

# FITTINGS

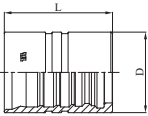
**MF**2000®



Fluid connectors, solid solutions

**manuli**®  
HYDRAULICS

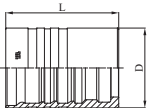
### M01500



**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)**  
 CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS  
 CON REFUERZO EN ESPIRAL (4 ESPIRALES)  
 PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4-LAGIG)  
 GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M01500-10	16	5/8"	- 10	35,0	40,9				
M01500-12	19	3/4"	- 12	40,0	51,4				
M01500-16	25	1"	- 16	48,0	64,5				
M01500-20	31	1.1/4"	- 20	57,0	84,0				
M01500-24	38	1.1/2"	- 24	64,3	94,0				
M01500-32	51	2"	- 32	83,5	107,0				

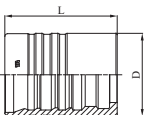
### M01600



**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (6 PLY)**  
 CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS  
 CON REFUERZO EN ESPIRAL (6 ESPIRALES)  
 PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (6-LAGIG)  
 GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (6 SPIRALI)

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M01600-20	31	1.1/4"	- 20	60,0	85,0				
M01600-24	38	1.1/2"	- 24	68,0	96,0				

### M01800



**DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)**  
 CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS  
 CON REFUERZO EN ESPIRAL (6 ESPIRALES)  
 PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)  
 GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI  
 (6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M01800-20	31	1.1/4"	- 20	64,5	88,2				
M01800-32	51	2"	- 32	86,5	108,0				

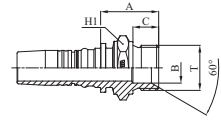
# INTERLOCK PLUS TYPE



## BS STANDARD CONNECTIONS

### M30510

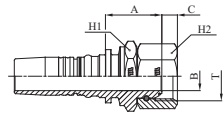
BSP MALE PARALLEL 60° CONE SEAT - BS5200 / ISO 8434-6  
 MACHO BSP PARALELO ASIENTO A 60° - BS5200 / ISO 8434-6  
 AGR 60° INNENKONUS - BS5200/ISO 8464-6  
 MASCHIO GAS CILINDRICO CONO 60° - BS5200 / ISO 8434-6



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H <sub>1</sub>	
M30510-12-12	19	3/4"	- 12	3/4" - 14	17,0	36,9	16,0		32	
M30510-12-16	19	3/4"	- 12	1" - 11	22,5	43,0	19,0		41	
M30510-16-16	25	1"	- 16	1" - 11	22,5	42,8	19,0		41	
M30510-16-20	25	1"	- 16	1.1/4" - 11	29,0	47,5	20,0		50	
M30510-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	50,5	20,0		50	
M30510-24-24	38	1.1/2"	- 24	1.1/2" - 11	33,5	54,4	22,0		55	
M30510-32-32	51	2"	- 32	2" - 11	42,0	57,8	25,0		70	

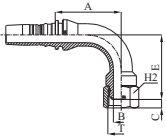
### M40812

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)  
 HEMBRA BSP CON O-RING ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)  
 DKOR 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)  
 FEMMINA GAS CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H <sub>1</sub>	H <sub>2</sub>
M40812-12-12	19	3/4"	- 12	3/4" - 14	14,5	38,8	8,5		32	32
M40812-12-16	19	3/4"	- 12	1" - 11	19,0	40,0	10,6		32	41
M40812-16-12	25	1"	- 16	3/4" - 14	15,0	40,0	8,5		38	32
M40812-16-16	25	1"	- 16	1" - 11	19,5	44,4	10,6		41	41
M40812-16-20	25	1"	- 16	1.1/4" - 11	26,0	43,5	10,1		41	50
M40812-20-16	31	1.1/4"	- 20	1" - 11	19,0	50,0	10,6		50	41
M40812-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	52,4	10,1		50	50
M40812-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	51,5	12,5		50	60
M40812-24-20	38	1.1/2"	- 24	1.1/4" - 11	26,0	52,5	10,1		60	50
M40812-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	51,3	12,5		60	60
M40812-32-32	51	2"	- 32	2" - 11	42,0	51,6	16,1		70	70

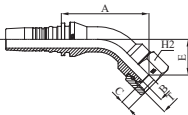
### M40892



90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)  
 HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60°  
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)  
 DKOR 90° BOGEN 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)  
 FEMMINA GAS 90° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H <sub>2</sub>
M40892-12-12	19	3/4"	- 12	3/4" - 14	14,5	72,4	8,5	70,0		32
M40892-12-16	19	3/4"	- 12	1" - 11	19,0	72,0	10,6	71,0		41
M40892-16-16	25	1"	- 16	1" - 11	19,5	82,2	10,6	80,5		41
M40892-16-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	95,0	10,1	78,5		50
M40892-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	98,5	10,1	98,0		50
M40892-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	111,5	12,5	109,0		60
M40892-32-32	51	2"	- 32	2" - 11	42,0	143,2	16,1	140,5		70

### M40842



45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)  
 HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60°  
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)  
 DKOR 45° BOGEN 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)  
 FEMMINA GAS 45° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H <sub>2</sub>
M40842-12-12	19	3/4"	- 12	3/4" - 14	14,5	88,0	8,5	35,0		32
M40842-12-16	19	3/4"	- 12	1" - 11	19,0	89,5	10,6	36,5		41
M40842-16-12	25	1"	- 16	3/4" - 14	15,0	105,5	8,5	36,0		32
M40842-16-16	25	1"	- 16	1" - 11	19,5	97,0	10,6	40,0		41
M40842-16-20	25	1"	- 16	1.1/4" - 11	26,0	108,5	10,1	38,0		50
M40842-20-16	31	1.1/4"	- 20	1"-11	19,0	118,0	10,6	47,5		41
M40842-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	120,0	10,1	49,5		50
M40842-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	114,5	12,5	40,0		60
M40842-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	126,5	12,5	50,0		60
M40842-32-32	51	2"	- 32	2" - 11	42,0	162,6	16,1	66,5		70

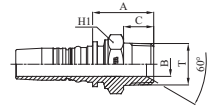
# INTERLOCK PLUS TYPE



## SAE STANDARD CONNECTIONS

### M32810

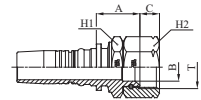
NPTF MALE 60° CONE SEAT - SAE J516/J514  
 MACHO NPTF ASIENTO A 60° - SAE J516/J514  
 AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514  
 MASCHIO NPTF CONO 60° - SAE J516/J514



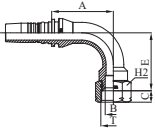
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm				
	DN	inch	Size		T	B	A	C	H1
M32810-12-12	19	3/4"	- 12	3/4" - 14	16,0	42,9	19,2	32	
M32810-16-16	25	1"	- 16	1" - 11,5	19,5	49,3	24,2	41	
M32810-20-20	31	1.1/4"	- 20	1.1/4" - 11,5	26,0	61,0	25,0	46	
M32810-24-24	38	1.1/2"	- 24	1.1/2" - 11,5	32,0	62,6	26,0	50	
M32810-32-32	51	2"	- 32	2" - 11,5	42,0	66,8	26,5	70	

### M42512

JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)  
 HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)  
 JDJ 37° KONUS - SAE J516 / ISO 12151-5 (KONTERSECHSKANT UND STIFTMUTTER)  
 FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H1	H2
M42512-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	36,2	14,2	32	32	
M42512-12-16	19	3/4"	- 16	1.5/16" - 12	21,7	33,0	15,2	41	41	
M42512-16-16	25	1"	- 16	1.5/16" - 12	21,7	40,7	15,2	41	41	
M42512-16-20	25	1"	- 16	1.5/8" - 12	26,0	50,0	16,2	50	50	
M42512-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	51,4	16,2	50	50	
M42512-20-24	31	1.1/4"	- 20	1.7/8" - 12	30,5	54,0	18,8	55	60	
M42512-24-24	38	1.1/2"	- 24	1.7/8" - 12	31,0	54,5	18,8	55	60	
M42512-32-32	51	2"	- 32	2.1/2" - 12	42,0	54,2	24,0	70	75	

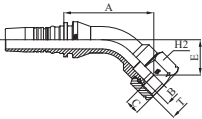


### M42592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)  
 HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)  
 JDJK 90° BOGEN, 37° KONUS - SAE J516 / ISO 12151-5 (STIFTMUTTER)  
 FEMMINA JIC 90° CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
------------	-----------	--	--	--------	------------------	--	--	--	--	--

	DN	inch	Size	T	B	A	C	E		H <sub>2</sub>
M42592-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	72,4	14,2	66,0		32
M42592-12-16	19	3/4"	- 12	1.5/16" - 12	21,7	72,5	15,2	71,5		41
M42592-16-16	25	1"	- 16	1.5/16" - 12	21,7	82,3	15,2	77,5		41
M42592-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	98,5	16,2	92,0		50
M42592-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	101,5	18,8	108,0		60
M42592-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	115,5	18,8	106,0		60
M42592-32-32	51	2"	- 32	2.1/2" - 12	42,0	144,7	24,0	137,0		75



### M42542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)  
 HEMBRA JIC CODO DE 45° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)  
 DKJ 45° BOGEN 37° KONUS - SAE J516 / ISO 12151-5 (STIFTMUTTER)  
 FEMMINA JIC 45° CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
------------	-----------	--	--	--------	------------------	--	--	--	--	--

	DN	inch	Size	T	B	A	C	E		H <sub>2</sub>
M42542-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	86,0	14,2	33,0		32
M42542-16-16	25	1"	- 16	1.5/16" - 12	21,7	95,0	15,2	37,0		41
M42542-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	115,5	16,2	45,0		50
M42542-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	126,5	18,8	50,0		60
M42542-32-32	51	2"	- 32	2.1/2" - 12	42,0	161,0	24,0	63,5		75

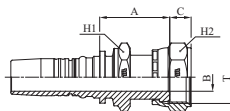
# INTERLOCK PLUS TYPE



## SAE STANDARD CONNECTIONS

### M42411

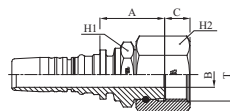
ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)  
 HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA Prensada)  
 ORFS IG - SAE J516 / ISO 12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)  
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)



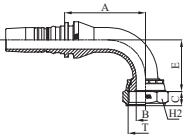
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H <sub>1</sub>	H <sub>2</sub>
M42411-10-10	16	5/8"	- 10	1" - 14	11,5	39,5	13,5		24	30
M42411-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	45,9	14,5		32	36
M42411-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	46,5	15,0		36	41
M42411-16-12	25	1"	- 16	1.3/16" - 12	14,5	47,5	14,5		38	36
M42411-16-16	25	1"	- 16	1.7/16" - 12	19,5	48,5	15,0		41	41
M42411-16-20	25	1"	- 16	1.11/16" - 12	24,0	48,5	14,8		41	50
M42411-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	54,8	14,8		50	50
M42411-24-24	38	1.1/2"	- 24	2" - 12	31,0	57,8	15,8		60	60

### M42412

ORFS FEMALE - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE NUT)  
 HEMBRA ORFS - SAE J516 / ISO 12151-1 SERIE PESADA (TUERCA CON SEGURO)  
 ORFS MUTTER GESTIFTET - SAE J516 / ISO 12151-1 SCHWERE REIHE (THRUST-WIRE NUT)  
 FEMMINA ORFS - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)



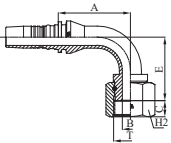
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H <sub>1</sub>	H <sub>2</sub>
M42412-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	37,0	14,0		32	36
M42412-16-16	25	1"	- 16	1.7/16" - 12	19,5	42,0	15,0		41	46
M42412-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	52,0	15,0		50	55
M42412-24-24	38	1.1/2"	- 24	2" - 12	31,0	55,0	15,0		60	60



### M42491

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)  
 HEMBRA ORFS CODO 90° - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)  
 90° ORFS BOGEN (VERPRESSTE MUTTER) - SAE J516 / ISO 12151-1  
 FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 (DADO PRESSATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H <sub>2</sub>
M42491-10-12	16	5/8"	- 10	1.3/16" - 12	14,5	51,0	14,5	47,0		36
M42491-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	65,5	14,5	48,0		36
M42491-12-12109	19	3/4"	- 12	1.3/16" - 12	14,5	65,5	14,5	109,0		36
M42491-12-16	19	3/4"	- 12	1.7/16" - 12	19,5	70,5	15,0	53,0		41
M42491-16-16	25	1"	- 16	1.7/16" - 12	19,5	85,0	15,0	54,0		41
M42491-16-16128	25	1"	- 16	1.7/16" - 12	19,5	85,0	15,0	128,0		41
M42491-16-20	25	1"	- 16	1.11/16" - 12	24,0	85,0	14,8	58,0		50
M42491-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	98,5	14,8	65,0		50
M42491-24-24	38	1.1/2"	- 24	2" - 12	31,0	115,7	15,8	79,5		60



### M42492

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT)  
 HEMBRA ORFS CODO 90° - SAE J516 / ISO 12151-1 SERIE PESADA (TUERCA CON SEGURO)  
 90° ORFS BOGEN - SCHWERE REIHE SAE J516 / ISO 12151-1 (GESHTFETE MUTTER)  
 FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H <sub>2</sub>
M42492-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	72,5	14,0	70,5		36
M42492-16-16	25	1"	- 12	1.7/16" - 12	19,5	82,5	15,0	84,5		46
M42492-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	98,5	15,0	98,0		55
M42492-24-24	38	1.1/2"	- 24	2" - 12	31,0	111,5	15,0	109,0		60



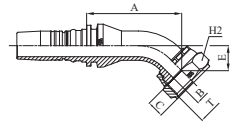
# INTERLOCK PLUS TYPE



## SAE STANDARD CONNECTIONS

### M42441

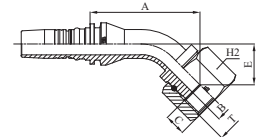
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)  
 HEMBRA ORFS CODO DE 45° CARA PLANA - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)  
 DK ORFS 45° - SAE J516 / ISO 12151-1 (PRESSMUTTER)  
 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H <sub>2</sub>
M42441-10-12	16	5/8"	- 10	1.3/16" - 12	14,5	55,5	14,5	21,5		36
M42441-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	69,0	14,5	21,5		36
M42441-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	77,5	15,0	25,0		41
M42441-16-16	25	1"	- 16	1.7/16" - 12	19,5	84,0	15,0	22,0		41
M42441-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	96,5	14,8	26,0		50
M42441-24-24	38	1.1/2"	- 24	2" - 12	31,0	112,0	15,8	31,5		60

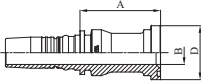
### M42442

45° ORFS FEMALE SWEPT ELBOW  
 SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT)  
 HEMBRA ORFS CODO DE 45°  
 SAE J516 / ISO 12151-1 SERIE PESADA (TUERCA CON SEGURO)  
 45° ORFS BOGEN (GESHFTE MUTTER) - SAE J516 / ISO 12151-1  
 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	C	E	H <sub>2</sub>	
M42442-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	89,0	14,0	36,0		36
M42442-16-16	25	1"	- 16	1.7/16" - 12	19,5	100,0	15,0	42,5		46
M42442-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	119,5	15,0	49,5		55
M42442-24-24	38	1.1/2"	- 24	2" - 12	31,0	128,5	15,0	52,0		60

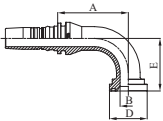
### M43310



ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3  
 SAE FLANSCH GERADE - SAE J516 / ISO 12151-3  
 FLANGIA ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M43310-10-16	16	5/8"	- 10	1"	20,0	63,5	44,6			
M43310-12-12	19	3/4"	- 12	3/4"	16,0	59,9	38,0			
M43310-12-16	19	3/4"	- 12	1"	20,0	65,7	44,6			
M43310-16-12	25	1"	- 16	3/4"	16,0	67,0	38,0			
M43310-16-16	25	1"	- 16	1"	20,0	66,7	44,6			
M43310-16-20	25	1"	- 16	1.1/4"	26,0	73,0	51,0			
M43310-20-20	31	1.1/4"	- 20	1.1/4"	26,0	75,0	51,0			
M43310-20-24	31	1.1/4"	- 20	1.1/2"	32,0	80,0	60,5			
M43310-24-24	38	1.1/2"	- 24	1.1/2"	32,0	80,6	60,5			
M43310-24-32	38	1.1/2"	- 24	2"	42,0	88,3	71,6			
M43310-32-32	51	2"	- 32	2"	42,0	82,8	71,6			

### M43390



90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA CODO 90° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3  
 SAE FLANSCH 90° BOGEN - SAE J516 / ISO 12151-3  
 FLANGIA 90° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43390-10-16	16	5/8"	- 10	1"	20,0	70,5	44,6	52,0		
M43390-12-12	19	3/4"	- 12	3/4"	16,0	71,8	38,0	52,0		
M43390-12-16	19	3/4"	- 12	1"	20,0	72,4	44,6	52,0		
M43390-16-16	25	1"	- 16	1"	20,0	83,4	44,6	62,0		
M43390-16-20	25	1"	- 16	1.1/4"	26,0	83,4	51,0	62,0		
M43390-20-16	31	1.1/4"	- 20	1"	19,8	96,5	44,6	66,0		
M43390-20-20	31	1.1/4"	- 20	1.1/4"	26,0	99,0	51,0	70,0		
M43390-20-24	31	1.1/4"	- 20	1.1/2"	32,0	98,7	60,5	72,0		
M43390-24-24	38	1.1/2"	- 24	1.1/2"	32,0	111,6	60,5	84,0		
M43390-24-32	38	1.1/2"	- 24	2"	42,0	111,5	71,6	84,0		
M43390-32-32	51	2"	- 32	2"	42,0	133,7	71,6	99,0		

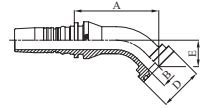
# INTERLOCK PLUS TYPE



## SAE STANDARD CONNECTIONS

### M43340

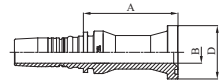
45° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA CODO 45° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3  
 SAE FLANSCH 45° BOGEN - SAE J516 / ISO 12151-3  
 FLANGIA 45° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



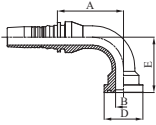
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M43340-12-12	19	3/4"	- 12	3/4"	16,0	75,6	38,0	23,0
M43340-12-16	19	3/4"	- 12	1"	20,0	76,0	44,6	23,0
M43340-16-16	25	1"	- 16	1"	20,0	87,0	44,6	27,3
M43340-16-20	25	1"	- 16	1,1/4"	26,0	87,5	51,0	27,3
M43340-20-20	31	1,1/4"	- 20	1,1/4"	26,0	100,5	51,0	29,5
M43340-20-24	31	1,1/4"	- 20	1,1/2"	32,0	101,5	60,5	31,0
M43340-24-24	38	1,1/2"	- 24	1,1/2"	32,0	111,0	60,5	34,5
M43340-24-32	38	1,1/2"	- 24	2"	42,0	113,0	71,6	34,5
M43340-32-32	51	2"	- 32	2"	42,0	128,7	71,6	39,0

### M43610

ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3  
 ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3  
 FLANGIA ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



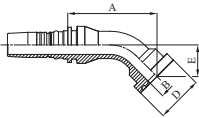
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M43610-10-12	16	5/8"	- 10	3/4"	16,0	64,0	41,4	
M43610-10-16	16	5/8"	- 10	1"	20,0	81,5	47,7	
M43610-12-12	19	3/4"	- 12	3/4"	16,0	71,4	41,4	
M43610-12-16	19	3/4"	- 12	1"	20,0	83,4	47,7	
M43610-16-12	25	1"	- 16	3/4"	16,0	80,3	41,4	
M43610-16-16	25	1"	- 16	1"	20,0	84,7	47,7	
M43610-16-20	25	1"	- 16	1,1/4"	26,0	89,0	54,2	
M43610-20-16	31	1,1/4"	- 20	1"	20,0	87,2	47,7	
M43610-20-20	31	1,1/4"	- 20	1,1/4"	26,0	91,1	54,2	
M43610-20-24	31	1,1/4"	- 20	1,1/2"	32,0	97,2	63,7	
M43610-24-20	38	1,1/2"	- 24	1,1/4"	26,0	101,2	54,2	
M43610-24-24	38	1,1/2"	- 24	1,1/2"	32,0	97,7	63,7	
M43610-24-32	38	1,1/2"	- 24	2"	42,0	112,8	79,6	
M43610-32-24	51	2"	- 32	1,1/2"	32,0	117,0	63,7	
M43610-32-32	51	2"	- 32	2"	42,0	112,8	79,6	



### M43690

90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA CODO 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3  
 90° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3  
 FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43690-10-12	16	5/8"	- 10	3/4"	16,0	57,5	41,4	60,5		
M43690-12-12	19	3/4"	- 12	3/4"	16,0	72,4	41,4	59,0		
M43690-12-16	19	3/4"	- 12	1"	20,0	72,4	47,7	65,0		
M43690-16-12	25	1"	- 16	3/4"	16,0	81,3	41,4	62,0		
M43690-16-16	25	1"	- 16	1"	20,0	81,1	47,7	68,0		
M43690-16-20	25	1"	- 16	1.1/4"	26,0	78,6	54,2	76,0		
M43690-20-16	31	1.1/4"	- 20	1"	20,0	98,5	47,7	79,0		
M43690-20-20	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,2	81,0		
M43690-20-24	31	1.1/4"	- 20	1.1/2"	32,0	98,5	63,7	91,5		
M43690-24-20	38	1.1/2"	- 24	1.1/4"	26,0	111,2	54,2	91,0		
M43690-24-24	38	1.1/2"	- 24	1.1/2"	32,0	112,5	63,7	94,5		
M43690-24-32	38	1.1/2"	- 24	2"	42,0	112,5	79,6	110,5		
M43690-32-32	51	2"	- 32	2"	42,0	140,7	79,6	132,0		



### M43640

45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA CODO 45° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3  
 45° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3  
 FLANGIA 45° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43640-10-12	16	5/8"	- 10	3/4"	16,0	71,0	41,4	31,0		
M43640-10-16	16	5/8"	- 10	1"	20,0	83,5	47,7	32,5		
M43640-12-12	19	3/4"	- 12	3/4"	16,0	81,0	41,4	28,0		
M43640-12-16	19	3/4"	- 12	1"	20,0	85,4	47,7	32,3		
M43640-16-12	25	1"	- 16	3/4"	16,0	87,0	41,4	28,0		
M43640-16-16	25	1"	- 16	1"	20,0	91,4	47,7	32,3		
M43640-16-20	25	1"	- 16	1.1/4"	26,0	93,7	54,2	37,5		
M43640-20-16	31	1.1/4"	- 20	1"	20,0	106,5	47,7	36,0		
M43640-20-20	31	1.1/4"	- 20	1.1/4"	26,0	108,0	54,2	37,5		
M43640-20-24	31	1.1/4"	- 20	1.1/2"	32,0	115,0	63,7	45,0		
M43640-24-20	38	1.1/2"	- 24	1.1/4"	26,0	124,5	54,2	43,0		
M43640-24-24	38	1.1/2"	- 24	1.1/2"	32,0	124,3	63,7	44,0		
M43640-24-32	38	1.1/2"	- 24	2"	42,0	135,6	79,6	55,4		
M43640-32-32	51	2"	- 32	2"	42,0	154,0	79,6	60,5		

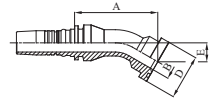
# INTERLOCK PLUS TYPE



## SAE STANDARD CONNECTIONS

### M43630

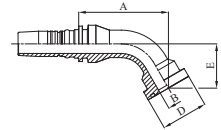
30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA CODO 30° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3  
 30° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3  
 FLANGIA 30° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43630-12-12	19	3/4"	- 12	3/4"	16,0	87,0	41,4	17,5		
M43630-16-16	25	1"	- 16	1"	20,0	98,5	47,7	20,0		
M43630-20-20	31	1.1/4"	- 20	1.1/4"	26,0	115,5	54,2	23,0		
M43630-24-24	38	1.1/2"	- 24	1.1/2"	32,0	133,5	63,7	27,0		
M43630-32-32	51	2"	- 32	2"	42,0	166,5	79,6	60,5		

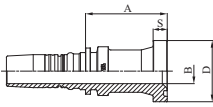
### M43660

60° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3  
 BRIDA CODO 60° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3  
 60° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3  
 FLANGIA 60° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43660-12-12	19	3/4"	- 12	3/4"	16,0	98,5	41,4	39,0		
M43660-12-16	19	3/4"	- 12	1"	20,0	101,5	47,7	44,0		
M43660-16-16	25	1"	- 16	1"	20,0	107,5	47,7	52,0		
M43660-20-20	31	1.1/4"	- 20	1.1/4"	26,0	130,0	54,2	59,0		
M43660-20-24	31	1.1/4"	- 20	1.1/2"	32,0	136,0	63,7	67,5		
M43660-24-24	38	1.1/2"	- 24	1.1/2"	32,0	154,0	63,7	61,5		
M43660-32-32	51	2"	- 32	2"	42,0	197,5	79,5	85,0		

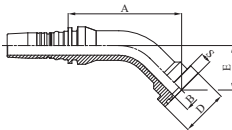
### M43710



FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)  
 BRIDA PLUS (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)  
 GERADER FLANSCH SCHWERE REIHE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)  
 FLANGIA PLUS (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

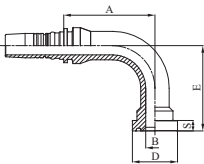
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	S	
M43710-10-12	16	5/8"	- 10	3/4"	16,0	51,5	41,4	9,0	
M43710-12-12	19	3/4"	- 12	3/4"	14,5	71,5	41,4	10,0	
M43710-16-16	25	1"	- 16	1"	19,5	64,0	47,7	11,0	
M43710-20-20	31	1.1/4"	- 20	1.1/4"	25,0	81,0	54,2	12,0	

### M43740



45° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)  
 BRIDA PLUS CODO 45° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)  
 45°-BOGEN FLANSCH SCHWERE REIHE  
 (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)  
 FLANGIA PLUS 45° (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43740-10-12	16	5/8"	- 10	3/4"	16,0	72,5	41,4	32,0	9,0
M43740-12-12	19	3/4"	- 12	3/4"	14,5	113,0	41,4	40,0	10,0
M43740-16-16	25	1"	- 16	1"	19,5	113,5	47,7	43,0	11,0
M43740-20-20	31	1.1/4"	- 20	1.1/4"	25,0	133,5	54,2	50,0	12,0



90° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)  
 BRIDA PLUS CODO 90° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)  
 90°-BOGEN FLANSCH SCHWERE REIHE  
 (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)  
 FLANGIA PLUS 90° (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

### M43790

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43790-10-12	16	5/8"	- 10	3/4"	16,0	61,5	41,4	60,5	9,0
M43790-12-12	19	3/4"	- 12	3/4"	14,5	93,0	41,4	75,0	10,0
M43790-16-16	25	1"	- 16	1"	19,5	90,0	47,7	90,0	11,0
M43790-20-20	31	1.1/4"	- 20	1.1/4"	25,0	115,0	54,0	110,0	12,0

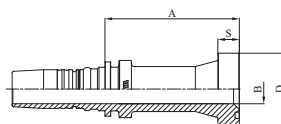
# INTERLOCK PLUS TYPE



## ORIGINAL EQUIPEMENT CONNECTIONS

### M43910

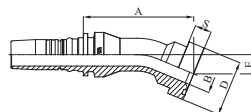
STRAIGHT SUPERCAT SERIES FLANGE  
BRIDA RECTA SUPERCAT  
FLANSCH GERADE SUPERCAT  
FLANGIA DRTTA SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	S
M43910-12-12	19	3/4"	- 12	3/4"	16,0	77,0	41,5	14,3
M43910-12-16	19	3/4"	- 12	1"	20,0	88,5	47,7	14,3
M43910-16-16	25	1"	- 16	1"	20,0	89,5	47,7	14,3
M43910-16-20	25	1"	- 16	1.1/4"	26,0	93,5	54,0	14,3
M43910-20-20	31	1.1/4"	- 20	1.1/4"	26,0	95,2	54,0	14,3
M43910-20-24	31	1.1/4"	- 20	1.1/2"	32,0	98,5	63,6	14,3
M43910-24-24	38	1.1/2"	- 24	1.1/2"	32,0	99,2	63,6	14,3
M43910-24-32	38	1.1/2"	- 24	2"	42,0	115,0	79,3	14,3
M43910-32-24	51	2"	- 32	1.1/2"	32,0	119,0	63,6	14,3
M43910-32-32	51	2"	- 32	2"	42,0	114,0	79,3	14,3

### M43920

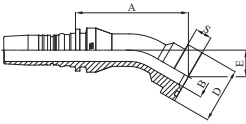
22,5° SUPERCAT SERIES FLANGE  
CODO 22,5° BRIDA SERIE SUPERCAT  
22,5° FLANSCH SERIE SUPERCAT  
FLANGIA 22,5° SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43920-12-12	19	3/4"	- 12	3/4"	16,0	94,5	41,5	14,5	14,3
M43920-12-16	19	3/4"	- 12	1"	20,0	102,0	47,7	16,5	14,3
M43920-16-16	25	1"	- 16	1"	20,0	111,0	47,7	16,5	14,3
M43920-16-20	25	1"	- 16	1.1/4"	26,0	115,5	54,0	19,0	14,3
M43920-20-20	31	1.1/4"	- 20	1.1/4"	26,0	122,0	54,0	18,0	14,3
M43920-20-24	31	1.1/4"	- 20	1.1/2"	32,0	139,0	63,6	23,0	14,3
M43920-24-24	38	1.1/2"	- 24	1.1/2"	32,0	138,0	63,6	20,0	14,3

### M43930

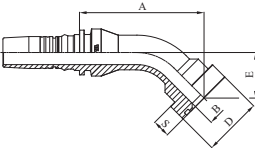
30° SUPERCAT SERIES FLANGE  
 CODO 30° BRIDA SERIE SUPERCAT  
 30° FLANSCH SERIE SUPERCAT  
 FLANGIA 30° SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43930-12-12	19	3/4"	- 12	3/4"	16,0	92,0	41,5	20,0	14,3
M43930-12-16	19	3/4"	- 12	1"	20,0	99,5	47,7	22,5	14,3
M43930-16-16	25	1"	- 16	1"	20,0	108,5	47,7	23,0	14,3
M43930-16-20	25	1"	- 16	1.1/4"	26,0	112,5	54,0	26,0	14,3
M43930-20-20	31	1.1/4"	- 20	1.1/4"	26,0	119,0	54,0	25,0	14,3
M43930-20-24	31	1.1/4"	- 20	1.1/2"	32,0	135,5	63,6	32,0	14,3
M43930-24-24	38	1.1/2"	- 24	1.1/2"	32,0	135,0	63,6	28,0	14,3
M43930-24-32	38	1.1/2"	- 24	2"	42,0	151,5	79,3	36,0	14,3
M43930-32-32	51	2"	- 32	2"	42,0	171,5	79,3	37,5	14,3

### M43940

45° SUPERCAT SERIES FLANGE  
 BRIDA SUPERCAT CODO DE 45°  
 FLANSCH 45° BOGEN SUPERCAT  
 FLANGIA 45° SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43940-12-12	19	3/4"	- 12	3/4"	16,0	85,0	41,5	32,0	14,3
M43940-12-16	19	3/4"	- 12	1"	20,0	92,0	47,7	35,5	14,3
M43940-16-16	25	1"	- 16	1"	20,0	100,4	47,7	36,7	14,3
M43940-16-20	25	1"	- 16	1.1/4"	26,0	104,0	54,0	40,5	14,3
M43940-20-20	31	1.1/4"	- 20	1.1/4"	26,0	110,5	54,0	40,5	14,3
M43940-20-24	31	1.1/4"	- 20	1.1/2"	32,0	125,5	63,6	50,5	14,3
M43940-24-24	38	1.1/2"	- 24	1.1/2"	32,0	125,5	63,6	45,3	14,3
M43940-24-32	38	1.1/2"	- 24	2"	42,0	139,5	79,3	56,5	14,3
M43940-32-32	51	2"	- 32	2"	42,0	158,5	79,3	61,5	14,3



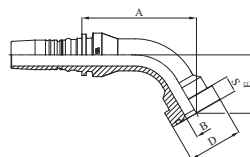
# INTERLOCK PLUS TYPE



## ORIGINAL EQUIPEMENT CONNECTIONS

### M43960

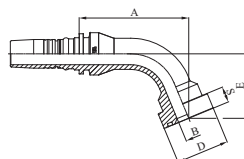
60° SUPERCAT SERIES FLANGE  
 CODO 60° BRIDA SERIE SUPERCAT  
 60° FLANSCH SERIE SUPERCAT  
 FLANGIA 60° SERIE SUPERCAT



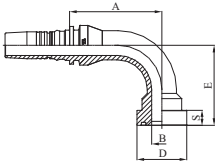
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43960-12-12	19	3/4"	- 12	3/4"	16,0	101,5	41,5	44,0	14,3
M43960-12-16	19	3/4"	- 12	1"	20,0	106,5	47,7	48,0	14,3
M43960-16-16	25	1"	- 16	1"	20,0	122,0	47,7	51,0	14,3
M43960-16-16055	25	1"	- 16	1"	20,0	117,5	47,7	55,0	14,3
M43960-16-20	25	1"	- 16	1.1/4"	26,0	122,5	54,0	55,0	14,3
M43960-20-20	31	1.1/4"	- 20	1.1/4"	26,0	135,5	54,0	56,0	14,3
M43960-20-24	31	1.1/4"	- 20	1.1/2"	32,0	149,0	63,6	69,0	14,3
M43960-24-24	38	1.1/2"	- 24	1.1/2"	32,0	154,5	63,6	63,0	14,3
M43960-32-32	51	2"	- 32	2"	42,0	202,0	79,3	86,5	14,3
M43960-32-32150	51	2"	- 32	2"	42,0	196,5	79,3	150,0	14,3

### M43970

67,5° SUPERCAT SERIES FLANGE  
 CODO 67,5° BRIDA SERIE SUPERCAT  
 67,5° FLANSCH SERIE SUPERCAT  
 FLANGIA 67,5° SERIE SUPERCAT



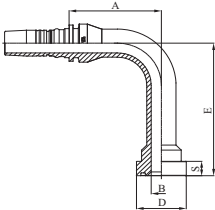
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43970-12-12	19	3/4"	- 12	3/4"	16,0	95,5	41,5	49,5	14,3
M43970-12-16	19	3/4"	- 12	1"	20,0	100,0	47,7	54,0	14,3
M43970-16-16	25	1"	- 16	1"	20,0	115,0	47,7	58,0	14,3
M43970-16-20	25	1"	- 16	1.1/4"	26,0	115,0	54,0	62,0	14,3
M43970-20-20	31	1.1/4"	- 20	1.1/4"	26,0	128,0	54,0	64,0	14,3
M43970-20-24	31	1.1/4"	- 20	1.1/2"	32,0	139,5	63,6	78,0	14,3
M43970-24-24	38	1.1/2"	- 24	1.1/2"	32,0	146,0	63,6	72,0	14,3
M43970-32-32	51	2"	- 32	2"	42,0	189,5	79,3	99,0	14,3



### M43990

90° SUPERCAT SERIES FLANGE  
BRIDA SUPERCAT CODO DE 90°  
FLANSCH 90° BOGEN SUPERCAT  
FLANGIA 90° SERIE SUPERCAT

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43990-12-12	19	3/4"	- 12	3/4"	16,0	72,5	41,5	64,5	14,3
M43990-12-16	19	3/4"	- 12	1"	20,0	75,5	47,7	69,5	14,3
M43990-16-16	25	1"	- 16	1"	20,0	88,5	47,7	76,5	14,3
M43990-16-20	25	1"	- 16	1.1/4"	26,0	86,5	54,0	80,5	14,3
M43990-20-20	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,0	85,0	14,3
M43990-20-24	31	1.1/4"	- 20	1.1/2"	32,0	104,5	63,6	101,0	14,3
M43990-24-24	38	1.1/2"	- 24	1.1/2"	32,0	112,5	63,6	96,5	14,3
M43990-24-32	38	1.1/2"	- 24	2"	42,0	115,0	79,3	112,0	14,3
M43990-32-32	51	2"	- 32	2"	42,0	144,0	79,3	135,5	14,3



### M43990 LONG DROP

90° LONG DROP SUPERCAT SERIES FLANGE  
CODO 90° LARGO BRIDA SERIE SUPERCAT  
90° LANGER SCHENKEL FLANSCH SERIE SUPERCAT  
FLANGIA 90° SERIE SUPERCAT CURVA LUNGA

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43990-16-16132	25	1"	- 16	1"	20,0	88,5	47,7	132,0	14,3
M43990-16-16150	25	1"	- 16	1"	20,0	88,5	47,7	150,0	14,3
M43990-16-20150	25	1"	- 16	1.1/4"	26,0	88,5	54,0	150,0	14,3
M43990-20-20092	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,0	92,0	14,3
M43990-20-20150	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,0	150,0	14,3
M43990-20-24135	31	1.1/4"	- 20	1.1/2"	32,0	98,5	63,6	135,0	14,3
M43990-24-24106	38	1.1/2"	- 24	1.1/2"	32,0	112,5	63,6	106,0	14,3

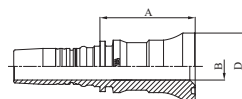
# INTERLOCK PLUS TYPE



## XTRAFLANGE

### M48510

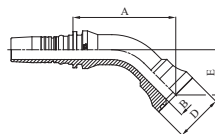
XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)  
 BRIDA XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)  
 XTRAFLANSCH GERADE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)  
 XTRAFLANGIA (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				WEIGHT
	DN	inch	Size		B	A	D	E	
M48510-12-12	19	3/4"	- 12	3/4"	14,5	64,0	41,4		0,4
M48510-16-16	25	1"	- 16	1"	19,5	68,3	47,7		0,6
M48510-20-20	31	1.1/4"	- 20	1.1/4"	25,0	88,0	54,4		1,0
M48510-24-24	38	1.1/2"	- 24	1.1/2"	31,0	102,0	63,7		1,4
M48510-32-32	51	2"	- 32	2"	41,0	129,0	79,6		2,7

### M48540

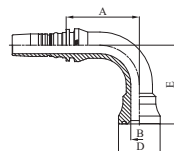
45° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)  
 BRIDA CODO 45° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)  
 45°-BOGEN XTRAFLANSCH (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)  
 XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				WEIGHT
	DN	inch	Size		B	A	D	E	
M48540-12-12	19	3/4"	- 12	3/4"	14,5	92,5	41,4	38,0	0,5
M48540-16-16	25	1"	- 16	1"	19,5	101,5	47,7	45,0	0,7
M48540-20-20	31	1.1/4"	- 20	1.1/4"	25,0	138,0	54,4	62,5	1,3
M48540-24-24	38	1.1/2"	- 24	1.1/2"	31,0	155,0	63,7	71,5	1,9
M48540-32-32	51	2"	- 32	2"	41,0	193,5	79,6	92,5	3,9

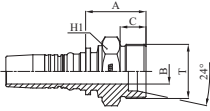
### M48590

90° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)  
 BRIDA CODO 90° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)  
 XTRAFLANSCH 90° BOGEN (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)  
 XTRAFLANGIA 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				WEIGHT
	DN	inch	Size		B	A	D	E	
M48590-12-12	19	3/4"	- 12	3/4"	14,5	75,5	41,4	75,0	0,5
M48590-16-16	25	1"	- 16	1"	19,5	83,5	47,7	90,0	0,8
M48590-20-20	31	1.1/4"	- 20	1.1/4"	25,0	107,0	54,4	120,0	1,5
M48590-24-24	38	1.1/2"	- 24	1.1/2"	31,0	122,0	63,7	140,0	2,2
M48590-32-32	51	2"	- 32	2"	41,0	147,5	79,6	180,0	4,3

### M31210

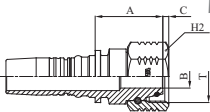


METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2  
 MACHO METRICO ASIENTO A 24° - SERIE PESADA DIN 20066 / ISO 12151-2  
 CES - DIN 20066 / ISO 12151-2  
 MASCHIO METRICO 24° - SERIE PESANTE DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
------------	-----------	--	--	--------	------	---------------	--	--	--	--

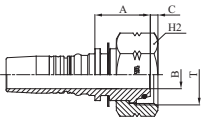
	DN	inch	Size	T	mm	B	A	C	H1
M31210-10-30	16	5/8"	- 10	M 30x2	20	12,0	36,8	16,0	30
M31210-12-30	19	3/4"	- 12	M 30x2	20	14,5	38,5	16,0	32
M31210-12-36	19	3/4"	- 12	M 36x2	25	14,5	43,4	18,0	36
M31210-16-36	25	1"	- 16	M 36x2	25	19,5	45,0	18,0	36
M31210-16-42	35	1"	- 16	M 42x2	30	19,5	46,8	20,0	46
M31210-20-52	31	1.1/4"	- 20	M 52x2	38	25,0	55,0	22,0	55
M31210-24-52	38	1.1/2"	- 24	M 52x2	38	30,5	55,6	22,0	55

### M41612



METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)  
 HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA  
 DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)  
 DKOS - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)  
 FEMMINA METRICA CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)

### M41613



METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)  
 HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA  
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)  
 DKOS - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)  
 FEMMINA METRICA CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
------------	-----------	--	--	--------	------	---------------	--	--	--	--

	DN	inch	Size	T	mm	B	A	C	H2
M41613-10-30	16	5/8"	- 10	M 30x2	20	12,0	37,1	3,5	36
M41612-10-24	16	5/8"	- 10	M 24x1,5	16	9,3	31,0	4,0	30
M41612-12-30	19	3/4"	- 12	M 30x2	20	12,5	43,9	3,2	36
M41613-12-36	19	3/4"	- 12	M 36x2	25	14,5	42,1	3,4	41
M41613-12-42	19	3/4"	- 12	M 42x2	30	19,0	35,8	5,3	50
M41612-16-36	25	1"	- 16	M 36x2	25	16,0	46,8	4,1	41
M41613-16-42	25	1"	- 16	M 42x2	30	19,5	46,3	5,3	50
M41613-16-52	25	1"	- 16	M 52x2	38	26,0	50,5	8,0	60
M41612-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	47,5	6,1	50
M41613-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	41,7	8,0	60
M41612-24-52	38	1.1/2"	- 24	M 52x2	38	29,0	52,5	8,8	60

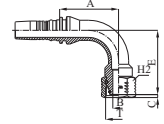
# INTERLOCK PLUS TYPE



## DIN STANDARD CONNECTIONS

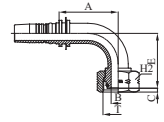
### M41692

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY  
 DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)  
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA  
 DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)  
 DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)  
 FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)



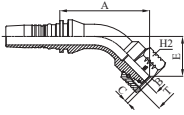
### M41693

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY  
 DIN 20066 / ISO 12151-2 (SLIP-ON NUT)  
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA  
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)  
 DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)  
 FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)



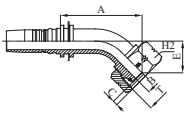
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm						
	DN	inch			Size	T	mm	B	A	C	E
M41693-10-30	16	5/8"	- 10	M 30x2	20	12,0	52,5	3,5	57,5		36
M41692-12-30	19	3/4"	- 12	M 30x2	25	12,5	63,8	3,2	68,5		36
M41693-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41692-16-36	25	1"	- 16	M 36x2	25	16,0	81,7	4,1	89,0		41
M41693-16-42	25	1"	- 16	M 42x2	30	19,5	81,6	5,3	75,5		50
M41692-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	103,5	6,1	90,0		50
M41693-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	100,0	8,0	86,5		60

### M41642



45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY  
 DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)  
 HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA  
 DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)  
 DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)  
 FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)

### M41643



45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY  
 DIN 20066 / ISO 12151-2 (SLIP-ON NUT)  
 HEMBRA METRICA CON O-RING CODO DE 45° ASIEN TO A 24° SERIE PESADA  
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)  
 DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)  
 FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size			T	mm	B	A	C	E
M41643-10-30	16	5/8"	- 10	M 30x2	20	12,0	66,5	3,5	29,5		36
M41642-12-30	19	3/4"	- 12	M 30x2	20	12,5	79,2	3,2	34,8		36
M41643-12-36	19	3/4"	- 12	M 36x2	25	14,5	81,0	3,4	33,5		41
M41642-16-36	25	1"	- 16	M 36x2	25	16,0	103,0	4,1	45,5		41
M41643-16-42	25	1"	- 16	M 42x2	30	19,5	93,1	5,3	36,0		50
M41642-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	116,5	6,1	44,5		50
M41643-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	110,0	8,0	40,0		60

# INTERLOCK PLUS TYPE



## DIN STANDARD CONNECTIONS

### M41293

90° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24° CONE HEAVY DUTY

DIN 20066 / ISO 12151-2 (SLIP-ON NUT)

CODO 90° METRICO MEDIO/LARGO 24° O-RING SERIE PESADA

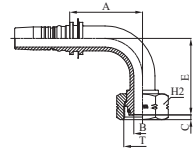
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

90° BOGEN O-RING METRISCH 24° KONUS H.T.

DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)

FEMMINA METRICA O-RING SERIE PESANTE CONO 24° CURVA 90° MEDIO/LUNGA

DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H <sub>2</sub>
M41293-10-30	16	5/8"	- 10	M 30x2	20	12,0	53,0	3,5	60,0		36
M41293-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41293-16-42	25	1"	- 16	M 42x2	30	19,5	81,5	5,3	86,0		50
M41293-20-52	31	1.1/4"	- 20	M 52x2	38	26,1	100,0	8,0	92,0		60

### M41243

45° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24° CONE HEAVY DUTY

DIN 20066 / ISO 12151-2 (SLIP-ON NUT)

CODO 45° METRICO MEDIO/LARGO 24° O-RING SERIE PESADA

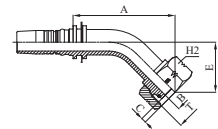
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

45° BOGEN O-RING METRISCH 24° KONUS H.T.

DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)

FEMMINA METRICA O-RING SERIE PESANTE CONO 24° CURVA 45° MEDIO/LUNGA

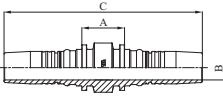
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



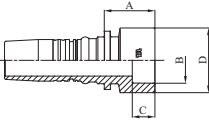
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H <sub>2</sub>
M41243-10-30	16	5/8"	- 10	M 30x2	20	12,0	77,5	3,5	35,0		36
M41243-12-36	19	3/4"	- 12	M 36x2	25	14,5	101,0	3,4	45,0		41
M41243-16-42	25	1"	- 16	M 42x2	30	19,5	112,0	5,3	55,0		50
M41243-20-52	31	1.1/4"	- 20	M 52x2	38	26,1	133,0	8,0	63,0		60

### M30050

DOUBLE CONNECTOR  
CONNECTOR DOBLE  
DOPPELVERBINDER  
DOPPIO INSERTO



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		B	A	C			
M30050-20-20	31	1.1/4"	- 20		25,0	42,0	206,0			
M30050-24-24	38	1.1/2"	- 24		31,0	42,5	228,5			
M30050-32-32	51	2"	- 32		41,0	42,5	244,5			



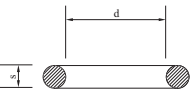
### M49510WL

WELDING TAIL  
ESPIGA SOLDABLE  
VERSCHWEISSNIPPEL  
INSERTO A SALDARE

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		B	A	C	D		
M49510-10-18WL	16	5/8"	- 10		18,1	20,5	10,0	26,0		
M49510-12-22WL	19	3/4"	- 12		22,1	27,5	12,0	34,0		
M49510-16-28WL	25	1"	- 16		28,1	31,5	14,0	40,0		
M49510-20-35WL	31	1.1/4"	- 20		35,1	33,0	14,0	49,0		

### JO29

OPTIONAL INTERLOCK PLUS O-RING  
INTERLOCK PLUS O-RING OPCIONAL  
OPTIONAL INTERLOCK PLUS O-RING  
O-RING INTERLOCK PLUS OPZIONALE



PART. REF.	HOSE BORE			O-RING SIZE (dxs mm)	MATERIAL
	DN	inch	Size		
JO29171318	16	5/8"	- 10	13,20x1,80	NBR 90 Shore A
JO29191618	19	3/4"	- 12	15,60x1,78	NBR 90 Shore A
JO29262218	25	1"	- 16	21,95x1,78	NBR 90 Shore A
JO29322818	31	1.1/4"	- 20	28,30x1,78	NBR 90 Shore A
JO29383518	38	1.1/2"	- 24	34,65x1,78	NBR 90 Shore A
JO29514718	51	2"	- 32	47,35x1,78	NBR 90 Shore A