



A COMPLETE PRODUCT RANGE OF HYDRAULIC FITTINGS
SOLUTION FOR ALL HEAVY EQUIPMENTS



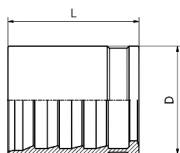
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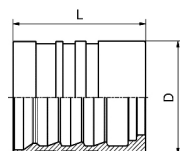


FERRULE

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

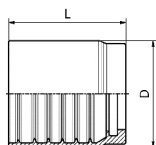
SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES

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				

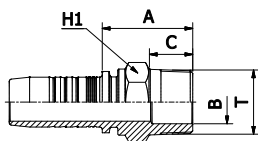
FERRULE

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					

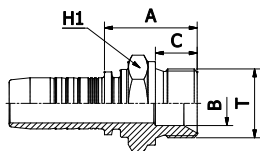


BS STANDARD CONNECTIONS

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			

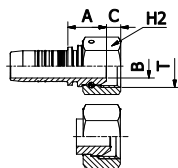


BS STANDARD CONNECTIONS

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				

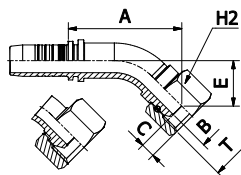


BS STANDARD CONNECTIONS

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			

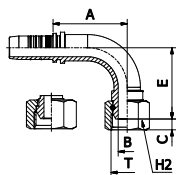


BS STANDARD CONNECTIONS

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			

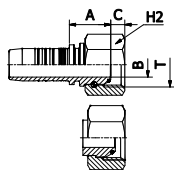


BS STANDARD CONNECTIONS

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		
020593-03-04	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		

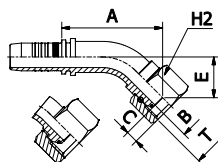


BS STANDARD CONNECTIONS

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			



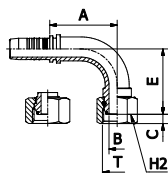
BS STANDARD CONNECTIONS

020842/020843

45° 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			
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



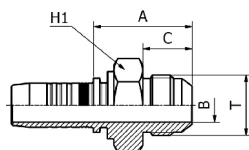
BS STANDARD CONNECTIONS

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

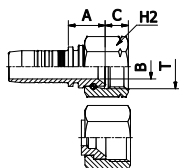


SAE STANDARD CONNECTIONS

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			

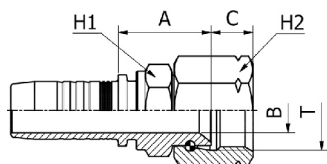


SAE STANDARD CONNECTIONS

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			

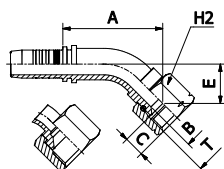


SAE STANDARD CONNECTIONS

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	



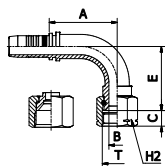
SAE STANDARD CONNECTIONS

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



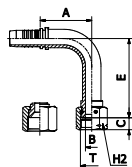
SAE STANDARD CONNECTIONS

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



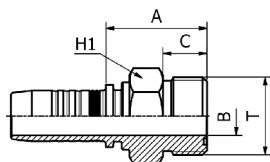
SAE STANDARD CONNECTIONS

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

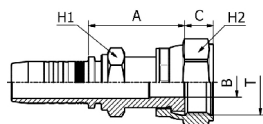


SAE STANDARD CONNECTIONS

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			

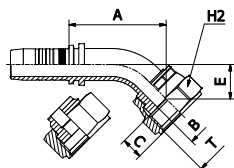


SAE STANDARD CONNECTIONS

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	



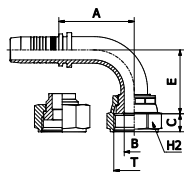
SAE STANDARD CONNECTIONS

022441/022443

45° 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			
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



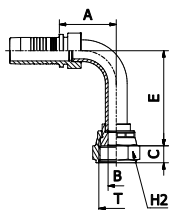
SAE STANDARD CONNECTIONS

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

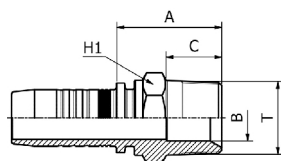


SAE STANDARD CONNECTIONS

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		

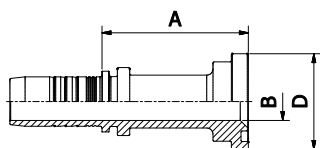


SAE STANDARD CONNECTIONS

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			

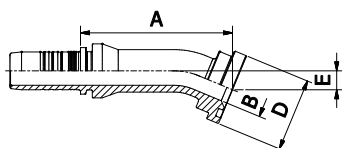


SAE STANDARD CONNECTIONS

023311

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

PART. REF.	HOSE BORE			Flange		DIMENSIONS (mm)							
	DN	Dash	inch	Inch		B	A	D					
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					



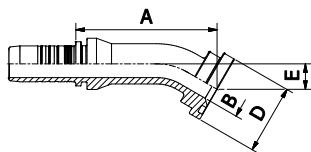
SAE STANDARD CONNECTIONS

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



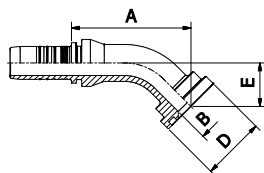
SAE STANDARD CONNECTIONS

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



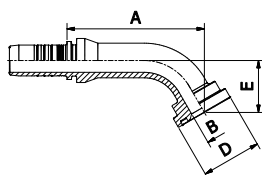
SAE STANDARD CONNECTIONS

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.



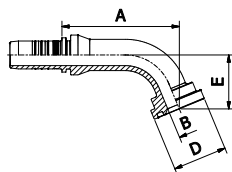
SAE STANDARD CONNECTIONS

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.



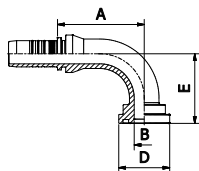
SAE STANDARD CONNECTIONS

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.



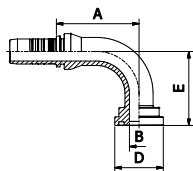
SAE STANDARD CONNECTIONS

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	E			
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.

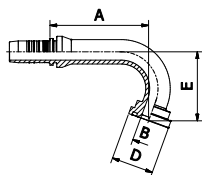


SAE STANDARD CONNECTIONS

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			

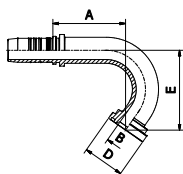


SAE STANDARD CONNECTIONS

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			

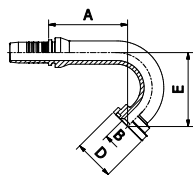


SAE STANDARD CONNECTIONS

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			

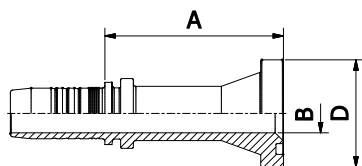


SAE STANDARD CONNECTIONS

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			



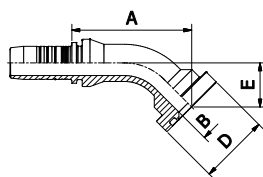
SAE STANDARD CONNECTIONS

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

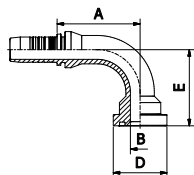


SAE STANDARD CONNECTIONS

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			

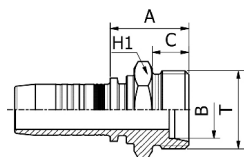


SAE STANDARD CONNECTIONS

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			

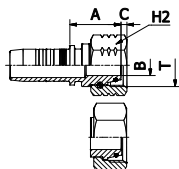


DIN STANDARD CONNECTIONS

01 11 10

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			



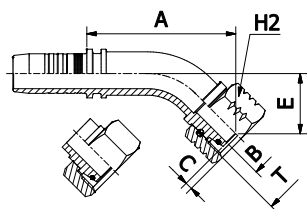
DIN STANDARD CONNECTIONS

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



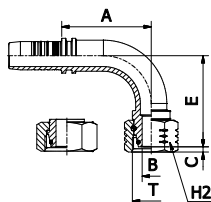
DIN STANDARD CONNECTION

021542/021543

45° METRIC O-RING FEMALE SWEEP 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



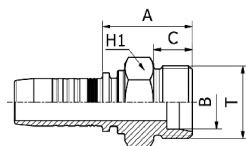
DIN STANDARD CONNECTION

021592/021593

90° METRIC O-RING FEMALE SWEEP 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

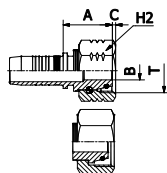


DIN STANDARD CONNECTIONS

01 12 10

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

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS (mm)							
	DN	Dash	inch			B	A	C	HI				
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				



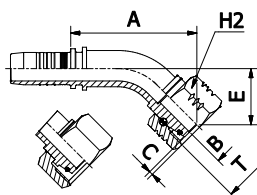
DIN STANDARD CONNECTIONS

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	H2				
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



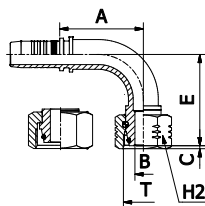
DIN STANDARD CONNECTIONS

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



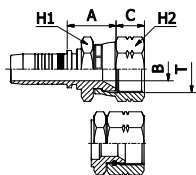
DIN STANDARD CONNECTIONS

021692/021693

90° 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		
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



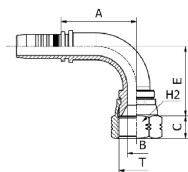
JIS STANDARD CONNECTIONS

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

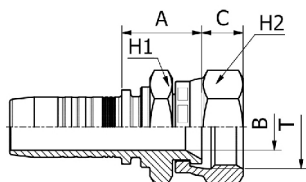


JIS STANDARD CONNECTIONS

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	

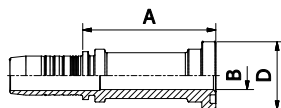


JIS STANDARD CONNECTIONS

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			

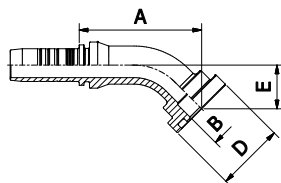


ORIGINAL EQUIPMENT CONNECTIONS

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				

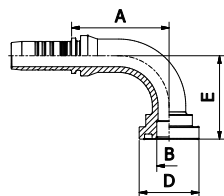


ORIGINAL EQUIPMENT CONNECTIONS

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			

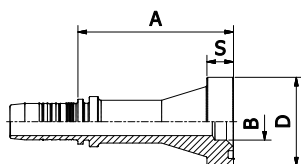


ORIGINAL EQUIPMENT CONNECTIONS

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			

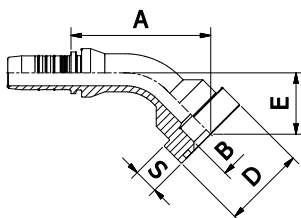


ORIGINAL EQUIPMENT CONNECTIONS

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			

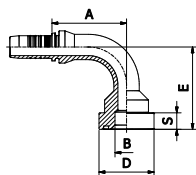


ORIGINAL EQUIPMENT CONNECTIONS

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		

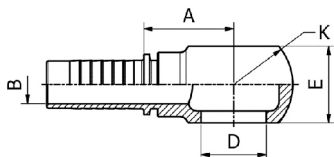


ORIGINAL EQUIPMENT CONNECTIONS

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	

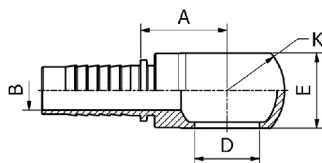


BANJO CONNECTIONS

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	

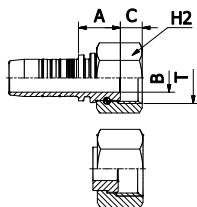


BANJO CONNECTIONS

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

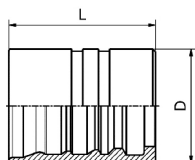
PART. REF.	HOSE BORE			Thread		DIMENSIONS (mm)						
	DN	Dash	inch	T		B	A	C	H2			
021212-021213	10	-6	3/8	M 18x1,5		7	22,5	6	25			

INTERLOCK TYPE

FERRULE

001500

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

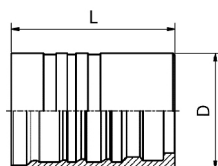


PART. REF.	HOSE BORE					DIMENSIONS (mm)					
	DN	Dash	inch			D	L				
001500-10	16	-10	5/8"			35	40,9				
001500-12	19	-12	3/4"			40	51,4				
001500-16	25	-16	1"			48	64,5				
001500-20	31	-20	1.1/4"			57	84				
001500-24	38	-24	1.1/2"			64,3	94				
001500-32	51	-32	2"			83,5	107				
001500-40	63	-40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

FERRULE

001600

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



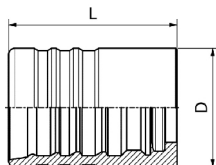
PART. REF.	HOSE BORE					DIMENSIONS (mm)					
	DN	Dash	inch			D	L				
001600-20	31	-20	1.1/4"			60	85				
001600-24	38	-24	1.1/2"			69	96				

INTERLOCK TYPE

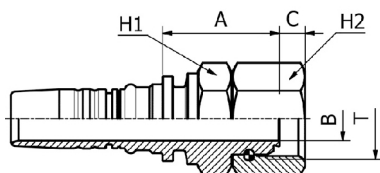
FERRULE

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					



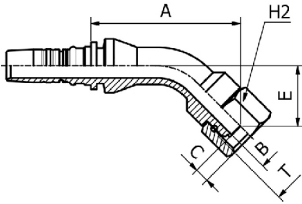
BS STANDARD CONNECTIONS

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

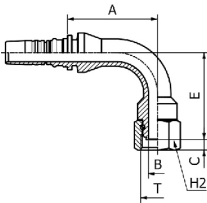


BS STANDARD CONNECTIONS

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		

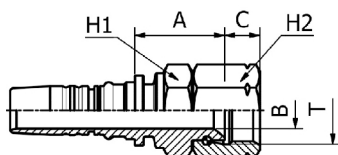


BS STANDARD CONNECTIONS

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		

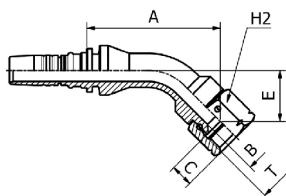


SAE STANDARD CONNECTIONS

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	

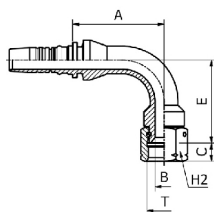


SAE STANDARD CONNECTIONS

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	

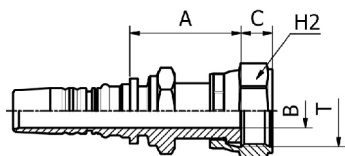


SAE STANDARD CONNECTIONS

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	H2		
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		



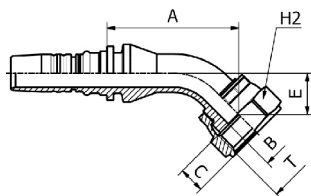
SAE STANDARD CONNECTIONS

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	H2		
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

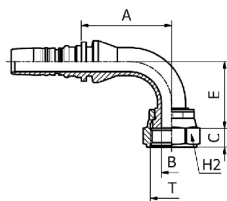


SAE STANDARD CONNECTIONS

042441

45° ORFS FEMALE SWEEP 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		



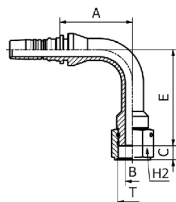
SAE STANDARD CONNECTIONS

042491

90° ORFS FEMALE SWEEP 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

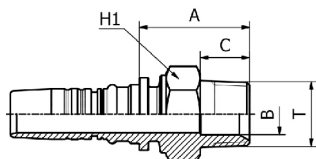


SAE STANDARD CONNECTIONS

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		



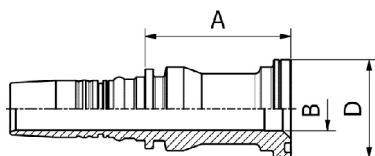
SAE STANDARD CONNECTIONS

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"	1.1/2"-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

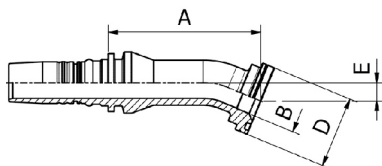


SAE STANDARD CONNECTIONS

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							



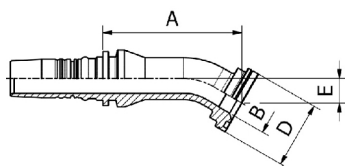
SAE STANDARD CONNECTIONS

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

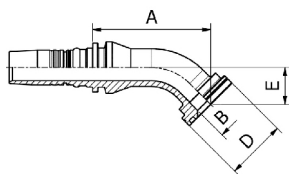


SAE STANDARD CONNECTIONS

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			



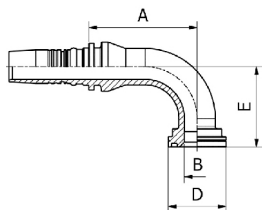
SAE STANDARD CONNECTIONS

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



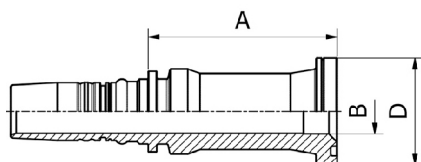
SAE STANDARD CONNECTIONS

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



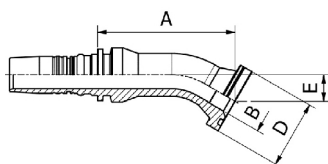
SAE STANDARD CONNECTIONS

043610

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

PART. REF.	HOSE BORE				Flange	DIMENSIONS (mm)									
	DN	Dash	inch	Inch		B	A	D							
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

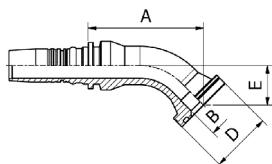


SAE STANDARD CONNECTIONS

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	E		
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		



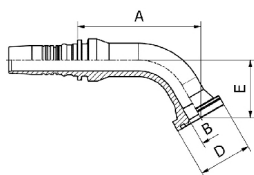
SAE STANDARD CONNECTIONS

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	E		
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



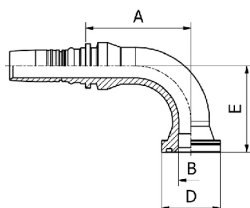
SAE STANDARD CONNECTIONS

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



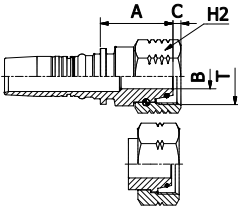
SAE STANDARD CONNECTIONS

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



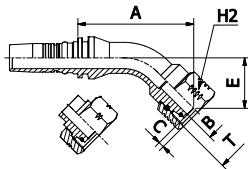
DIN STANDARD CONNECTIONS

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

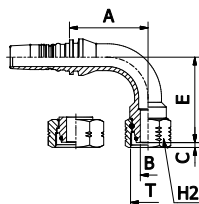
041642/041643

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



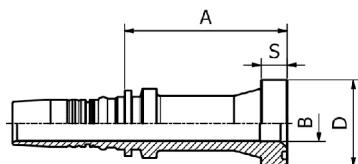
DIN STANDARD CONNECTIONS

041692/041693

90° METRIC O-RING FEMALE 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		
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



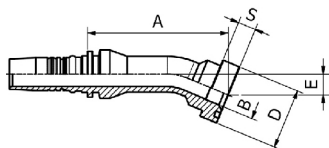
ORIGINAL EQUIPMENT CONNECTIONS

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

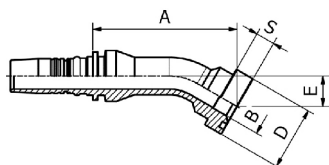


ORIGINAL EQUIPMENT CONNECTIONS

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			



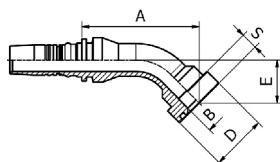
ORIGINAL EQUIPMENT CONNECTIONS

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

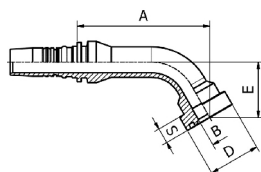


ORIGINAL EQUIPMENT CONNECTIONS

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			



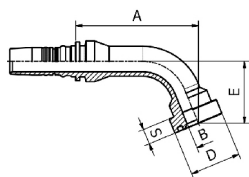
ORIGINAL EQUIPMENT CONNECTIONS

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

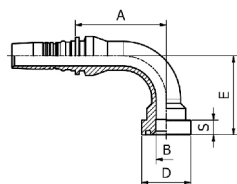


ORIGINAL EQUIPMENT CONNECTIONS

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			



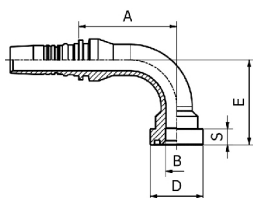
ORIGINAL EQUIPMENT CONNECTIONS

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

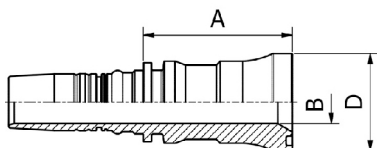


ORIGINAL EQUIPMENT CONNECTIONS

043990 LONG DROP

90° LONG DROP SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE		Flange		DIMENSIONS (mm)							
	DN	Dash	inch	Inch		B	A	D	E	S		
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		



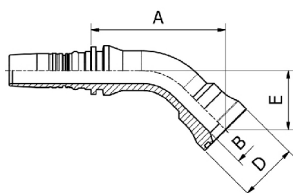
XTRAFRANGE

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

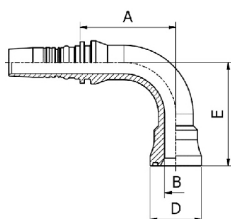


XTRAFLANGE

048540

45° XTRAFLANGE/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			

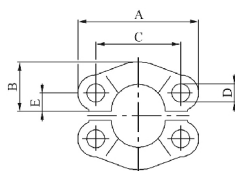


XTRAFLANGE

048590

90° XTRAFLANGE/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			

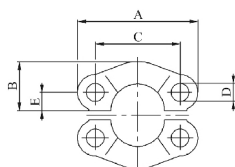


ACCESSORIES

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		

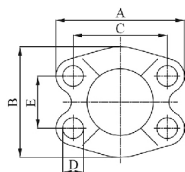


ACCESSORIES

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		

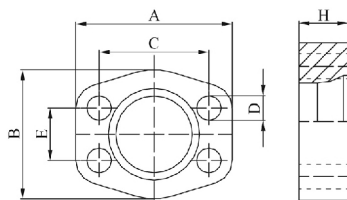


ACCESSORIES

083607

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

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



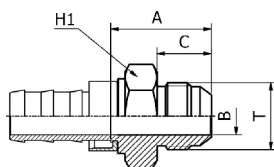
ACCESSORIES

088507

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

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

PUSHLOCK TYPE

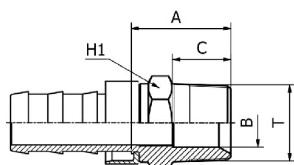


SAE STANDARD CONNECTIONS

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			



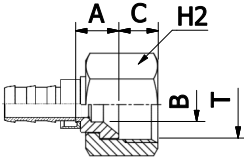
SAE STANDARD CONNECTIONS

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

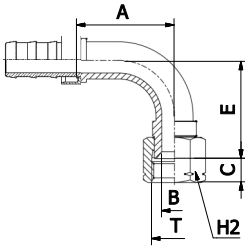


SAE STANDARD CONNECTIONS

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		



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

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