

# HyperSpiral

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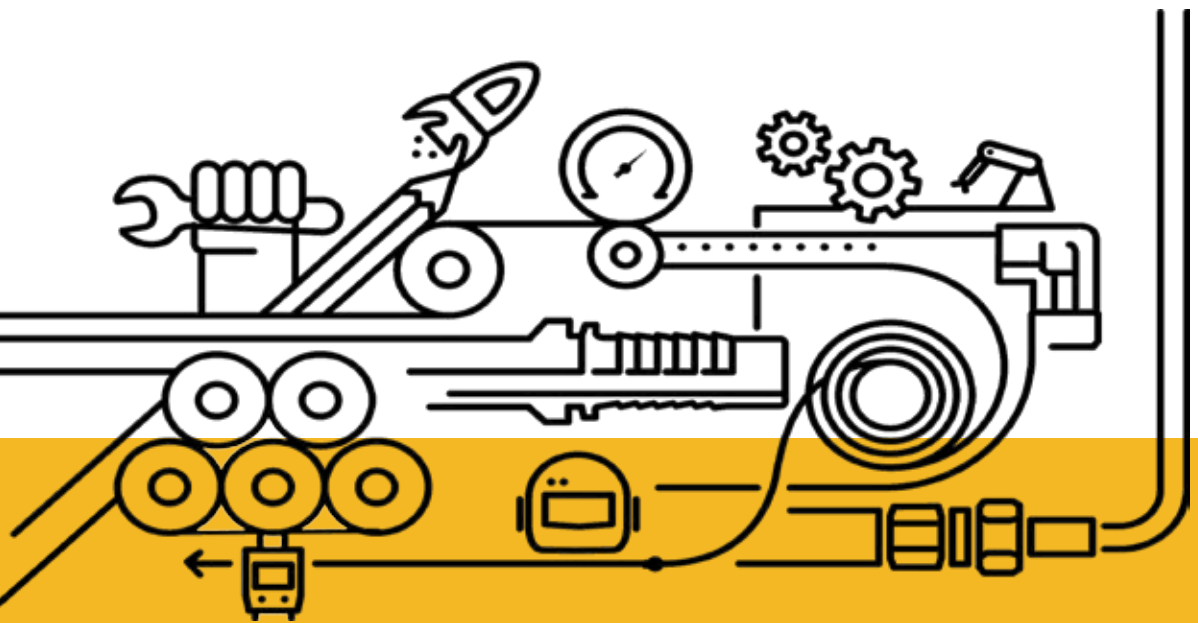
We feel better under pressure



No skive series  
for spiral hoses







We feel better under pressure

# Complete product range

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Vitillo is your solution for any hydraulic applications. Spiral and braided hoses with metal and textile reinforcement, standard and interlock press fittings, BSP, JIC, DIN and ORFS adaptors, customized special fittings.

All our fittings and adaptors are available in Zinc chromium III plating, Zinc-nichel plating and Stainless steel.

Whatever the customer's question, Vitillo has the answer.



Hoses



Press fittings  
ISO 12151 SAE J516



BSP adaptors  
BS 5200



JIC adaptors  
SAE J514



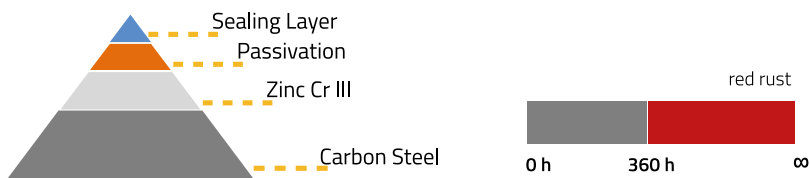
DIN 24° adaptors  
DIN 2353



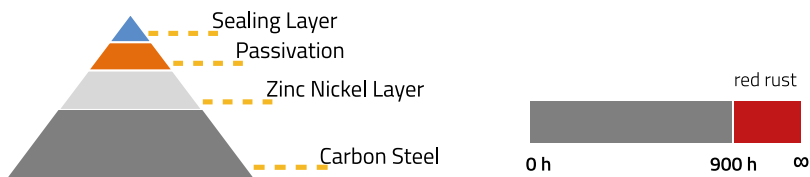
ORFS adaptors  
ORFS J1453

# Alternative Versions

## Zinc Chromium III



## Zinc Nickel



## Stainless Steel





# Applications

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# High performances in very extreme conditions



# Certifications



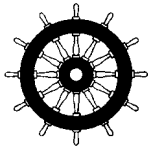
MINE SAFETY AND HEALTH  
ADMINISTRATION  
(MSHA)



DET NORSKE VERITAS (DNV)  
GERMANISCHER LLOYD (GL)



RINA (Registro Navale Italiano)



MarED



GOST-R



TEST  
Opniujacej Atestujacej I Certyfikujacej  
Wiroby Test Sp z.o.o.



UNI EN 45545-2





## Visual index

**HB.NS**  
**FERRULE**  
**FOR SPIRAL HOSE**  
 (no skive) / Pg. 15



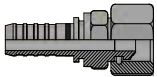
FERRULE



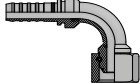
**HMG**  
**BSPP MALE 60° CONE**  
 / Pg. 16



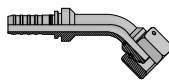
**HF45G.SP**  
**BSPP FEMALE**  
 (thrust-wire nut)  
 / Pg. 17



**HF90G.SP**  
**BSPP FEMALE 90°**  
**ELBOW** (thrust-wire nut)  
 / Pg. 18

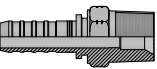


**HF45G.SP**  
**BSPP FEMALE 45°**  
**ELBOW** (thrust-wire nut)  
 / Pg. 19



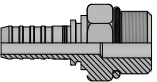
BSP

**HMNPTF**  
**NPTF MALE**  
 / Pg. 20



NPTF

**HMOB**  
**O-RING BOSS MALE**  
 / Pg. 21



**HMJ**  
**JIC 37° MALE**  
 / Pg. 22

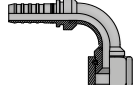


**HFDJ SP**  
**JIC 37° FEMALE**  
 (thrust-wire nut)  
 / Pg. 23

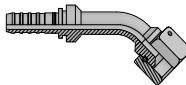


JIC

**HF90J SP**  
**JIC 37° FEMALE SWIVEL**  
**90°** (thrust-wire nut)  
 / Pg. 24

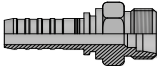


**HF45J SP**  
**JIC 37° FEMALE SWIVEL**  
**45°** (thrust-wire nut)  
 / Pg. 25

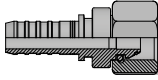


# Visual index

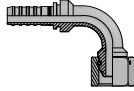
**HME.L**  
METRIC MALE 24°  
CONE L TYPE / Pg. 26



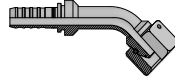
**HFE.L**  
METRIC FEMALE 24°  
CONE L TYPE / Pg. 27



**HF90E.L**  
METRIC FEMALE  
24° CONE 90° ELBOW  
L TYPE / Pg. 28



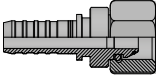
**HF45E.L**  
METRIC FEMALE  
24° CONE 45° ELBOW  
L TYPE / Pg. 29



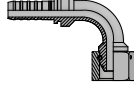
**HME.S**  
METRIC MALE  
24° CONE -S TYPE  
/ Pg. 30



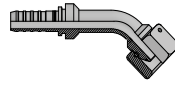
**HFE.S**  
METRIC FEMALE  
24° CONE -S TYPE  
/ Pg. 31



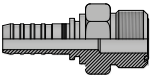
**HF90E.S**  
METRIC FEMALE  
24° CONE 90° ELBOW  
S TYPE / Pg. 32



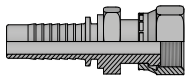
**HF45E.S**  
METRIC FEMALE  
24° CONE 45° ELBOW  
S TYPE / Pg. 33



**HMORFS**  
ORFS MALE  
/ Pg. 34



**FORFS GIR**  
ORFS FEMALE  
(doble exagon) / Pg. 35



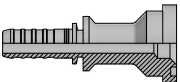
**F90ORFS**  
ORFS FEMALE SWIVEL  
90° ELBOW / Pg. 36



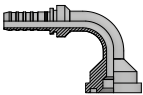
**F45ORFS**  
ORFS FEMALE SWIVEL  
45° ELBOW / Pg. 37



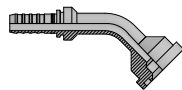
**HFDL**  
FLANGE CODE 61  
3000 PSI / Pg. 38



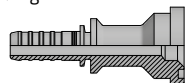
**HF90L**  
FLANGE CODE 61  
90° ELBOW 3000 PSI  
/ Pg. 39



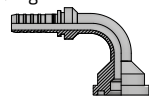
**HF45L**  
FLANGE CODE 61  
45° ELBOW 3000 PSI  
/ Pg. 40



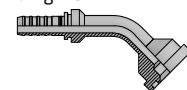
**HFDP**  
FLANGE CODE 62  
6000 PSI  
/ Pg. 41



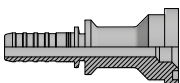
**HF90P**  
FLANGE CODE 62  
90° ELBOW 6000 PSI  
/ Pg. 42



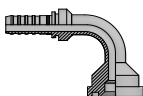
**HF45P**  
FLANGE CODE 62  
45° ELBOW 6000 PSI  
/ Pg. 43



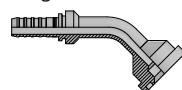
**HFDS**  
SUPERCAT FLANGE  
/ Pg. 44



**HF90S**  
SUPERCAT FLANGE  
90° ELBOW  
/ Pg. 45



**HF45S**  
SUPERCAT FLANGE  
90° ELBOW  
/ Pg. 46



METRIC / DIN

ORFS

FLANGES

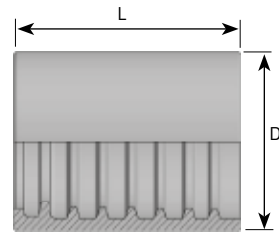
**Visual index**




## FERRULE FOR SPIRAL HOSE

BOCCOLA PER TUBO SPIRALATO  
 JUPE POUR  
 PRESSHÜLSE  
 CASQUILLO PARA

No skive - Senza pelatura - Non-dénudable -  
 Nichtschaelfassung - Sin pelar

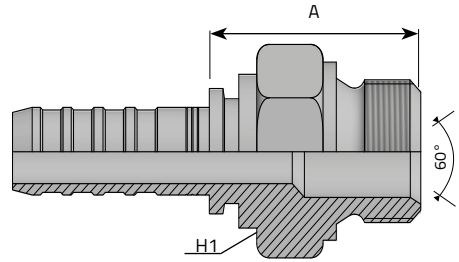


Code	Tube			Thread	Dimensions	
	D.N.	Hose	Diam		D	L
		Inch	mm		mm	mm
HB4NS06	-6	3/8"	9.5		33	43.9
HB4NS08	-8	1/2"	12.8		36	45.5
HB4NS10	-10	5/8"	16		42	50.3
HB4NS12	-12	3/4"	19		45	55.2
HB4NS16	-16	1"	25.4		54	68.3
HB4NS20	-20	1.1/4"	31.8		66	74.3
* HB6NS20	-20	1.1/4"	31.8		69	74.3

\* **FOR HOSE 4SP - R13 - R15**  
**PER TUBO 4SP - R13 - R15**

## BSPP MALE - 60° CONE

MASCHIO BSPP SV 60°  
 MÂLE BSPP CÔNE 60°  
 AGR 60° INNENKONUS (BSPP GEWINDE)  
 MACHO FIJO BSPP CONO 60°

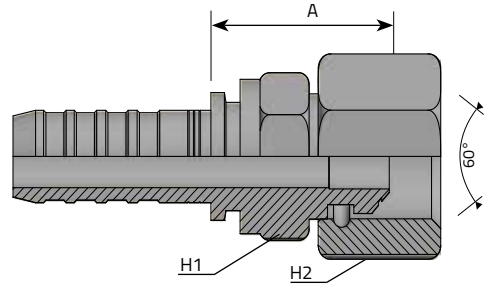


Code	Tube			Thread			Dimensions	
	D.N.	Hose	Diam	T	t/1"	H1	A	
		Inch	mm	Inch		mm	mm	
HMG0606	-6	3/8"	9.5	3/8"	19	22	33.5	
HMG0608	-6	3/8"	9.5	1/2"	14	27	36	
HMG0806	-8	1/2"	12.8	3/8"	19	27	33.5	
HMG0808	-8	1/2"	12.8	1/2"	14	27	36	
HMG0810	-8	1/2"	12.8	5/8"	14	30	38	
HMG0812	-8	1/2"	12.8	3/4"	14	32	33.5	
HMG1010	-10	5/8"	16	5/8"	14	32	39	
HMG1012	-10	5/8"	16	3/4"	14	32	39	
HMG1016	-10	5/8"	16	1"	11	38	42.5	
HMG1208	-12	3/4"	19	1/2"	14	34	37	
HMG1210	-12	3/4"	19	5/8"	14	34	39Z	
HMG1212	-12	3/4"	19	3/4"	14	34	39	
HMG1216	-12	3/4"	19	1"	11	38	42.5	
HMG1612	-16	1"	25.4	1"	11	42	41	
HMG1616	-16	1"	25.4	1"	11	42	42.5	
HMG1620	-16	1"	25.4	1.1/4"	11	50	44	
HMG2020	-20	1.1/4"	31.8	1.1/4"	11	50	50.2	
HMG2024	-20	1.1/4"	31.8	1.1/2"	11	55	51.2	

## BSPP FEMALE - 60° CONE THRUST-WIRE NUT

FEMMINA DIRITTA BSPP SV 60° DADO SPINATO CON O-RING  
FEMELLE DROITE BSPP AVEC O-RING CÔNE 60° (ÉCROU À JONC)  
DKOR 60° KONUS MIT O-RING (BSPP- GEWINDE) + GESTIFTETE  
ÜBERWURFMUTTER  
HEMBRA GIRATORIA RECTA BSPP CON O-RING CONO 60°  
(TUERCA CON SEGURO)

\* : without o-ring / senza o-ring

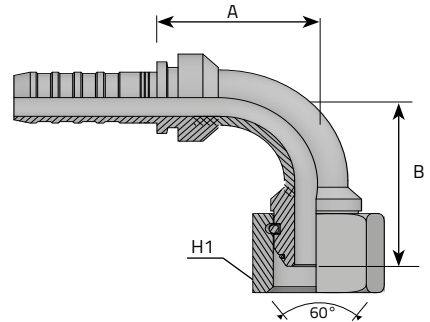


	Code	Tube		Thread			Dimensions		
		D.N.	Hose	Diam	T	t/1"	H1	H2	A
		Inch	mm	Inch		mm	mm		
*	HFDG0606SP	-6	3/8"	9.5	3/8"	19	22	22	32
*	HFDG0608SP	-6	3/8"	9.5	1/2"	14	22	27	33
*	HFDG0806SP	-8	1/2"	12.8	3/8"	19	27	22	32
*	HFDG0808SP	-8	1/2"	12.8	1/2"	14	27	27	33
*	HFDG0810SP	-8	1/2"	12.8	5/8"	14	-	-	-
	HFDG0812SP	-8	1/2"	12.8	3/4"	14	27	32	37
*	HFDG1008SP	-10	5/8"	16	1/2"	14	32	27	34
	HFDG1010SP	-10	5/8"	16	5/8"	14	-	-	-
	HFDG1012SP	-10	5/8"	16	3/4"	14	32	32	38
*	HFDG1208SP	-12	3/4"	19	1/2"	14	34	27	34
	HFDG1212SP	-12	3/4"	19	3/4"	14	34	32	38
	HFDG1216SP	-12	3/4"	19	1"	11	34	41	38
	HFDG1612SP	-16	1"	25.4	3/4"	14	42	32	40
	HFDG1616SP	-16	1"	25.4	1"	11	42	41	40
	HFDG1620SP	-16	1"	25.4	1.1/4"	11	42	50	41.5
	HFDG2020SP	-20	1.1/4"	31.8	1.1/4"	11	50	50	47.7
	HFDG2024SP	-20	1.1/4"	31.8	1.1/2"	11	50	55	49.7

## BSPP FEMALE 90° ELBOW THRUST-WIRE NUT

FEMMINA 90° BSPP SV60° DADO SPINATO CON O-RING  
 FEMELLE 90° BSPP AVEC O-RING CÔNE 60° (ÉCROU À JONC)  
 DKOR 90° BOGEN 60° KONUS MIT O-RING (BSPP-GEWINDE) +  
 GESTIFTETE  
 HEMBRA GIRATORIA A 90° BSPP CON O-RING (TUERCA CON SEGURO)

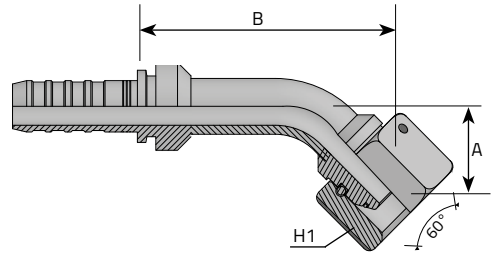
\* : without o-ring / senza o-ring



	Code	Tube		Thread			Dimensions		
		D.N.	Hose	Diam	T	t/1"	H1	B	A
		Inch	mm	Inch		mm	mm	mm	
*	HF90G0606SP	-6	3/8"	9.5	3/8"	19	22	41,0	39,0
*	HF90G0608SP	-6	3/8"	9.5	1/2"	14	27	42,5	39,0
*	HF90G0806SP	-8	1/2"	12.8	3/8"	19	22	43,0	43,5
*	HF90G0808SP	-8	1/2"	12.8	1/2"	14	27	46,0	43,5
	HF90G0812SP	-8	1/2"	12.8	3/4"	14	27	51,5	43,5
*	HF90G1008SP	-10	5/8"	16	1/2"	14	32	57,0	55,5
	HF90G1012SP	-10	5/8"	16	3/4"	14	32	56,5	55,5
*	HF90G1208SP	-12	3/4"	19	1/2"	14	27	57,0	59,0
	HF90G1212SP	-12	3/4"	19	3/4"	14	32	61,0	59,0
	HF90G1216SP	-12	3/4"	19	1"	11	34	66,5	59,0
	HF90G1612SP	-16	1"	25.4	3/4"	14	42	71,5	74,0
	HF90G1616SP	-16	1"	25.4	1"	11	42	75,0	78,5
	HF90G1620SP	-16	1"	25.4	1.1/4"	11	42	79,5	78,5
	HF90G2020SP	-20	1.1/4"	31.8	1.1/4"	11	50	92,5	96,7
	HF90G2024SP	-20	1.1/4"	31.8	1.1/2"	11	55	97,5	96,7

## BSPP FEMALE 45° ELBOW THRUST-WIRE NUT

FEMMINA 45° BSPP SV60° DADO SPINATO CON O-RING  
 FEMELLE 45° BSPP AVEC O-RING CÔNE 60° (ÉCROU À JONC)  
 DKOR 45° BOGEN 60° KONUS MIT O-RING (BSPP-GEWINDE) +  
 GESTIFTETE  
 HEMBRA GIRATORIA A 45° BSPP CON O-RING (TUERCA CON SEGURO)

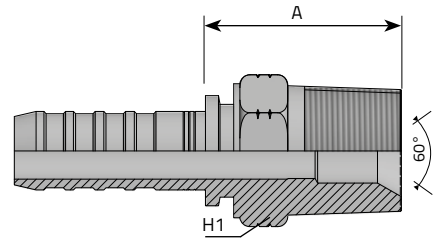


\* : without o-ring / senza o-ring

	Code	Tube			Thread		Dimensions		
		D.N.	Hose	Diam	T	t/1"	H1	B	A
		Inch	mm	Inch		mm	mm	mm	
*	HF45G0606SP	-6	3/8"	9.5	3/8"	19	22	22,1	63,1
*	HF45G0608SP	-6	3/8"	9.5	1/2"	14	27	24,4	65,4
*	HF45G0806SP	-8	1/2"	12.8	3/4"	14	22	20,0	67,5
*	HF45G0808SP	-8	1/2"	12.8	1/2"	14	27	23,7	70,2
	HF45G0812SP	-8	1/2"	12.8	3/4"	14	27	21,4	70,9
*	HF45G1008SP	-10	5/8"	16	1/2"	14	32	26,1	70,6
	HF45G1012SP	-10	5/8"	16	3/4"	14	32	26,4	70,9
*	HF45G1208SP	-12	3/4"	19	1/2"	14	27	28,7	68,2
	HF45G1212SP	-12	3/4"	19	3/4"	14	32	30,4	69,9
	HF45G1216SP	-12	3/4"	19	1"	11	-	32,1	71,6
	HF45G1612SP	-16	1"	25.4	3/4"	14	42	38,6	93,1
	HF45G1616SP	-16	1"	25.4	1"	11	42	43,1	97,6
	HF45G1620SP	-16	1"	25.4	1.1/4"	11	42	43,6	98,1
	HF45G2020SP	-20	1.1/4"	31.8	1.1/4"	11	50	43,6	117,3
	HF45G2024SP	-20	1.1/4"	31.8	1.1/2"	11	55	44,3	117,0

## NPTF MALE

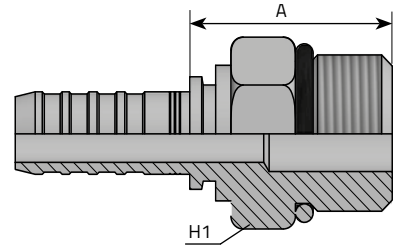
MASCHIO NPTF SV 60°  
 MÂLE NPTF CÔNE 60°  
 AGN 60° INNENKONUS (NPTF)  
 MACHO NPTF CONO 60°



Code	Tube			Thread			Dimensions	
	D.N.	Hose	Diam	T	t/1"	H1	A	
	Inch	mm	Inch	mm	mm	mm	mm	
HMNPTF0606	-6	3/8"	9.5	3/8"	18	22	33.2	
HMNPTF0608	-6	3/8"	9.5	1/2"	14	22	39	
HMNPTF0808	-8	1/2"	12.8	1/2"	14	27	38	
HMNPTF0812	-8	1/2"	12.8	3/4"	14	30	38	
HMNPTF1008	-10	5/8"	16	1/2"	14	32	39	
HMNPTF1012	-10	5/8"	16	3/4"	14	32	39	
HMNPTF1212	-12	3/4"	19	3/4"	14	34	39	
HMNPTF1216	-12	3/4"	19	1"	11.5	36	45.9	
HMNPTF1612	-16	1"	25.4	3/4"	14	42	41	
HMNPTF1616	-16	1"	25.4	1"	11.5	42	49.5	
HMNPTF1620	-16	1"	25.4	1.1/4"	11.5	46	49.6	
HMNPTF2020	-20	1.1/4"	31.8	1.1/4"	11.5	50	52.8	

## O-RING BOSS MALE

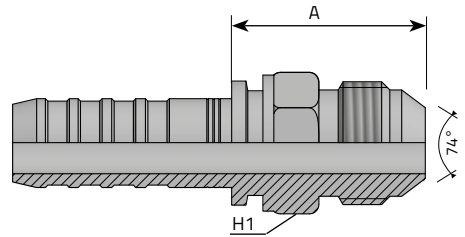
MASCHIO O-RING BOSS  
 MÂLE O-RING BOSS  
 SAE AUSSERGEWINDE O-RING BOSS  
 MACHO FIJO O-RING BOSS (E)



Code	Tube		Thread			Dimensions	
	D.N.	Hose	Diam	T	t/1"	H1	A
	Inch	mm	Inch		mm	mm	
HMOB0606	-6	3/8"	9.5	9/16"	18	22	31
HMOB0608	-6	3/8"	9.5	3/4"	16	22	33
HMOB0610	-6	3/8"	9.5	7/8"	14	21	36
HMOB0808	-8	1/2"	12.8	3/4"	16	27	33
HMOB0810	-8	1/2"	12.8	7/8"	14	27	35
HMOB0812	-8	1/2"	12.8	1.1/16"	12	32	37.5
HMOB1008	-10	5/8"	16	3/4"	16	32	34.0
HMOB1010	-10	5/8"	16	7/8"	14	32	36.0
HMOB1012	-10	5/8"	16	1.1/16"	12	32	38.5
HMOB1212	-12	3/4"	19	1.1/16"	12	34	38.5
HMOB1216	-12	3/4"	19	1.5/16"	12	38	42.5
HMOB1616	-16	1"	25.4	1.5/16"	12	42	40.5
HMOB1620	-16	1"	25.4	1.5/8"	12	46	43.5
HMOB2020	-20	1.1/4"	31.8	1.5/8"	12	50	46.7

## JIC 37° MALE

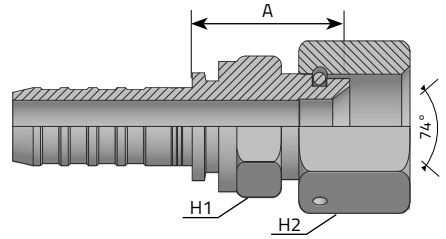
MASCHIO JIC SV 37°  
 MÂLE JIC CÔNE 37°  
 AGJ 37° JIC AUSSENKONUS (UNF – GEWINDE)  
 MACHO JIC CONO 37°(E)



Code	Tube			Thread			Dimensions	
	D.N.	Hose	Diam	T	t/1"	H1	A	
	Inch	mm	Inch	mm	mm	mm	mm	
HMJ0606	-6	3/8"	9.5	9/16"	18	22	33	
HMJ0608	-6	3/8"	9.5	3/4"	16	22	35.5	
HMJ0610	-6	3/8"	9.5	7/8"	14	24	38.5	
HMJ0808	-8	1/2"	12.8	3/4"	16	27	35.5	
HMJ0810	-8	1/2"	12.8	7/8"	14	27	38.5	
HMJ1010	-10	5/8"	16	7/8"	14	32	39.5	
HMJ1012	16	5/8"	10	1.1/16"	12	32	42	
HMJ1210	20	3/4"	12	7/8"	14	34	39.5	
HMJ1212	20	3/4"	12	1.1/16"	12	34	42	
HMJ1214	20	3/4"	12	1.3/16"	12	34	43	
HMJ1216	20	3/4"	12	1.5/16"	12	34	43	
HMJ1612	25	1"	16	1.1/16"	12	42	44	
HMJ1616	25	1"	16	1.5/16"	12	42	45	
HMJ1620	25	1"	16	1.5/8"	12	42	46.5	
HMJ2020	32	1.1/4"	20	1.5/8"	12	50	52.7	
HMJ2024	40	1.1/4"	20	1.7/8"	12	50	57.2	

## JIC 37° FEMALE THRUST WIRE NUT

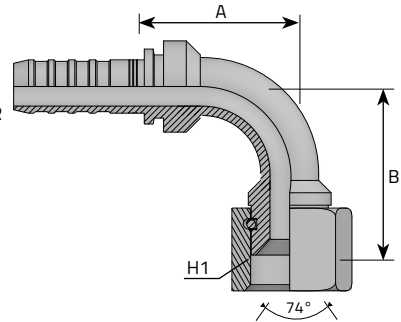
FEMMINA DIRITTA JIC SV 37° DADO SPINATO  
FEMELLE DROIT JIC CÔNE 37° (ÉCROU À JONC)  
DKJ 37° JIC DICHTKOPF (UNF-GEWINDE) + GESTIFTETE ÜBERWURFMUTTER  
HEMBRA GIRATORIA JIC CONO 37° (TUERCA CON SEGURO)



Code	Tube			Thread		Dimensions		
	D.N.	Hose	Diam	T	t/1"	H1	H2	A
		Inch	mm	Inch		mm	mm	mm
HFDJ0606SP	-6	3/8"	9.5	9/16"	18	22	19	29
HFDJ0608SP	-6	3/8"	9.5	3/4"	16	22	24	30
HFDJ0610SP	-6	3/8"	9.5	7/8"	14	22	27	33.4
HFDJ0808SP	-8	1/2"	12.8	3/4"	16	27	24	30
HFDJ0810SP	-8	1/2"	12.8	7/8"	14	27	27	30.4
HFDJ0812SP	-8	1/2"	12.8	1.1/16"	12	27	32	33
HFDJ1010SP	-10	5/8"	16	7/8"	14	32	27	31.4
HFDJ1012SP	-10	5/8"	16	1.1/16"	12	32	32	34
HFDJ1210SP	-12	3/4"	19	7/8"	14	34	27	31.4
HFDJ1212SP	-12	3/4"	19	1.1/16"	12	34	32	34
HFDJ1214SP	-12	3/4"	19	1.3/16"	12	-	-	-
HFDJ1216SP	-12	3/4"	19	1.5/16"	12	34	41	34
HFDJ1612SP	-16	1"	25.4	1.1/16"	12	42	32	36
HFDJ1614SP	-16	1"	25.4	1.3/16"	12	-	-	-
HFDJ1616SP	-16	1"	25.4	1.5/16"	12	42	41	36
HFDJ1620SP	-16	1"	25.4	1.5/8"	12	42	50	40
HFDJ2016SP	-20	1.1/4"	31.8	1.5/16"	12	50	41	41.2
HFDJ2020SP	-20	1.1/4"	31.8	1.5/8"	12	50	50	46.2
HFDJ2024SP	-20	1.1/4"	31.8	1.7/8"	12	50	55	48.2

## JIC 37° FEMALE - 90° ELBOW THRUST WIRE NUT

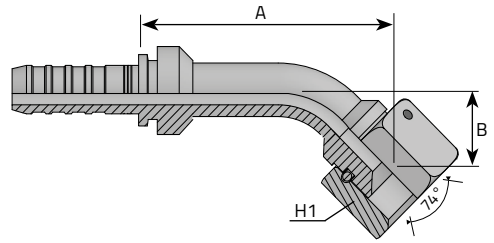
FEMMINA 90° JIC SV 37° CON DADO SPINATO  
FEMELLE 90° JIC CÔNE 37° (ÉCROU À JONC)  
DKJ 90° BOGEN 37° JIC DICHTKOPF (UNF) + GESTIFTETE ÜBERWURFMUTTER  
HEMBRA GIRATORIA JIC CODO 90° CONO 37° (TUERCA CON SEGURO)



Code	Tube		Thread			Dimensions		
	D.N.	Hose Inch	Diam mm	T Inch	t/1"	H1 mm	B mm	A mm
HF90J0606SP	-6	3/8"	9.5	9/16"	18	19	37,0	39,0
HF90J0608SP	-6	3/8"	9.5	3/4"	16	24	37,5	39,0
HF90J0610SP	-6	3/8"	9.5	7/8"	14	27	47,0	39,0
HF90J0808SP	-8	1/2"	12.8	3/4"	16	24	41,5	43,5
HF90J0810SP	-8	1/2"	12.8	7/8"	14	27	43,0	43,5
HF90J0812SP	-8	1/2"	12.8	1.1/16"	12	32	50,0	43,5
HF90J1010SP	-10	5/8"	16	7/8"	14	27	50,5	55,5
HF90J1012SP	-10	5/8"	16	1.1/16"	12	32	56,0	55,5
HF90J1210SP	-12	3/4"	19	7/8"	14	27	63,6	59,0
HF90J1212SP	-12	3/4"	19	1.1/16"	12	32	60,5	59,0
HF90J1216SP	-12	3/4"	19	1.5/16"	12	41	65,0	59,0
HF90J1612SP	-16	1"	25.4	1.1/16"	12	32	79,5	74,5
HF90J1616SP	-16	1"	25.4	1.5/16"	12	41	69,0	78,5
HF90J1620SP	-20	1"	31.8	1.5/8"	12	50	77,5	78,5
HF90J2020SP	-20	1.1/4"	31.8	1.5/8"	12	50	90,5	96,7
HF90J2024SP	-20	1.1/4"	31.8	1.7/8"	12	55	98,0	96,7

## JIC 37° FEMALE - 45° ELBOW THRUST WIRE NUT

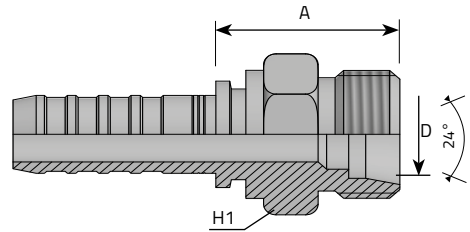
FEMMINA 45° JIC SV 37° CON DADO SPINATO  
 FEMELLE 45° JIC CÔNE 37° (ÉCROU À JONC)  
 DKJ 45° BOGEN 37° JIC DICHTKOPF (UNF) + GESTIFTETE  
 ÜBERWURFMUTTER  
 HEMBRA GIRATORIA JIC CODO 45° CONO 37° (TUERCA CON SEGURO)



Code	Tube		Thread			Dimensions		
	D.N.	Hose	Diam	T	t/1"	H1	B	A
	Inch	mm	Inch		mm	mm	mm	
HF45J0606SP	-6	3/8"	9.5	9/16"	18	19	19,4	60,4
HF34J0608SP	-6	3/8"	9.5	3/4"	16	24	19,7	60,7
HF45J0610SP	-6	3/8"	9.5	7/8"	14	27	26,3	67,3
HF45J0808SP	-8	1/2"	12.8	3/4"	16	24	20,4	66,9
HF45J0810SP	-8	1/2"	12.8	7/8"	14	27	21,4	67,9
HF45J0812SP	-8	1/2"	12.8	1.1/16"	12	32	22,0	68,5
HF45J1010SP	-10	5/8"	16	7/8"	14	27	22,4	66,9
HF45J1012SP	-10	5/8"	16	1.1/16"	12	32	25,7	70,2
HF45J1210SP	-12	3/4"	19	7/8"	14	27	33,0	71,5
HF45J1212SP	-12	3/4"	19	1.1/16"	12	32	30,8	69,3
HF45J1216SP	-12	3/4"	19	1.5/16"	12	41	30,8	70,3
HF45J1612SP	-16	1"	25.4	1.1/16"	12	32	39,1	105,1
HF45J1616SP	-16	1"	25.4	1.5/16"	12	41	39,1	93,6
HF45J1620SP	-20	1"	31.8	1.5/8"	12	50	37,8	94,3
HF45J2020SP	-20	1.1/4"	31.8	1.5/8"	12	50	43,3	108,0
HF45J2024SP	-20	1.1/4"	31.8	1.7/8"	12	55	44,3	110,0

## METRIC MALE 24° CONE - L TYPE

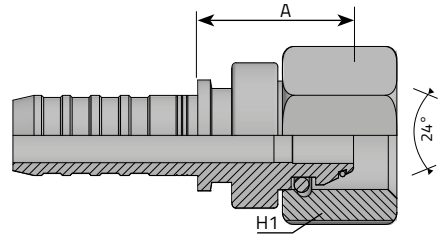
MASCHIO METRICO 24° DKOL  
 MÂLE MÉTRIQUE CÔNE 24° - SÉRIE L  
 CEL 24° KONUS METRISCH  
 MACHO MÉTRICO CONO 24° - SERIE L



Code	Tube		Diam	Thread	Dimensions		
	D.N.	Hose			D	H1	A
	Inch		mm	mm	mm	mm	mm
HME0616L10	-6	3/8"	9.5	M16x 1.5	10	22	30.2
HME0618L12	-6	3/8"	9.5	M18 x 1.5	12	22	30.2
HME0622L15	-6	3/8"	9.5	M22 x 1.5	15	24	32
HME0818L12	-8	1/2"	12.8	M18 x 1.5	12	27	30
HME0822L15	-8	1/2"	12.8	M22 x 1.5	15	27	31
HME0826L18	-8	1/2"	12.8	M26 x 1.5	18	27	31
HME1026L18	-10	5/8"	16	M26 x 1.5	18	32	32
HME1030L22	-10	5/8"	16	M30 x 2	22	32	33.5
HME1226L18	-12	3/4"	19	M26 x 1.5	18	34	32.0
HME1230L22	-12	3/4"	19	M30 x 2	22	34	33.5
HME1636L28	-16	1"	25.4	M36 x 2	28	42	36.0
HME2045L35	-20	1.1/4"	31.8	M45 x 2	35	50	44.2

## METRIC FEMALE 24° CONE - L TYPE

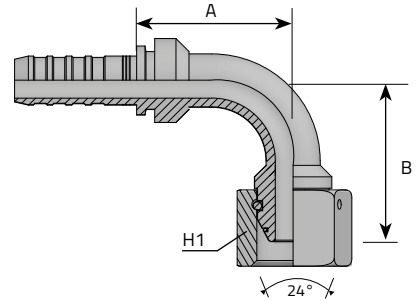
FEMMINA 90° METRICA DKOL CON O-RING 24°  
 FEMELLE 90° MÉTRIQUE CÔNE 24° AVEC O-RING - SÉRIE L  
 DKO-L 90° BOGEN INNENGEWINDE MIT O-RING 24° KONUS  
 HEMBRA GIRATORIA MÉTRICA CON O-RING CONO 24° - SERIE L



Code	Tube			Thread	Dimensions		
	D.N.	Hose	Diam		D	H1	A
		Inch	mm		mm	mm	mm
HFE0616L10	-6	3/8"	9.5	M16 x 1.5	10	22	36.2
HFE0618L12	-6	3/8"	9.5	M18 x 1.5	12	22	36.5
HFE0622L15	-6	3/8"	9.5	M18 x 1.5	15	27	39.9
HFE0818L12	-8	1/2"	12.8	M18 x 1.5	12	27	36.5
HFE0822L15	-8	1/2"	12.8	M22 x 1.5	15	27	39.9
HFE0826L18	-8	1/2"	12.8	M26 x 1.5	18	27	38.7
HFE1026L18	-10	5/8"	16	M26 x 1.5	18	32	39.7
HFE1030L22	-10	5/8"	16	M30 x 2	22	32	42.6
HFE1226L18	-12	3/4"	19	M26 x 1.5	18	34	39.7
HFE1230L22	-12	3/4"	19	M30 x 2	22	34	42.6
HFE1236L28	-12	3/4"	19	M36 x 2	28	34	46
HFE1636L28	-16	1"	25.4	M36 x 2	28	42	46
HFE2045L35	-20	1.1/4"	31.8	M45 x 2	35	50	54.3

## METRIC FEMALE 24° CONE - 90° ELBOW L TYPE

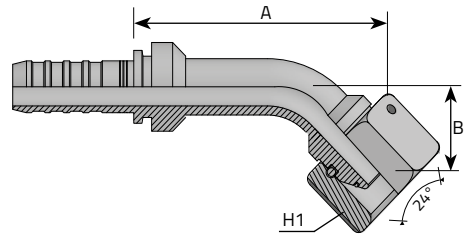
FEMMINA 90° METRICA DKOL CON O-RING 24°  
 FEMELLE 90° MÉTRIQUE CÔNE 24° AVEC O-RING - SÉRIE L  
 DKO-L 90° BOGEN INNENGEWINDE MIT O-RING 24° KONUS  
 HEMBRA GIRATORIA A 90° MÉTRICA CON O-RING CONO 24° - SERIE L



Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		T	D	H1	B
		Inch	mm	mm	mm	mm	mm	mm
HF90E0616L10	-6	3/8"	9.5	M16x 1.5	10	22	39,2	39,0
HF90E0618L12	-6	3/8"	9.5	M18 x 1.5	12	22	44,3	41,8
HF90E0622L15	-6	3/8"	9.5	M22 x 1.5	15	22	49,5	40,3
HF90E0818L12	-8	1/2"	12.8	M18 x 1.5	12	27	50,0	43,5
HF90E0822L15	-8	1/2"	12.8	M22 x 1.5	15	27	52,0	45,1
HF90E0826L18	-8	1/2"	12.8	M26 x 1.5	18	27	52,8	44,7
HF90E1026L18	-10	5/8"	16	M26 x 1.5	18	32	56,8	56,1
HF90E1030L22	-10	5/8"	16	M30 x 2	22	32	61,7	55,4
HF90E1226L18	-12	3/4"	19	M26 x 1.5	18	34	63,4	59,0
HF90E1230L22	-12	3/4"	19	M30 x 2	22	34	65,2	62,1
HF90E1236L28	-12	3/4"	19	M36 x 2	28	34	66,6	62,1
HF90E1636L28	-16	1"	25.4	M36 x 2	28	42	84,1	76,6
HF90E2045L35	-20	1.1/4"	31.8	M45 x 2	35	50	97,7	100,3

## METRIC FEMALE 24° CONE -45° ELBOW L TYPE

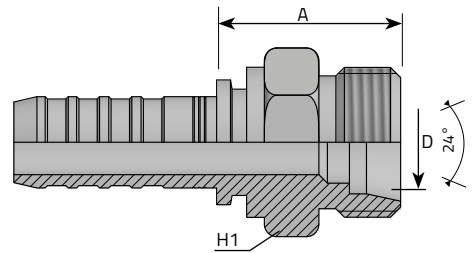
FEMMINA 45° METRICA O-RING 24° DKOL CON O-RING  
FEMELLE 45° MÉTRIQUE CÔNE 24° AVEC O-RING - SÉRIE L  
DKO-L 45° BOGEN INNENGEWINDE MIT O-RING 24° KONUS  
HEMBRA MÉTRICA A 45° CON O-RING CONO 24° - SERIE L



Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		T	D	H1	B
		Inch	mm	mm	mm	mm	mm	mm
HF45E0616L10	-6	3/8"	9.5	M16x 1.5	10	22	20,8	61,8
HF45E0618L12	-6	3/8"	9.5	M18 x 1.5	12	22	21,8	68,1
HF45E0622L15	-6	3/8"	9.5	M22 x 1.5	15	22	24,3	70,6
HF45E0818L12	-8	1/2"	12.8	M18 x 1.5	12	27	27,7	70,2
HF45E0822L15	-8	1/2"	12.8	M22 x 1.5	15	27	27,6	75,2
HF45E0826L18	-8	1/2"	12.8	M26 x 1.5	18	27	30,4	74,6
HF45E1026L18	-10	5/8"	16	M26 x 1.5	18	32	32,4	73,5
HF45E1030L22	-10	5/8"	16	M30 x 2	22	32	36,2	76,5
HF45E1226L18	-12	3/4"	19	M26 x 1.5	18	34	33,4	68,4
HF45E1230L22	-12	3/4"	19	M30 x 2	22	34	33,9	75,5
HF45E1236L28	-12	3/4"	19	M36 x 2	28	34	34,8	97,9
HF45E1636L28	-16	1"	25.4	M36 x 2	28	42	46,7	97,3
HF45E2045L35	-20	1.1/4"	31.8	M45 x 2	35	50	42,9	120,7

## METRIC MALE 24° CONE S TYPE

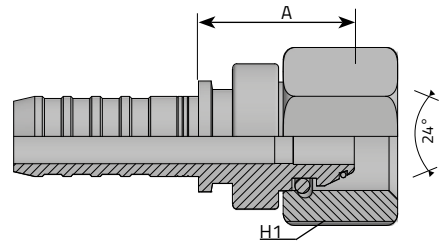
MASCHIO METRICO 24° DKOS  
MÂLE MÉTRIQUE CÔNE 24° - SÉRIE S  
CES METRISCH 24° KONUS  
MACHO MÉTRICO CONO 24° - SERIE S



Code	Tube		Thread		Dimensions		
	D.N.	Hose	Diam	T	D	H1	A
		Inch	mm	mm	mm	mm	mm
HME0618S10	-6	3/8"	9.5	M18 x 1.5	10	22	30.2
HME0620S12	-6	3/8"	9.5	M20 x 1.5	12	22	31
HME0622S14	-6	3/8"	9.5	M22 x 1.5	14	24	34.5
HME0822S16	-8	1/2"	12.8	M22 x 1.5	16	27	33.5
HME0824S16	-8	1/2"	12.8	M24 x 1.5	16	27	33.5
HME1030S20	-10	5/8"	16	M30 x 2	20	32	35.5
HME1230S20	-12	3/4"	19	M30 x 2	20	34	36
HME1236S25	-12	3/4"	19	M36 x 2	25	38	40
HME1242S30	-12	3/4"	19	M42 x 2	30	46	45.0
HME1636S25	-16	1"	25.4	M36 x 2	25	42	40
HME1642S30	-16	1"	25.4	M42 x 2	30	46	45
HME2052S38	-20	1.1/4"	31.8	M52 x 2	38	55	49.2

## METRIC FEMALE 24° CONE S TYPE

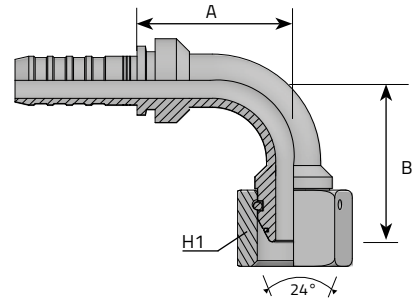
FEMMINA DIRITTA METRICA O-RING 24° DKOS  
FEMELLE DROIT MÉTRIQUE CÔNE 24° AVEC O-RING - SÉRIE S  
DKO-S INNENGEWINDE MIT O-RING 24° KONUS  
HEMBRA MÉTRICA CONO 24° CON O-RING - SERIE S



Code	Tube			Thread	Dimensions		
	D.N.	Hose	Diam		T	D	H1
		Inch	mm	mm	mm	mm	mm
HFE0618S10	-6	3/8"	9.5	M18 x 1.5	10	22	36.5
HFE0620S12	-6	3/8"	9.5	M20 x 1.5	12	22	38.5
HFE0622S14	-6	3/8"	9.5	M22 x 1.5	14	22	39.2
HFE0822S14	-8	1/2"	12.8	M22 x 1.5	14	27	39.2
HFE0824S16	-8	1/2"	12.8	M24 x 1.5	16	27	39.7
HFE0830S20	-8	1/2"	12.8	M30 x 2	20	27	41.5
HFE1030S20	-10	5/8"	16	M30 x 2	20	32	42.5
HFE1036S25	-10	5/8"	16	M36 x 2	25	32	44.7
HFE1230S20	-12	3/4"	9.5	M30 x 2	20	34	42.5
HFE1236S25	-12	3/4"	19	M36 x 2	25	34	44.7
HFE1242S30	-12	3/4"	19	M42 x 2	30	42	49
HFE1636S25	-16	1"	25.4	M36 x 2	25	42	46.7
HFE1642S30	-16	1"	25.4	M42 x 2	30	42	49
HFE2042S30	-20	1.1/4"	31.8	M42 x 2	30	50	55.2
HFE2052S38	-20	1.1/4"	31.8	M52 x 2	38	60	59.2

## METRIC FEMALE 24° CONE - 90° ELBOW - S TYPE

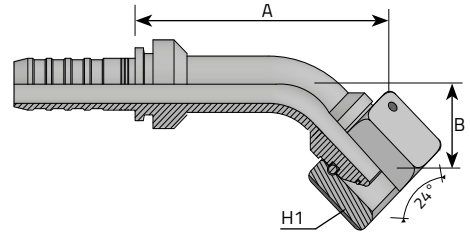
FEMMINA 90° METRICA O-RING 24° DKOS  
 FEMELLE 90° MÉTRIQUE CÔNE 24° AVEC O-RING - SÉRIE S  
 DKO-S 90° BOGEN INNENGEWINDE MIT O-RING 24° KONUS  
 HEMBRA MÉTRICA A 90° CON O-RING CONO 24° - SERIE S



Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		T	D	H1	B
	Inch		mm	mm	mm	mm	mm	mm
HF90E0618S10	-6	3/8"	9.5	M18 x 1.5	10	22	39,2	40,3
HF90E0620S12	-6	3/8"	9.5	M20 x 1.5	12	22	46,3	41,8
HF90E0622S14	-6	3/8"	9.5	M22 x 1.5	14	22	49,0	40,3
HF90E0822S14	-8	1/2"	12.8	M22 x 1.5	14	27	49,8	44,6
HF90E0824S16	-8	1/2"	12.8	M24 x 1.5	16	27	52,9	44,2
HF90E0830S20	-8	1/2"	12.8	M30 x 2	20	27	57,0	44,2
HF90E1030S20	-10	5/8"	16	M30 x 2	20	32	63,6	55,4
HF90E1036S25	-10	5/8"	16	M36 x 2	25	32	68,8	55,4
HF90E1230S20	-12	3/4"	19	M30 x 2	20	34	67,6	62,1
HF90E1236S25	-12	3/4"	19	M36 x 2	25	34	69,3	62,1
HF90E1636S25	-16	1"	25.4	M36 x 2	25	42	81,2	78,6
HF90E1642S30	-16	1"	25.4	M42 x 2	30	42	89,6	78,6
HF90E2042S30	-20	1.1/4"	31.8	M42 x 2	30	50	96,1	100,3
HF90E2052S38	-20	1.1/4"	31.8	M52 x 2	38	50	98,9	100,2

## METRIC FEMALE 24° CONE - 45° ELBOW - S TYPE

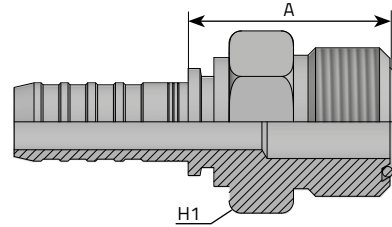
FEMMINA 45° METRICA O-RING 24° DKOS  
 FEMELLE 45° MÉTRIQUE CÔNE 24° AVEC O-RING - SÉRIE S  
 DKO-S 45° BOGEN INNENGEWINDE MIT O-RING 24° KONUS  
 HEMBRA MÉTRICA A 45° CON O-RING CONO 24° - SERIE S



Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		D	H1	B	A
	Inch		mm		mm	mm	mm	mm
HF45E0618S10	-6	3/8"	9.5	M18 x 1.5	10	22	20,8	63,1
HF45E0620S12	-6	3/8"	9.5	M20 x 1.5	12	22	23,2	69,5
HF45E0622S14	-6	3/8"	9.5	M22 x 1.5	14	22	23,9	70,2
HF45E0822S14	-8	1/2"	12.8	M22 x 1.5	14	27	26,1	74,1
HF45E0824S16	-8	1/2"	12.8	M24 x 1.5	16	27	27,5	76,7
HF45E0830S20	-8	1/2"	12.8	M30 x 2	20	27	27,4	75,1
HF45E1030S20	-10	5/8"	16	M30 x 2	20	32	31,4	76,7
HF45E1036S25	-10	5/8"	16	M36 x 2	25	32	32,9	79,7
HF45E1230S20	-12	3/4"	19	M30 x 2	20	34	33,1	75,7
HF45E1236S25	-12	3/4"	19	M36 x 2	25	34	35,2	82,8
HF45E1636S25	-16	1"	25.4	M36 x 2	25	42	42,4	98,5
HF45E1642S30	-16	1"	25.4	M42 x 2	30	42	48,3	104,9
HF45E2042S30	-20	1.1/4"	31.8	M42 x 2	30	50	42,1	119,9
HF45E2052S38	-20	1.1/4"	31.8	M52 x 2	38	50	44,1	121,8

## ORFS MALE

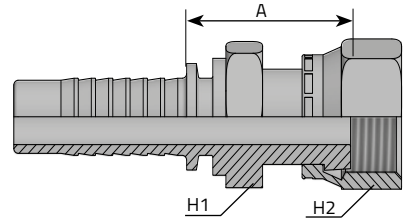
MASCHIO ORFS  
 MÄLE ORFS  
 AGF ORFS STIRNDICHTEND  
 MACHO ORFS



Code	Tube			Thread		Dimensions	
	D.N.	Hose	Diam	T	t/1"	H1	A
		Inch	mm	Inch		mm	mm
HMORFS0609	-6	3/8"	9.5	11/16"	16	22	31.5
HMORFS0611	-6	3/8"	9.5	13/16"	16	22	32.5
HMORFS0613	-6	3/8"	9.5	1"	14	27	36.5
HMORFS0811	-8	1/2"	12.8	13/16"	16	27	32.5
HMORFS0813	-8	1/2"	12.8	1"	16	27	35.5
HMORFS0814	-8	1/2"	12.8	1.3/16"	16	32	37.0
HMORFS1013	-10	5/8"	16	1"	14	32	36.5
HMORFS1014	-10	5/8"	16	1.3/16"	16	32	38.0
HMORFS1214	-12	3/4"	19	1.3/16"	16	34	38.0
HMORFS1215	-12	3/4"	19	1.7/16"	12	41	41.5
HMORFS1615	-16	1"	25.4	1.7/16"	12	42	41.5
HMORFS2021	-20	1.1/4"	31.8	1.11/16"	12	50	45.7

## ORFS FEMALE (DOUBLE HEXAGON)

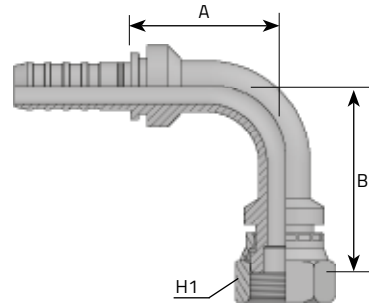
FEMMINA DIRITTA ORFS DOPPIO ESAGONO  
 FEMELLE DROIT ORFS  
 ORFS – UNF GEWINDE  
 HEMBRA GIRATORIA RECTA ORFS - DOBLE HEXAGONO



Code	Tube			Thread		Dimensions		
	D.N.	Hose Inch	Diam mm	T Inch	t/1" mm	H1 mm	H2 mm	A mm
<b>HFORFS0606</b>	<b>-6</b>	<b>3/8"</b>	<b>9.5</b>	<b>9/16"</b>	<b>18</b>	<b>22</b>	<b>17</b>	<b>36.5</b>
HFORFS0609	-6	3/8"	9.5	11/16"	16	22	22	39
<b>HFORFS0611</b>	<b>-6</b>	<b>3/8"</b>	<b>9.5</b>	<b>13/16"</b>	<b>16</b>	<b>22</b>	<b>24</b>	<b>44.5</b>
HFORFS0809	-8	1/2"	12.8	11/16"	16	27	22	39
<b>HFORFS0811</b>	<b>-8</b>	<b>1/2"</b>	<b>12.8</b>	<b>13/16"</b>	<b>16</b>	<b>27</b>	<b>24</b>	<b>44</b>
HFORFS0813	-8	1/2"	12.8	1"	14	27	30	44
<b>HFORFS0814</b>	<b>-8</b>	<b>1/2"</b>	<b>12.8</b>	<b>1.3/16"</b>	<b>16</b>	<b>30</b>	<b>36</b>	<b>45.5</b>
HFORFS1013	-10	5/8"	16	1"	14	32	30	45
<b>HFORFS1014</b>	<b>-10</b>	<b>5/8"</b>	<b>16</b>	<b>1.3/16"</b>	<b>16</b>	<b>32</b>	<b>36</b>	<b>46.5</b>
HFORFS1213	-12	3/4"	19	1"	14	34	30	45
<b>HFORFS1214</b>	<b>-12</b>	<b>3/4"</b>	<b>19</b>	<b>1.3/16"</b>	<b>16</b>	<b>34</b>	<b>36</b>	<b>46.5</b>
HFORFS1215	-12	3/4"	19	1.7/16"	12	36	41	47
<b>HFORFS1221</b>	<b>-12</b>	<b>3/4"</b>	<b>19</b>	<b>1.11/16"</b>	<b>12</b>	<b>41</b>	<b>50</b>	<b>51</b>
HFORFS1614	-16	1"	25.4	1.3/16"	16	42	36	48.5
<b>HFORFS1615</b>	<b>-16</b>	<b>1"</b>	<b>25.4</b>	<b>1.7/16"</b>	<b>12</b>	<b>42</b>	<b>41</b>	<b>49</b>
HFORFS1621	-16	1"	25.4	1.11/16"	12	42	50	51
<b>HFORFS2021</b>	<b>-20</b>	<b>1.1/4"</b>	<b>31.8</b>	<b>1.11/16"</b>	<b>12</b>	<b>50</b>	<b>50</b>	<b>57.2</b>
HFORFS2032	-20	1.1/4"	31.8	2"	12	50	60	57.2

## ORFS FEMALE SWIVEL 90° ELBOW

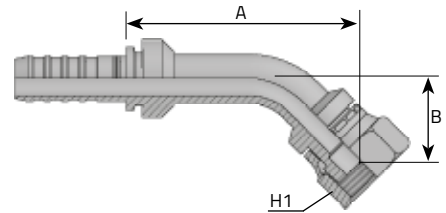
FEMMINA 90° ORFS  
 FEMELLE 90° ORFS  
 DK 90° BOGEN ORFS UNF STIRNDICHTEND  
 HEMBRA GIRATORIA A 90° ORFS



Code	Tube			Thread		Dimensions		
	D.N.	Hose Inch	Diam mm	T Inch	t/1"	H1 mm	B mm	A mm
HF90ORFS0606	-6	3/8"	9.5	9/16"	18	22	46,5	38,5
HF90ORFS0609	-6	3/8"	9.5	11/16"	16	22	47,8	42,3
HF90ORFS0611	-6	3/8"	9.5	13/16"	16	27	52,6	40,3
HF90ORFS0809	-8	1/2"	12.8	11/16"	16	27	50,0	45,0
HF90ORFS0811	-8	1/2"	12.8	13/16"	16	27	58,1	42,6
HF90ORFS0813	-8	1/2"	12.8	1"	14	27	54,7	44,1
HF90ORFS0814	-8	1/2"	12.8	1.3/16"	16	30	58,1	43,1
HF90ORFS1013	-10	5/8"	16	1"	14	32	65,2	59,1
HF90ORFS1014	-10	5/8"	16	1.3/16"	16	32	64,6	54,1
HF90ORFS1213	-12	3/4"	19	1"	14	34	72,2	60,6
HF90ORFS1214	-12	3/4"	19	1.3/16"	16	34	73,6	61,6
HF90ORFS1215	-12	3/4"	19	1.7/16"	12	36	77,5	62,1
HF90ORFS1221	-12	3/4"	19	1.11/16"	12	41	83,9	97,6
HF90ORFS1614	-16	1"	25.4	1.3/16"	16	42	86,5	75,5
HF90ORFS1615	-16	1"	25.4	1.7/16"	12	42	85,6	79,6
HF90ORFS1621	-16	1"	25.4	1.11/16"	12	42	99,4	97,5
HF90ORFS2021	-20	1.1/4"	31.8	1.11/16"	12	41	99,9	98,1
HF90ORFS2032	-20	1.1/4"	31.8	2"	12	50	90,6	103,1

## ORFS FEMALE SWIVEL 45° ELBOW

FEMMINA 45° ORFS  
 FEMELLE 45° ORFS  
 DK 45° BOGEN ORFS UNF STIRNDICHTEND  
 HEMBRA GIRATORIA A 45° ORFS

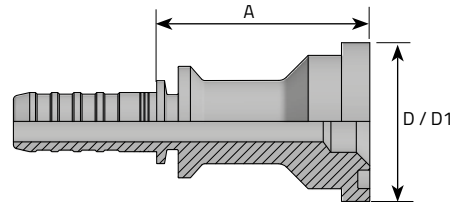


Code	Tube			Thread		Dimensions		
	D.N.	Hose	Diam	T	t/1"	H1	B	A
		Inch	mm	Inch		mm	mm	mm
HF45ORFS0606	-6	3/8"	9.5	9/16"	18	22	25,8	62,8
HF45ORFS0609	-6	3/8"	9.5	11/16"	16	22	26,3	70,6
HF45ORFS0611	-6	3/8"	9.5	13/16"	16	27	31,5	72,8
HF45ORFS0809	-8	1/2"	12.8	11/16"	16	27	25,3	75,8
HF45ORFS0811	-8	1/2"	12.8	13/16"	16	27	33,6	78,6
HF45ORFS0813	-8	1/2"	12.8	1"	14	27	31,1	77,1
HF45ORFS0814	-8	1/2"	12.8	1.3/16"	16	30	36,1	79,1
HF45ORFS1013	-10	5/8"	16	1"	14	32	35,3	77,9
HF45ORFS1014	-10	5/8"	16	1.3/16"	16	32	32,7	76,3
HF45ORFS1213	-12	3/4"	19	1"	14	34	39,4	79,5
HF45ORFS1214	-12	3/4"	19	1.3/16"	16	34	40,4	81,0
HF45ORFS1215	-12	3/4"	19	1.7/16"	12	36	43,6	84,7
HF45ORFS1221	-12	3/4"	19	1.11/16"	12	41	46,9	112,5
HF45ORFS1614	-16	1"	25.4	1.3/16"	16	42	44,1	103,1
HF45ORFS1615	-16	1"	25.4	1.7/16"	12	42	44,4	105,0
HF45ORFS1621	-16	1"	25.4	1.11/16"	12	42	43,3	112,8
HF45ORFS2021	-20	1.1/4"	31.8	1.11/16"	12	41	51,3	118,4
HF45ORFS2032	-20	1.1/4"	31.8	2"	12	50	45,3	116,4

## FLANGE CODE 61 - 3000 PSI

FLANGIA 3000 PSI  
 BRIDE DROIT 3000 PSI (PIÈCE ENTIER)  
 FLANSCHANSCHLUSS 3000 PSI – EINTEILIG  
 BRIDA RECTA 3000 PSI (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
 Sans O-Ring / Ohne O-Ring/ Sin O-Ring

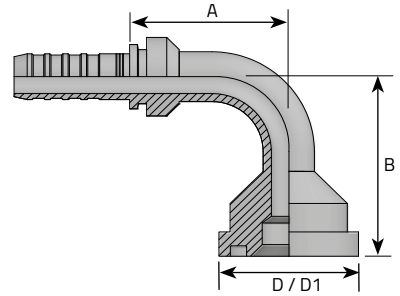


Code	Tube			Thread	Dimensions		
	D.N.	Hose	Diam		D	D1	A
		Inch	mm		Inch	mm	mm
HFDL0808I	-8	1/2"	12.8		1/2"	30.2	56.2
HFDL0810I	-8	1/2"	12.8		5/8"	34	58.05
HFDL0812I	-8	1/2"	12.8		3/4"	38.1	62.3
HFDL1010I	-10	5/8"	16		5/8"	34	58.8
HFDL1012I	-10	5/8"	16		3/4"	38.1	60.3
HFDL1208I	-12	3/4"	19		1/2"	30.2	63.2
HFDL1212I	-12	3/4"	19		3/4"	38.1	61.3
HFDL1216I	-12	3/4"	19		1"	44.5	65
HFDL1612I	-16	1"	25.4		3/4"	38.1	59
HFDL1616I	-16	1"	25.4		1"	44.5	68
HFDL1620I	-16	1"	25.4		1.1/4"	50.8	74
HFDL2016I	-20	1.1/4"	31.8		1"	44.5	67.7
HFDL2020I	-20	1.1/4"	31.8		1.1/4"	50.8	85.2
HFDL2024I	-20	1.1/4"	31.8		1.1/2"	60.3	90.2

## FLANGE CODE 61 - 3000 PSI - 90° ELBOW

FLANGIA 90° SAE J518 3000 PSI INTERA  
 BRIDE 90° 3000 PSI (PIÈCE ENTIER)  
 90° FLANSCHANSCHLUSS 3000 PSI – EINTEILIG  
 BRIDA A 90° 3000 PSI (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
 Sans O-Ring / Ohne O-Ring/ Sin O-Ring

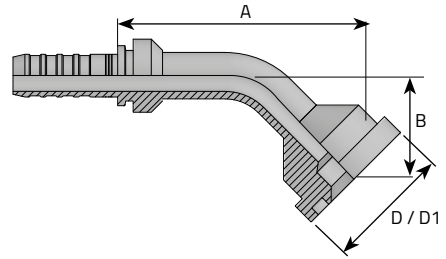


Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		D	D1	B	A
		Inch	mm		Inch	mm	mm	mm
HF90L0808I	-8	1/2"	12.8		1/2"	30.2	43,0	43,5
HF90L0810I	-8	1/2"	12.8		5/8"	34	47,0	43,5
HF90L0812I	-8	1/2"	12.8		3/4"	38.1	50,0	43,5
HF90L1010I	-10	5/8"	16		5/8"	34	52,0	55,5
HF90L1012I	-10	5/8"	16		3/4"	38.1	55,0	55,5
HF90L1208I	-12	3/4"	19		1/2"	30.2	52,0	62,5
HF90L1212I	-12	3/4"	19		3/4"	38.1	58,0	62,5
HF90L1216I	-12	3/4"	19		1"	44.5	62,0	62,5
HF90L1612I	-16	1"	25.4		3/4"	38.1	59,5	82,5
HF90L1616I	-16	1"	25.4		1"	44.5	63,5	82,5
HF90L1620I	-16	1"	25.4		1.1/4"	50.8	69,5	82,5
HF90L2020I	-20	1.1/4"	31.8		1.1/4"	50.8	86,0	96,7
HF90L2024I	-20	1.1/4"	31.8		1.1/2"	60.3	87,0	96,7

## FLANGE CODE 61 - 3000 PSI - 45° ELBOW

FLANGIA 45° SAE J518 3000 PSI INTERA  
BRIDE 45° 3000 PSI (PIÈCE ENTIER)  
45° FLANSCHANSCHLUSS 3000 PSI – EINTEILIG  
BRIDA A 45° 3000 PSI (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
Sans O-Ring / Ohne O-Ring/ Sin O-Ring

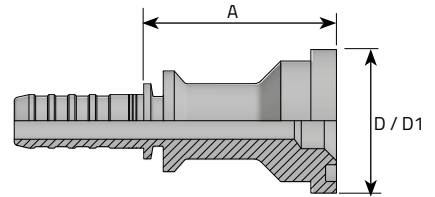


Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		D	D1	B	A
		Inch	mm		Inch	mm	mm	mm
HF45L0808I	-8	1/2"	12.8		1/2"	30.2	23,0	67,5
HF45L0810I	-8	1/2"	12.8		5/8"	34	25,0	72,5
HF45L0812I	-8	1/2"	12.8		3/4"	38.1	28,0	72,5
HF45L1010I	-10	5/8"	16		5/8"	34	30,0	69,5
HF45L1012I	-10	5/8"	16		3/4"	38.1	30,0	69,5
HF45L1208I	-12	3/4"	19		1/2"	30.2	28,0	68,5
HF45L1212I	-12	3/4"	19		3/4"	38.1	32,0	72,5
HF45L1216I	-12	3/4"	19		1"	44.5	35,0	75,5
HF45L1612I	-16	1"	25.4		3/4"	38.1	34,6	88,1
HF45L1616I	-16	1"	25.4		1"	44.5	31,6	91,1
HF45L1620I	-16	1"	25.4		1.1/4"	50.8	35,6	95,1
HF45L2020I	-20	1.1/4"	31.8		1.1/4"	50.8	42,3	107,0
HF45L2024I	-20	1.1/4"	31.8		1.1/2"	60.3	43,3	108,0

## FLANGE CODE 62 - 6000 PSI

FLANGIA DIRITTA SAE J518 6000 PSI INTERA  
 BRIDE DROIT 6000 PSI (PIÈCE ENTIER)  
 FLANSCHANSCHLUSS 6000 PSI – EINTEILIG  
 BRIDA RECTA 6000 PSI (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
 Sans O-Ring / Ohne O-Ring/ Sin O-Ring

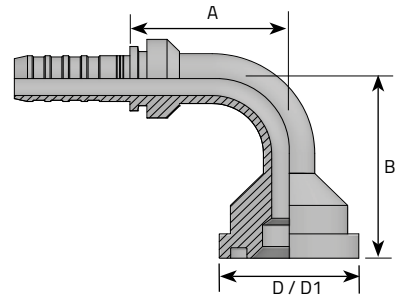


Code	Tube			Thread	Dimensions		
	D.N.	Hose Inch	Diam mm		D Inch	D1 mm	A mm
HFDP0808I	-8	1/2"	12.8		1/2"	31.7	61.2
HFDP0812I	-8	1/2"	12.8		3/4"	41.3	64.5
HFDP1008I	-10	5/8"	16		1/2"	31.7	65.2
HFDP1012I	-10	5/8"	16		3/4"	41.3	63.5
HFDP1212I	-12	3/4"	19		3/4"	41.3	66.5
HFDP1216I	-12	3/4"	19		1"	47.6	75.03
HFDP1612I	-16	1"	25.4		3/4"	41.3	78.5
HFDP1616I	-16	1"	25.4		1"	47.6	82.03
HFDP1620I	-16	1"	25.4		1.1/4"	54	87.3
HFDP2020I	-20	1.1/4"	31.8		1.1/4"	54	87
HFDP2024I	-20	1.1/4"	31.8		1.1/2"	63.5	98.8

## FLANGE CODE 62 - 6000 PSI - 90° ELBOW

FLANGIA A 90° SAE J518 6000 PSI INTERA  
BRIDE 90° 6000 PSI (PIÈCE ENTIER)  
90° FLANSCHANSCHLUSS 6000 PSI – EINTEILIG  
BRIDA A 90° 6000 PSI (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
Sans O-Ring / Ohne O-Ring/ Sin O-Ring

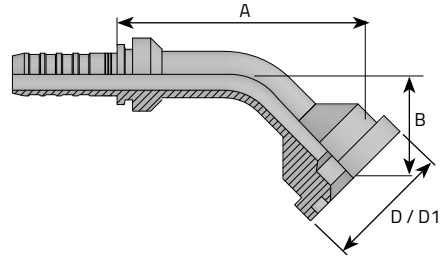


Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		D	D1	B	A
		Inch	mm		Inch	mm	mm	mm
HF90P0808I	-8	1/2"	12.8		1/2"	31.7	44,0	43,5
HF90P0812I	-8	1/2"	12.8		3/4"	41.3	51,0	43,5
HF90P1008I	-10	5/8"	16		1/2"	31.7	50,0	55,5
HF90P1012I	-10	5/8"	16		3/4"	41.3	59,0	56,5
HF90P1212I	-12	3/4"	19		3/4"	41.3	62,0	62,5
HF90P1216I	-12	3/4"	19		1"	47.6	67,0	62,5
HF90P1612I	-16	1"	25.4		3/4"	41.3	63,5	82,5
HF90P1616I	-16	1"	25.4		1"	47.6	68,5	82,5
HF90P1620I	-16	1"	25.4		1.1/4"	54	72,5	82,5
HF90P2020I	-20	1.1/4"	31.8		1.1/4"	54	92,0	96,7
HF90P2024I	-20	1.1/4"	31.8		1.1/2"	63.5	96,0	96,7

## FLANGE CODE 62 - 6000 PSI - 45° ELBOW

FLANGIA A 45° SAE J518 6000 PSI INTERA  
BRIDE 45° 6000 PSI (PIÈCE ENTIER)  
45° FLANSCHANSCHLUSS 6000 PSI – EINTEILIG  
BRIDA A 45° 6000 PSI (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
Sans O-Ring / Ohne O-Ring/ Sin O-Ring

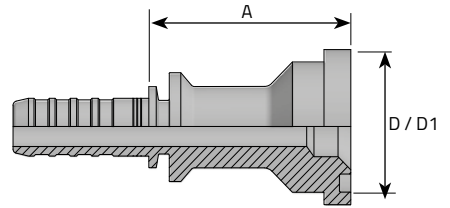


Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		D	D1	B	A
		Inch	mm		Inch	mm	mm	mm
HF45P0808I	-8	1/2"	12.8		1/2"	31.7	23,0	68,5
HF45P0812I	-8	1/2"	12.8		3/4"	41.3	28,0	73,5
HF45P1008I	-10	5/8"	16		1/2"	31.7	26,0	66,5
HF45P1012I	-10	5/8"	16		3/4"	41.3	30,0	73,5
HF45P1212I	-12	3/4"	19		3/4"	41.3	32,0	75,5
HF45P1216I	-12	3/4"	19		1"	47.6	35,0	79,5
HF45P1612I	-16	1"	25.4		3/4"	41.3	34,6	91,1
HF45P1616I	-16	1"	25.4		1"	47.6	31,6	94,1
HF45P1620I	-16	1"	25.4		1.1/4"	54	35,6	99,1
HF45P2020I	-20	1.1/4"	31.8		1.1/4"	54	42,3	111,0
HF45P2024I	-20	1.1/4"	31.8		1.1/2"	63.5	43,3	114,0

## SUPERCAT FLANGE

FLANGIA DIRITTA SUPERCAT INTERA  
 EMBOUT À BRIDE SUPERCAT DROITE (PIÈCE ENTIER)  
 FLANSCHANSCHLUSS SUPERCAT EINTEILIG  
 BRIDA RECTA SUPERCAT (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
 Sans O-Ring / Ohne O-Ring/ Sin O-Ring

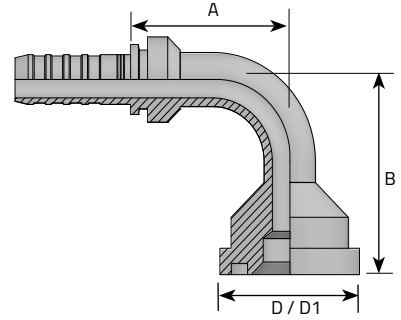


Code	Tube			Thread	Dimensions		
	D.N.	Hose	Diam		D	D1	A
		Inch	mm		Inch	mm	mm
HFDS1212I	-12	3/4"	19		3/4"	41.3	71.9
HFDS1216I	-12	3/4"	19		1"	47.6	79.8
HFDS1616I	-16	1"	25.4		1"	47.6	86.8
HFDS1620I	-16	1"	25.4		1.1/4"	54	91.3
HFDS2020I	-20	1.1/4"	31.8		1.1/4"	54	91.7
HFDS2024I	-20	1.1/4"	31.8		1.1/2"	63.5	100.5

## SUPERCAT FLANGE - 90° ELBOW

FLANGIA 90° SUPERCAT INTERA  
 BRIDE 90° SUPERCAT (PIÈCE ENTIER)  
 90° FLANSCHANSCHLUSS SUPERCAT EINTEILIG  
 BRIDA 90° SUPERCAT (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
 Sans O-Ring / Ohne O-Ring/ Sin O-Ring

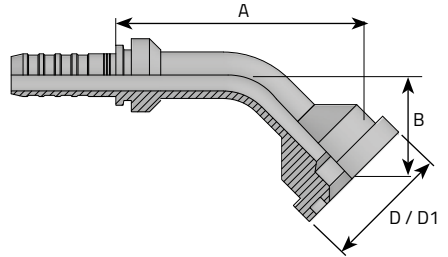


	Code	Tube			Thread	Dimensions			
		D.N.	Hose	Diam		D	D1	B	A
			Inch	mm		Inch	mm	mm	mm
	HF90S1212I	-12	3/4"	19		3/4"	41.3	67,0	62,5
	HF90S1216I	-12	3/4"	19		1"	47.6	73,0	62,5
	HF90S1616I	-16	1"	25.4		1"	47.6	74,5	82,5
	HF90S1620I	-16	1"	25.4		1.1/4"	54	80,0	82,5
	HF90S2020I	-20	1.1/4"	31.8		1.1/4"	54	96,0	96,7
	HF90S2024I	-20	1.1/4"	31.8		1.1/2"	63.5	98,0	96,7

## SUPERCAT FLANGE - 45° ELBOW

FLANGIA 45° SUPERCAT INTERA  
 BRIDE 45° SUPERCAT (PIÈCE ENTIER)  
 45° FLANSCHANSCHLUSS SUPERCAT EINTEILIG  
 BRIDA 45° SUPERCAT (PIEZA UNICA)

Do Not Include O-Ring / O-Ring Non Compresso /  
 Sans O-Ring / Ohne O-Ring/ Sin O-Ring



Code	Tube			Thread	Dimensions			
	D.N.	Hose	Diam		D	D1	B	A
		Inch	mm		Inch	mm	mm	mm
HF45S1212I	-12	3/4"	19		3/4"	41.3	39,0	79,5
HF45S1216I	-12	3/4"	19		1"	47.6	43,0	83,5
HF45S1616I	-16	1"	25.4		1"	47.6	39,6	99,1
HF45S1620I	-16	1"	25.4		1.1/4"	54	42,6	102,1
HF45S2020I	-20	1.1/4"	31.8		1.1/4"	54	49,3	114,0
HF45S2024I	-20	1.1/4"	31.8		1.1/2"	63.5	50,3	115,0



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