12,4	36	27		
022593-08-12	12	-8	1/2"	1.1/16" - 12	12,5	45	14,1	36	32		
022592-10-10	16	-10	5/8"	7/8" - 14	12,5	53,5	12,3	52,5	27		
022593-10-12	16	-10	5/8"	1.1/16" - 12	12,5	51,5	14,1	50	32		
022592-12-10	19	-12	3/4"	7/8" - 14	12,5	55	12,3	52,5	27		
022592-12-12	19	-12	3/4"	1.1/16" - 12	15	62	14,2	58	32		
022592-12-14	19	-12	3/4"	1.3/16" - 12	15	63	14,3	58	36		
022592-12-16	19	-12	3/4"	1.5/16" - 12	19,8	63	15	57,5	38		
022592-16-16	25	-16	1"	1.5/16" - 12	19,8	77	15	68,5	38		
022592-16-20	25	-16	1"	1.5/8" - 12	26	77,5	16,2	74,5	50		
022592-20-20	31	-20	1.1/4"	1.5/8" - 12	26	90,5	16,2	86,5	50		
022592-20-24	31	-20	1.1/4"	1.7/8" - 12	32	90,5	18,8	90,5	60		
022592-24-24	38	-24	1.1/2"	1.7/8" - 12	32	108	18,8	100,5	60		
022592-32-32	51	-32	2"	2.1/2" - 12	44	142	24	137	75		

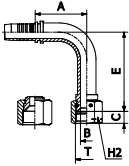
022592: THRUST-WIRE NUT / 022593: SLIP-ON NUT

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

024792/024793

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516  
ISO 12151-5



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
024792-04-04	6	-4	1/4"	7/16" - 20	4	28,5	8,7	45	17		
024792-04-05	6	-4	1/4"	1/2" - 20	4	28,5	9,1	45	17		
024793-04-06	6	-4	1/4"	9/16" - 18	4	29,5	9,8	55,5	19		
024792-06-06	10	-6	3/8"	9/16" - 18	7	35,5	9,2	55	19		
024793-06-08	10	-6	3/8"	3/4" - 16	7	36,5	10,1	61,5	22		
024792-08-08	12	-8	1/2"	3/4" - 16	9,3	44	10,2	61	22		
024793-08-10	12	-8	1/2"	7/8" - 14	9,3	45	12,4	65	27		
024792-10-10	16	-10	5/8"	7/8" - 14	12,5	53,5	12,3	65,5	27		
024792-12-12	19	-12	3/4"	1.1/16" - 12	15	62	14,2	94,5	32		
024792-16-16	25	-16	1"	1.5/16" - 12	19,8	77,5	15	110	38		
024792-20-20	31	-20	1.1/4"	1.5/8" - 12	26	90,5	16,2	129	50		

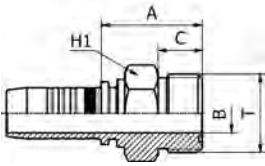
024792: THRUST-WIRE NUT - 024793: SLIP-ON NUT

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

012410

ORFS MALE SAE J516 / ISO 12151-1



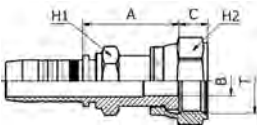
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	H1		
012410-04-04	6	- 4	1/4"	9/16" - 18	4.0	24.0	9.8	16.0			
012410-04-06	6	- 4	1/4"	11/16" - 16	6.7	26.5	11.2	19.0			
012410-05-06	8	- 5	5/16"	11/16" - 16	6.7	27.0	11.2	19.0			
012410-06-06	10	- 6	3/8"	11/16" - 16	6.7	27.5	11.2	19.0			
012410-06-08	10	- 6	3/8"	13/16" - 16	9.3	30.0	12.8	22.0			
012410-08-06	12	- 8	1/2"	11/16" - 16	6.7	29.0	11.2	22.0			
012410-08-08	12	- 8	1/2"	13/16" - 16	9.3	30.5	12.8	22.0			
012410-08-10	12	- 8	1/2"	1" - 14	12.5	35.0	15.5	27.0			
012410-08-12	12	- 8	1/2"	1.3/16" - 12	15.0	37.5	17.0	32.0			
012410-10-08	16	- 10	5/8"	13/16" - 16	9.3	30.5	12.8	22.0			
012410-10-10	16	- 10	5/8"	1" - 14	12.5	34.5	15.5	27.0			
012410-10-12	16	- 10	5/8"	1.3/16" - 12	15.0	37.5	17.0	32.0			
012410-12-12	19	- 12	3/4"	1.3/16" - 12	15.0	39.0	17.0	32.0			
012410-12-16	19	- 12	3/4"	1.7/16" - 12	19.8	40.5	17.5	38.0			
012410-16-16	25	- 16	1"	1.7/16" - 12	19.8	42.0	17.5	38.0			
012410-16-20	25	- 16	1"	1.11/16" - 12	26.0	44.0	17.5	46.0			
012410-20-20	31	- 20	1.1/4"	1.11/16" - 12	26.0	46.5	17.5	46.0			
012410-24-24	38	- 24	1.1/2"	2" - 12	32.0	48.5	17.5	55.0			

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

022411

ORFS FEMALE SAE J516  
ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)



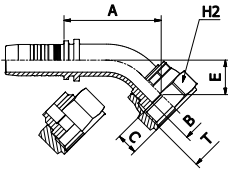
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	H1	H2	
022411-04-04	6	-4	1/4"	9/16" - 18	4	27,5	8	13	19		
022411-04-06	6	-4	1/4"	11/16" - 16	7	30	9,5	16	22		
022411-04-08	6	-4	1/4"	13/16" - 16	9,3	35,5	11	19	24		
022411-05-04	8	-5	5/16"	9/16" - 18	4	28,5	8	16	19		
022411-05-06	8	-5	5/16"	11/16" - 16	7	30,5	9,5	16	22		
022411-06-04	10	-6	3/8"	9/16" - 18	4	29	8	16	19		
022411-06-06	10	-6	3/8"	11/16" - 16	7	31	9,5	16	22		
022411-06-08	10	-6	3/8"	13/16" - 16	9,3	36,5	11	19	24		
022411-08-06	12	-8	1/2"	11/16" - 16	7	32	9,5	19	22		
022411-08-08	12	-8	1/2"	13/16" - 16	9,3	37	11	19	24		
022411-08-10	12	-8	1/2"	1" - 14	11,5	39	13,5	24	30		
022411-08-12	12	-8	1/2"	1.3/16" - 12	13,9	44	14,5	28	36		
022411-10-08	16	-10	5/8"	13/16" - 16	9,3	37	11	24	24		
022411-10-10	16	-10	5/8"	1" - 14	11,5	39	13,5	24	30		
022411-10-12	16	-10	5/8"	1.3/16" - 12	13,9	44	14,5	28	36		
022411-12-10	19	-12	3/4"	1" - 14	11,5	41,5	13,5	28	30		
022411-12-12	19	-12	3/4"	1.3/16" - 12	13,9	45,5	14,5	28	36		
022411-12-16	19	-12	3/4"	1.7/16" - 12	19,8	48,5	15	36	41		
022411-16-12	25	-16	1"	1.3/16" - 12	13,9	48	13,5	36	36		
022411-16-16	25	-16	1"	1.7/16" - 12	19,8	49,5	15	36	41		
022411-16-20	25	-16	1"	1.11/16" - 12	26	49,5	14,8	41	50		
022411-20-20	31	-20	1.1/4"	1.11/16" - 12	26	52	14,8	41	50		
022411-20-24	31	-20	1.1/4"	2" - 12	32	54	15,8	50	60		
022411-24-24	38	-24	1.1/2"	2" - 12	32	54	15,8	50	60		

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

## 022441/022443

45° ORFS FEMALE SWEEP ELBOW - SAE J516  
ISO 12151-1



PART. REF.		HOSE BORE		Thread	DIMENSIONS (mm)						
	DN	Dash	inch	T	B	A	C	E	H2		
022443-04-04	6	-4	1/4"	9/16" - 18	4	31	8,2	10,5	17		
022443-04-06	6	-4	1/4"	11/16" - 16	7	31	9,5	10,5	22		
022443-05-06	8	-5	5/16"	11/16" - 16	7	34	9,5	10,5	22		
022443-06-06	10	-6	3/8"	11/16" - 16	6	32,5	9,5	11	22		
022443-06-08	10	-6	3/8"	13/16" - 16	9,3	34	11	12,5	24		
022441-08-06	12	-8	1/2"	11/16" - 16	7	32,5	9,5	11	22		
022443-08-08	12	-8	1/2"	13/16" - 16	9	42	11	13	24		
022443-08-10	12	-8	1/2"	1" - 14	11,5	42	13,5	13,5	30		
022443-08-12	12	-8	1/2"	1.3/16" - 12	13,9	46,5	14,5	18,5	36		
022443-10-10	16	-10	5/8"	1" - 14	11,5	49	13,5	16	30		
022443-10-12	16	-10	5/8"	1.3/16" - 12	13,9	51,5	14,5	18,5	36		
022441-12-10	19	-12	3/4"	1" - 14	11,5	51	12,5	16,5	30		
022443-12-12	19	-12	3/4"	1.3/16" - 12	13,9	60,5	14,5	21,5	36		
022443-12-16	19	-12	3/4"	1.7/16" - 12	19,8	60	14,8	21	41		
022441-16-12	25	-16	1"	1.3/16" - 12	13,9	66	13,5	21,5	36		
022443-16-16	25	-16	1"	1.7/16" - 12	19,8	72	14,8	23,5	41		
022443-16-20	25	-16	1"	1.11/16" - 12	26	74	14,8	25	50		
022443-20-20	31	-20	1.1/4"	1.11/16" - 12	26	82	14,8	27	50		
022443-24-24	38	-24	1.1/2"	2" - 12	32	98	14,8	31,5	60		

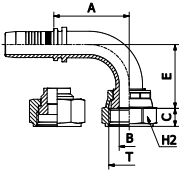
022441: CRIMPED BACK-NUT / 022443: SLIP-ON NUT

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

022491/022493

90° ORFS FEMALE SWEPT ELBOW - SAE J516  
ISO 12151-1



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
022493-04-04	6	-4	1/4"	9/16" - 18	4	27,5	8,2	22	17		
022493-04-06	6	-4	1/4"	11/16" - 16	7	27,5	9,5	22	22		
022493-05-06	8	-5	5/16"	11/16" - 16	7	32	9,5	23	22		
022491-06-04	10	-6	3/8"	9/16" - 18	4	28	8	23	19		
022493-06-06	10	-6	3/8"	11/16" - 16	6	30	9,5	24	22		
022493-06-08	10	-6	3/8"	13/16" - 16	9,3	30	11	26,5	24		
022491-08-06	12	-8	1/2"	11/16" - 16	7	30	9,5	24,5	22		
022493-08-08	12	-8	1/2"	13/16" - 16	9	40,5	11	30	24		
022493-08-10	12	-8	1/2"	1" - 14	11,5	40	13,5	30,5	30		
022493-08-12	12	-8	1/2"	1.3/16" - 12	13,9	39,5	14,5	37,5	36		
022491-10-08	16	-10	5/8"	13/16" - 16	9,3	41	11	34	24		
022493-10-10	16	-10	5/8"	1" - 14	11,5	48	13,5	37,5	30		
022491-10-10032	16	-10	5/8"	1" - 14	11	42	7,5	32	30		
022493-10-12	16	-10	5/8"	1.3/16" - 12	13,9	48	14,5	41	36		
022491-12-10	19	-12	3/4"	1" - 14	11,5	49	12,5	38,5	30		
022493-12-12	19	-12	3/4"	1.3/16" - 12	13,9	56,5	14,5	48	36		
022493-12-16	19	-12	3/4"	1.7/16" - 12	19,8	56,5	14,8	47,5	41		
022491-16-12	25	-16	1"	1.3/16" - 12	13,9	57,5	13,5	48	36		
022493-16-16	25	-16	1"	1.7/16" - 12	19,8	71,5	14,8	56	41		
022493-16-20	25	-16	1"	1.11/16" - 12	26	71,5	14,8	58,5	50		
022493-20-20	31	-20	1.1/4"	1.11/16" - 12	26	83	14,8	66	50		
022493-24-24	38	-24	1.1/2"	2" - 12	32	102	14,8	79,5	60		

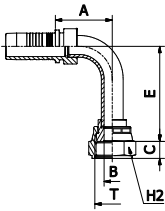
022491: CRIMPED BACK-NUT / 022493: SLIP-ON NUT

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

## 024491 LONG DROP

90° ORFS FEMALE LONG DROP ELBOW  
SAE J516 / ISO 12151-1  
(CRIMPED-BACK NUT)



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
024491-04-04	6	-4	1/4"	9/16"-18	4,4	25	8	46	17		
024491-04-06	6	-4	1/4"	11/16"-16	7	26,5	9,5	53,5	22		
024491-05-06	8	-5	5/16"	11/16"-16	6,7	31,5	9,5	54	22		
024491-06-06	10	-6	3/8"	11/16"-16	6,7	32	9,5	54	22		
024491-06-08	10	-6	3/8"	13/16"-16	6,7	32	11	54	24		
024491-08-08	12	-8	1/2"	13/16"-16	9,6	37	11	64	24		
024491-08-10	12	-8	1/2"	1"-14	9,6	37	12,5	64,5	30		
024491-10-10	16	-10	5/8"	1"-14	12	41	13	70	30		
024491-10-12	16	-10	5/8"	1.3/16"-12	12,7	41	13,5	73	36		
024491-12-12	19	-12	3/4"	1.3/16"-12	15	58,5	13,5	96	36		
024491-16-16	25	-16	1"	1.7/16"-12	19,8	71,5	13,5	114	41		
024491-20-20	31	-20	1.1/4"	1.11/16"-12	26	82,5	13,6	129	50		

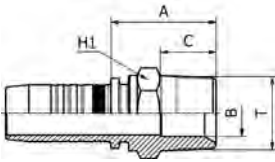


# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

012810

NPTF MALE 60° CONE SEAT - SAE J516/J514



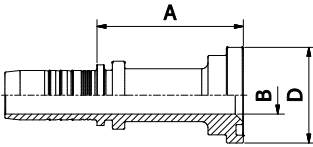
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	H1		
012810-03-02	5	-3	3/16"	1/8" - 27	3	23,5	10	12			
012810-03-04	5	-3	3/16"	1/4" - 18	5,5	29	14,5	14			
012810-04-02	6	-4	1/4"	1/8" - 27	4	24	10	12			
012810-04-04	6	-4	1/4"	1/4" - 18	5,5	29	14,5	14			
012810-04-06	6	-4	1/4"	3/8" - 18	9,3	27,5	14,5	19			
012810-04-08	6	-4	1/4"	1/2" - 14	9,3	33,5	19,2	24			
012810-05-04	8	-5	5/16"	1/4" - 18	5,5	29,5	14,5	14			
012810-05-06	8	-5	5/16"	3/8" - 18	9,3	32	14,5	19			
012810-06-04	10	-6	3/8"	1/4" - 18	5,5	30	14,5	14			
012810-06-06	10	-6	3/8"	3/8" - 18	9,3	28,5	14,5	19			
012810-06-08	10	-6	3/8"	1/2" - 14	12,5	34,5	19,2	24			
012810-08-06	12	-8	1/2"	3/8" - 18	9,3	29	14,5	19			
012810-08-08	12	-8	1/2"	1/2" - 14	12,5	35	19,2	24			
012810-08-12	12	-8	1/2"	3/4" - 14	15,5	35,5	19,2	27			
012810-10-08	16	-10	5/8"	1/2" - 14	12,5	38,5	19,2	24			
012810-10-12	16	-10	5/8"	3/4" - 14	16	40	19,2	27			
012810-12-08	19	-12	3/4"	1/2" - 14	12,5	36,5	19,2	27			
012810-12-12	19	-12	3/4"	3/4" - 14	16	36,5	19,2	27			
012810-12-16	19	-12	3/4"	r-n,5	19,8	46	24,2	36			
012810-16-12	25	-16	1"	3/4" - 14	15,5	39	19,2	32			
012810-16-16	25	-16	1"	r-n,5	19,8	44	24,2	36			
012810-16-20	25	-16	1"	1.1/4" - 11,5	26	56,5	25	46			
012810-20-20	31	-20	1.1/4"	1.1/4" - 11,5	26	56,5	25	46			
012810-24-24	38	-24	1.1/2"	1.1/2" - 11,5	32	57,5	26	50			
012810-32-32	51	-32	2"	2" - 11,5	45	64,5	26,5	65			
012810-40-40	63	-40	2.1/2"	2.1/2" - 8	55,4	78	39,9	80			
012810-48-48	76	-48	3"	3" - 8	68,9	86	41,5	100			

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

023311

ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



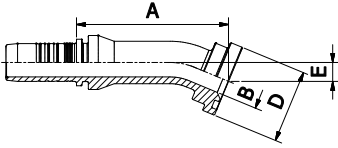
PART. REF.	HOSE BORE			Flange		DIMENSIONS (mm)							
	DN	Dash	inch			Inch	B	A					
023311-08-08	12	-8	1/2"	1/2"		9,3	51	30,3					
023311-08-12	12	-8	1/2"	3/4"		15,1	58	38					
023311-10-08	16	-10	5/8"	1/2"		9,3	51	30,3					
023311-10-12	16	-10	5/8"	3/4"		15	65,5	38					
023311-10-24	16	-10	5/8"	1.1/2"		32	69,5	60,5					
023311-12-12	19	-12	3/4"	3/4"		15	58	38					
023311-12-16	19	-12	3/4"	1"		20	58	44,6					
023311-12-20	19	-12	3/4"	1.1/4"		26	69,5	51					
023311-16-12	25	-16	1"	3/4"		15	60,5	38					
023311-16-16	25	-16	1"	1"		19,8	64,5	44,6					
023311-16-20	25	-16	1"	1.1/4"		26	70,5	51					
023311-20-12	31	-20	1.1/4"	3/4"		15	61	38					
023311-20-16	31	-20	1.1/4"	1"		19,8	64,5	44,6					
023311-20-20	31	-20	1.1/4"	1.1/4"		26	70,5	51					
023311-20-24	31	-20	1.1/4"	1.1/2"		32	72,5	60,5					
023311-20-32	31	-20	1.1/4"	2"		42	75,5	71,6					
023311-24-24	38	-24	1.1/2"	1.1/2"		32	75,5	60,5					
023311-24-32	38	-24	1.1/2"	2"		42	75,5	71,6					
023311-32-32	51	-32	2-	2"		42	79	71,6					
023311-32-40	51	-32	2"	2.1/2"		56	81	84,3					
023311-38-40	60	-38	2.3/8"	2.1/2"		50,5	84	84,3					
023311-40-32	63	-40	2.1/2"	2"		42	78,5	71,6					
023311-40-40	63	-40	2.1/2"	2.1/2"		55,4	84	84,3					
023311-40-48	63	-40	2.1/2"	3"		68,9	79	101,6					
023311-40-56	63	-40	2.1/2"	3.1/2"		79	90,5	114,3					
023311-40-64	63	-40	2.1/2"	4"		90	96,5	127					
023311-48-48	76	-48	3"	3"		68,9	85,5	101,6					
023311-56-56	89	-56	3.1/2"	3.1/2"		79	94,5	114,3					
023311-64-64	102	-64	4"	4"		90	100,5	127					

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

## 023321

22,5° ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)								
	DN	Dash	inch		Inch	B	A	D	E				
023321-08-08	12	-8	1/2"	1/2"		9,3	64	30,3	8				
023321-12-12	19	-12	3/4"	3/4"		15	74,5	38	10				
023321-12-16	19	-12	3/4"	1"		20	74,5	44,6	10				
023321-16-16	25	-16	1"	1"		19,8	89	44,6	11,5				
023321-16-20	25	-16	1"	1.1/4"		26	88,5	51	11,5				
023321-16-24	25	-16	1"	1.1/2"		32	88,5	60,5	12				
023321-20-20	31	-20	1.1/4"	1.1/4"		26	100	51	12				
023321-20-20018	31	-20	1.1/4"	1.1/4"		26	99	51	18				
023321-20-24	31	-20	1.1/4"	1.1/2"		32	102	60,5	13				
023321-24-24	38	-24	1.1/2"	1.1/2"		32	116,5	60,5	14				
023321-24-24023	38	-24	1.1/2"	1.1/2"		32	115	60,5	23				
023321-24-32	38	-24	1.1/2"	2"		42	116,5	71,6	14				
023321-32-32	51	-32	2"	2"		42	134,5	71,6	15				
023321-40-40	63	-40	2.1/2"	2.1/2"		52	80	84,3	16,5				
023321-40-48	63	-40	2.1/2"	3"		61	107,5	101,6	20,5				
023321-48-48	76	-48	3"	3"		61	111	101,6	20,5				

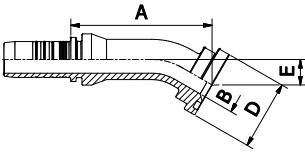
All items are made from solid with the exception of 023321-40-40, 023321-40-48, 023321-48-48

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

**023331**

30° ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.		HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch		B	A	D	E				
023331-08-08	12	-8	1/2"	1/2"		9,3	62,5	30,3	11				
023331-08-12	12	-8	1/2"	3/4"		15	63,5	38	11,5				
023331-12-12	19	-12	3/4"	3/4"		15	73	38	14				
023331-12-16	19	-12	3/4"	1"		20	73	44,6	14				
023331-16-16	25	-16	1"	1"		19,8	87	44,6	16,5				
023331-16-20	25	-16	1"	1.1/4"		26	87	51	16,5				
023331-20-20	31	-20	1.1/4"	1.1/4"		26	98	51	17,5				
023331-20-24	31	-20	1.1/4"	1.1/2"		32	100	60,5	18,5				
023331-20-24044	31	-20	1.1/4"	1.1/2"		32	131,5	60,5	44				
023331-24-24	38	-24	1.1/2"	1.1/2"		32	114,5	60,5	20				
023331-24-32	38	-24	1.1/2"	2"		42	114,5	71,6	20				
023331-32-32	51	-32	2"	2"		42	132	71,6	22				
023331-40-40	63	-40	2.1/2"	2.1/2"		52	87,5	84,3	24				
023331-40-48	63	-40	2.1/2"	3"		52	85	101,6	24,5				
023331-48-48	76	-48	3"	3"		61	117,5	101,6	31,5				

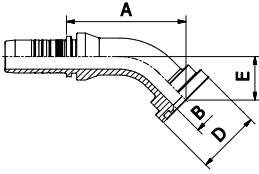
All items are made from solid with the exception of 023331-40-40, 023331-40-48, 023331-48-48

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

023341

45° ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.	HOSE BORE			Flange		DIMENSIONS (mm)						
	DN	Dash	inch	Inch		B	A	D	E			
023341-06-08	10	-6	3/8"	1/2"		9,3	52,5	30	17,5			
023341-08-08	12	-8	1/2"	1/2"		9,3	58,5	30,3	18,5			
023341-08-12	12	-8	1/2"	3/4"		15	59,5	38	19			
023341-08-16	12	-8	1/2"	1"		19,8	59,5	44,6	19			
023341-10-12	16	-10	5/8"	3/4"		15	61	38	22			
023341-12-12	19	-12	3/4"	3/4"		15	71	38	26			
023341-12-16	19	-12	3/4"	1"		20	68,5	44,6	23			
023341-16-12	25	-16	1"	3/4"		15	74,5	38	23			
023341-16-16	25	-16	1"	1"		19,8	81,5	44,6	27,5			
023341-16-16032	25	-16	1"	1"		19,8	86	44,5	32			
023341-16-20	25	-16	1"	1.1/4"		26	81,5	51	27,5			
023341-20-16	31	-20	1.1/4"	1"		19,8	84,5	44,6	29,5			
023341-20-20	31	-20	1.1/4"	1.1/4"		26	92	51	29,5			
023341-20-20038	31	-20	1.1/4"	1.1/4"		26	100,5	50,9	38			
023341-20-24	31	-20	1.1/4"	1.1/2"		32	93,5	60,5	31			
023341-24-24	38	-24	1.1/2"	1.1/2"		32	107,5	60,5	34,5			
023341-24-24044	38	-24	1.1/2"	1.1/2"		32	117	60,5	44			
023341-24-32	38	-24	1.1/2"	2"		42	107,5	71,6	34,5			
023341-32-20	51	-32	2"	1.1/4"		26	128,5	51	32			
023341-32-32	51	-32	2"	2"		42	124	71,6	39			
023341-32-32056	51	-32	2"	2"		42	141	71,5	56			
023341-32-40	51	-32	2"	2.1/2"		56	136,5	84,3	49,5			
023341-40-32	63	-40	2.1/2"	2"		42	152	71,6	48,5			
023341-40-40	63	-40	2.1/2"	2.1/2"		52	95	84,3	48,5			
023341-40-48	63	-40	2.1/2"	3"		61	117,5	101,6	53,5			
023341-48-48	76	-48	3"	3"		58	125,5	101,6	53,5			
023341-56-56	89	-56	3.1/2"	3.1/2"		79	139	114,3	68			
023341-56-64	89	-56	3.1/2"	4"		79	124,5	127	53,5			
023341-64-64	102	-64	4"	4"		90	132	127	56,5			

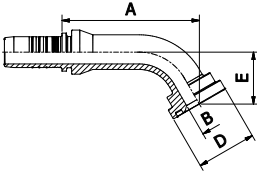
All items are made from solid with the exception of 023341-40-40, 023341-40-48, 023341-48-48, 023341-56-56, 023341-56-64, 023341-64-64.

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

023361

60° ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.		HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch	Inch		B	A	D	E			
023361-08-08	12	-8	1/2"	1/2"		9,3	71,5	30,3	26			
023361-08-12	12	-8	1/2"	3/4"		15	72	38	26,5			
023361-12-12	19	-12	3/4"	3/4"		15	87	38	33			
023361-12-16	19	-12	3/4"	1"		20	87	44,6	33			
023361-16-16	25	-16	1"	1"		19,8	104	44,6	39			
023361-16-20	25	-16	1"	1.1/4"		26	104	51	39			
023361-20-20	31	-20	1.1/4"	1.1/4"		26	120	51	43			
023361-20-20065	31	-20	1.1/4"	1.1/4"		26	107,5	51	65			
023361-20-24	31	-20	1.1/4"	1.1/2"		32	121	60,5	44,5			
023361-24-20	38	-24	1.1/2"	1.1/4"		26	136,5	51	46,5			
023361-24-24	38	-24	1.1/2"	1.1/2"		32	143,5	60,5	50,5			
023361-24-32	38	-24	1.1/2"	2"		42	143,5	71,6	51			
023361-32-32	51	-32	2"	2"		42	129	71,6	58			
023361-40-40	63	-40	2.1/2"	2.1/2"		52	94,5	84,3	67			
023361-40-48	63	-40	2.1/2"	3"		52	87,5	101,6	54,5			
023361-48-48	76	-48	3"	3"		61	128,5	101,6	79			

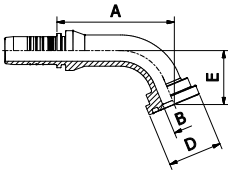
All items are made from solid with the exception of 023361-40-40, 023361-40-48, 023361-48-48.

# BRAIDFIT TYPE

## SAE STANDARD CONNECTIONS

### 023371

67,5° ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch	Inch	B	A	D	E			
023371-08-08	12	-8	1/2"	1/2"	9,3	68	30,3	29,5			
023371-08-12	12	-8	1/2"	3/4"	15	68,5	38	30,5			
023371-08-16	12	-8	1/2"	1"	19,8	68,5	44,6	30,5			
023371-12-12	19	-12	3/4"	3/4"	15	82	38	38			
023371-12-16	19	-12	3/4"	1"	20	82	44,6	38			
023371-12-20	19	-12	3/4"	1.1/4"	26	82	51	38			
023371-16-16	25	-16	1"	1"	19,8	98,5	44,6	45			
023371-16-20	25	-16	1"	1.1/4"	26	98,5	51	45			
023371-20-20	31	-20	1.1/4"	1.1/4"	26	114	51	50			
023371-20-24	31	-20	1.1/4"	1.1/2"	32	115	60,5	52			
023371-24-24	38	-24	1.1/2"	1.1/2"	32	136,5	60,5	59			
023371-24-32	38	-24	1.1/2"	2"	42	136,5	71,6	59			
023371-32-32	51	-32	2"	2"	42	162	71,6	68,5			
023371-32-32085	51	-32	2"	2"	42	150,5	71,6	85			
023371-32-40	51	-32	2"	2.1/2"	56	171,5	84,3	83,5			
023371-40-40	63	-40	2.1/2"	2.1/2"	52	95	84,3	78			
023371-40-48	63	-40	2.1/2"	3"	52	90,5	101,6	64,5			

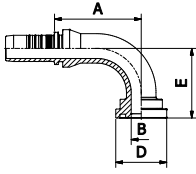
All items are made from solid with the exception of 023371-40-40, 023371-40-48.

# BRAIDFIT TYPE

## SAE STANDARD CONNECTIONS

### 023391

90° ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D			
023391-06-08	10	-6	3/8"	1/2"	9,3	44,5	30	34,5			
023391-08-08	12	-8	1/2"	1/2"	9,3	54,5	30,3	40			
023391-08-12	12	-8	1/2"	3/4"	15	54,5	38	41			
023391-08-16	12	-8	1/2"	1"	19,8	54,5	44,6	66			
023391-10-08	16	-10	5/8"	1/2"	9,3	56	30,3	46,5			
023391-10-12	16	-10	5/8"	3/4"	15	56	38	47,5			
023391-12-12	19	-12	3/4"	3/4"	15	64,5	38	52			
023391-12-16	19	-12	3/4"	1"	20	64,5	44,6	52			
023391-12-20	19	-12	3/4"	1.1/4"	26	64,5	51	52			
023391-16-12	25	-16	1"	3/4"	15	71	38	52			
023391-16-16	25	-16	1"	1"	19,8	77,5	44,6	62			
023391-16-20	25	-16	1"	1.1/4"	26	77,5	51	62			
023391-16-24	25	-16	1"	1.1/2"	32	77	60,5	64			
023391-20-16	31	-20	1.1/4"	1"	19,8	80	44,6	66			
023391-20-20	31	-20	1.1/4"	1.1/4"	26	90,5	51	70			
023391-20-24	31	-20	1.1/4"	1.1/2"	32	90,5	60,5	72			
023391-20-32	31	-20	1.1/4"	2"	42	93,5	71,6	76			
023391-24-20	38	-24	1.1/2"	1.1/4"	26	104,5	51	75			
023391-24-24	38	-24	1.1/2"	1.1/2"	32	108	60,5	84			
023391-24-32	38	-24	1.1/2"	2"	42	108	71,6	84			
023391-32-24	51	-32	2"	1.1/2"	32	133	60,5	84			
023391-32-32	51	-32	2"	2"	42	129	71,6	99			
023391-32-40	51	-32	2"	2.1/2"	56	132,5	84,3	116			
023391-40-32	63	-40	2.1/2"	2"	42	149,5	71,6	114			
023391-40-40	63	-40	2.1/2"	2.1/2"	52	88	84,3	119			
023391-40-48	63	-40	2.1/2"	3"	61	120	101,6	140			
023391-48-48	76	-48	3"	3"	58	123	101,6	140			
023391-48-56	76	-48	3"	3.1/2"	61	123	114,3	115			
023391-56-56	89	-56	3.1/2"	3.1/2"	79	134,5	114,3	160			
023391-64-64	102	-64	4"	4"	90	153,5	127	158,5			

All items are made from solid with the exception of 023391-40-40, 023391-40-48, 023391-48-48, 023391-48-56, 023391-56-56, 023391-64-64.

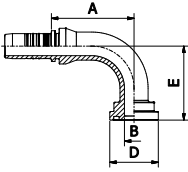


# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

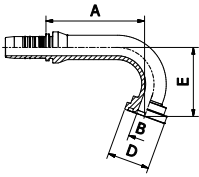
## 023391 LONG DROP

90° LONG DROP ISO/SAE CODE 61 FLANGE - SAE J516  
ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch	Inch	B	A	D	E			
023391-06-08041	10	-6	3/8"	1/2"	9,3	44,5	30	41			
023391-12-12058	19	-12	3/4"	3/4"	15	64,5	38	58			
023391-12-12100	19	-12	3/4"	3/4"	15	64,5	38	100			
023391-12-16125	19	-12	3/4"	1"	15	64,5	38	125			
023391-16-16070	25	-16	1"	1"	19,8	77,5	44,5	70			
023391-16-16125	25	-16	1"	1"	19,8	77,5	44,5	125			
023391-16-16150	25	-16	1"	1"	19,8	77,5	44,5	150			
023391-16-20117	25	-16	1"	1.1/4"	26	77,5	51	117			
023391-16-20130	25	-16	1"	1.1/4"	26	77,5	51	130			
023391-16-20150	25	-16	1"	1.1/4"	26	77,5	51	150			
023391-16-24107	25	-16	1"	1.1/2"	32	77	60,5	107			
023391-20-20091	31	-20	1.1/4"	1.1/4"	26	90,5	51	91			
023391-20-20100	31	-20	1.1/4"	1.1/4"	26	90,5	51	100			
023391-20-20112	31	-20	1.1/4"	1.1/4"	26	90,5	51	112			
023391-20-20130	31	-20	1.1/4"	1.1/4"	26	90,5	51	130			
023391-20-20168	31	-20	1.1/4"	1.1/4"	26	90,5	51	168			
023391-20-24118	31	-20	1.1/4"	1.1/2"	32	90,5	60,5	118			
023391-20-24130	31	-20	1.1/4"	1.1/2"	32	90,5	60,5	130			
023391-24-24104	38	-24	1.1/2"	1.1/2"	32	108	60,5	104			
023391-24-24120	38	-24	1.1/2"	1.1/2"	32	108	60,5	120			
023391-24-24148	38	-24	1.1/2"	1.1/2"	32	108	60,5	148			
023391-24-24172	38	-24	1.1/2"	1.1/2"	32	108	60,5	172			
023391-24-32115	38	-24	1.1/2"	2"	42	108	71,6	115			
023391-24-32172	38	-24	1.1/2"	2"	42	108	71,6	172			
023391-32-32138	51	-32	2"	2"	42	129	71,5	138			
023391-32-32160	51	-32	2"	2"	42	129	71,5	160			
023391-32-32203	51	-32	2"	2"	42	129	71,6	203			

# BRAIDFIT TYPE

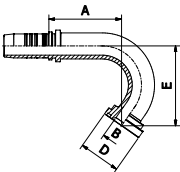


SAE STANDARD CONNECTIONS

## 023301P

110° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch		Inch	B	A	D	E			
023301-08-12P	12	-8	1/2"	3/4"		15	53	38	48			
023301-12-12P	19	-12	3/4"	3/4"		15	89	38	62			
023301-12-16P	19	-12	3/4"	1"		20	89	44,6	62			
023301-16-16P	25	-16	1"	1"		19,8	88,5	44,6	79			
023301-16-20133P	25	-16	1"	1.1/4"		26	69	51	133			
023301-20-20P	31	-20	1.1/4"	1.1/4"		26	102	51	91			
023301-20-24P	31	-20	1.1/4"	1.1/2"		32	96,5	60,5	93			
023301-24-24119P	38	-24	1.1/2"	1.1/2"		32	105,5	60,5	119			
023301-32-32P	51	-32	2"	2"		42	142	71,6	123			



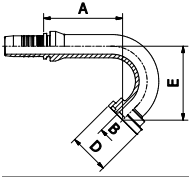
SAE STANDARD CONNECTIONS

## 023301S

125° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch		Inch	B	A	D	E			
023301-32-32S	51	-32	2"	2"		42	118,5	71,6	151			

# BRAIDFIT TYPE

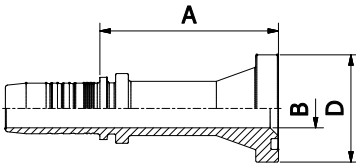


SAE STANDARD CONNECTIONS

## 023301T

135° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.		HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch		B	A	D	E				
023301-12-12T	19	-12	3/4"	3/4"		15	74,5	38	70				
023301-12-16T	19	-12	3/4"	1-		20	74,5	44,6	70				
023301-16-16T	25	-16	1"	1-		19,8	70	44,6	88,5				



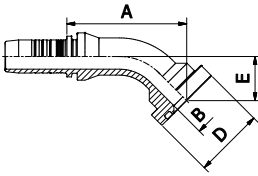
SAE STANDARD CONNECTIONS

## 023611

ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.		HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch		B	A	D					
023611-08-08	12	-8	1/2"	1/2"		9,3	52	31,8					
023611-08-12	12	-8	1/2"	3/4"		15	68,5	41,5					
023611-10-08	16	-10	5/8"	1/2"		9,3	52	31,8					
023611-10-12	16	-10	5/8"	3/4"		15	70	41,5					
023611-10-16	16	-10	5/8"	1-		20	80	47,7					
023611-12-12	19	-12	3/4"	3/4"		15	69	41,5					
023611-12-16	19	-12	3/4"	1-		20	81	47,7					
023611-16-16	25	-16	1"	1-		19,8	82,5	47,7					
023611-16-20	25	-16	1"	1.1/4"		26	90	54,2					
023611-20-16	31	-20	1.1/4"	1-		19,8	82,5	47,7					
023611-20-20	31	-20	1.1/4"	1.1/4"		26	84,5	54,2					
023611-20-24	31	-20	1.1/4"	1.1/2"		32	90,5	63,7					
023611-24-24	38	-24	1.1/2"	1.1/2"		32	92,5	63,6					
023611-32-32	51	-32	2"	2"		42	109	79,5					

# BRAIDFIT TYPE



SAE STANDARD CONNECTIONS

**023641**

45° ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3

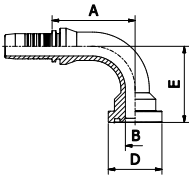
PART. REF.		HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch	Inch		B	A	D	E			
023641-08-08	12	-8	1/2"	1/2"		9,3	59	31,7	19			
023641-08-12	12	-8	1/2"	3/4"		15	68	41,5	27,5			
023641-10-08	16	-10	5/8"	1/2"		9,3	62,5	31,8	23,5			
023641 -10-12	16	-10	5/8"	3/4"		15	67,5	41,5	31			
023641 -12-12	19	-12	3/4"	3/4"		15	72,5	41,5	28			
023641 -12-16	19	-12	3/4"	1"		20	77	47,7	32,5			
023641 -16-12	25	-16	1"	3/4"		15	80	41,5	30			
023641 -16-16	25	-16	1"	1"		19,8	83,5	47,7	32,5			
023641 -16-20	25	-16	1"	1.1/4"		26	88,5	54,2	37,5			
023641-20-20	31	-20	1.1/4"	1.1/4"		26	95	54,2	37,5			
023641-20-24	31	-20	1.1/4"	1.1/2"		32	102,5	63,7	45			
023641-24-24	38	-24	1.1/2"	1.1/2"		32	118	63,7	44			
023641-24-32	38	-24	1.1/2"	2"		42	129	79,6	55,5			
023641-32-32	51	-32	2"	2"		42	151,5	79,6	60,5			
023641-32-32056	51	-32	2"	2"		42	147,5	79,6	56,5			

# BRAIDFIT TYPE

SAE STANDARD CONNECTIONS

023691

90° ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3



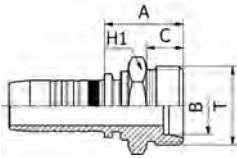
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch		Inch	B	A	D	E			
023691-08-08	12	-8	1/2"	1/2"		9,3	54,5	31,8	45			
023691-08-08040	12	-8	1/2"	1/2"		9,3	54,5	31,7	41			
023691-08-12	12	-8	1/2"	3/4"		15	54,5	41,5	53			
023691-10-08	16	-10	5/8"	1/2"		9,3	57,5	31,8	45			
023691-10-12	16	-10	5/8"	3/4"		15	53,5	41,5	60,5			
023691-10-16	16	-10	5/8"	1-		19,8	56	47,7	64			
023691-12-12	19	-12	3/4"	3/4"		15	64	41,5	59			
023691-12-16	19	-12	3/4"	1-		20	64,5	47,7	65			
023691-16-16	25	-16	1"	1-		19,8	73,5	47,7	68			
023691-16-16110	25	-16	1"	1-		19,8	73,5	47,7	110			
023691-16-16130	25	-16	1"	1-		19,8	73,5	47,7	130			
023691-16-20	25	-16	1"	1.1/4"		26	73,5	54,2	75			
023691-20-16	31	-20	1.1/4"	1-		19,8	82,5	47,7	68			
023691-20-20	31	-20	1.1/4"	1.1/4"		26	85,5	54,2	81			
023691-20-20090	31	-20	1.1/4"	1.1/4"		26	85,5	54,1	90			
023691-20-24	31	-20	1.1/4"	1.1/2"		32	85,5	63,7	91,5			
023691-24-24	38	-24	1.1/2"	1.1/2"		32	106	63,7	94,5			
023691-24-24104	38	-24	1.1/2"	1.1/2"		32	106	63,7	104			
023691-24-32	38	-24	1.1/2"	2"		42	106	79,6	110,5			
023691-32-32	51	-32	2"	2"		42	138	79,6	132			
023691-32-32138	51	-32	2"	2"		42	138	79,6	138			

# BRAIDFIT TYPE

## DIN STANDARD CONNECTIONS

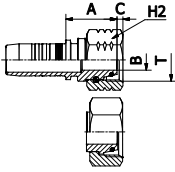
011110

METRIC MALE 24° CONE SEAT LIGHT DUTY  
DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)							
	DN	Dash	inch			T	mm	B	A	C	HI		
011110-03-12	5	-3	3/16"	M 12x1,5	6	3	21	10	14				
011110-04-12	6	-4	1/4"	M 12x1,5	6	4	21,5	10	14				
011110-04-14	6	-4	1/4"	M 14x1,5	8	4	21,5	10	14				
011110-04-16	6	-4	1/4"	M 16x1,5	10	7	23,5	11	17				
011110-04-18	6	-4	1/4"	M 18x1,5	12	9	23,5	11	19				
011110-05-16	8	-5	5/16"	M 16x1,5	10	7	24	11	17				
011110-05-18	8	-5	5/16"	M 18x1,5	12	9	24	11	19				
011110-06-16	10	-6	3/8"	M 16x1,5	10	7	24	11	17				
011110-06-18	10	-6	3/8"	M 18x1,5	12	9	24,5	11	19				
011110-06-22	10	-6	3/8"	M 22x1,5	15	10	25,5	12	22				
011110-06-26	10	-6	3/8"	M 26x1,5	18	12,5	26,5	12	27				
011110-08-16	12	-8	1/2"	M 16x1,5	10	7	24,5	11	22				
011110-08-18	12	-8	1/2"	M 18x1,5	12	9,3	24,5	11	22				
011110-08-22	12	-8	1/2"	M 22x1,5	15	10	25,5	12	22				
011110-08-26	12	-8	1/2"	M 26x1,5	18	12,5	26,5	12	27				
011110-10-22	16	-10	5/8"	M 22x1,5	15	10	25,5	12	22				
011110-10-26	16	-10	5/8"	M 26x1,5	18	12,5	26,5	12	27				
011110-10-30	16	-10	5/8"	M 30x2	22	15	28,5	14	30				
011110-12-26	19	-12	3/4"	M 26x1,5	18	15	28	12	27				
011110-12-30	19	-12	3/4"	M 30x2	22	15	30	14	30				
011110-12-36	19	-12	3/4"	M 36x2	28	19,8	31	14	36				
011110-16-36	25	-16	1"	M 36x2	28	19,8	32,5	14	36				
011110-20-45	31	-20	1.1/4"	M 45x2	35	26	40,5	16	46				
011110-24-52	38	-24	1.1/2"	M 52x2	42	32	43	16	55				

# BRAIDFIT TYPE



DIN STANDARD CONNECTIONS

021512/021513

METRIC O-RING FEMALE 24° CONE LIGHT DUTY  
DIN 20066 / ISO 12151-2

PART. REF.		HOSE BORE		Thread	Pipe	DIMENSIONS (mm)							
	DN	Dash	inch	T	mm	B	A	C	H2				
021513-03-12	5	-3	3/16"	M 12x1,5	6	3	22	0,7	14				
021513-03-14	5	-3	3/16"	M 14x1,5	8	4	24,5	1,3	17				
021512-04-12	6	-4	1/4"	M 12x1,5	6	3	21	2,2	17				
021513-04-14	6	-4	1/4"	M 14x1,5	8	4	22	1,3	17				
021513-04-16	6	-4	1/4"	M 16x1,5	10	6	22,5	1,8	19				
021513-04-18	6	-4	1/4"	M 18x1,5	12	7	22	2	22				
021512-05-14	8	-5	5/16"	M 14x1,5	8	4	20	2,9	17				
021513-05-16	8	-5	5/16"	M 16x1,5	10	6	22,5	1,8	19				
021513-05-18	8	-5	5/16"	M 18x1,5	12	7	22	2	22				
021512-06-16	10	-6	3/8"	M 16x1,5	10	6	23	3	19				
021513-06-18	10	-6	3/8"	M 18x1,5	12	7	22,5	2	22				
021513-06-22	10	-6	3/8"	M 22x1,5	15	9,3	25	1,5	27				
021512-08-18	12	-8	1/2"	M 18x1,5	12	7	29	2,9	22				
021513-08-22	12	-8	1/2"	M 22x1,5	15	9,3	25,5	1,5	27				
021513-08-26	12	-8	1/2"	M 26x1,5	18	12,5	26	2	32				
021512-10-18	16	-10	5/8"	M 18x1,5	12	7	29	2,9	22				
021512-10-22	16	-10	5/8"	M 22x1,5	15	9,5	26,5	2,4	27				
021513-10-26	16	-10	5/8"	M 26x1,5	18	12,5	26	2	32				
021513-10-30	16	-10	5/8"	M 30x2	22	15	34	3	36				
021513-10-36	16	-10	5/8"	M 36x2	28	20	30,5	3,7	41				
021512-12-22	19	-12	3/4"	M 22x1,5		9,5	31	2,4	27				
021512-12-26	19	-12	3/4"	M 26x1,5	18	12,5	31	2,3	32				
021513-12-30	19	-12	3/4"	M 30x2	22	15	28	3	36				
021513-12-36	19	-12	3/4"	M 36x2	28	20	28,5	3,7	41				
021512-16-30	25	-16	1"	M 30x2	22	15	34	4,2	36				
021513-16-36	25	-16	1"	M 36x2	28	19,8	29,5	3,7	41				
021513-16-45	25	-16	1"	M 45x2	35	26	39	4	50				
021512-20-36	31	-20	1.1/4"	M 36x2	28	19,8	35,5	5	41				
021513-20-45	31	-20	1.1/4"	M 45x2	35	26	33	4	50				
021513-20-52	31	-20	1.1/4"	M 52x2	42	32	32,5	4,5	60				
021512-24-45	38	-24	1.1/2"	M 45x2	35	26	42,5	5,8	50				
021513-24-52	38	-24	1.1/2"	M 52x2	42	32	33	4,5	60				
021512-32-52	51	-32	2"	M 52x2	42	32	50,5	5,6	60				

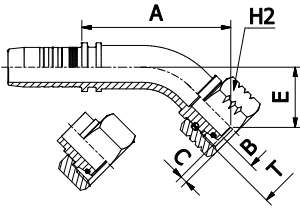
021512: THRUST-WIRE NUT / 021513: SLIP-ON NUT

# BRAIDFIT TYPE

DIN STANDARD CONNECTION

021542/021543

45° METRIC O-RING FEMALE SWEPT ELBOW  
24° CONE LIGHT DUTY  
DIN 20066/ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch			T	mm	B	A	C	E	H2
021543-03-12	5	-3	3/16"	M 12x1,5	6	3	35	0,7	16	14		
021542-04-12	6	-4	1/4"	M 12x1,5	6	3	39	2,2	18	17		
021543-04-14	6	-4	1/4"	M 14x1,5	8	4	38	1,3	16,5	17		
021543-04-16	6	-4	1/4"	M 16x1,5	10	6	38	1,8	17	19		
021543-04-18	6	-4	1/4"	M 18x1,5	12	7	38,5	2	17,5	22		
021543-05-16	8	-5	5/16"	M 16x1,5	10	6	41,5	1,8	17,5	19		
021543-05-18	8	-5	5/16"	M 18x1,5	12	7	41,5	2	17	22		
021542-06-16	10	-6	3/8"	M 16x1,5	10	6	47,5	3	21,5	19		
021543-06-18	10	-6	3/8"	M 18x1,5	12	7	43,5	2	16,5	22		
021543-06-22	10	-6	3/8"	M 22x1,5	15	9,3	45	1,5	18	27		
021542-08-18	12	-8	1/2"	M 18x1,5	12	7	56,5	2,9	25	22		
021543-08-22	12	-8	1/2"	M 22x1,5	15	9,3	52	1,5	19	27		
021543-08-26	12	-8	1/2"	M 26x1,5	18	12,5	52,5	2	19,5	32		
021542-10-22	16	-10	5/8"	M 22x1,5	15	9,3	65,5	3	29	27		
021543-10-26	16	-10	5/8"	M 26x1,5	18	12,5	62	2	26,5	32		
021542-12-26	19	-12	3/4"	M 26x1,5	18	12,5	73	2,3	31	32		
021543-12-30	19	-12	3/4"	M 30x2	22	15	71	3	28,5	36		
021543-12-36	19	-12	3/4"	M 36x2	28	19,8	72	3,7	30	41		
021543-16-36	25	-16	1"	M 36x2	28	19,8	85	3,7	32	41		
021542-20-36	31	-20	1.1/4"	M 36x2	28	19,8	107,5	5	44	41		
021543-20-45	31	-20	1.1/4"	M 45x2	35	26	100	4	36	50		
021543-20-52	31	-20	1.1/4"	M 52x2	42	32	100	4,5	42	60		
021542-24-36	38	-24	1.1/2"	M 36x2	28	19,8	113	5	34,5	41		
021543-24-52	38	-24	1.1/2"	M 52x2	42	32	117	4,5	44,5	60		

021542: THRUST-WIRE NUT / 021543: SLIP-ON NUT

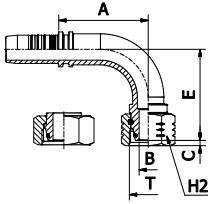


# BRAIDFIT TYPE

DIN STANDARD CONNECTION

021592/021593

90° METRIC O-RING FEMALE SWEPT ELBOW  
24° CONE LIGHT DUTY  
DIN 20066/ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch			T	mm	B	A	C	E	H2
021593-03-12	5	-3	3/16"	M 12x1,5	6	3	26	0,7	30	14		
021593-03-14	5	-3	3/16"	M 14x1,5	8	4	29	1,3	31,5	17		
021592-04-12	6	-4	1/4"	M 12x1,5	6	3	28,5	2,2	32,5	17		
021593-04-14	6	-4	1/4"	M 14x1,5	8	4	29,5	1,3	31,5	17		
021593-04-16	6	-4	1/4"	M 16x1,5	10	6	29,5	1,8	32	19		
021593-04-18	6	-4	1/4"	M 18x1,5	12	7	29,5	2	33	22		
021592-05-14	8	-5	5/16"	M 14x1,5	8	4	31	2,9	33	17		
021593-05-16	8	-5	5/16"	M 16x1,5	10	6	32	1,8	32,5	19		
021593-05-18	8	-5	5/16"	M 18x1,5	12	7	32	2	32,5	22		
021593-05-22	8	-5	5/16"	M 22x1,5	15	9,3	36	1,5	35	27		
021592-06-16	10	-6	3/8"	M 16x1,5	10	6	35,5	3	40	19		
021593-06-18	10	-6	3/8"	M 18x1,5	12	7	36,5	2	33,5	22		
021593-06-22	10	-6	3/8"	M 22x1,5	15	9,3	36,5	1,5	35	27		
021592-08-18	12	-8	1/2"	M 18x1,5	12	7	44	2,9	48	22		
021593-08-22	12	-8	1/2"	M 22x1,5	15	9,3	45	1,5	39,5	27		
021593-08-26	12	-8	1/2"	M 26x1,5	18	12,5	45	2	40	32		
021592-10-22	16	-10	5/8"	M 22x1,5	15	9,3	53,5	3	57,5	27		
021593-10-26	16	-10	5/8"	M 26x1,5	18	12,5	51,5	2	53	32		
021593-10-30	16	-10	5/8"	M 30x2	22	15	51,5	3	54	36		
021592-12-26	19	-12	3/4"	M 26x1,5	18	12,5	61,5	2,3	63	32		
021593-12-30	19	-12	3/4"	M 30x2	22	15	61,5	3	59,5	36		
021593-12-36	19	-12	3/4"	M 36x2	28	19,8	61,5	3,7	61	41		
021592-16-30	25	-16	1"	M 30x2	22	15	79,5	4,2	80,5	36		
021593-16-36	25	-16	1"	M 36x2	28	19,8	76,5	3,7	69,5	41		
021593-16-45	25	-16	1"	M 45x2	35	26	79	4	72	50		
021592-20-36	31	-20	1.1/4"	M 36x2	28	19,8	93,5	5	92	41		
021593-20-45	31	-20	1.1/4"	M 45x2	35	26	93,5	4	81	50		
021592-24-36	38	-24	1.1/2"	M 36x2	28	19,8	97	5	68	41		
021593-24-52	38	-24	1.1/2"	M 52x2	42	32	107,5	4,5	98	60		
021592-32-52	51	-32	2"	M 52x2	42	32	131	5,6	119	60		

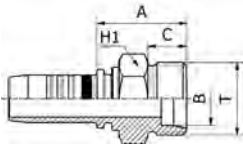
021592: THRUST-WIRE NUT / 021593: SLIP-ON NUT

# BRAIDFIT TYPE

## DIN STANDARD CONNECTIONS

### 011210

METRIC MALE 24° CONE SEAT HEAVY DUTY  
DIN 20066 / ISO 12151-2



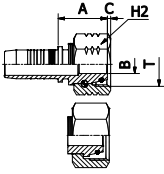
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)							
	DN	Dash	inch			T	mm	B	A	C			
011210-04-16	6	-4	1/4"	M 16x1,5	8	5,5	25,5	12	17				
011210-04-18	6	-4	1/4"	M 18x1,5	10	6	26,5	12	19				
011210-04-20	6	-4	1/4"	M 20x1,5	12	7	29	12	22				
011210-05-16	8	-5	5/16"	M 16x1,5	8	5,5	26	12	17				
011210-05-18	8	-5	5/16"	M 18x1,5	10	7	26,5	12	19				
011210-05-20	8	-5	5/16"	M 20x1,5	12	7	29	12	22				
011210-06-18	10	-6	3/8"	M 18x1,5	10	7	27	12	19				
011210-06-20	10	-6	3/8"	M 20x1,5	12	7	29	12	22				
011210-06-22	10	-6	3/8"	M 22x1,5	14	8	31	14	22				
011210-08-20	12	-8	1/2"	M 20x1,5	12	9,3	29,5	12	22				
011210-08-22	12	-8	1/2"	M 22x1,5	14	9,3	31,5	14	22				
011210-08-24	12	-8	1/2"	M 24x1,5	16	9,3	31,5	14	24				
011210-10-30	16	-10	5/8"	M 30x2	20	15	35,5	16	30				
011210-10-36	16	-10	5/8"	M 36x2	25	19,8	40	18	36				
011210-12-30	19	-12	3/4"	M 30x2	20	15	37	16	30				
011210-12-36	19	-12	3/4"	M 36x2	25	19,8	41	18	36				
011210-16-36	25	-16	1"	M 36x2	25	19,8	42,5	18	36				
011210-16-42	25	-16	1"	M 42x2	30	25	44,5	20	46				
011210-20-52	31	-20	1.1/4"	M 52x2	38	30	51	22	55				

# BRAIDFIT TYPE

DIN STANDARD CONNECTIONS

021612/021613

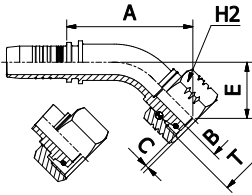
METRIC O-RING FEMALE 24° CONE HEAVY DUTY  
DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)							
	DN	Dash	inch			T	mm	B	A	C			
021613-03-14	5	-3	3/16"	M 14x1,5	6	2,5	25,5	3,5	17				
021613-03-16	5	-3	3/16"	M 16x1,5	8	3	21,5	3,4	19				
021613-04-14	6	-4	1/4"	M 14x1,5	6	3	23,5	1,9	17				
021613-04-16	6	-4	1/4"	M 16x1,5	8	4	22	3,4	19				
021613-04-18	6	-4	1/4"	M 18x1,5	10	4	28	2,5	22				
021613-04-20	6	-4	1/4"	M 20x1,5	12	7	26	2	24				
021613-05-18	8	-5	5/16"	M 18x1,5	10	5,5	28	2,5	22				
021613-05-20	8	-5	5/16"	M 20x1,5	12	5,5	25	2	24				
021613-06-18	10	-6	3/8"	M 18x1,5	10	7	28,5	2,5	22				
021613-06-20	10	-6	3/8"	M 20x1,5	12	7	25,5	2	24				
021613-06-22	10	-6	3/8"	M 22x1,5	14	7	32,5	3	27				
021613-06-24	10	-6	3/8"	M 24x1,5	16	7	32	4	30				
021612-08-20	12	-8	1/2"	M 20x1,5	12	7	29	2,5	24				
021612-08-22	12	-8	1/2"	M 22x1,5	14	7	27	2,5	27				
021613-08-24	12	-8	1/2"	M 24x1,5	16	9,3	26,5	4	30				
021613-08-30	12	-8	1/2"	M 30x2	20	12,5	37	3,5	36				
021612-10-24	16	-10	5/8"	M 24x1,5	16	9,3	29,5	4	30				
021613-10-30	16	-10	5/8"	M 30x2	20	12,5	30,5	3,5	36				
021613-10-36	16	-10	5/8"	M 36x2	25	15	40	4,5	41				
021612-12-24	19	-12	3/4"	M 24x1,5	16	9,3	30,5	4	30				
021612-12-30	19	-12	3/4"	M 30x2	20	12,5	33,5	2,2	36				
021613-12-36	19	-12	3/4"	M 36x2	25	15	34	4,5	41				
021612-16-30	25	-16	1"	M 30x2	20	12,5	34,5	2,2	36				
021612-16-36	25	-16	1"	M 36x2	25	15	35,5	1,7	41				
021613-16-42	25	-16	1"	M 42x2	30	19,8	35,5	6,3	50				
021613-20-52	31	-20	1.1/4"	M 52x2	38	26	37,5	8	60				
021613-24-52	38	-24	1.1/2"	M 52x2	38	26	49,5	8	60				

021612: THRUST-WIRE NUT / 021613: SLIP-ON NUT

# BRAIDFIT TYPE



DIN STANDARD CONNECTIONS

021642/021643

45° METRIC O-RING FEMALE SWEEP ELBOW  
24° CONE HEAVY DUTY  
DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch			T	mm	B	A	C	E	H2
021643-04-14	6	-4	1/4"	M 14x1,5	6	3	38,5	1,9	17,5	17		
021643-04-16	6	-4	1/4"	M 16x1,5	8	4	36,5	3,4	15	19		
021643-04-18	6	-4	1/4"	M 18x1,5	10	4	37,5	2,5	16,5	22		
021643-05-18	8	-5	5/16"	M 18x1,5	10	4	42,5	2,5	18	22		
021643-05-20	8	-5	5/16"	M 20x1,5	12	5,5	42	2	18,5	24		
021642-06-18	10	-6	3/8"	M 18x1,5	10	4	49	3,9	23	22		
021643-06-20	10	-6	3/8"	M 20x1,5	12	7	45	2,5	18	24		
021643-06-22	10	-6	3/8"	M 22x1,5	14	7	45,5	3	18,5	27		
021642-08-22	12	-8	1/2"	M 22x1,5	14	7	57,5	2,5	25,5	27		
021643-08-24	12	-8	1/2"	M 24x1,5	16	9,3	52,5	4	20	30		
021643-10-30	16	-10	5/8"	M 30x2	20	12,5	65,5	3,5	29,5	36		
021642-12-30	19	-12	3/4"	M 30x2	20	12,5	76,5	2,2	34	36		
021643-12-36	19	-12	3/4"	M 36x2	25	15	75	4,5	32,5	41		
021642-16-36	25	-16	1"	M 36x2	25	15	98	1,7	43,5	41		
021643-16-42	25	-16	1"	M 42x2	30	19,8	90	6,3	35,5	50		
021643-20-52	31	-20	1.1/4"	M 52x2	38	26	103	8	39,5	60		
021642-24-52	38	-24	1.1/2"	M 52x2	38	24,7	111	8,8	48	60		

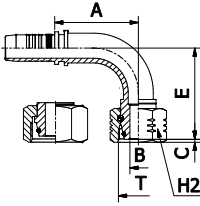
021642: THRUST-WIRE NUT / 021643: SLIP-ON NUT

# BRAIDFIT TYPE

DIN STANDARD CONNECTIONS

021692/021693

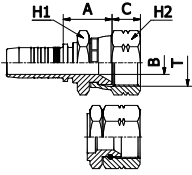
90° METRIC O-RING FEMALE SWEPT ELBOW  
24° CONE HEAVY DUTY  
DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch	T	mm	B	A	C	E	H2		
021693-03-14	5	-3	3/16"	M 14x1,5	6	3	26	3,5	30	17		
021693-03-16	5	-3	3/16"	M 16x1,5	8	3	26	3,4	29,5	19		
021693-04-14	6	-4	1/4"	M 14x1,5	6	3	29,5	1,9	32,5	17		
021693-04-16	6	-4	1/4"	M 16x1,5	8	4	29,5	3,4	29,5	19		
021693-04-18	6	-4	1/4"	M 18x1,5	10	4	29,5	2,5	31	22		
021693-04-20	6	-4	1/4"	M 20x1,5	12	5,5	29,5	2	34,5	24		
021693-05-18	8	-5	5/16"	M 18x1,5	10	4	32	2,5	33,5	22		
021693-05-20	8	-5	5/16"	M 20x1,5	12	5,5	32	2	34	24		
021692-06-18	10	-6	3/8"	M 18x1,5	10	4	35,5	3,9	42,5	22		
021693-06-20	10	-6	3/8"	M 20x1,5	12	7	36,5	2	35	24		
021693-06-22	10	-6	3/8"	M 22x1,5	14	7	36,5	3	37	27		
021693-06-24	10	-6	3/8"	M 24x1,5	16	9,3	36,5	4	36	30		
021692-08-22	12	-8	1/2"	M 22x1,5	14	7	44	2,5	48,5	27		
021693-08-24	12	-8	1/2"	M 24x1,5	16	9,3	45	4	40,5	30		
021693-08-30	12	-8	1/2"	M 30x2	20	12,5	45	3,5	44,5	36		
021692-10-24	16	-10	5/8"	M 24x1,5	16	9,3	53,5	4	58,5	30		
021693-10-30	16	-10	5/8"	M 30x2	20	12,5	51,5	3,5	57,5	36		
021692-12-30	19	-12	3/4"	M 30x2	20	12,5	61,5	2,2	67,5	36		
021693-12-36	19	-12	3/4"	M 36x2	25	15	61,5	4,5	64,5	41		
021692-16-36	25	-16	1"	M 36x2	25	15	79,5	1,7	86	41		
021693-16-42	25	-16	1"	M 42x2	30	19,8	79	6,3	74,5	50		
021693-20-52	31	-20	1.1/4"	M 52x2	38	26	93,5	8	85,5	60		
021692-24-52	38	-24	1.1/2"	M 52x2	38	24,7	91,5	8,8	95,5	60		

021692: THRUST-WIRE NUT / 021693: SLIP-ON NUT

# BRAIDFIT TYPE



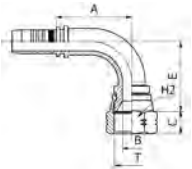
JIS STANDARD CONNECTIONS

## 024011/024012

JIS METRIC FEMALE 60° CONE SEAT  
(KOMATSU) JIS B 8363

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	H1	H2	
024011-04-14	6	-4	1/4"	M 14x1,5	4	23	10,5	19	19		
024011-04-18	6	-4	1/4"	M 18x1,5	7	22,5	11,5	24	24		
024011-05-16	8	-5	5/16"	M 16x1,5	5,5	22,5	9,3	21	21		
024011-06-14	10	-6	3/8"	M 14x1,5	4	23,5	10,5	19	19		
024011-06-18	10	-6	3/8"	M 18x1,5	7	23,5	11,5	24	24		
024011-08-22	12	-8	1/2"	M 22x1,5	9,3	25	13	27	27		
024011-10-24	16	-10	5/8"	M 24x1,5	12,5	26,5	15,1	32	32		
024011-12-30	19	-12	3/4"	M 30x1,5	15	31,5	18,3	36	36		
024011-16-33	25	-16	1"	M 33x1,5	19,8	33,5	21,3	41	41		
024011-20-36	31	-20	1.1/4"	M 36x1,5	19,8	41	20	46	46		
024012-24-42	38	-24	1.1/2"	M 42x1,5	26	44	18,8	55	55		

024011: CRIMPED-BACK NUT / 024012: THRUST-WIRE NUT



JIS STANDARD CONNECTIONS

## 024091

90° JIS METRIC FEMALE 60° CONE SEAT

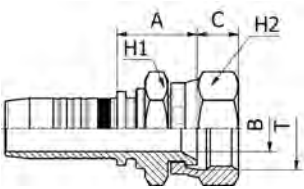
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
024091-04-14	6	-4	1/4"	M 14x1,5	4	29	10,5	28,5	19		
024091-06-18	10	-6	3/8"	M 18x1,5	7	35,5	11,5	34	24		
024091-08-22	12	-8	1/2"	M 22x1,5	9,3	44	13	40	27		
024091-10-24	16	-10	5/8"	M 24x1,5	12,5	53,5	15,2	47	32		
024091-12-30	19	-12	3/4"	M 30x1,5	15	61,5	18,3	56,5	36		

# BRAIDFIT TYPE

JIS STANDARD CONNECTIONS

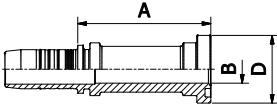
## 023811

JIS BSP FEMALE 60° CONE SEAT  
(TOYOTA) - JIS B 8363  
(CRIMPED-BACK NUT)



PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)						
	DN	Dash	inch			T	B	A	C	H1	H2	
023811-04-04	6	-4	1/4"	1/4"-19		4	18,5	8,3	19	19		
023811-06-06	10	-6	3/8"	3/8"-19		7	23	10	22	22		
023811-08-08	12	-8	1/2"	1/2"-14		9,3	22	11,5	27	27		
023811-12-12	19	-12	3/4"	3/4"-14		15	26	13,5	32	32		
023811-16-16	25	-16	1"	1 " -11		19,8	30,5	14,5	38	38		

# BRAIDFIT TYPE

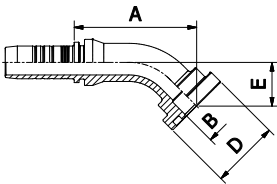


ORIGINAL EQUIPMENT CONNECTIONS

**024111**

STRAIGHT KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D			
024111-08-10	12	-8	1/2"	5/8"	14	66	34				
024111-10-10	16	-10	5/8"	5/8"	14	65,5	34				
024111-12-10	19	-12	3/4"	5/8"	14	66,5	34				

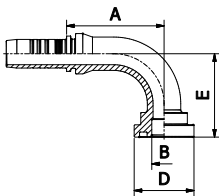


ORIGINAL EQUIPMENT CONNECTIONS

**024141**

45° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E		
024141-10-10	16	-10	5/8"	5/8"	14	61	34	22			



ORIGINAL EQUIPMENT CONNECTIONS

**024191**

90° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E		
024191-10-10	16	-10	5/8"	5/8"	14	56	34	47,5			
024191-12-10	19	-12	3/4"	5/8"	14	56	34	47,5			

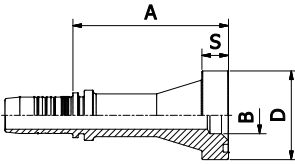


# BRAIDFIT TYPE

ORIGINAL EQUIPMENT CONNECTIONS

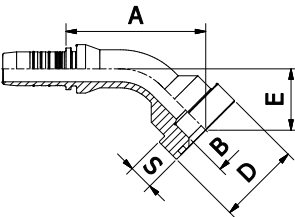
## 023911

STRAIGHT SUPERCAT FLANGE



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)				
------------	-----------	--	--	--------	-----------------	--	--	--	--

	DN	Dash	inch	inch	B	A	D	S			
023911-12-12	19	-12	3/4"	3/4"	15	74,5	41,5	14,3			
023911-12-16	19	-12	3/4"	1"	19,8	83,5	47,7	14,3			
023911-16-16	25	-16	1"	1"	19,8	87	47,7	14,3			
023911-16-20	25	-16	1"	1.1/4"	26	92,5	54	14,3			
023911-20-20	31	-20	1.1/4"	1.1/4"	26	86	54	14,3			
023911-24-24	38	-24	1.1/2"	1.1/2"	32	94	63,6	14,3			



ORIGINAL EQUIPMENT CONNECTIONS

## 023941

45° SUPERCAT FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)				
------------	-----------	--	--	--------	-----------------	--	--	--	--

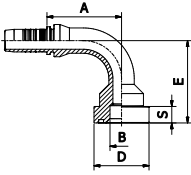
	DN	Dash	inch	inch	B	A	D	E	S		
023941-12-12	19	-12	3/4"	3/4"	15	77	41,5	32	14,3		
023941-16-16	25	-16	1"	1"	19,8	89,5	47,7	36,5	14,3		
023941-16-20	25	-16	1"	1"	26	92,5	54	40,5	14,3		
023941-20-20	31	-20	1.1/4"	1.1/4"	26	99	54	41,5	14,3		
023941-24-24	38	-24	1.1/2"	1.1/2"	32	119	63,6	45,5	14,3		

# BRAIDFIT TYPE

ORIGINAL EQUIPMENT CONNECTIONS

023991

90° SUPERCAT FLANGE

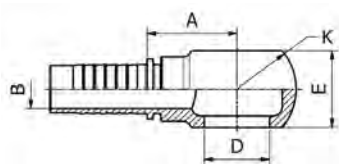


PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch	Inch	B	A	D	E	S		
023991-12-12	19	-12	3/4"	3/4"	15	64,5	41,5	64,5	14,3		
023991-16-16	25	-16	1"	1"	19,8	77,5	47,7	76,5	14,3		
023991-16-20	25	-16	1"	1.1/4"	26	75,5	54	80,5	14,3		
023991-20-20	31	-20	1.1/4"	1.1/4"	26	85,5	54	87	14,3		
023991-20-24	31	-20	1.1/4"	1.1/2"	32	85,5	63,7	93	14,3		

BANJO CONNECTIONS

020310

BSP BANJO



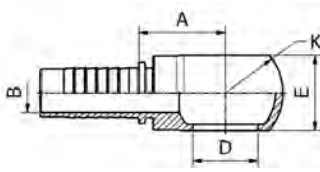
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch	T	B	A	D	E	K		
020310-04-04	6	-4	1/4"	1/4"-19	4,4	22	13,2	15	24		
020310-04-06	6	-4	1/4"	3/8"-19	4,4	23,5	16,7	18	28		
020310-05-04	8	-5	5/16"	1/4"-19	5	23	13,2	14	24		
020310-05-06	8	-5	5/16"	3/8"-19	5,6	23	16,7	20	29		
020310-06-06	10	-6	3/8"	3/8"-19	7	24,5	16,7	20	29		
020310-06-08	10	-6	3/8"	1/2"-19	7,1	27	21	25	38		
020310-08-08	12	-8	1/2"	1/2"-14	9,8	27,5	21	25	38		
020310-10-10	16	-10	5/8"	5/8"-14	12,7	29,5	23	27	40		
020310-12-12	19	-12	3/4"	3/4"-14	15,5	36,5	26,5	31	48		
020310-16-16	25	-16	1"	1" -11	20,5	40,5	33,3	42	60		

# BRAIDFIT TYPE

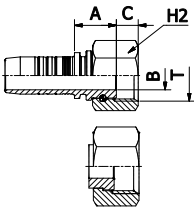
BANJO CONNECTIONS

020910

METRIC BANJO DIN 7642



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	D	E	K	
020910-04-12	6	-4	1/4"	M 12x1,5	4,4	22,5	12	12	20		
020910-04-14	6	-4	1/4"	M 14x1,5	4,4	23,5	14	14	24		
020910-05-14	8	-5	5/16"	M 14x1,5	5,6	23,5	14	14	24		
020910-06-14	10	-6	3/8"	M 14x1,5	7,1	25	14	14	24		
020910-06-16	10	-6	3/8"	M 16x1,5	7,1	25	16	16	28		
020910-06-18	10	-6	3/8"	M 18x1,5	7,1	27	18	20	32		
020910-08-18	12	-8	1/2"	M 18x1,5	9,8	28	18	20	32		
020910-08-22	12	-8	1/2"	M 22x1,5	9,8	31	22	25	39		
020910-10-22	16	-10	5/8"	M 22x1,5	12,7	31	22	25	39		
020910-12-26	19	-12	3/4"	M 26x1,5	15,5	34,5	26	30	46		



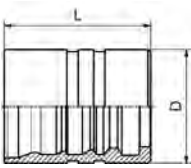
CUSTOM STANDARD CONNECTIONS

021212/021213

METRIC STANDARD

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)					
	DN	Dash	inch		T	B	A	C	H2	
021212-021213	10	-6	3/8	M 18x1,5	7	22,5	6	25		

# INTERLOCK TYPE

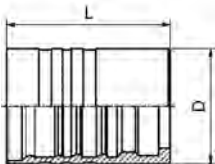


FERRULE

**001500**

DOUBLE SKIVE FERRULE  
FOR HEAVY DUTY SPIRAL HOSES (4 PLY)

PART. REF.	HOSE BORE			DIMENSIONS (mm)							
	DN	Dash	inch			D	L				
001500-10	16	-10	5/8"			35	40,9				
001500-12	19	-12	3/4"			40	51,4				
001500-16	25	-16	1"			48	64,5				
001500-20	31	-20	1.1/4"			57	84				
001500-24	38	-24	1.1/2"			64,3	94				
001500-32	51	-32	2"			83,5	107				
001500-40	63	-40	2.1/2"			100	135				
001500-48	76	-48	3"			107	125				



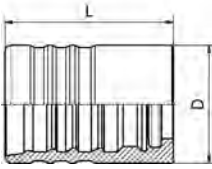
FERRULE

**001600**

DOUBLE SKIVE FERRULE  
FOR HEAVY DUTY SPIRAL HOSES (6 PLY)

PART. REF.	HOSE BORE			DIMENSIONS (mm)							
	DN	Dash	inch			D	L				
001600-20	31	-20	1.1/4"			60	85				
001600-24	38	-24	1.1/2"			69	96				

# INTERLOCK TYPE

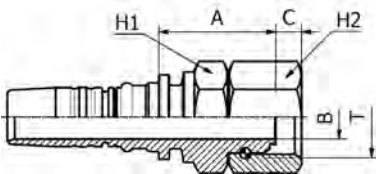


FERRULE

001800/001810

DOUBLE SKIVE FERRULE  
FOR EXTRA DUTY SPIRAL HOSES (6 PLY)

PART. REF.	HOSE BORE			DIMENSIONS (mm)									
	DN	Dash	inch			D	L						
001800-20	31	-20	1.1/4"			65	88,2						
001800-32	51	-32	2"			86,5	108						
001810-40	63	-40	2.1/2"			103	135						
001810-48	76	-48	3"			113,5	125						



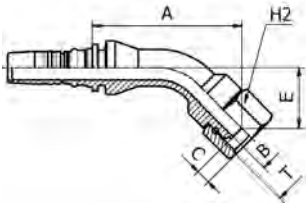
BS STANDARD CONNECTIONS

040812

BSP O-RING FEMALE 60° CONE  
BS5200 / ISO 1215-6  
(THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)								
	DN	Dash	inch	T		B	A	C	H1	H2			
040812-12-12	19	-12	3/4"	3/4"-14		14,5	39	8,5	32	32			
040812-12-16	19	-12	3/4"	1" -11		19	36,5	10,6	32	41			
040812-16-12	25	-16	1"	3/4"-14		15	35	8,5	41	32			
040812-16-16	25	-16	1"	1" -11		19,5	44,5	10,6	41	41			
040812-16-20	25	-16	1"	1.1/4"-11		26,1	41	10,5	41	50			
040812-20-16	31	-20	1.1/4"	1" -11		19	44,5	10,6	50	41			
040812-20-20	31	-20	1.1/4"	1.1/4"-11		26,1	52,5	10,5	50	50			
040812-20-24	31	-20	1.1/4"	1.1/2"-11		32,1	46	12,5	50	60			
040812-24-20	38	-24	1.1/2"	1.1/4"-11		26,1	48,5	10,5	60	50			
040812-24-24	38	-24	1.1/2"	1.1/2"-11		32,1	51,5	12,5	60	60			
040812-32-32	51	-32	2"	2" -11		42	51,5	16,1	70	70			

# INTERLOCK TYPE

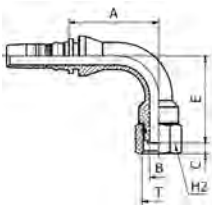


BS STANDARD CONNECTIONS

## 040842

45° BSP O-RING FEMALE SWEEP ELBOW 60° CONE  
BS5200 / ISO 1215-6  
(THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)						
	DN	Dash	inch			T	B	A	C	E	H2	
040842-12-12	19	-12	3/4"	3/4"-14		14,5	88	8,5	35	32		
040842-12-16	19	-12	3/4"	1" -11		19	89,5	10,6	36,5	41		
040842-16-12	25	-16	1"	3/4"-14		15	105,5	8,5	36	32		
040842-16-16	25	-16	1"	1" -11		19,5	97	10,6	40	41		
040842-16-20	25	-16	1"	1.1/4"-11		26,1	108,5	10,5	38	50		
040842-20-16	31	-20	1.1/4"	1" -11		19	118	10,6	47,5	41		
040842-20-20	31	-20	1.1/4"	1.1/4"-11		26,1	120	10,5	49,5	50		
040842-20-24	31	-20	1.1/4"	1.1/2"-11		32,1	114,5	12,5	40	60		
040842-24-24	38	-24	1.1/2"	1.1/2"-11		32,1	126,5	12,5	50	60		
040842-32-32	51	-32	2"	2" -11		42	162,5	16,1	66,5	70		



BS STANDARD CONNECTIONS

## 040892

90° BSP O-RING FEMALE SWEEP ELBOW 60° CONE  
BS5200 / ISO 1215-6  
(THRUST-WIRE NUT)

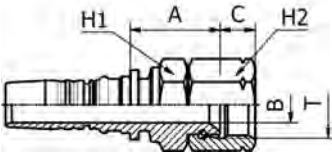
PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)						
	DN	Dash	inch			T	B	A	C	E	H2	
040892-12-12	19	-12	3/4"	3/4"-14		14,5	72,5	8,5	70	32		
040892-12-16	19	-12	3/4"	1" -11		19	72,5	10,6	71	41		
040892-16-16	25	-16	1"	1" -11		19,5	82	10,6	80,5	41		
040892-16-20	25	-16	1"	1.1/4"-11		26,1	95	10,5	78,5	50		
040892-20-20	31	-20	1.1/4"	1.1/4"-11		26,1	98,5	10,5	98	50		
040892-20-24	31	-20	1.1/4"	1.1/2"-11		32,1	98,5	12,5	84,5	60		
040892-24-24	38	-24	1.1/2"	1.1/2"-11		32,1	111,5	12,5	109	60		
040892-32-32	51	-32	2"	2" -11		42	143	16,1	140,5	70		

# INTERLOCK TYPE

SAE STANDARD CONNECTIONS

## 042512

JIC MALE 37° CONE  
SAE J516 / ISO 1215-5

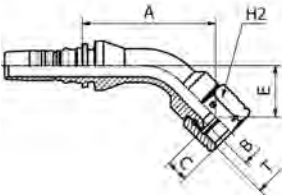


PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	H1	H2	
042512-12-12	19	-12	3/4"	1.1/16"-12	15	36	14,2	32	32		
042512-12-16	19	-12	3/4"	1.5/16"-12	21,7	32,5	15,2	41	41		
042512-16-16	25	-16	1"	1.5/16"-12	21,7	40,5	15,2	41	41		
042512-16-20	25	-16	1"	1.5/8"-12	26,1	44	16,2	50	50		
042512-20-20	31	-20	1.1/4"	1.5/8"-12	26,1	51,5	16,2	50	50		
042512-20-24	31	-20	1.1/4"	1.7/8"-12	30,5	51	18,8	55	60		
042512-24-24	38	-24	1.1/2"	1.7/8"-12	31	54,5	18,8	55	60		
042512-32-32	51	-32	2"	2.1/2"-12	42	54	24	70	75		

SAE STANDARD CONNECTIONS

## 042542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT  
SAE J516 / ISO 1215-5  
(THRUST-WIRE NUT)



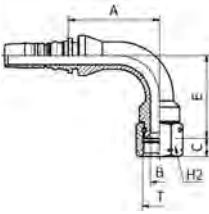
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
042542-12-12	19	-12	3/4"	1.1/16"-12	15	86	14,2	33	32		
042542-16-16	25	-16	1"	1.5/16"-12	21,7	95	15,2	37	41		
042542-16-20	25	-16	1"	1.5/8"-12	26,1	102,5	16,2	36,5	50		
042542-20-20	31	-20	1.1/4"	1.5/8"-12	26,1	115,5	16,2	45	50		
042542-24-24	38	-24	1.1/2"	1.7/8"-12	32,1	126,5	18,8	50	60		
042542-32-32	51	-32	2"	2.1/2"-12	42	161,5	24	63,5	75		

# INTERLOCK TYPE

SAE STANDARD CONNECTIONS

## 042592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT  
SAE J516 / ISO 1215-5  
(THRUST-WIRE NUT)

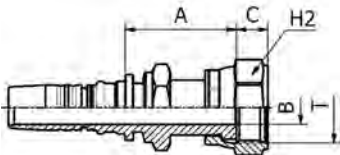


PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)							
	DN	Dash	inch			T	B	A	C	E			
042592-12-12	19	-12	3/4"	1.1/16"-12		15	72,5	14,2	66	32			
042592-12-16	19	-12	3/4"	1.5/16"-12		21,7	72,5	15,2	71,5	41			
042592-16-16	25	-16	1"	1.5/16"-12		21,7	82,5	15,2	77,5	41			
042592-16-20	25	-16	1"	1.5/8"-12		26,1	90,5	16,2	76,5	50			
042592-20-20	31	-20	1.1/4"	1.5/8"-12		26,1	98,5	16,2	92	50			
042592-20-24	31	-20	1.1/4"	1.7/8"-12		32,1	101,5	18,8	108	60			
042592-24-24	38	-24	1.1/2"	1.7/8"-12		32,1	111,5	18,8	106	60			
042592-32-32	51	-32	2"	2.1/2"-12		42	144,5	24	137	75			

SAE STANDARD CONNECTIONS

## 042411

ORFS FEMALE - SAE J516 / ISO 12151-1  
PULLBACK TYPE (CRIMPED-BACK NUT)



PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)							
	DN	Dash	inch			T	B	A	C	H1			
042411-10-10	16	-10	5/8"	1" -14		11,5	40,5	12,5	24	30			
042411-12-12	19	-12	3/4"	1.3/16"-12		14,5	48	13,5	32	36			
042411-12-16	19	-12	3/4"	1.7/16"-12		19	50	13,5	36	41			
042411-16-12	25	-16	1"	1.3/16"-12		14,3	50	13,5	41	36			
042411-16-16	25	-16	1"	1.7/16"-12		19,5	51,5	13,5	41	41			
042411-16-20	25	-16	1"	1.11/16"-12		26	48,5	14,8	41	50			
042411-20-20	31	-20	1.1/4"	1.11/16"-12		25	55	14,8	50	50			
042411-24-24	38	-24	1.1/2"	2" .12		31	58	15,8	60	60			

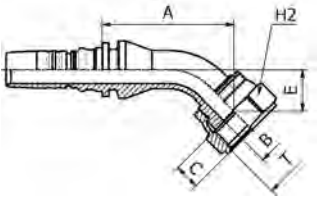


# INTERLOCK TYPE

SAE STANDARD CONNECTIONS

## 042441

45° ORFS FEMALE SWEPT ELBOW  
SAE J516 / ISO 12151-1  
(CRIMPED-BACK NUT)

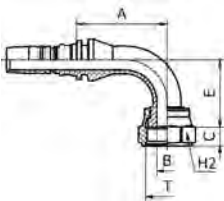


PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)						
	DN	Dash	inch			T	B	A	C	E	H2	
042441-10-12	16	-10	5/8"	1.3/16"-12		14,3	56	13,5	21,5	36		
042441-12-12	19	-12	3/4"	1.3/16"-12		14,5	69	13,5	21,5	36		
042441-12-16	19	-12	3/4"	1.7/16"-12		19	77,5	13,5	25	41		
042441-16-16	25	-16	1"	1.7/16"-12		19,5	86	13,5	24	41		
042441-20-20	31	-20	1.1/4"	1.11/16"-12		25	96,5	14,8	26	50		
042441-24-24	38	-24	1.1/2"	2". 12		31	112	15,8	31,5	60		

SAE STANDARD CONNECTIONS

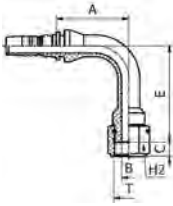
## 042491

90° ORFS FEMALE SWEPT ELBOW  
SAE J516 / ISO 12151-1  
(CRIMPED-BACK NUT)



PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)						
	DN	Dash	inch			T	B	A	C	E	H2	
042491-10-12	16	-10	5/8"	1.3/16"-12		14,3	51	13,5	47	36		
042491-12-12	19	-12	3/4"	1.3/16"-12		14,5	65	13,5	48	36		
042491-12-12109	19	-12	3/4"	1.3/16"-12		14,5	65	13,5	109	36		
042491-12-16	19	-12	3/4"	1.7/16"-12		19	70	13,5	53	41		
042491-16-16	25	-16	1"	1.7/16"-12		19,5	85	13,5	57	41		
042491-16-16128	25	-16	1"	1.7/16"-12		19,5	85	13,5	128	41		
042491-16-20	25	-16	1"	1.11/16"-12		24	85	14,8	58	50		
042491-20-20	31	-20	1.1/4"	1.11/16"-12		25	98,5	14,8	65	50		
042491-24-24	38	-24	1.1/2"	2". 12		31	115,5	15,8	79,5	60		

# INTERLOCK TYPE

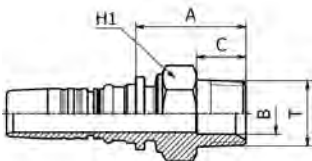


SAE STANDARD CONNECTIONS

## 044492 LONG DROP

90° ORFS FEMALE LONG DROP ELBOW  
SAE J516 / ISO 12151-1  
(THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)						
	DN	Dash	inch		T	B	A	C	E	H2	
044492-12-12	19	-12	3/4"	1.3/16"-12	14,5	72,5	14,1	96	36		
044492-20-20	31	-20	1.1/4"	1.11/16"-12	25	98,5	15,1	129	55		



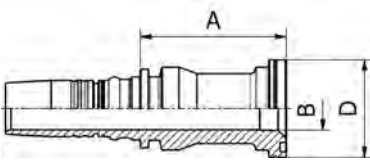
SAE STANDARD CONNECTIONS

## 032810

NPTF MALE 60° CONE SEAT  
SAE J516 / J514

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)					
	DN	Dash	inch		T	B	A	C	H1	
032810-10-12	16	-10	5/8"	3/4"-14	16	40,7	19,2	27		
032810-12-12	19	-12	3/4"	3/4"-14	16	42,9	19,2	32		
032810-16-16	25	-16	1"	1" - 11,5	19,5	50,5	24,2	38		
032810-20-20	31	-20	1.1/4"	1.1/4"-11,5	26,1	61	25	46		
032810-24-24	38	-24	1.1/2"	1.1/2"-11,5	32,1	62,5	26	50		
032810-24-32	38	-24	1.1/2"	2"-11,5	42	67	26,5	70		
032810-32-32	51	-32	2"	2"-11,5	42	67	26,5	70		
032810-40-40	63	-40	2.1/2"	2.1/2"-8	51,5	94,5	43	80		
032810-48-48	76	-48	3"	3"-8	62,5	123,5	51,5	100		

# INTERLOCK TYPE

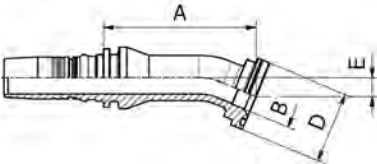


SAE STANDARD CONNECTIONS

## 043310

ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)								
	DN	Dash	inch		Inch	B	A	D					
043310-10-16	16	-10	5/8"	1"		20	64	44,6					
043310-12-12	19	-12	3/4"	3/4"		16	60	38					
043310-12-16	19	-12	3/4"	1"		20	65,5	44,6					
043310-16-12	25	-16	1"	3/4"		16	67	38					
043310-16-16	25	-16	1"	1"		20	66,5	44,6					
043310-16-20	25	-16	1"	1.1/4"		26,1	73	51					
043310-20-20	31	-20	1.1/4"	1.1/4"		26,1	75	51					
043310-20-24	31	-20	1.1/4"	1.1/2"		32,1	80	60,5					
043310-24-24	38	-24	1.1/2"	1.1/2"		32,1	80,5	60,5					
043310-24-32	38	-24	1.1/2"	2"		42	88,5	71,6					
043310-32-24	38	-24	1.1/2"	2"		32,1	104	60,5					
043310-32-32	51	-32	2"	2"		42	82,5	71,6					
043310-40-40	63	-40	2.1/2"	2.1/2"		51,5	92,5	84,3					
043310-48-48	76	-48	3"	3"		62,5	101	101,6					



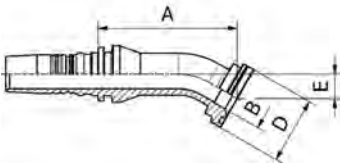
SAE STANDARD CONNECTIONS

## 043320

22,5° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)								
	DN	Dash	inch		Inch	B	A	D	E				
043320-16-16	25	-16	1"	1"		20	94,5	44,6	11,5				

# INTERLOCK TYPE

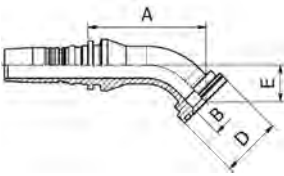


SAE STANDARD CONNECTIONS

## 043330

30° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch	B	A	D	E				
043330-16-16	25	-16	1"	1"	20	93	44,6	16,5				
043330-20-20	31	-20	1.1/4"	1.1/4"	26,1	106,5	51	17,5				
043330-24-24	38	-24	1.1/2"	1.1/2"	32,1	118	60,5	20				
043330-32-32	51	-32	2"	2"	42	137	71,6	22				



SAE STANDARD CONNECTIONS

## 043340

45° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3

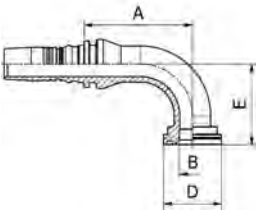
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch	B	A	D	E				
043340-12-12	19	-12	3/4"	3/4"	16	75,5	38	26				
043340-12-16	19	-12	3/4"	1"	20	76	44,6	23				
043340-16-16	25	-16	1"	1"	20	87	44,6	27,5				
043340-16-16032	25	-16	1"	1"	20	92	44,5	32				
043340-16-20	25	-16	1"	1.1/4"	26	87,5	51	27,5				
043340-20-20	31	-20	1.1/4"	1.1/4"	26,1	100,5	51	29,5				
043340-20-20038	31	-20	1.1/4"	1.1/4"	26,1	109	50,9	38				
043340-20-24	31	-20	1.1/4"	1.1/2"	32,1	101,5	60,5	31				
043340-24-24	38	-24	1.1/2"	1.1/2"	32,1	111	60,5	34,5				
043340-24-24044	38	-24	1.1/2"	1.1/2"	32,1	120	60,5	44				
043340-24-32	38	-24	1.1/2"	2"	42	113	71,6	34,5				
043340-32-32	51	-32	2"	2"	42	128,5	71,6	39				
043340-32-32056	51	-32	2"	2"	42	146	71,6	56				
043340-48-48	76	-48	3"	3"	59	147,5	101,6	53				

# INTERLOCK TYPE

SAE STANDARD CONNECTIONS

## 043390

90° ISO/SAE CODE 61 FLANGE  
SAE J516 / ISO 12151-3



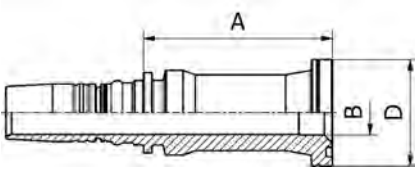
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch	B	A	D	E				
043390-10-16	16	-10	5/8"	1"	20	71	44,6	52				
043390-12-12	19	-12	3/4"	3/4"	16	72	38	52				
043390-12-12058	19	-12	3/4"	3/4"	16	72	38	58				
043390-12-16	19	-12	3/4"	1"	20	72,5	44,6	52				
043390-16-16	25	-16	1"	1"	20	83,5	44,6	62				
043390-16-16070	25	-16	1"	1"	20	83,5	44,5	70				
043390-16-20	25	-16	1"	1.1/4"	26	83,5	51	62				
043390-20-16	31	-20	1.1/4"	1"	19,8	96,5	44,6	66				
043390-20-20	31	-20	1.1/4"	1.1/4"	26,1	99	51	70				
043390-20-20090	31	-20	1.1/4"	1.1/4"	26,1	99	50,9	90				
043390-20-24	31	-20	1.1/4"	1.1/2"	32,1	98,5	60,5	72				
043390-24-24	38	-24	1.1/2"	1.1/2"	32,1	111,5	60,5	84				
043390-24-24104	38	-24	1.1/2"	1.1/2"	32,1	111,5	60,5	104				
043390-24-32	38	-24	1.1/2"	2"	42	111,5	71,6	84				
043390-32-32	51	-32	2"	2"	42	133,5	71,6	99				
043390-32-32138	51	-32	2"	2"	42	133,5	71,5	138				
043390-48-48	76	-48	3"	3"	59	145	101,6	140				

# INTERLOCK TYPE

SAE STANDARD CONNECTIONS

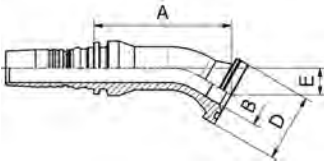
043610

ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A				
043610-10-12	16	-10	5/8"	3/4"	16	65	41,5				
043610-10-16	16	-10	5/8"	1"	20	81,5	47,7				
043610-12-12	19	-12	3/4"	3/4"	16	71,5	41,4				
043610-12-16	19	-12	3/4"	1"	20	83,5	47,7				
043610-16-12	25	-16	1"	3/4"	16	80,5	41,4				
043610-16-16	25	-16	1"	1"	20	84,5	47,7				
043610-16-20	25	-16	1"	1.1/4"	26	89	54,2				
043610-20-16	31	-20	1.1/4"	1"	20	87	47,7				
043610-20-20	31	-20	1.1/4"	1.1/4"	26,1	91	54,2				
043610-20-24	31	-20	1.1/4"	1.1/2"	32,1	97	63,7				
043610-24-20	38	-24	1.1/2"	1.1/4"	26	101	54,2				
043610-24-24	38	-24	1.1/2"	1.1/2"	32,1	97,5	63,7				
043610-24-32	38	-24	1.1/2"	2"	42	113	79,6				
043610-32-24	51	-32	2"	1.1/2"	32,1	117	63,7				
043610-32-32	51	-32	2"	2"	42	112,5	79,6				
043610-40-40	63	-40	2.1/2"	2.1/2"	51,5	126,5	107,9				
043610-48-48	76	-48	3"	3"	62,5	167	131,9				

# INTERLOCK TYPE

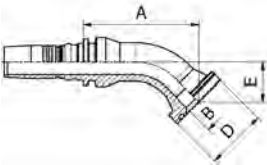


SAE STANDARD CONNECTIONS

## 043630

30° ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D			
043630-12-12	19	-12	3/4"	3/4"	16	87	41,4	17,5			
043630-16-12	25	-16	1"	3/4"	16	93	41,4	17			
043630-16-16	25	-16	1"	1"	20	98,5	47,7	20			
043630-20-20	31	-20	1.1/4"	1.1/4"	26,1	115,5	54,2	23			
043630-24-24	38	-24	1.1/2"	1.1/2"	32	133,5	63,7	27			
043630-32-32	51	-32	2"	2"	42	167	79,6	36,5			



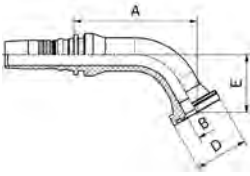
SAE STANDARD CONNECTIONS

## 043640

45° ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D			
043640-10-12	16	-10	5/8"	3/4"	16	71	41,4	31			
043640-10-16	16	-10	5/8"	1"	20	83,5	47,7	32,5			
043640-12-12	19	-12	3/4"	3/4"	16	79	41,4	26			
043640-12-16	19	-12	3/4"	1"	20	85,5	47,7	32,5			
043640-16-12	25	-16	1"	3/4"	16	87	41,4	28			
043640-16-16	25	-16	1"	1"	20	91,5	47,7	32,5			
043640-16-20	25	-16	1"	1.1/4"	26	93,5	54,2	37,5			
043640-20-16	31	-20	1.1/4"	1"	20	106,5	47,7	36			
043640-20-20	31	-20	1.1/4"	1.1/4"	26,1	108	54,2	37,5			
043640-20-24	31	-20	1.1/4"	1.1/2"	32,1	115	63,7	45			
043640-24-20	38	-24	1.1/2"	1.1/4"	26	124,5	54,2	43			
043640-24-24	38	-24	1.1/2"	1.1/2"	32	124,5	63,7	44			
043640-24-32	38	-24	1.1/2"	2"	42	135,5	79,6	55,5			
043640-32-32	51	-32	2"	2"	42	154	79,6	60,5			
043640-32-32056	51	-32	2"	2"	42	150	79,6	56,5			

# INTERLOCK TYPE



SAE STANDARD CONNECTIONS

**043660**

60° ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch	Inch	B	A	D	E			
043660-12-12	19	-12	3/4"	3/4"	16	98,5	41,4	39			
043660-12-16	19	-12	3/4"	1"	20	101	47,7	44			
043660-16-16	25	-16	1"	1"	20	107	47,7	52			
043660-20-20	31	-20	1.1/4"	1.1/4"	26,1	130	54,2	59			
043660-20-24	31	-20	1.1/4"	1.1/2"	32,1	136,5	63,7	66			
043660-24-24	38	-24	1.1/2"	1.1/2"	32	154	63,7	61,5			
043660-32-32	51	-32	2"	2"	42	197,5	79,6	85			

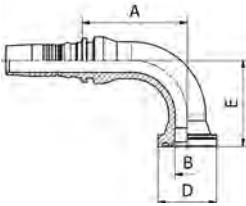


# INTERLOCK TYPE

SAE STANDARD CONNECTIONS

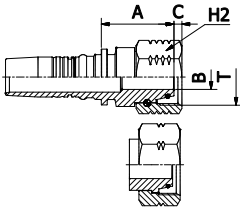
## 043690

90° ISO/SAE CODE 62 FLANGE  
SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch	B	A	D	E				
043690-10-12	16	-10	5/8"	3/4"	16	56,5	41,4	60,5				
043690-12-12	19	-12	3/4"	3/4"	16	72,5	41,4	59				
043690-12-16	19	-12	3/4"	1"	20	72,5	47,7	65				
043690-16-12	25	-16	1"	3/4"	16	81,5	41,4	62				
043690-16-16	25	-16	1"	1"	20	81	47,7	68				
043690-16-16110	25	-16	1"	1"	20	81	47,7	110				
043690-16-16130	25	-16	1"	1"	20	81	47,7	130				
043690-16-20	25	-16	1"	1.1/4"	26	78,5	54,2	76				
043690-16-20130	25	-16	1"	1.1/4"	26	78,5	54,2	130				
043690-16-20150	25	-16	1"	1.1/4"	26	78,5	54,2	150				
043690-20-16	31	-20	1.1/4"	1"	20	98,5	47,7	79				
043690-20-20	31	-20	1.1/4"	1.1/4"	26,1	98,5	54,2	81				
043690-20-20090	31	-20	1.1/4"	1.1/4"	26,1	98,5	54,1	90				
043690-20-20180	31	-20	1.1/4"	1.1/4"	26,1	98,5	54,1	180				
043690-20-20200	31	-20	1.1/4"	1.1/4"	26,1	98,5	54,1	200				
043690-20-24	31	-20	1.1/4"	1.1/2"	32,1	98,5	63,7	91,5				
043690-24-20	38	-24	1.1/2"	1.1/4"	26	111	54,2	91				
043690-24-20200	38	-24	1.1/2"	1.1/4"	26	111	54,2	200				
043690-24-24	38	-24	1.1/2"	1.1/2"	32	112,5	63,7	94,5				
043690-24-24104	38	-24	1.1/2"	1.1/2"	32	112,5	63,7	104				
043690-24-32	38	-24	1.1/2"	2"	42	112,5	79,6	110,5				
043690-32-32	51	-32	2"	2"	42	140,5	79,6	132				
043690-32-32138	51	-32	2"	2"	42	140,5	79,6	138				

# INTERLOCK TYPE



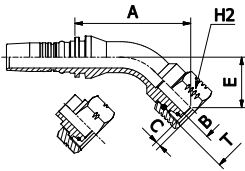
DIN STANDARD CONNECTIONS

## 041612/041613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY  
DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch			T	mm	B	A	C	H2	
041612-10-24	16	-10	5/8"	M 24x1,5	16	9,3	31	4	30			
041613-10-30	16	-10	5/8"	M 30x2	20	12	37	3,5	36			
041612-12-30	19	-12	3/4"	M 30x2	20	12,5	44	3,2	36			
041613-12-36	19	-12	3/4"	M 36x2	25	14,5	42	3,4	41			
041613-12-42	19	-12	3/4"	M 42x2	30	19	36	6,3	50			
041612-16-36	25	-16	1"	M 36x2	25	16	47	4,1	41			
041613-16-42	25	-16	1"	M 42x2	30	19,5	46,5	5,3	50			
041613-16-52	25	-16	1"	M 52x2	38	26,1	49,5	8	60			
041612-20-42	31	-20	1.1/4"	M 42x2	30	19	47,5	6	50			
041613-20-52	31	-20	1.1/4"	M 52x2	38	26,1	41,5	8	60			
041612-24-52	38	-24	1.1/2"	M 52x2	38	29	52,5	8,8	60			

041612: THRUST-WIRE NUT - 041613: SLIP-ON NUT



DIN STANDARD CONNECTIONS

## 041642/041643

45° METRIC O-RING FEMALE SWEPT ELBOW 24°  
CONE HEAVY DUTY - DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch			T	mm	B	A	C	E	H2
041643-10-30	16	-10	5/8"	M 30x2	20	12	66,5	3,5	29,5	36		
041642-12-30	19	-12	3/4"	M 30x2	20	12,5	79	3,2	35	36		
041643-12-36	19	-12	3/4"	M 36x2	25	14,5	81	3,4	33,5	41		
041642-16-36	25	-16	1"	M 36x2	25	16	103	4,1	45,5	41		
041643-16-42	25	-16	1"	M 42x2	30	19,5	93	5,3	36	50		
041642-20-42	31	-20	1.1/4"	M 42x2	30	19,1	116,5	6	44,5	50		
041643-20-52	31	-20	1.1/4"	M 52x2	38	26,1	110	8	40	60		
041642-24-52	38	-24	1.1/2"	M 52x2	38	29	128	8,8	51,5	60		

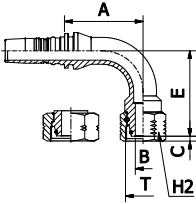
041642: THRUST-WIRE NUT - 041643: SLIP-ON NUT

# INTERLOCK TYPE

DIN STANDARD CONNECTIONS

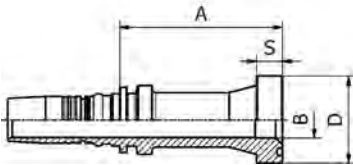
## 041692/041693

90° METRIC O-RING FEMALE SWEPT ELBOW 24°  
CONE HEAVY DUTY - DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)						
	DN	Dash	inch			T	mm	B	A	C	E	H2
041693-10-30	16	-10	5/8"	M 30x2	20	12	52,5	3,5	57,5	36		
041692-12-30	19	-12	3/4"	M 30x2	25	12,5	64	3,2	68,5	36		
041693-12-36	19	-12	3/4"	M 36x2	25	14,5	67	3,4	67,5	41		
041692-16-36	25	-16	1"	M 36x2	25	16	81,5	4,1	89	41		
041693-16-42	25	-16	1"	M 42x2	30	19,5	81,5	5,3	75,5	50		
041692-20-42	31	-20	1.1/4"	M 42x2	30	19,1	103,5	6	90	50		
041693-20-52	31	-20	1.1/4"	M 52x2	38	26,1	100	8	86,5	60		

041692: THRUST-WIRE NUT - 041693: SLIP-ON NUT



ORIGINAL EQUIPMENT CONNECTIONS

## 043910

STRAIGHT SUPERCAT SERIES FLANGE

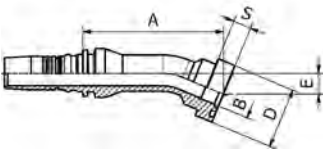
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	S		
043910-12-12	19	-12	3/4"	3/4"	16	77	41,5	14,3			
043910-12-16	19	-12	3/4"	1"	20	88,5	47,7	14,3			
043910-16-16	25	-16	1"	1"	20	89,5	47,7	14,3			
043910-16-20	25	-16	1"	1.1/4"	26	93,5	54	14,3			
043910-20-20	31	-20	1.1/4"	1.1/4"	26,1	95	54	14,3			
043910-20-24	31	-20	1.1/4"	1.1/2"	32,1	98,5	63,6	14,3			
043910-24-24	38	-24	1.1/2"	1.1/2"	32,1	99	63,6	14,3			
043910-24-32	38	-24	1.1/2"	2"	42	115	79,3	14,3			
043910-32-24	51	-32	2"	1.1/2"	32,1	119,5	63,6	14,3			
043910-32-32	51	-32	2"	2"	42	114,5	79,3	14,3			

# INTERLOCK TYPE

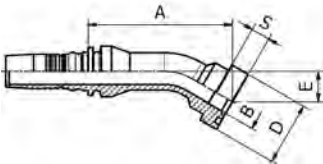
ORIGINAL EQUIPMENT CONNECTIONS

## 043920

22,5° SUPERCAT SERIES FLANGE



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E	S	
043920-12-12	19	-12	3/4"	3/4"	16	94	41,5	14,5	14,3		
043920-12-16	19	-12	3/4"	1"	20	101,5	47,7	16,5	14,3		
043920-16-16	25	-16	1"	1"	20	110,5	47,7	16,5	14,3		
043920-16-20	25	-16	1"	1.1/4"	26,1	115,5	54	19	14,3		
043920-20-20	31	-20	1.1/4"	1.1/4"	26,1	122	54	18	14,3		
043920-20-24	31	-20	1.1/4"	1.1/2"	32	139	63,7	23	14,3		
043920-24-24	38	-24	1.1/2"	1.1/2"	32	138	63,7	20	14,3		



ORIGINAL EQUIPMENT CONNECTIONS

## 043930

30° SUPERCAT SERIES FLANGE

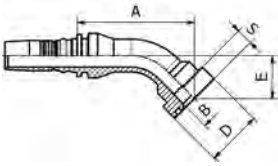
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E	S	
043930-12-12	19	-12	3/4"	3/4"	16	92	41,5	20	14,3		
043930-12-16	19	-12	3/4"	1"	20	99	47,7	22,5	14,3		
043930-16-16	25	-16	1"	1"	20	108	47,7	23	14,3		
043930-16-20	25	-16	1"	1.1/4"	26,1	112,5	54	26	14,3		
043930-20-20	31	-20	1.1/4"	1.1/4"	26,1	119,5	54	25	14,3		
043930-20-24	31	-20	1.1/4"	1.1/2"	32	135,5	63,7	32	14,3		
043930-24-24	38	-24	1.1/2"	1.1/2"	32	135	63,7	28	14,3		
043930-24-32	38	-24	1.1/2"	2"	42	151,5	79,3	36	14,3		
043930-32-32	51	-32	2"	2"	42	171,5	79,3	37,5	14,3		

# INTERLOCK TYPE

ORIGINAL EQUIPMENT CONNECTIONS

## 043940

45° SUPERCAT SERIES FLANGE

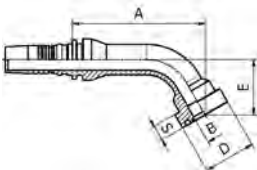


PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E	S	
043940-12-12	19	-12	3/4"	3/4"	16	85	41,5	32	14,3		
043940-12-16	19	-12	3/4"	1"	20	91,5	47,7	35,5	14,3		
043940-16-16	25	-16	1"	1"	20	100,5	47,7	36,5	14,3		
043940-16-20	25	-16	1"	1.1/4"	26,1	103,5	54	40,5	14,3		
043940-20-20	31	-20	1.1/4"	1.1/4"	26,1	110,5	54	40,5	14,3		
043940-20-24	31	-20	1.1/4"	1.1/2"	32	124,5	63,7	50,5	14,3		
043940-24-24	38	-24	1.1/2"	1.1/2"	32	125,5	63,7	45,5	14,3		
043940-24-32	38	-24	1.1/2"	2"	42	139,5	79,3	56,5	14,3		
043940-32-32	51	-32	2"	2"	42	158,5	79,3	61,5	14,3		

ORIGINAL EQUIPMENT CONNECTIONS

## 043960

60° SUPERCAT SERIES FLANGE



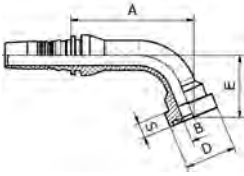
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E	S	
043960-12-12	19	-12	3/4"	3/4"	16	101	41,5	44	14,3		
043960-12-16	19	-12	3/4"	1"	20	106	47,7	48	14,3		
043960-16-16	25	-16	1"	1"	20	122	47,7	51	14,3		
043960-16-16055	25	-16	1"	1"	20	102,5	47,7	55	14,3		
043960-16-20	25	-16	1"	1.1/4"	26,1	122	54	55	14,3		
043960-20-20	31	-20	1.1/4"	1.1/4"	26,1	136	54	56	14,3		
043960-20-24	31	-20	1.1/4"	1.1/2"	32	149	63,7	69	14,3		
043960-24-24	38	-24	1.1/2"	1.1/2"	32	154,5	63,7	63	14,3		
043960-32-32	51	-32	2"	2"	42	202	79,3	86,5	14,3		
043960-32-32150	51	-32	2"	2"	42	196,5	79,3	150	14,3		

# INTERLOCK TYPE

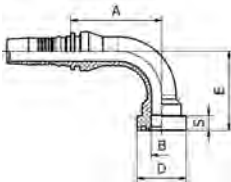
ORIGINAL EQUIPMENT CONNECTIONS

## 043970

67,5° SUPERCAT SERIES FLANGE



PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E	S	
043970-12-12	19	-12	3/4"	3/4"	16	95	41,5	49,5	14,3		
043970-12-16	19	-12	3/4"	1"	20	99,5	47,7	54	14,3		
043970-16-16	25	-16	1"	1"	20	115	47,7	58	14,3		
043970-16-20	25	-16	1"	1.1/4"	26,1	114,5	54	62	14,3		
043970-20-20	31	-20	1.1/4"	1.1/4"	26,1	128	54	64	14,3		
043970-20-24	31	-20	1.1/4"	1.1/2"	32	139,5	63,7	78	14,3		
043970-24-24	38	-24	1.1/2"	1.1/2"	32	146	63,7	72	14,3		
043970-32-32	51	-32	2"	2"	42	189,5	79,3	99	14,3		



ORIGINAL EQUIPMENT CONNECTIONS

## 043990

90° SUPERCAT SERIES FLANGE

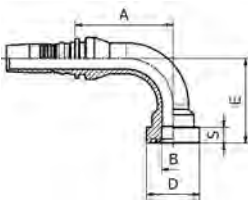
PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)						
	DN	Dash	inch		Inch	B	A	D	E	S	
043990-12-12	19	-12	3/4"	3/4"	16	72,5	41,5	64,5	14,3		
043990-12-16	19	-12	3/4"	1"	20	75	47,7	69,5	14,3		
043990-16-16	25	-16	1"	1"	20	88,5	47,7	76,5	14,3		
043990-16-20	25	-16	1"	1.1/4"	26,1	86,5	54	80,5	14,3		
043990-20-20	31	-20	1.1/4"	1.1/4"	26,1	98,5	54	85	14,3		
043990-20-24	31	-20	1.1/4"	1.1/2"	32	104	63,7	101	14,3		
043990-24-24	38	-24	1.1/2"	1.1/2"	32	112,5	63,7	96	14,3		
043990-24-32	38	-24	1.1/2"	2"	42	115	79,3	112	14,3		
043990-32-32	51	-32	2"	2"	42	144	79,3	133,5	14,3		

# INTERLOCK TYPE

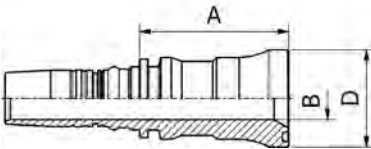
ORIGINAL EQUIPMENT CONNECTIONS

## 043990 LONG DROP

90° LONG DROP SUPERCAT SERIES FLANGE



PART. REF.	HOSE BORE			Flange		DIMENSIONS (mm)							
	DN	Dash	inch			Inch	B	A	D	E			
043990-16-16132	25	-16	1"	1"		20	88,5	47,7	132	14,3			
043990-16-16150	25	-16	1"	1"		20	88,5	47,7	150	14,3			
043990-16-20150	25	-16	1"	1.1/4"		26,1	88,5	54	150	14,3			
043990-20-20092	31	-20	1.1/4"	1.1/4"		26,1	98,5	54	92	14,3			
043990-20-20150	31	-20	1.1/4"	1.1/4"		26,1	98,5	54	150	14,3			
043990-20-24135	31	-20	1.1/4"	1.1/2"		32	98,5	63,7	135	14,3			
043990-24-24106	38	-24	1.1/2"	1.1/2"		32	112,5	63,7	106	14,3			



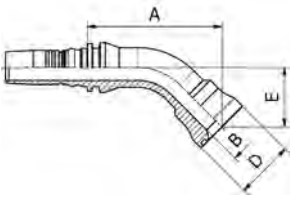
XTRAFRANGE

## 048510

XTRAFRANGE/62  
SAE J518 CODE 62 - ISO 6162-2  
(PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange		DIMENSIONS (mm)							
	DN	Dash	inch			Inch	B	A	D				
048510-12-12	19	-12	3/4"	3/4"		14,5	64	41,4					
048510-16-16	25	-16	1"	1"		19,5	68,5	47,7					
048510-20-20	31	-20	1.1/4"	1.1/4"		25	88	54,4					
048510-24-24	38	-24	1.1/2"	1.1/2"		31	102	63,7					
048510-32-32	51	-32	2"	2"		41	128,5	79,6					
048510-40-40	63	-40	2.1/2"	2.1/2"		51,5	148,5	99,2					

# INTERLOCK TYPE

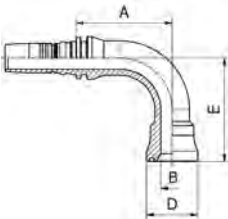


XTRAFRANGE

**048540**

45° XTRAFRANGE/62  
SAE J518 CODE 62 - ISO 6162-2  
(PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch	B	A	D	E				
048540-12-12	19	-12	3/4"	3/4"	14,5	92,5	41,4	38				
048540-16-16	25	-16	1"	1"	19,5	101,5	47,7	45				
048540-20-20	31	-20	1.1/4"	1.1/4"	25	138	54,4	62,5				
048540-24-24	38	-24	1.1/2"	1.1/2"	31	155	63,7	71,5				
048540-32-32	51	-32	2"	2"	39	193,5	79,6	92,5				



XTRAFRANGE

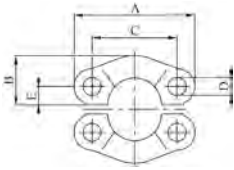
**048590**

90° XTRAFRANGE/62  
SAE J518 CODE 62 - ISO 6162-2  
(PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS (mm)							
	DN	Dash	inch	Inch	B	A	D	E				
048590-12-12	19	-12	3/4"	3/4"	14,5	75,5	41,4	75				
048590-16-16	25	-16	1"	1"	19,5	83,5	47,7	90				
048590-20-20	31	-20	1.1/4"	1.1/4"	25	107	54,4	120				
048590-24-24	38	-24	1.1/2"	1.1/2"	31	122	63,7	140				
048590-32-32	51	-32	2"	2"	39	147,5	79,6	178				



# ACCESSORIES

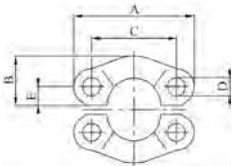


ACCESSORIES

**083308**

ISO/SAE CODE 61 SPLIT FLANGE CLAMPS  
SAE J518 / ISO 6162-1

PART. REF.	DIMENSIONS (mm)				
	B	A	C	D	E
083308-08	22,8	54	38,1	8,8	8,7
083308-12	25,9	65	47,6	10,8	11,1
083308-16	29,2	70	52,4	10,8	13,1
083308-20	36,3	79	58,7	12	15,1
083308-24	41,1	94	69,8	13,5	17,9
083308-32	48,2	102	77,8	13,5	21,4
083308-40	54,1	114	88,9	13,5	25,4
083308-48	65,3	135	106,4	16,8	31
083308-56	70	152	120,6	17	34,8
083308-64	75	160	130,2	17	38,9



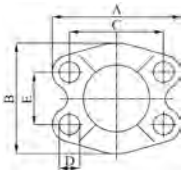
ACCESSORIES

**083609**

ISO/SAE CODE 62 SPLIT FLANGE CLAMPS  
SAE J518 / ISO 6162-2

PART. REF.	DIMENSIONS (mm)				
	B	A	C	D	E
083609-08	23,6	56	40,5	8,8	9,1
083609-12	30	71	50,8	11	11,9
083609-16	34,8	81	57,1	13	13,9
083609-20	38,6	95	66,7	15	15,9
083609-24	47,5	113	79,4	17	18,3
083609-32	56,9	133	96,8	21	22,2

# ACCESSORIES

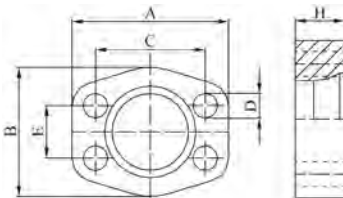


ACCESSORIES

## 083607

CODE 62 ONE-PIECE FLANGE CLAMP  
SAE J518 / ISO 6162-2

PART. REF.						DIMENSIONS (mm)						
083607-12	19	-12	3/4"			B	A	C	D	E		
083607-16	25	-16	1"			60	72	50,8	10,5	23,8		
083607-20	31	-20	1.1/4"			70	81	57,2	13	27,8		
083607-24	38	-24	1.1/2"			78	96	66,7	15	31,8		
083607-32	51	-32	2"			96	113	79,4	17	36,5		
083607-40	63	-40	2.1/2"			114	134	96,8	21	44,4		
083607-48	76	-48	3"			150	175	123,8	25	58,7		
						178	210	152,4	32	71,4		



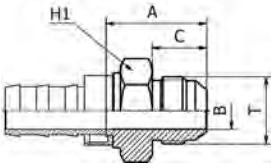
ACCESSORIES

## 088507

ONE-PIECE CODE 62 XTRAFRANGE CLAMP  
SAE J518 / ISO 6162-2  
(PORT COMPATIBLE)

PART. REF.						DIMENSIONS (mm)						
088507-12						B	A	C	D	E	H	
088507-16						60	71,5	50,8	11	23,8	21,5	
088507-20						66,7	80	57,2	13	27,8	24	
088507-24						78	95	66,7	15	31,7	30	
088507-32						94	112	79,4	17	36,5	36	
088507-40						114	133	96,8	21	44,5	47	
088507-48						150	180	123,8	26	58,8	55	
						176	210,3	152,4	31	71,4	60	

# PUSHLOCK TYPE

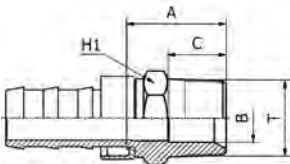


SAE STANDARD CONNECTIONS

## L012510

JIC MALE 37° CONE - SAE J516  
ISO 12151-5

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H1			
L012510-04-04	6	-4	1/4"	7/16"-20		4	28	14	12			
L012510-06-06	10	-6	3/8"	9/16"-18		7	29,5	14	17			
L012510-08-08	12	-8	1/2"	3/4"-16		9,3	34,5	16,5	19			
L012510-10-10	16	-10	5/8"	7/8"-14		12,5	39	19,5	24			
L012510-12-12	19	-12	3/4"	1.1/16"-12		15	44	22	27			
L012510-12-16	19	-12	3/4"	1.5/16"-12		19,8	47	23	34			
L012510-16-16	25	-16	1"	1.5/16"-12		19,8	48	23	34			



SAE STANDARD CONNECTIONS

## L012810

NPTF MALE 60° CONE SEAT - SAE J516/J514

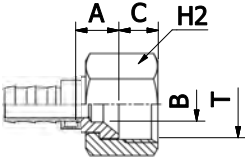
PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H1			
L012810-04-04	6	-4	1/4"	1/4"-18		5,5	29	14,5	14			
L012810-06-06	10	-6	3/8"	3/8"-18		9,3	28,5	14,5	19			
L012810-08-08	12	-8	1/2"	1/2"-14		12,5	35	19,2	24			
L012810-10-08	16	-10	5/8"	1/2"-14		12,5	38,5	19,2	24			
L012810-12-12	19	-12	3/4"	3/4"-14		16	36,5	19,2	27			
L012810-12-16	19	-12	3/4"	r - n,5		19,8	46	24,2	36			
L012810-16-16	25	-16	1"	r -11,5		19,8	44	24,2	36			

# PUSHLOCK TYPE

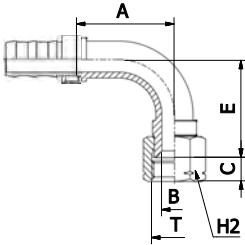
SAE STANDARD CONNECTIONS

## L022513

JIC FEMALE 37° CONE SEAT - SAE J516  
ISO 12151-5



PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	H2			
L022513-04-04	6	-4	1/4"	7/16"-20		4	16	8.7	17			
L022513-06-06	10	-6	3/8"	9/16"-18		7	16	9.2	19			
L022513-08-08	12	-8	1/2"	3/4" -16		9	20	10.2	22			
L022513-10-10	16	-10	5/8"	7/8" -14		13	20	12.3	27			
L022513-12-12	19	-12	3/4"	1 1/16" - 12		15	23	14.2	32			
L022513-12-16	19	-12	3/4"	1 5/16" - 12		20	23	15	38			
L022513-16-16	25	-16	1"	1 5/16" - 12		20	24	15	38			



SAE STANDARD CONNECTIONS

## L022593

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT  
SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread	DIMENSIONS (mm)							
	DN	Dash	inch		T	B	A	C	E	H2		
L022593-04-04	6	-4	1/4"	7/16"-20		4	29	8.7	27	17		
L022593-06-06	10	-6	3/8"	9/16"-18		7	36	9.2	32.5	19		
L022593-08-08	12	-8	1/2"	3/4" -16		9	44	10.2	41	22		
L022593-10-10	16	-10	5/8"	7/8" -14		13	54	12.3	52.5	27		
L022593-12-12	19	-12	3/4"	1 1/16" - 12		15	62	14.2	58	32		
L022593-12-16	19	-12	3/4"	1 5/16" - 12		20	63	15	57.5	38		
L022593-16-16	25	-16	1"	1 5/16" - 12		20	77	15	68.5	38		





**HARTEX**



Distributor :

## HARTEX GLOBAL INDUSTRIAL

### Factory :

Green Sedayu Bizpark Cakung Blok GS 5 No. 102  
Jl. Cakung Cilincing Timur Raya KM. 2  
Cakung - Jakarta Timur - 13910

☎ : +62 21 461 3110 | 📞 : +62 811 803 6799  
Email: [info@hartex.id](mailto:info@hartex.id) | Web: [www.hartex.id](http://www.hartex.id)