

# HYDRAULIC CATALOGUE

One Piece



# WHO WE ARE.

Motion delivers a world-class customer-first approach to everything we do. This has firmly established our business as the leader in the market, providing excellence and expertise in industrial products, solutions and services.

For more than 100 years we have been a feature in the Australian industrial landscape giving customers unmatched products and service through an integrated network of branches, workshops and service centres.

We have an ongoing commitment to invest in our people, facilities, IT and systems to ensure we can continue to offer a broad ranging and premium level of engineering design, servicing and turnkey projects to our customers across Australia.

We are committed and proud to keep our customers in motion, every day of the year.

“WE KEEP THE WORLD MOVING”



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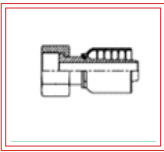
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## EB - EXITFLEX BRAIDED COUPLING

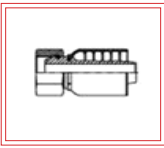
COUPLING TO SUIT : SAE 100 R1AT - EN 853 1SN / 80-EX1SN-04 to 80-EX1SN-32  
 SAE 100 R1AT - EN 853 1SN HIGH TEMPERATURE / 80-EXH1SN-04 to 80-EXH1SN-16  
 SAE 100 R2AT - EN 853 2SN / 80-EX2SN-04 to 80-EX2SN-32  
 SAE 100 R2AT - EN 853 2SN HIGH TEMPERATURE / 80-EXH2SN-04 to 80-EXH2SN-32  
 EXITFLEX 3K PRESSURE WASHER 210 BAR / 80-PW3K-04 & PW3K-06  
 EXITFLEX 6K PRESSURE WASHER 420 BAR / 80-PW6K-04 & PW6K-06  
 SAE 100 R16 - EN857 2SC / 80-EXR16-04 to 80-EXR16-32  
 EXTENDED LIFE SAE 100 R16 - EN 857 2SC / HARD-X 80-EXHR16-04 to 80-EXHR16-32  
 SAE 100 R17 / 80-EXR17-04 to 80-EXR17-16  
 JACK HOSE / 80-EXHJ-04 & 80-EXHJ-06  
 SAE 100 R12 - EN856 R12 / 80-EXR12-06 to 80-EXR12-32

### BSP FLAT SEAT FEMALE SWIVEL



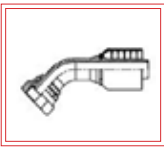
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BFFX-0606	06	3/8"	06	3/8"-19	22	-	19.0	-
81-EB-BFFX-0608	06	3/8"	08	1/2"-14	27	-	20.2	-
81-EB-BFFX-0808	08	1/2"	08	1/2"-14	27	-	20.9	-
81-EB-BFFX-0812	08	1/2"	12	3/4"-14	32	-	24.5	-
81-EB-BFFX-1212	12	3/4"	12	3/4"-14	32	-	18.2	-

### BSPP FEMALE SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BPFX-0402	04	1/4"	02	1/8"-28	14	-	15.3	-
81-EB-BPFX-0404	04	1/4"	04	1/4"-19	19	-	23.7	-
81-EB-BPFX-0406	04	1/4"	06	3/8"-19	22	-	27.6	-
81-EB-BPFX-0604	06	3/8"	04	1/4"-19	19	-	17.3	-
81-EB-BPFX-0606	06	3/8"	06	3/8"-19	22	-	27.8	-
81-EB-BPFX-0608	06	3/8"	08	1/2"-14	27	-	30.4	-
81-EB-BPFX-0806	08	1/2"	06	3/8"-19	22	-	18.6	-
81-EB-BPFX-0808	08	1/2"	08	1/2"-14	27	-	31.0	-
81-EB-BPFX-0810	08	1/2"	10	5/8"-14	27	-	37.6	-
81-EB-BPFX-0812	08	1/2"	12	3/4"-14	32	-	29.0	-
81-EB-BPFX-1010	10	5/8"	10	5/8"-14	27	-	28.5	-
81-EB-BPFX-1012	10	5/8"	12	3/4"-14	32	-	37.8	-
81-EB-BPFX-1212	12	3/4"	12	3/4"-14	32	-	29.7	-
81-EB-BPFX-1216	12	3/4"	16	1"-11	38	-	32.2	-
81-EB-BPFX-1616	16	1"	16	1"-11	38	-	34.4	-
81-EB-BPFX-2020	20	1-1/4"	20	1-1/4"-11	50	-	42.8	-
81-EB-BPFX-2424	24	1-1/2"	24	1-1/2"-11	55	-	45.8	-
81-EB-BPFX-3232	32	2"	32	2"-11	70	-	50.2	-

### BSPP FEMALE 45DEG SWIVEL

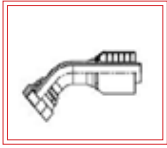


PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BPFX45-0404	04	1/4"	04	1/4"-19	19	-	46.0	15.0
81-EB-BPFX45-0406	04	1/4"	06	3/8"-19	22	-	43.8	19.4
81-EB-BPFX45-0606	06	3/8"	06	3/8"-19	22	-	50.0	20.6
81-EB-BPFX45-0608	06	3/8"	08	1/2"-14	27	-	44.2	19.4
81-EB-BPFX45-0808	08	1/2"	08	1/2"-14	27	-	55.1	21.1
81-EB-BPFX45-1010	10	5/8"	10	5/8"-14	27	-	64.0	21.6

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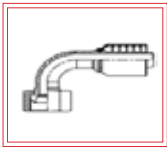
# HYDRAULIC ONE PIECE

## BSPP FEMALE 45DEG SWIVEL



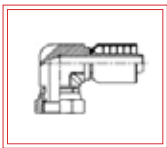
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BPFX45-1212	12	3/4"	12	3/4"-14	32	-	70.1	27.9
81-EB-BPFX45-1616	16	1"	16	1"-11	38	-	84.1	34.0
81-EB-BPFX45-2020	20	1-1/4"	20	1-1/4"-11	50	-	101.1	39.9
81-EB-BPFX45-2424	24	1-1/2"	24	1-1/2"-11	55	-	116.1	46.0
81-EB-BPFX45-3232	32	2"	32	2"-11	70	-	151.9	59.9

## BSPP FEMALE 90DEG SWIVEL



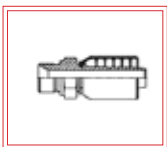
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BPFX90-0404	04	1/4"	04	1/4"-19	19	-	29.0	29.0
81-EB-BPFX90-0406	04	1/4"	06	3/8"-19	22	-	32.1	35.0
81-EB-BPFX90-0606	06	3/8"	06	3/8"-19	22	-	35.1	41.9
81-EB-BPFX90-0608	06	3/8"	08	1/2"-14	27	-	34.0	35.6
81-EB-BPFX90-0808	08	1/2"	08	1/2"-14	27	-	36.1	40.9
81-EB-BPFX90-1010	10	5/8"	10	5/8"-14	27	-	48.0	47.0
81-EB-BPFX90-1212	12	3/4"	12	3/4"-14	32	-	49.0	53.1
81-EB-BPFX90-1616	16	1"	16	1"-11	38	-	74.9	69.1
81-EB-BPFX90-2020	20	1-1/4"	20	1-1/4"-11	50	-	82.0	83.1
81-EB-BPFX90-2424	24	1-1/2"	24	1-1/2"-11	55	-	96.0	96.0
81-EB-BPFX90-3232	32	2"	32	2"-11	70	-	128.0	135.9

## BSPP FEMALE 90DEG SWIVEL COMPACT



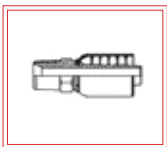
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BPFX90C-0404	04	1/4"	04	1/4"-19	19	-	21.0	18.0
81-EB-BPFX90C-0606	06	3/8"	06	3/8"-19	22	-	23.0	23.0
81-EB-BPFX90C-0808	08	1/2"	08	1/2"-14	27	-	29.0	27.0
81-EB-BPFX90C-1212	12	3/4"	12	3/4"-14	32	-	30.0	30.0
81-EB-BPFX90C-1616	16	1"	16	1"-11	38	-	32.0	32.0

## BSPP MALE



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BPM-0404	04	1/4"	04	1/4"-19	19	-	26.2	-
81-EB-BPM-0606	06	3/8"	06	3/8"-19	22	-	28.0	-
81-EB-BPM-0608	06	3/8"	08	1/2"-14	27	-	31.5	-
81-EB-BPM-0806	08	1/2"	06	3/8"-19	22	-	28.5	-
81-EB-BPM-0808	08	1/2"	08	1/2"-14	27	-	32.0	-
81-EB-BPM-1010	10	5/8"	10	5/8"-14	30	-	34.3	-
81-EB-BPM-1212	12	3/4"	12	3/4"-14	32	-	36.7	-
81-EB-BPM-1216	12	3/4"	16	1"-11	41	-	36.7	-
81-EB-BPM-1616	16	1"	16	1"-11	41	-	43.0	-
81-EB-BPM-2020	20	1-1/4"	20	1-1/4"-11	50	-	48.0	-
81-EB-BPM-2424	24	1-1/2"	24	1-1/2"-11	55	-	50.7	-
81-EB-BPM-3232	32	2"	32	2"-11	70	-	57.9	-

## BSPT MALE

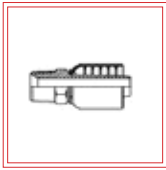


PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BTM-0402	04	1/4"	02	1/8"-28	19	-	22.3	-
81-EB-BTM-0404	04	1/4"	04	1/4"-19	17	-	27.0	-
81-EB-BTM-0406	04	1/4"	06	3/8"-19	19	-	27.7	-

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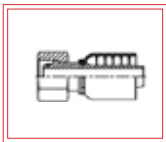
# HYDRAULIC ONE PIECE

## BSPT MALE



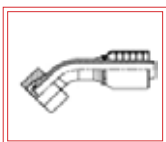
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-BTM-0604	06	3/8"	04	1/4"-19	19	-	26.3	-
81-EB-BTM-0606	06	3/8"	06	3/8"-19	19	-	27.9	-
81-EB-BTM-0608	06	3/8"	08	1/2"-14	22	-	32.5	-
81-EB-BTM-0806	08	1/2"	06	3/8"-19	22	-	29.5	-
81-EB-BTM-0808	08	1/2"	08	1/2"-14	22	-	33.1	-
81-EB-BTM-0812	08	1/2"	12	3/4"-14	27	-	33.5	-
81-EB-BTM-1212	12	3/4"	12	3/4"-14	27	-	34.6	-
81-EB-BTM-1216	12	3/4"	16	1"-11	36	-	41.5	-
81-EB-BTM-1616	16	1"	16	1"-11	36	-	43.9	-
81-EB-BTM-2020	20	1-1/4"	20	1-1/4"-11	50	-	45.0	-
81-EB-BTM-2424	24	1-1/2"	24	1-1/2"-11	55	-	48.0	-
81-EB-BTM-3232	32	2"	32	2"-11	70	-	53.5	-

## METRIC DIN 24DEG HEAVY FEMALE SWIVEL



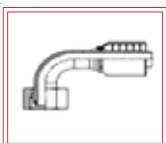
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DHFX-0416	04	1/4"	16	16x1.5	19	-	30.5	-
81-EB-DHFX-0418	04	1/4"	18	18x1.5	22	-	30.8	-
81-EB-DHFX-0616	06	3/8"	16	16x1.5	19	-	30.5	-
81-EB-DHFX-0618	06	3/8"	18	18x1.5	22	-	31.3	-
81-EB-DHFX-0620	06	3/8"	20	20x1.5	24	-	30.8	-
81-EB-DHFX-0622	06	3/8"	22	22x1.5	27	-	36.2	-
81-EB-DHFX-0820	08	1/2"	20	20x1.5	24	-	31.4	-
81-EB-DHFX-0822	08	1/2"	22	22x1.5	27	-	28.2	-
81-EB-DHFX-0824	08	1/2"	24	24x1.5	30	-	36.5	-
81-EB-DHFX-1030	10	5/8"	30	30x2.0	36	-	41.7	-
81-EB-DHFX-1230	12	3/4"	30	30x2.0	36	-	41.0	-
81-EB-DHFX-1236	12	3/4"	36	36x2.0	46	-	47.9	-
81-EB-DHFX-1642	16	1"	42	42x2.0	50	-	47.9	-
81-EB-DHFX-2042	20	1-1/4"	42	42x2.0	50	-	49.8	-
81-EB-DHFX-2052	20	1-1/4"	52	52x2.0	60	-	55.8	-

## METRIC DIN 24DEG HEAVY FEMALE 45DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DHFX45-0416	04	1/4"	16	16x1.5	19	-	49.0	16.0
81-EB-DHFX45-0418	04	1/4"	18	18x1.5	22	-	42.9	19.1
81-EB-DHFX45-0620	06	3/8"	20	20x1.5	24	-	51.1	20.1
81-EB-DHFX45-0622	06	3/8"	22	22x1.5	27	-	53.1	21.1
81-EB-DHFX45-0824	08	1/2"	24	24x1.5	30	-	55.9	21.6
81-EB-DHFX45-1030	10	5/8"	30	30x2.0	36	-	66.0	30.0
81-EB-DHFX45-1236	12	3/4"	36	36x2.0	46	-	69.1	33.0
81-EB-DHFX45-1642	16	1"	42	42x2.0	50	-	110.0	40.4
81-EB-DHFX45-2042	20	1-1/4"	42	42x2.0	50	-	94.9	38.7
81-EB-DHFX45-2052	20	1-1/4"	52	52x2.0	60	-	97.3	39.4

## METRIC DIN 24DEG HEAVY FEMALE 90DEG SWIVEL

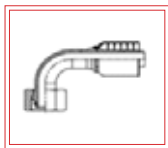


PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DHFX90-0416	04	1/4"	16	16x1.5	19	-	32.0	33.0
81-EB-DHFX90-0418	04	1/4"	18	18x1.5	22	-	26.9	34.0
81-EB-DHFX90-0618	06	3/8"	18	18x1.5	22	-	30.0	34.0
81-EB-DHFX90-0620	06	3/8"	20	20x1.5	24	-	34.0	38.6

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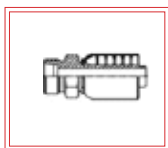
# HYDRAULIC ONE PIECE

## METRIC DIN 24DEG HEAVY FEMALE 90DEG SWIVEL



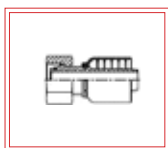
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DHFX90-0622	06	3/8"	22	22x1.5	27	-	34.0	40.4
81-EB-DHFX90-0824	08	1/2"	24	24x1.5	30	-	39.9	41.4
81-EB-DHFX90-1030	10	5/8"	30	30x2.0	36	-	50.0	55.1
81-EB-DHFX90-1236	12	3/4"	36	36x2.0	46	-	51.1	59.4
81-EB-DHFX90-1642	16	1"	42	42x2.0	50	-	75.9	79.0
81-EB-DHFX90-2042	20	1-1/4"	42	42x2.0	50	-	85.5	84.0
81-EB-DHFX90-2052	20	1-1/4"	52	52x2.0	60	-	94.0	91.9

## METRIC DIN 24DEG HEAVY MALE



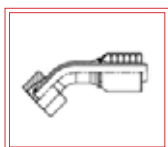
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DHM-0416	04	1/4"	16	16x1.5	17	-	24.2	-
81-EB-DHM-0418	04	1/4"	18	18x1.5	19	-	25.2	-
81-EB-DHM-0620	06	3/8"	20	20x1.5	22	-	25.4	-
81-EB-DHM-0622	06	3/8"	22	22x1.5	22	-	27.4	-
81-EB-DHM-0824	08	1/2"	24	24x1.5	24	-	29.0	-
81-EB-DHM-1030	10	5/8"	30	30x2.0	32	-	33.1	-
81-EB-DHM-1230	12	3/4"	30	30x2.0	32	-	33.7	-
81-EB-DHM-1236	12	3/4"	36	36x2.0	36	-	37.7	-
81-EB-DHM-1642	16	1"	42	42x2.0	46	-	42.1	-
81-EB-DHM-2042	20	1-1/4"	42	42x2.0	46	-	44.0	-
81-EB-DHM-2052	20	1-1/4"	52	52x2.0	55	-	47.8	-

## METRIC DIN 24DEG LIGHT FEMALE SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DLFX-0412	04	1/4"	12	12x1.5	14	-	27.2	-
81-EB-DLFX-0414	04	1/4"	14	14x1.5	17	-	25.9	-
81-EB-DLFX-0416	04	1/4"	16	16x1.5	19	-	27.4	-
81-EB-DLFX-0616	06	3/8"	16	16x1.5	19	-	56.2	-
81-EB-DLFX-0618	06	3/8"	18	18x1.5	22	-	27.5	-
81-EB-DLFX-0622	06	3/8"	22	22x1.5	27	-	30.0	-
81-EB-DLFX-0822	08	1/2"	22	22x1.5	27	-	30.7	-
81-EB-DLFX-0826	08	1/2"	26	26x1.5	32	-	31.5	-
81-EB-DLFX-1026	10	5/8"	26	26x1.5	32	-	31.5	-
81-EB-DLFX-1230	12	3/4"	30	30x2.0	36	-	36.0	-
81-EB-DLFX-1236	12	3/4"	36	36x2.0	41	-	37.0	-
81-EB-DLFX-1636	16	1"	36	36x2.0	41	-	37.9	-
81-EB-DLFX-1645	16	1"	45	45x2.0	50	-	39.2	-
81-EB-DLFX-2045	20	1-1/4"	45	45x2.0	50	-	44.1	-
81-EB-DLFX-2452	24	1-1/2"	52	52x2.0	60	-	44.1	-

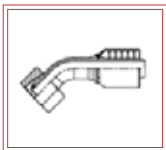
## METRIC DIN 24DEG LIGHT FEMALE 45DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DLFX45-0412	04	1/4"	12	12x1.5	14	-	40.4	17.6
81-EB-DLFX45-0414	04	1/4"	14	14x1.5	17	-	42.9	17.5
81-EB-DLFX45-0416	04	1/4"	16	16x1.5	19	-	41.9	20.1
81-EB-DLFX45-0616	06	3/8"	16	16x1.5	19	-	43.9	18.0

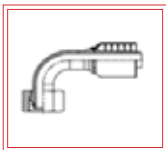
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## METRIC DIN 24DEG LIGHT FEMALE 45DEG SWIVEL



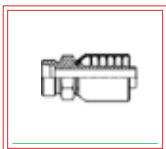
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DLFX45-0618	06	3/8"	18	18x1.5	22	-	47.0	19.6
81-EB-DLFX45-0822	08	1/2"	22	22x1.5	27	-	55.1	21.1
81-EB-DLFX45-1026	10	5/8"	26	26x1.5	32	-	65.0	23.9
81-EB-DLFX45-1230	12	3/4"	30	30x2.0	36	-	69.1	32.0
81-EB-DLFX45-1636	16	1"	36	36x2.0	41	-	90.9	32.0
81-EB-DLFX45-2045	20	1-1/4"	45	45x2.0	50	-	135.5	45.0
81-EB-DLFX45-2452	24	1-1/2"	52	52x2.0	60	-	114.0	47.0

## METRIC DIN 24DEG LIGHT FEMALE 90DEG SWIVEL



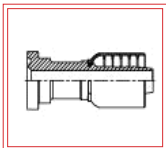
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DLFX90-0412	04	1/4"	12	12x1.5	14	-	29.0	25.9
81-EB-DLFX90-0414	04	1/4"	14	14x1.5	17	-	27.9	32.5
81-EB-DLFX90-0416	04	1/4"	16	16x1.5	19	-	27.9	32.5
81-EB-DLFX90-0616	06	3/8"	16	16x1.5	19	-	30.0	36.1
81-EB-DLFX90-0618	06	3/8"	18	18x1.5	22	-	33.0	39.1
81-EB-DLFX90-0822	08	1/2"	22	22x1.5	27	-	39.9	40.4
81-EB-DLFX90-1026	10	5/8"	26	26x1.5	32	-	51.1	48.0
81-EB-DLFX90-1226	12	3/4"	26	26x1.5	32	-	51.1	53.0
81-EB-DLFX90-1230	12	3/4"	30	30x2.0	36	-	52.1	58.9
81-EB-DLFX90-1636	16	1"	36	36x2.0	41	-	78.0	68.1
81-EB-DLFX90-2045	20	1-1/4"	45	45x2.0	50	-	89.9	88.9
81-EB-DLFX90-2452	24	1-1/2"	52	52x2.0	60	-	107.0	97.5

## METRIC DIN 24DEG LIGHT MALE



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-DLM-0412	04	1/4"	12	12x1.5	14	-	21.4	-
81-EB-DLM-0414	04	1/4"	14	14x1.5	14	-	21.4	-
81-EB-DLM-0416	04	1/4"	16	16x1.5	17	-	23.4	-
81-EB-DLM-0616	06	3/8"	16	16x1.5	17	-	23.6	-
81-EB-DLM-0618	06	3/8"	18	18x1.5	19	-	24.4	-
81-EB-DLM-0622	06	3/8"	22	22x1.5	22	-	25.4	-
81-EB-DLM-0822	08	1/2"	22	22x1.5	22	-	26.0	-
81-EB-DLM-0826	08	1/2"	26	26x1.5	23	-	27.1	-
81-EB-DLM-1026	10	5/8"	26	26x1.5	27	-	27.1	-
81-EB-DLM-1230	12	3/4"	30	30x2.0	32	-	31.5	-
81-EB-DLM-1636	16	1"	36	36x2.0	36	-	34.1	-
81-EB-DLM-1645	16	1"	45	45x2.0	46	-	38.1	-
81-EB-DLM-2045	20	1-1/4"	45	45x2.0	46	-	40.0	-
81-EB-DLM-2452	24	1-1/2"	52	52x2.0	55	-	42.0	-

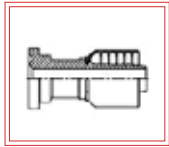
## CODE 62 FLANGE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH-1212	12	3/4"	12	3/4"	41.3	-	52.6	-
81-EB-FH-1616	16	1"	16	1"	47.6	-	56.4	-
81-EB-FH-1620	16	1"	20	1-1/4"	54.0	-	62.9	-

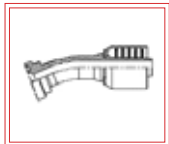
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## CODE 62 FLANGE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH-2020	20	1-1/4"	20	1-1/4"	54.0	-	83.1	-
81-EB-FH-2024	20	1-1/4"	24	1-1/2"	63.5	-	71.0	-
81-EB-FH-2424	24	1-1/2"	24	1-1/2"	63.5	-	95.0	-
81-EB-FH-2432	24	1-1/2"	32	2"	79.4	-	75.9	-
81-EB-FH-3232	32	2"	32	2"	79.4	-	75.9	-

## CODE 62 FLANGE 22DEG ELBOW



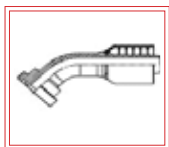
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH22-2020	20	1-1/4"	20	1-1/4"	54.0	-	120.0	17.5
81-EB-FH22-2024	20	1-1/4"	24	1-1/2"	63.5	-	128.0	20.5

## CODE 62 FLANGE 30DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH30-2020	20	1-1/4"	20	1-1/4"	54.0	-	117.1	24.4
81-EB-FH30-2024	20	1-1/4"	24	1-1/2"	63.5	-	124.5	28.5
81-EB-FH30-2424	24	1-1/2"	24	1-1/2"	63.5	-	132.6	27.4
81-EB-FH30-3232	32	2"	32	2"	79.4	-	168.9	36.6

## CODE 62 FLANGE 45DEG ELBOW



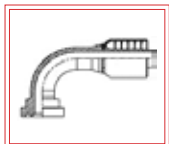
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH45-1212	12	3/4"	12	3/4"	41.3	-	84.1	31.0
81-EB-FH45-1616	16	1"	16	1"	47.6	-	97.0	36.1
81-EB-FH45-1620	16	1"	20	1-1/4"	54.0	-	96.0	39.1
81-EB-FH45-2020	20	1-1/4"	20	1-1/4"	54.0	-	109.0	40.0
81-EB-FH45-2024	20	1-1/4"	24	1-1/2"	63.5	-	115.1	45.5
81-EB-FH45-2424	24	1-1/2"	24	1-1/2"	63.5	-	122.9	45.0
81-EB-FH45-2432	24	1-1/2"	32	2"	79.4	-	133.1	57.4
81-EB-FH45-3232	32	2"	32	2"	79.4	-	157.0	59.9

## CODE 62 FLANGE 60DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH60-2020	20	1-1/4"	20	1-1/4"	54.0	-	133.6	58.9
81-EB-FH60-2024	20	1-1/4"	24	1-1/2"	63.5	-	139.5	63.0

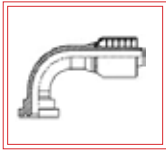
## CODE 62 FLANGE 90DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH90-0808	08	1/2"	08	1/2"	31.8	-	48.0	46.0
81-EB-FH90-1212	12	3/4"	12	3/4"	41.3	-	63.0	61.0
81-EB-FH90-1616	16	1"	16	1"	47.6	-	73.9	74.9

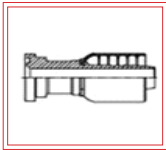
Continued on next page

## CODE 62 FLANGE 90DEG ELBOW



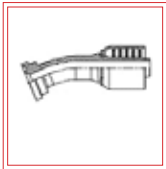
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FH90-1620	16	1"	20	1-1/4"	54.0	-	78.0	78.0
81-EB-FH90-2020	20	1-1/4"	20	1-1/4"	54.0	-	94.0	89.0
81-EB-FH90-2024	20	1-1/4"	24	1-1/2"	63.5	-	98.0	94.0
81-EB-FH90-2424	24	1-1/2"	24	1-1/2"	63.5	-	100.1	104.9
81-EB-FH90-2432	24	1-1/2"	32	2"	79.4	-	115.1	122.9
81-EB-FH90-3232	32	2"	32	2"	79.4	-	143.0	132.1

## CODE 61 FLANGE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL-0808	08	1/2"	08	1/2"	30.2	-	40.9	-
81-EB-FL-0812	08	1/2"	12	3/4"	38.1	-	41.9	-
81-EB-FL-1012	10	5/8"	12	3/4"	38.1	-	40.7	-
81-EB-FL-1212	12	3/4"	12	3/4"	38.1	-	42.4	-
81-EB-FL-1216	12	3/4"	16	1"	44.5	-	50.5	-
81-EB-FL-1616	16	1"	16	1"	44.5	-	51.3	-
81-EB-FL-1620	16	1"	20	1-1/4"	50.8	-	53.8	-
81-EB-FL-2020	20	1-1/4"	20	1-1/4"	50.8	-	55.6	-
81-EB-FL-2024	20	1-1/4"	24	1-1/2"	60.3	-	58.5	-
81-EB-FL-2424	24	1-1/2"	24	1-1/2"	60.3	-	58.7	-
81-EB-FL-2432	24	1-1/2"	32	2"	71.4	-	70.1	-
81-EB-FL-3224	32	2"	24	1-1/2"	60.3	-	71.0	-
81-EB-FL-3232	32	2"	32	2"	71.4	-	70.0	-
81-EB-FL-3240	32	2"	40	2-1/2"	84.1	-	73.0	-

## CODE 61 FLANGE 22DEG ELBOW



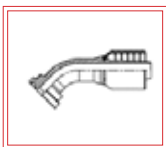
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL22-2020	20	1-1/4"	20	1-1/4"	50.8	-	114.0	16.0
81-EB-FL22-2024	20	1-1/4"	24	1-1/2"	60.3	-	115.1	20.6
81-EB-FL22-2424	24	1-1/2"	24	1-1/2"	60.3	-	131.1	16.5
81-EB-FL22-2432	24	1-1/2"	32	2"	71.4	-	131.0	16.5
81-EB-FL22-3232	32	2"	32	2"	71.4	-	152.9	22.1

## CODE 61 FLANGE 30DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL30-2020	20	1-1/4"	20	1-1/4"	50.8	-	102.1	24.9
81-EB-FL30-2024	20	1-1/4"	24	1-1/2"	60.3	-	112.0	26.9
81-EB-FL30-2424	24	1-1/2"	24	1-1/2"	60.3	-	135.9	23.1
81-EB-FL30-2432	24	1-1/2"	32	2"	71.4	-	150.1	36.6
81-EB-FL30-3232	32	2"	32	2"	71.4	-	149.1	30.0

## CODE 61 FLANGE 45DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL45-0808	08	1/2"	08	1/2"	30.2	-	53.1	22.1
81-EB-FL45-0812	08	1/2"	12	3/4"	38.1	-	59.9	25.9
81-EB-FL45-1212	12	3/4"	12	3/4"	38.1	-	73.9	32.0
81-EB-FL45-1216	12	3/4"	16	1"	44.5	-	78.0	29.0
81-EB-FL45-1616	16	1"	16	1"	44.5	-	83.1	33.5

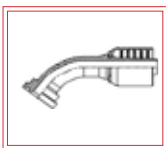
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## CODE 61 FLANGE 45DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL45-1620	16	1"	20	1-1/4"	50.8	-	82.0	36.1
81-EB-FL45-2020	20	1-1/4"	20	1-1/4"	50.8	-	95.0	37.6
81-EB-FL45-2024	20	1-1/4"	24	1-1/2"	60.3	-	103.9	39.9
81-EB-FL45-2424	24	1-1/2"	24	1-1/2"	60.3	-	117.1	48.0
81-EB-FL45-2432	24	1-1/2"	32	2"	71.4	-	135.9	55.6
81-EB-FL45-3224	32	2"	24	1-1/2"	60.3	-	136.0	55.5
81-EB-FL45-3232	32	2"	32	2"	71.4	-	141.0	47.5
81-EB-FL45-3240	32	2"	40	2-1/2"	84.1	-	138.8	51.0

## CODE 61 FLANGE 60DEG ELBOW



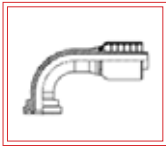
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL60-2020	20	1-1/4"	20	1-1/4"	50.8	-	129.5	56.4
81-EB-FL60-2024	20	1-1/4"	24	1-1/2"	60.3	-	134.9	58.0
81-EB-FL60-2424	24	1-1/2"	24	1-1/2"	60.3	-	134.9	57.9
81-EB-FL60-2432	24	1-1/2"	32	2"	71.4	-	165.6	77.5
81-EB-FL60-3232	32	2"	32	2"	71.4	-	173.0	91.9

## CODE 61 FLANGE 67DEG ELBOW



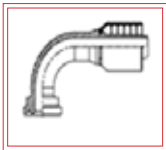
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL67-2020	20	1-1/4"	20	1-1/4"	50.8	-	119.9	62.5
81-EB-FL67-2024	20	1-1/4"	24	1-1/2"	60.3	-	121.4	65.5
81-EB-FL67-2424	24	1-1/2"	24	1-1/2"	60.3	-	135.4	65.5
81-EB-FL67-2432	24	1-1/2"	32	2"	71.4	-	141.0	87.9
81-EB-FL67-3232	32	2"	32	2"	71.4	-	179.1	95.5

## CODE 61 FLANGE 90DEG ELBOW



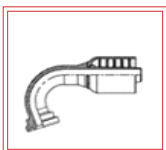
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL90-0808	08	1/2"	08	1/2"	30.2	-	46.0	41.9
81-EB-FL90-0812	08	1/2"	12	3/4"	38.1	-	45.0	51.1
81-EB-FL90-1212	12	3/4"	12	3/4"	38.1	-	57.9	59.9
81-EB-FL90-1216	12	3/4"	16	1"	44.5	-	66.0	64.5
81-EB-FL90-1616	16	1"	16	1"	44.5	-	71.1	67.1
81-EB-FL90-1620	16	1"	20	1-1/4"	50.8	-	73.9	71.1
81-EB-FL90-2016	20	1-1/4"	16	1"	44.5	-	94.0	65.0
81-EB-FL90-2020	20	1-1/4"	20	1-1/4"	50.8	-	88.0	84.0
81-EB-FL90-2024	20	1-1/4"	24	1-1/2"	60.3	-	90.9	87.4
81-EB-FL90-2424	24	1-1/2"	24	1-1/2"	60.3	-	104.9	90.9
81-EB-FL90-2432	24	1-1/2"	32	2"	71.4	-	104.9	115.1
81-EB-FL90-3224	32	2"	24	1-1/2"	60.3	-	105.0	115.0
81-EB-FL90-3232	32	2"	32	2"	71.4	-	129.0	130.0
81-EB-FL90-3240	32	2"	40	2-1/2"	84.1	-	129.0	130.0

## CODE 61 FLANGE 90DEG LONG DROP



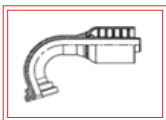
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL90L-2020-168	20	1-1/4"	20	1-1/4"	50.8	-	88.0	168.0
81-EB-FL90L-2024-130	20	1-1/4"	24	1-1/2"	60.3	-	90.9	130.0
81-EB-FL90L-2424-148	24	1-1/2"	24	1-1/2"	60.3	-	104.9	148.0
81-EB-FL90L-2432-148	24	1-1/2"	32	2"	71.4	-	104.9	148.0
81-EB-FL90L-2432-170	24	1-1/2"	32	2"	71.4	-	104.9	170.0
81-EB-FL90L-2432-230	24	1-1/2"	32	2"	71.4	-	104.9	230.0
81-EB-FL90L-3232-200	32	2"	32	2"	71.4	-	129.0	200.0

## CODE 61 FLANGE 110DEG ELBOW



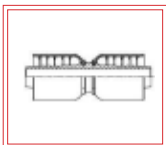
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL110-2020	20	1-1/4"	20	1-1/4"	50.8	-	89.4	95.0
81-EB-FL110-2024	20	1-1/4"	24	1-1/4"	50.8	-	87.6	100.0
81-EB-FL110-3232	32	2"	32	2"	71.4	-	134.0	137.0

## CODE 61 FLANGE 135DEG ELBOW



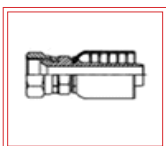
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-FL135-2424	24	1-1/2"	24	1-1/2"	60.3	-	80.2	124.6
81-EB-FL135-3232	32	2"	32	2"	71.4	-	103.9	158.9

## HOSE MENDER / JOINER



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-HM-0404	04	1/4"	04	1/4"	-	-	18.0	-
81-EB-HM-0606	06	3/8"	06	3/8"	-	-	27.9	-
81-EB-HM-0808	08	1/2"	08	1/2"	-	-	15.9	-

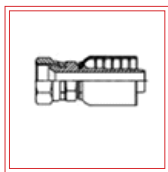
## JIC 37DEG FLARE FEMALE SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX-0403	04	1/4"	03	3/8"-24	14	12	28.1	-
81-EB-JCFX-0404	04	1/4"	04	7/16"-20	14.3	14	29.6	-
81-EB-JCFX-0405	04	1/4"	05	1/2"-20	17	14	31.4	-
81-EB-JCFX-0406	04	1/4"	06	9/16"-18	17.5	17	31.2	-
81-EB-JCFX-0408	04	1/4"	08	3/4"-16	25	19	24.8	-
81-EB-JCFX-0505	05	5/16"	05	1/2"-20	17	14	31.4	-
81-EB-JCFX-0506	05	5/16"	06	9/16"-18	19	17	31.2	-
81-EB-JCFX-0604	06	3/8"	04	7/16"-20	16	14	29.4	-
81-EB-JCFX-0606	06	3/8"	06	9/16"-18	17.5	17	31.1	-
81-EB-JCFX-0608	06	3/8"	08	3/4"-16	22.2	19	34.9	-
81-EB-JCFX-0610	06	3/8"	10	7/8"-14	27	27	38.8	-
81-EB-JCFX-0612	06	3/8"	12	1-1/16"-12	32	27	41.6	-
81-EB-JCFX-0806	08	1/2"	06	9/16"-18	19	17	32.8	-
81-EB-JCFX-0808	08	1/2"	08	3/4"-16	22.2	19	36.7	-
81-EB-JCFX-0810	08	1/2"	10	7/8"-14	27	27	39.6	-
81-EB-JCFX-0812	08	1/2"	12	1-1/16"-12	32	27	42.6	-
81-EB-JCFX-0816	08	1/2"	16	1-5/16"-12	38	32	46.5	-
81-EB-JCFX-1008	10	5/8"	08	3/4"-16	25	19	38.7	-
81-EB-JCFX-1010	10	5/8"	10	7/8"-14	27	27	42.4	-

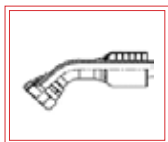
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## JIC 37DEG FLARE FEMALE SWIVEL



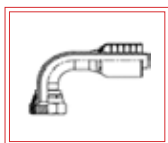
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX-1012	10	5/8"	12	1-1/16"-12	32	27	42.6	-
81-EB-JCFX-1210	12	3/4"	10	7/8"-14	27	27	41.4	-
81-EB-JCFX-1212	12	3/4"	12	1-1/16"-12	32	27	44.2	-
81-EB-JCFX-1214	12	3/4"	14	1-3/16"-12	36	32	44.6	-
81-EB-JCFX-1216	12	3/4"	16	1-5/16"-12	38	32	48.1	-
81-EB-JCFX-1612	16	1"	12	1-1/16"-12	32	27	47.7	-
81-EB-JCFX-1616	16	1"	16	1-5/16"-12	38	32	49.8	-
81-EB-JCFX-1620	16	1"	20	1-5/8"-12	50	41	52.5	-
81-EB-JCFX-2020	20	1-1/4"	20	1-5/8"-12	50	41	54.6	-
81-EB-JCFX-2024	20	1-1/4"	24	1-7/8"-12	55	50	62.1	-
81-EB-JCFX-2424	24	1-1/2"	24	1-7/8"-12	55	50	61.4	-
81-EB-JCFX-3232	32	2"	32	2-1/2"-12	70	70	73.1	-

## JIC 37DEG FLARE FEMALE 45DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX45-0404	04	1/4"	04	7/16"-20	14.3	-	37.0	10.0
81-EB-JCFX45-0405	04	1/4"	05	1/2"-20	17	-	37.0	12.0
81-EB-JCFX45-0406	04	1/4"	06	9/16"-18	17.5	-	39.0	11.0
81-EB-JCFX45-0606	06	3/8"	06	9/16"-18	17.5	-	46.0	11.0
81-EB-JCFX45-0608	06	3/8"	08	3/4"-16	22.2	-	47.0	15.0
81-EB-JCFX45-0808	08	1/2"	08	3/4"-16	22.2	-	52.0	15.0
81-EB-JCFX45-0810	08	1/2"	10	7/8"-14	27	-	51.0	16.0
81-EB-JCFX45-0812	08	1/2"	12	1-1/16"-12	32	-	51.4	22.9
81-EB-JCFX45-1010	10	5/8"	10	7/8"-14	27	-	65.0	22.0
81-EB-JCFX45-1012	10	5/8"	12	1-1/16"-12	32	-	69.0	21.0
81-EB-JCFX45-1212	12	3/4"	12	1-1/16"-12	32	-	67.0	21.0
81-EB-JCFX45-1216	12	3/4"	16	1-5/16"-12	38	-	71.0	26.0
81-EB-JCFX45-1612	16	1"	12	1-1/16"-12	32	-	70.0	30.0
81-EB-JCFX45-1616	16	1"	16	1-5/16"-12	38	-	79.0	24.0
81-EB-JCFX45-2020	20	1-1/4"	20	1-5/8"-12	50	-	97.0	37.0
81-EB-JCFX45-2424	24	1-1/2"	24	1-7/8"-12	55	-	113.0	43.0
81-EB-JCFX45-3232	32	2"	32	2-1/2"-12	70	-	143.7	56.0

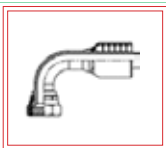
## JIC 37DEG FLARE FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX90-0404	04	1/4"	04	7/16"-20	14.3	-	34.0	32.0
81-EB-JCFX90-0405	04	1/4"	05	1/2"-20	17	-	26.0	30.0
81-EB-JCFX90-0406	04	1/4"	06	9/16"-18	17.5	-	28.0	38.0
81-EB-JCFX90-0604	06	3/8"	04	7/16"-20	16	-	35.0	32.0
81-EB-JCFX90-0606	06	3/8"	06	9/16"-18	17.5	-	31.0	35.0
81-EB-JCFX90-0608	06	3/8"	08	3/4"-16	22.2	-	39.0	41.0
81-EB-JCFX90-0808	08	1/2"	08	3/4"-16	22.2	-	37.0	40.0
81-EB-JCFX90-0810	08	1/2"	10	7/8"-14	27	-	43.0	47.0
81-EB-JCFX90-0812	08	1/2"	12	1-1/16"-12	32	-	37.0	46.0
81-EB-JCFX90-1010	10	5/8"	10	7/8"-14	27	-	49.0	48.0
81-EB-JCFX90-1012	10	5/8"	12	1-1/16"-12	32	-	48.0	58.0
81-EB-JCFX90-1210	12	3/4"	10	7/8"-14	27	-	50.0	48.0
81-EB-JCFX90-1212	12	3/4"	12	1-1/16"-12	32	-	52.0	54.0
81-EB-JCFX90-1216	12	3/4"	16	1-5/16"-12	38	-	53.0	72.0
81-EB-JCFX90-1616	16	1"	16	1-5/16"-12	38	-	73.4	71.4

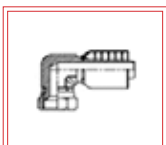
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## JIC 37DEG FLARE FEMALE 90DEG SWIVEL



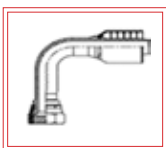
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX90-2020	20	1-1/4"	20	1-5/8"-12	50	-	82.0	78.0
81-EB-JCFX90-2024	20	1-1/4"	24	1-7/8"-12	55	-	86.1	100.0
81-EB-JCFX90-2424	24	1-1/2"	24	1-7/8"-12	55	-	86.1	100.0
81-EB-JCFX90-3232	32	2"	32	2-1/2"-12	70	-	129.0	140.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL COMPACT



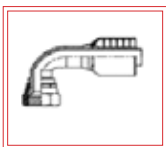
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX90C-0404	04	1/4"	04	7/16"-20	14.3	-	18.0	29.0
81-EB-JCFX90C-0406	04	1/4"	06	9/16"-18	17.5	-	23.0	23.0
81-EB-JCFX90C-0606	06	3/8"	06	9/16"-18	17.5	-	22.1	28.7
81-EB-JCFX90C-0608	06	3/8"	08	3/4"-16	22.2	-	29.0	27.0
81-EB-JCFX90C-0808	08	1/2"	08	3/4"-16	22.2	-	27.9	42.2
81-EB-JCFX90C-0810	08	1/2"	10	7/8"-14	27	-	29.0	28.0
81-EB-JCFX90C-1010	10	5/8"	10	7/8"-14	27	-	29.0	28.0
81-EB-JCFX90C-1212	12	3/4"	12	1-1/16"-12	32	-	30.0	30.0
81-EB-JCFX90C-1616	16	1"	16	1-5/16"-12	38	-	32.0	32.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL LONG DROP



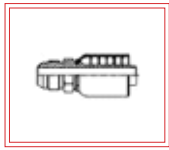
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX90L-0404	04	1/4"	04	7/16"-20	14.3	-	31.8	46.0
81-EB-JCFX90L-0405	04	1/4"	05	1/2"-20	17	-	26.0	45.0
81-EB-JCFX90L-0406	04	1/4"	06	9/16"-18	17.5	-	34.0	54.0
81-EB-JCFX90L-0604	06	3/8"	04	7/16"-20	16	-	31.0	46.0
81-EB-JCFX90L-0606	06	3/8"	06	9/16"-18	17.5	-	43.0	54.0
81-EB-JCFX90L-0608	06	3/8"	08	3/4"-16	22.2	-	47.0	64.0
81-EB-JCFX90L-0808	08	1/2"	08	3/4"-16	22.2	-	50.0	64.0
81-EB-JCFX90L-0810	08	1/2"	10	7/8"-14	27	-	37.0	65.0
81-EB-JCFX90L-1010	10	5/8"	10	7/8"-14	27	-	50.0	65.0
81-EB-JCFX90L-1212	12	3/4"	12	1-1/16"-12	32	-	54.0	95.0
81-EB-JCFX90L-1616	16	1"	16	1-5/16"-12	38	-	79.0	114.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL SHORT DROP



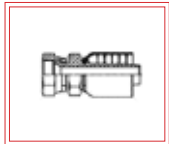
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCFX90S-0404	04	1/4"	04	7/16"-20	14.3	-	27.0	21.0
81-EB-JCFX90S-0405	04	1/4"	05	1/2"-20	17	-	26.0	23.5
81-EB-JCFX90S-0406	04	1/4"	06	9/16"-18	17.5	-	31.0	23.0
81-EB-JCFX90S-0604	06	3/8"	04	7/16"-20	16	-	28.0	21.0
81-EB-JCFX90S-0606	06	3/8"	06	9/16"-18	17.5	-	42.0	23.0
81-EB-JCFX90S-0608	06	3/8"	08	3/4"-16	22.2	-	49.0	29.0
81-EB-JCFX90S-0808	08	1/2"	08	3/4"-16	22.2	-	46.0	29.0
81-EB-JCFX90S-0810	08	1/2"	10	7/8"-14	27	-	46.0	32.0
81-EB-JCFX90S-1010	10	5/8"	10	7/8"-14	27	-	49.0	32.0
81-EB-JCFX90S-1012	10	5/8"	12	1-1/16"-12	32	-	48.0	48.0
81-EB-JCFX90S-1208	12	3/4"	08	3/4"-16	25	-	42.0	29.0
81-EB-JCFX90S-1212	12	3/4"	12	1-1/16"-12	32	-	58.0	46.0
81-EB-JCFX90S-1214	12	3/4"	14	1-3/16"-12	36	-	49.0	52.6
81-EB-JCFX90S-1216	12	3/4"	16	1-5/16"-12	38	-	50.5	57.8
81-EB-JCFX90S-1616	16	1"	16	1-5/16"-12	38	-	74.0	56.0

## JIC 37DEG FLARE MALE



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JCM-0404	04	1/4"	04	7/16"-20	12	-	25.2	-
81-EB-JCM-0405	04	1/4"	05	1/2"-20	14	-	26.2	-
81-EB-JCM-0406	04	1/4"	06	9/16"-18	17	-	26.4	-
81-EB-JCM-0408	04	1/4"	08	3/4"-16	19	-	29.8	-
81-EB-JCM-0506	05	5/16"	06	9/16"-18	17	-	26.5	-
81-EB-JCM-0606	06	3/8"	06	9/16"-18	17	-	26.6	-
81-EB-JCM-0608	06	3/8"	08	3/4"-16	19	-	28.9	-
81-EB-JCM-0610	06	3/8"	10	7/8"-14	24	-	33.8	-
81-EB-JCM-0808	08	1/2"	08	3/4"-16	19	-	29.8	-
81-EB-JCM-0810	08	1/2"	10	7/8"-14	24	-	34.4	-
81-EB-JCM-0812	08	1/2"	12	1-1/16"-12	27	-	37.1	-
81-EB-JCM-1008	10	5/8"	08	3/4"-16	19	-	30.8	-
81-EB-JCM-1010	10	5/8"	10	7/8"-14	24	-	35.0	-
81-EB-JCM-1012	10	5/8"	12	1-1/16"-12	27	-	37.1	-
81-EB-JCM-1210	12	3/4"	10	7/8"-14	27	-	35.0	-
81-EB-JCM-1212	12	3/4"	12	1-1/16"-12	27	-	37.7	-
81-EB-JCM-1214	12	3/4"	14	1-3/16"-12	32	-	41.0	-
81-EB-JCM-1216	12	3/4"	16	1-5/16"-12	36	-	42.2	-
81-EB-JCM-1616	16	1"	16	1-5/16"-12	36	-	42.4	-
81-EB-JCM-1620	16	1"	20	1-5/8"-12	46	-	46.8	-
81-EB-JCM-2020	20	1-1/4"	20	1-5/8"-12	46	-	48.5	-
81-EB-JCM-2024	20	1-1/4"	24	1-7/8"-12	50	-	52.8	-
81-EB-JCM-2424	24	1-1/2"	24	1-7/8"-12	50	-	52.7	-
81-EB-JCM-3232	32	2"	32	2-1/2"-12	65	-	62.1	-

## JIS 30DEG FEMALE SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-JSFX-0404	04	1/4"	04	1/4"-19	19	17	30.9	-
81-EB-JSFX-0606	06	3/8"	06	3/8"-19	22	19	32.1	-
81-EB-JSFX-0808	08	1/2"	08	1/2"-14	27	22	35.2	-
81-EB-JSFX-1012	10	5/8"	12	3/4"-14	36	30	39.7	-
81-EB-JSFX-1212	12	3/4"	12	3/4"-14	36	30	40.2	-
81-EB-JSFX-1616	16	1"	16	1"-11	41	36	47.5	-
81-EB-JSFX-2020	20	1-1/4"	20	1-1/4"-11	50	46	54.9	-

## KOMATSU FLANGE



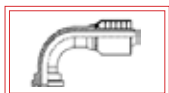
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-KF-0810	08	1/2"	10	5/8"	34.0	-	46.6	-
81-EB-KF-1010	10	5/8"	10	5/8"	34.0	-	46.8	-

## KOMATSU FLANGE 45DEG ELBOW



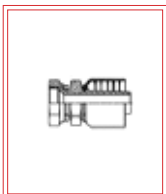
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-KF45-1010	10	5/8"	10	5/8"	34.0	-	58.9	24.9

## KOMATSU FLANGE 90DEG ELBOW



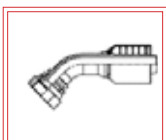
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-KF90-1010	10	5/8"	10	5/8"	34.0	-	50.0	51.1

## JAPANESE KOMATSU 30DEG FLARE FEMALE SWIVEL



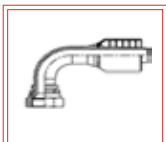
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-KMFX-0414	04	1/4"	14	14x1.5	19	17	30.9	-
81-EB-KMFX-0416	04	1/4"	16	16x1.5	22	17	31.9	-
81-EB-KMFX-0616	06	3/8"	16	16x1.5	22	17	32.9	-
81-EB-KMFX-0618	06	3/8"	18	18x1.5	22	19	32.1	-
81-EB-KMFX-0620	06	3/8"	20	20x1.5	27	22	34.9	-
81-EB-KMFX-0622	06	3/8"	22	22x1.5	27	22	22.8	-
81-EB-KMFX-0822	08	1/2"	22	22x1.5	27	22	35.2	-
81-EB-KMFX-0824	08	1/2"	24	24x1.5	32	30	27.1	-
81-EB-KMFX-1024	10	5/8"	24	24x1.5	32	30	42.2	-
81-EB-KMFX-1230	12	3/4"	30	30x1.5	36	30	46.7	-
81-EB-KMFX-1633	16	1"	33	33x1.5	41	36	56.9	-
81-EB-KMFX-2036	20	1-1/4"	36	36x1.5	46	46	63.6	-
81-EB-KMFX-2442	24	1-1/2"	42	42x1.5	55	55	66.9	-

## JAPANESE KOMATSU 30DEG FLARE FEMALE 45DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-KMFX45-0414	04	1/4"	14	14x1.5	19	-	38.1	15.5
81-EB-KMFX45-0618	06	3/8"	18	18x1.5	22	-	43.9	18.0
81-EB-KMFX45-0822	08	1/2"	22	22x1.5	27	-	55.9	29.5
81-EB-KMFX45-1024	10	5/8"	24	24x1.5	32	-	57.7	33.5
81-EB-KMFX45-1230	12	3/4"	30	30x1.5	36	-	79.0	42.4
81-EB-KMFX45-1633	16	1"	33	33x1.5	41	-	119.1	64.0

## JAPANESE KOMATSU 30DEG FLARE FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-KMFX90-0414	04	1/4"	14	14x1.5	19	-	33.0	29.5
81-EB-KMFX90-0822	08	1/2"	22	22x1.5	27	-	44.1	53.1
81-EB-KMFX90-1024	10	5/8"	24	24x1.5	32	-	50.0	62.0
81-EB-KMFX90-1230	12	3/4"	30	30x1.5	36	-	52.1	75.9
81-EB-KMFX90-1633	16	1"	33	33x1.5	41	-	79.0	114.0

## LIFE SAVER / WELD-ON



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-LS-1212	12	3/4"	12	3/4"	-	-	18.0	-

## NPTF MALE

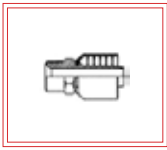


PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-NPM-0402	04	1/4"	02	1/8"-27	14	-	21.2	-
81-EB-NPM-0404	04	1/4"	04	1/4"-18	17	-	27.0	-
81-EB-NPM-0406	04	1/4"	06	3/8"-18	19	-	27.7	-
81-EB-NPM-0408	04	1/4"	08	1/2"-14	22	-	32.2	-
81-EB-NPM-0604	06	3/8"	04	1/4"-18	17	-	27.2	-

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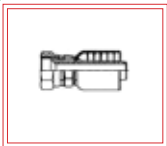
# HYDRAULIC ONE PIECE

## NPTF MALE



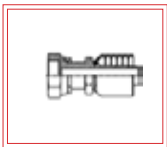
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-NPM-0606	06	3/8"	06	3/8"-18	19	-	27.9	-
81-EB-NPM-0608	06	3/8"	08	1/2"-14	22	-	32.4	-
81-EB-NPM-0806	08	1/2"	06	3/8"-18	19	-	28.4	-
81-EB-NPM-0808	08	1/2"	08	1/2"-14	22	-	33.0	-
81-EB-NPM-0812	08	1/2"	12	3/4"-14	27	-	34.1	-
81-EB-NPM-1008	10	5/8"	08	1/2"-14	22	-	33.3	-
81-EB-NPM-1012	10	5/8"	12	3/4"-14	27	-	34.4	-
81-EB-NPM-1208	12	3/4"	08	1/2"-14	22	-	33.5	-
81-EB-NPM-1212	12	3/4"	12	3/4"-14	27	-	34.6	-
81-EB-NPM-1216	12	3/4"	16	1"-11 1/2	36	-	43.7	-
81-EB-NPM-1612	16	1"	12	3/4"-14	27	-	39.5	-
81-EB-NPM-1616	16	1"	16	1"-11 1/2	36	-	43.9	-
81-EB-NPM-1620	16	1"	20	1-1/4"-11 1/2	46	-	47.8	-
81-EB-NPM-2020	20	1-1/4"	20	1-1/4"-11 1/2	46	-	49.5	-
81-EB-NPM-2024	20	1-1/4"	24	1-1/2"-11 1/2	50	-	51.0	-
81-EB-NPM-2424	24	1-1/2"	24	1-1/2"-11 1/2	50	-	51.0	-
81-EB-NPM-3232	32	2"	32	2"-11 1/2	65	-	54.5	-

## NPSM FEMALE SWIVEL



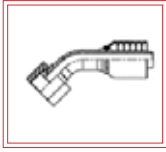
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-NSFX-0404	04	1/4"	04	1/4"-18	19	17	30.2	-
81-EB-NSFX-0606	06	3/8"	06	3/8"-18	22	19	31.4	-
81-EB-NSFX-0808	08	1/2"	08	1/2"-14	27	22	34.3	-
81-EB-NSFX-1212	12	3/4"	12	3/4"-14	32	30	37.0	-
81-EB-NSFX-1616	16	1"	16	1"-11 1/2	38	36	44.7	-

## ORFS FEMALE SWIVEL



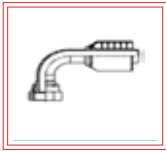
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-OFFX-0404	04	1/4"	04	9/16"-18	17	14	27.3	-
81-EB-OFFX-0406	04	1/4"	06	11/16"-16	22	17	30.1	-
81-EB-OFFX-0408	04	1/4"	08	13/16"-16	24	22	35.4	-
81-EB-OFFX-0604	06	3/8"	04	9/16"-18	17	17	28.4	-
81-EB-OFFX-0606	06	3/8"	06	11/16"-16	22	17	30.3	-
81-EB-OFFX-0608	06	3/8"	08	13/16"-16	24	22	35.6	-
81-EB-OFFX-0806	08	1/2"	06	11/16"-16	22	19	32.0	-
81-EB-OFFX-0808	08	1/2"	08	13/16"-16	24	22	36.1	-
81-EB-OFFX-0810	08	1/2"	10	1"-14	30	24	39.5	-
81-EB-OFFX-0812	08	1/2"	12	1-3/16"-12	36	30	42.1	-
81-EB-OFFX-1010	10	5/8"	10	1"-14	30	24	39.6	-
81-EB-OFFX-1012	10	5/8"	12	1-3/16"-12	36	30	42.1	-
81-EB-OFFX-1210	12	3/4"	10	1"-14	30	24	40.1	-
81-EB-OFFX-1212	12	3/4"	12	1-3/16"-12	36	30	42.3	-
81-EB-OFFX-1216	12	3/4"	16	1-7/16"-12	41	36	48.6	-
81-EB-OFFX-1612	16	1"	12	1-3/16"-12	36	30	45.3	-
81-EB-OFFX-1616	16	1"	16	1-7/16"-12	41	36	49.4	-
81-EB-OFFX-1620	16	1"	20	1-11/16"-12	50	41	50.3	-
81-EB-OFFX-2020	20	1-1/4"	20	1-11/16"-12	50	41	52.9	-
81-EB-OFFX-2024	20	1-1/4"	24	2"-12	60	50	56.5	-
81-EB-OFFX-2424	24	1-1/2"	24	2"-12	60	50	56.7	-

## ORFS FEMALE 45DEG SWIVEL



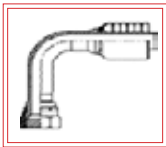
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-OFFX45-0404	04	1/4"	04	9/16"-18	17	-	41.0	10.9
81-EB-OFFX45-0406	04	1/4"	06	11/16"-16	22	-	46.0	10.9
81-EB-OFFX45-0606	06	3/8"	06	11/16"-16	22	-	47.0	11.9
81-EB-OFFX45-0608	06	3/8"	08	13/16"-16	24	-	51.0	15.0
81-EB-OFFX45-0808	08	1/2"	08	13/16"-16	24	-	47.0	16.0
81-EB-OFFX45-0810	08	1/2"	10	1"-14	30	-	50.0	16.5
81-EB-OFFX45-1010	10	5/8"	10	1"-14	30	-	58.0	17.0
81-EB-OFFX45-1012	10	5/8"	12	1-3/16"-12	36	-	63.0	21.1
81-EB-OFFX45-1210	12	3/4"	10	1"-14	30	-	53.1	20.1
81-EB-OFFX45-1212	12	3/4"	12	1-3/16"-12	36	-	63.0	21.0
81-EB-OFFX45-1216	12	3/4"	16	1-7/16"-12	41	-	71.1	23.9
81-EB-OFFX45-1616	16	1"	16	1-7/16"-12	41	-	81.9	26.0
81-EB-OFFX45-2020	20	1-1/4"	20	1-11/16"-12	50	-	97.0	25.9
81-EB-OFFX45-2024	20	1-1/4"	24	2"-12	60	-	101.1	27.9
81-EB-OFFX45-2424	24	1-1/2"	24	2"-12	60	-	104.9	27.9

## ORFS FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-OFFX90-0404	04	1/4"	04	9/16"-18	17	-	30.0	32.0
81-EB-OFFX90-0406	04	1/4"	06	11/16"-16	22	-	37.0	38.0
81-EB-OFFX90-0606	06	3/8"	06	11/16"-16	22	-	42.0	38.0
81-EB-OFFX90-0608	06	3/8"	08	13/16"-16	24	-	44.0	41.0
81-EB-OFFX90-0808	08	1/2"	08	13/16"-16	24	-	35.0	42.0
81-EB-OFFX90-0810	08	1/2"	10	1"-14	30	-	48.0	47.0
81-EB-OFFX90-1010	10	5/8"	10	1"-14	30	-	55.0	44.0
81-EB-OFFX90-1012	10	5/8"	12	1-3/16"-12	36	-	55.0	44.0
81-EB-OFFX90-1212	12	3/4"	12	1-3/16"-12	36	-	62.0	58.0
81-EB-OFFX90-1616	16	1"	16	1-7/16"-12	41	-	83.0	66.0
81-EB-OFFX90-1620	16	1"	20	1-11/16"-12	50	-	83.0	78.0
81-EB-OFFX90-2020	20	1-1/4"	20	1-11/16"-12	50	-	97.0	78.0
81-EB-OFFX90-2024	20	1-1/4"	24	2"-12	60	-	85.9	76.0
81-EB-OFFX90-2424	24	1-1/2"	24	2"-12	60	-	108.0	87.1

## ORFS FEMALE 90DEG SWIVEL LONG DROP



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-OFFX90L-0404	04	1/4"	04	9/16"-18	17	-	33.0	46.0
81-EB-OFFX90L-0406	04	1/4"	06	11/16"-16	22	-	35.0	54.0
81-EB-OFFX90L-0606	06	3/8"	06	11/16"-16	22	-	42.0	54.0
81-EB-OFFX90L-0608	06	3/8"	08	13/16"-16	24	-	47.0	64.0
81-EB-OFFX90L-0808	08	1/2"	08	13/16"-16	24	-	38.0	64.0
81-EB-OFFX90L-0810	08	1/2"	10	1"-14	30	-	46.0	70.1
81-EB-OFFX90L-1010	10	5/8"	10	1"-14	30	-	55.0	70.2
81-EB-OFFX90L-1212	12	3/4"	12	1-3/16"-12	36	-	62.0	96.0
81-EB-OFFX90L-1616	16	1"	16	1-7/16"-12	41	-	83.0	114.0
81-EB-OFFX90L-2020	20	1-1/4"	20	1-11/16"-12	50	-	97.0	129.0
81-EB-OFFX90L-2024	20	1-1/4"	24	2"-12	60	-	102.1	141.0
81-EB-OFFX90L-2424	24	1-1/2"	24	2"-12	60	-	111.0	141.0

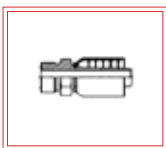
# HYDRAULIC ONE PIECE

## ORFS FEMALE 90DEG SWIVEL SHORT DROP



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-OFFX90S-0404	04	1/4"	04	9/16"-18	17	-	28.0	21.0
81-EB-OFFX90S-0406	04	1/4"	06	11/16"-16	22	-	32.0	23.0
81-EB-OFFX90S-0604	06	3/8"	04	9/16"-18	17	-	28.0	21.0
81-EB-OFFX90S-0606	06	3/8"	06	11/16"-16	22	-	42.0	25.0
81-EB-OFFX90S-0608	06	3/8"	08	13/16"-16	24	-	42.0	29.0
81-EB-OFFX90S-0806	08	1/2"	06	11/16"-16	22	-	42.0	25.0
81-EB-OFFX90S-0808	08	1/2"	08	13/16"-16	24	-	40.0	29.0
81-EB-OFFX90S-0810	08	1/2"	10	1"-14	30	-	46.0	32.5
81-EB-OFFX90S-0812	08	1/2"	12	1-3/16"-12	36	-	55.6	51.1
81-EB-OFFX90S-1010	10	5/8"	10	1"-14	30	-	52.0	32.5
81-EB-OFFX90S-1012	10	5/8"	12	1-3/16"-12	36	-	55.1	49.0
81-EB-OFFX90S-1210	12	3/4"	10	1"-14	30	-	44.5	39.1
81-EB-OFFX90S-1212	12	3/4"	12	1-3/16"-12	36	-	61.0	51.0
81-EB-OFFX90S-1216	12	3/4"	16	1-7/16"-12	41	-	66.0	71.1
81-EB-OFFX90S-1612	16	1"	12	1-3/16"-12	36	-	61.7	51.0
81-EB-OFFX90S-1616	16	1"	16	1-7/16"-12	41	-	83.0	58.0
81-EB-OFFX90S-1620	16	1"	20	1-11/16"-12	50	-	83.0	64.0
81-EB-OFFX90S-2020	20	1-1/4"	20	1-11/16"-12	50	-	95.0	68.1
81-EB-OFFX90S-2024	20	1-1/4"	24	2"-12	60	-	102.1	69.1
81-EB-OFFX90S-2424	24	1-1/2"	24	2"-12	60	-	102.1	78.0

## ORFS MALE



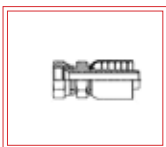
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-OFM-0404	04	1/4"	04	9/16"-18	17	-	25.4	-
81-EB-OFM-0406	04	1/4"	06	11/16"-16	19	-	24.3	-
81-EB-OFM-0606	06	3/8"	06	11/16"-16	19	-	26.7	-
81-EB-OFM-0608	06	3/8"	08	13/16"-16	22	-	26.6	-
81-EB-OFM-0808	08	1/2"	08	13/16"-16	22	-	30.3	-
81-EB-OFM-0810	08	1/2"	10	1"-14	27	-	30.7	-
81-EB-OFM-0812	08	1/2"	12	1-3/16"-12	32	-	34.0	-
81-EB-OFM-1010	10	5/8"	10	1"-14	27	-	30.9	-
81-EB-OFM-1012	10	5/8"	12	1-3/16"-12	32	-	34.1	-
81-EB-OFM-1212	12	3/4"	12	1-3/16"-12	32	-	34.6	-
81-EB-OFM-1216	12	3/4"	16	1-7/16"-12	41	-	39.3	-
81-EB-OFM-1616	16	1"	16	1-7/16"-12	38	-	37.4	-
81-EB-OFM-2020	20	1-1/4"	20	1-11/16"-12	46	-	41.7	-

## PRESSURE WASHER FEMALE



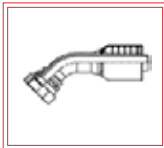
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-PWFX-0422	04	1/4"	22	22x1.5	-	-	27.5	-
81-EB-PWFX-0622	06	3/8"	22	22x1.5	-	-	27.5	-

## SAE 45DEG J512 FLARE FEMALE SWIVEL



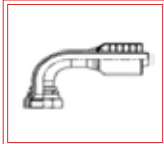
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-SFFX-0606	06	3/8"	06	5/8"-18	22	19	33.6	-
81-EB-SFFX-0608	06	3/8"	08	3/4"-16	25	19	34.9	-
81-EB-SFFX-0808	08	1/2"	08	3/4"-16	27	19	33.6	-
81-EB-SFFX-0810	08	1/2"	10	7/8"-14	27	22	40.6	-
81-EB-SFFX-1012	10	5/8"	12	1-1/16"-14	32	27	42.6	-
81-EB-SFFX-1212	12	3/4"	12	1-1/16"-14	32	27	44.2	-

## SAE 45DEG J512 FLARE FEMALE 45DEG SWIVEL



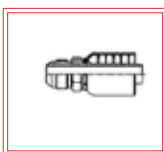
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-SFFX45-0606	06	3/8"	06	5/8"-18	22	-	46.0	12.0
81-EB-SFFX45-0808	08	1/2"	08	3/4"-16	25	-	52.0	15.0
81-EB-SFFX45-1212	12	3/4"	12	1-1/16" - 14	32	-	67.0	21.0

## SAE 45DEG J512 FLARE FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-SFFX90-0606	06	3/8"	06	5/8"-18	22	-	42.0	24.0
81-EB-SFFX90-1012	10	5/8"	12	1-1/16" - 14	32	-	50.0	51.0
81-EB-SFFX90-1212	12	3/4"	12	1-1/16" - 14	32	-	43.0	47.0

## SAE 45DEG J512 FLARE MALE



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EB-SFM-0606	06	3/8"	06	5/8"-18	16	-	28.5	-
81-EB-SFM-0608	06	3/8"	08	3/4"-16	19	-	31.2	-
81-EB-SFM-0808	08	1/2"	08	3/4"-16	19	-	32.1	-
81-EB-SFM-1212	12	3/4"	12	1-1/16" - 14	27	-	41.1	-

## ES - EXITFLEX SPIRAL COUPLING

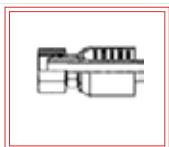
COUPLING TO SUIT : SAE 100 R12 - EN856 R12 / EXR12-06 to EXR12-20  
 SAE 100 R13 - EN856 R13 / EXR13-12 to EXR13-20  
 SAE 100 R15 / EXR15-12 to EXR15-20  
 EN 856 4SP / EX4SP-06 to EX4SP-32  
 EN 856 4SH / EX4SH-06 to EX4SH-16  
 4K Constant Pressure / EXUT4-06 to EXUT4-32  
 5K Constant Pressure / EXUT5-06 to EXUT5-20  
 6K Constant Pressure / EXUT6-04 to EXUT6-20

## BSPP FEMALE SWIVEL



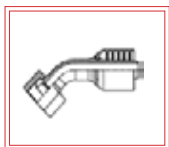
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BPFX-0606	06	3/8"	06	3/8"-19	22	-	23.3	-
81-ES-BPFX-0808	08	1/2"	08	1/2"-14	27	-	31.0	-
81-ES-BPFX-1212	12	3/4"	12	3/4"-14	32	-	35.2	-
81-ES-BPFX-1216	12	3/4"	16	1"-11	38	-	30.0	-
81-ES-BPFX-1616	16	1"	16	1"-11	38	-	41.4	-
81-ES-BPFX-1620	16	1"	20	1-1/4"-11	50	-	33.0	-
81-ES-BPFX-2020	20	1-1/4"	20	1-1/4"-11	50	-	60.7	-
81-ES-BPFX-2024	20	1-1/4"	24	1-1/2"-11	55	-	39.5	-
81-ES-BPFX-2424	24	1-1/2"	24	1-1/2"-11	55	-	71.1	-
81-ES-BPFX-3232	32	2"	32	2"-11	70	-	64.5	-

## BSPP FEMALE SWIVEL DOUBLE HEX HEAVY DUTY



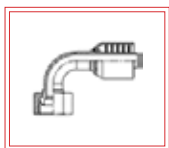
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BPFX-0808HD	08	1/2"	08	1/2"-14	27	19	35.2	-
81-ES-BPFX-1212HD	12	3/4"	12	3/4"-14	32	27	36.8	-
81-ES-BPFX-1616HD	16	1"	16	1"-11	38	32	42.5	-
81-ES-BPFX-2020HD	20	1-1/4"	20	1-1/4"-11	50	41	51.7	-

## BSPP FEMALE 45DEG SWIVEL



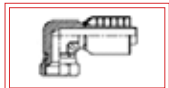
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BPFX45-0808	08	1/2"	08	1/2"-14	27	-	55.1	21.1
81-ES-BPFX45-1212	12	3/4"	12	3/4"-14	32	-	70.8	27.4
81-ES-BPFX45-1216	12	3/4"	16	1"-11	38	-	75.2	31.9
81-ES-BPFX45-1616	16	1"	16	1"-11	38	-	84.1	34.0
81-ES-BPFX45-1620	16	1"	20	1-1/4"-11	50	-	87.9	38.7
81-ES-BPFX45-2020	20	1-1/4"	20	1-1/4"-11	50	-	104.0	39.9
81-ES-BPFX45-2024	20	1-1/4"	24	1-1/2"-11	55	-	105.6	44.9
81-ES-BPFX45-2424	24	1-1/2"	24	1-1/2"-11	55	-	123.0	46.0
81-ES-BPFX45-3232	32	2"	32	2"-11	70	-	166.2	70.1

## BSPP FEMALE 90DEG SWIVEL



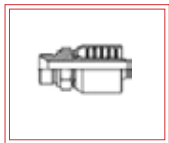
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BPFX90-0808	08	1/2"	08	1/2"-14	27	-	36.1	40.9
81-ES-BPFX90-1212	12	3/4"	12	3/4"-14	32	-	59.7	56.9
81-ES-BPFX90-1216	12	3/4"	16	1"-11	38	-	62.6	64.5
81-ES-BPFX90-1616	16	1"	16	1"-11	38	-	77.3	71.1
81-ES-BPFX90-1620	16	1"	20	1-1/4"-11	50	-	71.5	77.0
81-ES-BPFX90-2020	20	1-1/4"	20	1-1/4"-11	50	-	92.0	83.1
81-ES-BPFX90-2024	20	1-1/4"	24	1-1/2"-11	55	-	89.9	92.8
81-ES-BPFX90-2424	24	1-1/2"	24	1-1/2"-11	55	-	115.0	96.0
81-ES-BPFX90-3232	32	2"	32	2"-11	70	-	145.0	140.0

## BSPP FEMALE 90DEG SWIVEL COMPACT



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BPFX90C-1212	12	3/4"	12	3/4"-14	32	-	29.4	36.3

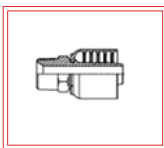
## BSPP MALE



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BPM-1212	12	3/4"	12	3/4"-14	32	-	39.6	-
81-ES-BPM-1216	12	3/4"	16	1"-11	38	-	44.5	-
81-ES-BPM-1616	16	1"	16	1"-11	38	-	47.1	-
81-ES-BPM-2020	20	1-1/4"	20	1-1/4"-11	50	-	53.8	-
81-ES-BPM-2424	24	1-1/2"	24	1-1/2"-11	55	-	62.4	-

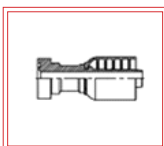
# HYDRAULIC ONE PIECE

## BSPT MALE



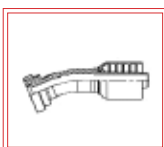
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-BTM-0606	06	3/8"	06	3/8"-19	22	-	30.5	-
81-ES-BTM-0808	08	1/2"	08	1/2"-14	27	-	34.9	-
81-ES-BTM-1212	12	3/4"	12	3/4"-14	32	-	37.5	-
81-ES-BTM-1216	12	3/4"	16	1"-11	38	-	48.0	-
81-ES-BTM-1616	16	1"	16	1"-11	38	-	48.1	-
81-ES-BTM-1620	16	1"	20	1-1/4"-11	50	-	52.5	-
81-ES-BTM-2020	20	1-1/4"	20	1-1/4"-11	50	-	56.4	-
81-ES-BTM-2024	20	1-1/4"	24	1-1/2"-11	55	-	57.4	-
81-ES-BTM-2424	24	1-1/2"	24	1-1/2"-11	55	-	62.0	-
81-ES-BTM-3232	32	2"	32	2"-11	70	-	67.9	-

## CATERPILLAR FLANGE



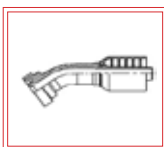
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF-1212	12	3/4"	12	3/4"	41.3	-	85.8	-
81-ES-CF-1216	12	3/4"	16	1"	47.6	-	88.9	-
81-ES-CF-1612	16	1"	12	3/4"	41.3	-	88.0	-
81-ES-CF-1616	16	1"	16	1"	47.6	-	93.8	-
81-ES-CF-1620	16	1"	20	1-1/4"	54.0	-	92.0	-
81-ES-CF-2020	20	1-1/4"	20	1-1/4"	54.0	-	64.7	-
81-ES-CF-2024	20	1-1/4"	24	1-1/2"	63.5	-	91.0	-

## CATERPILLAR FLANGE 22DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF22-1212	12	3/4"	12	3/4"	41.3	-	82.6	16.0
81-ES-CF22-1216	12	3/4"	16	1"	47.6	-	85.7	15.1
81-ES-CF22-1616	16	1"	16	1"	47.6	-	107.1	18.0
81-ES-CF22-1620	16	1"	20	1-1/4"	54.0	-	109.0	18.0
81-ES-CF22-2020	20	1-1/4"	20	1-1/4"	54.0	-	114.3	19.6
81-ES-CF22-2024	20	1-1/4"	24	1-1/2"	63.5	-	114.3	19.3

## CATERPILLAR FLANGE 30DEG ELBOW



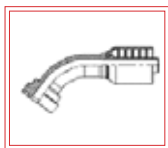
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF30-1212	12	3/4"	12	3/4"	41.3	-	82.0	20.2
81-ES-CF30-1216	12	3/4"	16	1"	47.6	-	97.0	22.2
81-ES-CF30-1616	16	1"	16	1"	47.6	-	92.7	22.6
81-ES-CF30-1620	16	1"	20	1-1/4"	54.0	-	95.4	24.1
81-ES-CF30-2020	20	1-1/4"	20	1-1/4"	54.0	-	108.0	24.6
81-ES-CF30-2024	20	1-1/4"	24	1-1/2"	63.5	-	108.0	26.8

## CATERPILLAR FLANGE 45DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF45-1212	12	3/4"	12	3/4"	41.3	-	75.8	34.0
81-ES-CF45-1216	12	3/4"	16	1"	47.6	-	88.9	34.0
81-ES-CF45-1616	16	1"	16	1"	47.6	-	97.6	39.9
81-ES-CF45-1620	16	1"	20	1-1/4"	54.0	-	98.0	38.0
81-ES-CF45-2020	20	1-1/4"	20	1-1/4"	54.0	-	104.0	41.3
81-ES-CF45-2024	20	1-1/4"	24	1-1/2"	63.5	-	106.0	42.8

## CATERPILLAR FLANGE 60DEG ELBOW



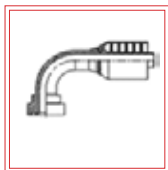
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF60-1212	12	3/4"	12	3/4"	41.3	-	91.2	43.8
81-ES-CF60-1216	12	3/4"	16	1"	47.6	-	92.0	45.1
81-ES-CF60-1616	16	1"	16	1"	47.6	-	105.4	53.1
81-ES-CF60-1620	16	1"	20	1-1/4"	54.0	-	113.0	55.0
81-ES-CF60-2020	20	1-1/4"	20	1-1/4"	54.0	-	130.2	55.9
81-ES-CF60-2024	20	1-1/4"	24	1-1/2"	63.5	-	130.2	59.2

## CATERPILLAR FLANGE 67DEG ELBOW



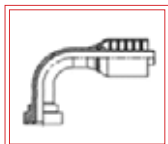
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF67-1212	12	3/4"	12	3/4"	41.3	-	85.1	49.5
81-ES-CF67-1216	12	3/4"	16	1"	47.6	-	85.7	50.9
81-ES-CF67-1616	16	1"	16	1"	47.6	-	96.9	55.8
81-ES-CF67-1620	16	1"	20	1-1/4"	54.0	-	98.1	58.6
81-ES-CF67-2020	20	1-1/4"	20	1-1/4"	54.0	-	114.3	63.5
81-ES-CF67-2024	20	1-1/4"	24	1-1/2"	63.5	-	114.3	67.1

## CATERPILLAR FLANGE 90DEG ELBOW



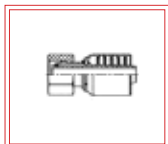
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF90-1212	12	3/4"	12	3/4"	41.3	-	59.8	66.0
81-ES-CF90-1212-128	12	3/4"	12	3/4"	41.3	-	62.6	128.0
81-ES-CF90-1216	12	3/4"	16	1"	47.6	-	67.3	70.1
81-ES-CF90-1616	16	1"	16	1"	47.6	-	75.4	79.0
81-ES-CF90-1616-132	16	1"	16	1"	47.6	-	71.5	132.0
81-ES-CF90-1620	16	1"	20	1-1/4"	54.0	-	78.0	90.0
81-ES-CF90-2020	20	1-1/4"	20	1-1/4"	54.0	-	92.0	88.9
81-ES-CF90-2024	20	1-1/4"	24	1-1/2"	63.5	-	92.0	88.9

## CATERPILLAR FLANGE 90DEG ELBOW LONG DROP



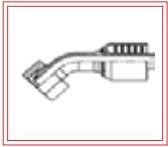
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-CF90L-1212	12	3/4"	12	3/4"	41.3	-	59.8	110.0
81-ES-CF90L-1216	12	3/4"	16	1"	47.6	-	62.6	110.0
81-ES-CF90L-1616	16	1"	16	1"	47.6	-	85.1	132.0
81-ES-CF90L-1620	16	1"	20	1-1/4"	54.0	-	78.0	132.0
81-ES-CF90L-2020	20	1-1/4"	20	1-1/4"	54.0	-	89.9	160.0

## METRIC DIN 24DEG HEAVY FEMALE SWIVEL



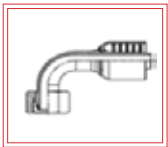
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DHFX-0620	06	3/8"	20	20x1.5	24	-	30.8	-
81-ES-DHFX-0622	06	3/8"	22	22x1.5	27	-	36.2	-
81-ES-DHFX-0822	08	1/2"	22	22x1.5	27	-	40.7	-
81-ES-DHFX-0824	08	1/2"	24	24x1.5	30	-	36.5	-
81-ES-DHFX-1030	10	5/8"	30	30x2.0	36	-	41.7	-
81-ES-DHFX-1230	12	3/4"	30	30x2.0	36	-	40.7	-
81-ES-DHFX-1236	12	3/4"	36	36x2.0	46	-	47.9	-
81-ES-DHFX-1636	16	1"	36	36x2.0	46	-	55.1	-
81-ES-DHFX-1642	16	1"	42	42x2.0	50	-	47.9	-
81-ES-DHFX-2052	20	1-1/4"	52	52x2.0	60	-	54.1	-

## METRIC DIN 24DEG HEAVY FEMALE 45DEG SWIVEL



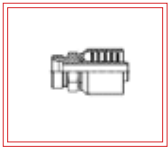
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DHFX45-0618	06	3/8"	18	18x1.5	22	-	45.0	18.9
81-ES-DHFX45-0620	06	3/8"	20	20x1.5	24	-	51.1	20.1
81-ES-DHFX45-0824	08	1/2"	24	24x1.5	30	-	55.9	21.6
81-ES-DHFX45-1030	10	5/8"	30	30x2.0	36	-	66.0	30.0
81-ES-DHFX45-1230	12	3/4"	30	30x2.0	36	-	84.6	29.7
81-ES-DHFX45-1236	12	3/4"	36	36x2.0	46	-	69.1	33.0
81-ES-DHFX45-1636	16	1"	36	36x2.0	46	-	90.9	33.0
81-ES-DHFX45-1642	16	1"	42	42x2.0	50	-	110.0	40.4
81-ES-DHFX45-2052	20	1-1/4"	52	52x2.0	60	-	115.5	45.0

## METRIC DIN 24DEG HEAVY FEMALE 90DEG SWIVEL



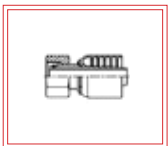
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DHFX90-0620	06	3/8"	20	20x1.5	24	-	34.0	38.6
81-ES-DHFX90-0622	06	3/8"	22	22x1.5	27	-	34.0	40.4
81-ES-DHFX90-0824	08	1/2"	24	24x1.5	30	-	39.9	41.4
81-ES-DHFX90-1030	10	5/8"	30	30x2.0	36	-	50.0	55.1
81-ES-DHFX90-1230	12	3/4"	30	30x2.0	36	-	51.1	57.9
81-ES-DHFX90-1236	12	3/4"	36	36x2.0	46	-	51.1	59.4
81-ES-DHFX90-1636	16	1"	36	36x2.0	46	-	73.5	64.5
81-ES-DHFX90-1642	16	1"	42	42x2.0	50	-	75.9	79.0
81-ES-DHFX90-2052	20	1-1/4"	52	52x2.0	60	-	100.8	101.1

## METRIC DIN 24DEG HEAVY MALE



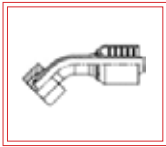
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DHM-0620	06	3/8"	20	20x1.5	24	-	28.0	-
81-ES-DHM-0622	06	3/8"	22	22x1.5	27	-	30.0	-
81-ES-DHM-0824	08	1/2"	24	24x1.5	30	-	31.0	-
81-ES-DHM-1030	10	5/8"	30	30x2.0	36	-	35.6	-
81-ES-DHM-1230	12	3/4"	30	30x2.0	36	-	36.5	-
81-ES-DHM-1236	12	3/4"	36	36x2.0	46	-	40.6	-
81-ES-DHM-1636	16	1"	36	36x2.0	46	-	40.6	-
81-ES-DHM-1642	16	1"	42	42x2.0	50	-	46.2	-
81-ES-DHM-2052	20	1-1/4"	52	52x2.0	60	-	66.5	-

## METRIC DIN 24DEG LIGHT FEMALE SWIVEL



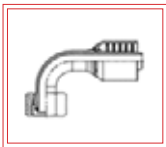
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DLFX-0618	06	3/8"	18	18x1.5	22	-	23.1	-
81-ES-DLFX-0822	08	1/2"	22	22x1.5	27	-	30.7	-
81-ES-DLFX-1026	10	5/8"	26	26x1.5	32	-	32.5	-
81-ES-DLFX-1230	12	3/4"	30	30x2.0	36	-	36.0	-
81-ES-DLFX-1236	12	3/4"	36	36x2.0	41	-	40.7	-
81-ES-DLFX-1636	16	1"	36	36x2.0	41	-	37.9	-
81-ES-DLFX-1645	16	1"	45	45x2.0	50	-	39.8	-
81-ES-DLFX-2045	20	1-1/4"	45	45x2.0	50	-	43.9	-

# HYDRAULIC ONE PIECE



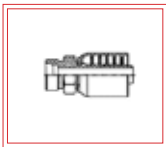
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DLFX45-0822	08	1/2"	22	22x1.5	27	-	55.1	21.1
81-ES-DLFX45-1026	10	5/8"	26	26x1.5	32	-	58.0	27.3
81-ES-DLFX45-1230	12	3/4"	30	30x2.0	36	-	69.1	32.0
81-ES-DLFX45-1236	12	3/4"	36	36x2.0	41	-	72.2	32.0
81-ES-DLFX45-1636	16	1"	36	36x2.0	41	-	90.9	32.0
81-ES-DLFX45-2045	20	1-1/4"	45	45x2.0	50	-	115.5	45.0

## METRIC DIN 24DEG LIGHT FEMALE 90DEG SWIVEL



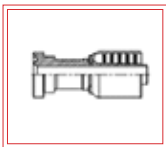
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DLFX90-0822	08	1/2"	22	22x1.5	27	-	39.9	40.4
81-ES-DLFX90-1026	10	5/8"	26	26x1.5	32	-	51.1	48.0
81-ES-DLFX90-1230	12	3/4"	30	30x2.0	36	-	52.1	58.9
81-ES-DLFX90-1236	12	3/4"	36	36x2.0	41	-	52.1	58.9
81-ES-DLFX90-1636	16	1"	36	36x2.0	41	-	78.0	68.1
81-ES-DLFX90-2045	20	1-1/4"	45	45x2.0	50	-	92.0	88.9

## METRIC DIN 24DEG LIGHT MALE



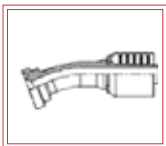
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-DLM-0822	08	1/2"	22	22x1.5	22	-	28.0	-
81-ES-DLM-1026	10	5/8"	26	26x1.5	27	-	29.5	-
81-ES-DLM-1230	12	3/4"	30	30x2.0	32	-	34.3	-
81-ES-DLM-1236	12	3/4"	36	36x2.0	36	-	34.3	-
81-ES-DLM-1636	16	1"	36	36x2.0	36	-	38.2	-
81-ES-DLM-1645	16	1"	45	45x2.0	55	-	38.2	-
81-ES-DLM-2045	20	1-1/4"	45	45x2.0	55	-	43.9	-

## CODE 62 FLANGE



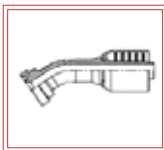
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH-0808	08	1/2"	08	1/2"	31.8	-	47.7	-
81-ES-FH-0812	08	1/2"	12	3/4"	41.3	-	52.8	-
81-ES-FH-1212	12	3/4"	12	3/4"	41.3	-	54.5	-
81-ES-FH-1216	12	3/4"	16	1"	47.6	-	56.8	-
81-ES-FH-1612	16	1"	12	3/4"	41.3	-	58.4	-
81-ES-FH-1616	16	1"	16	1"	47.6	-	58.0	-
81-ES-FH-1620	16	1"	20	1-1/4"	54.0	-	65.5	-
81-ES-FH-2020	20	1-1/4"	20	1-1/4"	54.0	-	64.2	-
81-ES-FH-2024	20	1-1/4"	24	1-1/2"	63.5	-	76.0	-
81-ES-FH-2424	24	1-1/2"	24	1-1/2"	63.5	-	76.0	-
81-ES-FH-2432	24	1-1/2"	32	2"	79.4	-	76.0	-

## CODE 62 FLANGE 22DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH22-1212	12	3/4"	12	3/4"	41.3	-	84.5	14.0
81-ES-FH22-1616	16	1"	16	1"	47.6	-	107.1	14.0
81-ES-FH22-2020	20	1-1/4"	20	1-1/4"	54.0	-	120.0	17.5
81-ES-FH22-2024	20	1-1/4"	24	1-1/2"	63.5	-	128.0	20.5
81-ES-FH22-2424	24	1-1/2"	24	1-1/2"	63.5	-	130.2	20.5

## CODE 62 FLANGE 30DEG ELBOW



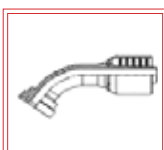
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH30-1212	12	3/4"	12	3/4"	41.3	-	83.0	18.5
81-ES-FH30-1616	16	1"	16	1"	47.6	-	105.4	19.0
81-ES-FH30-2020	20	1-1/4"	20	1-1/4"	54.0	-	108.0	22.0
81-ES-FH30-2024	20	1-1/4"	24	1-1/2"	63.5	-	108.0	25.8
81-ES-FH30-2424	24	1-1/2"	24	1-1/2"	63.5	-	135.4	30.0

## CODE 62 FLANGE 45DEG ELBOW



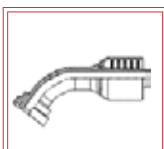
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH45-0808	08	1/2"	08	1/2"	31.8	-	56.9	21.8
81-ES-FH45-0812	08	1/2"	12	3/4"	41.3	-	75.8	27.5
81-ES-FH45-1212	12	3/4"	12	3/4"	41.3	-	75.8	28.5
81-ES-FH45-1216	12	3/4"	16	1"	47.6	-	78.0	32.0
81-ES-FH45-1616	16	1"	16	1"	47.6	-	97.6	32.0
81-ES-FH45-1620	16	1"	20	1-1/4"	54.0	-	96.0	38.0
81-ES-FH45-2020	20	1-1/4"	20	1-1/4"	54.0	-	102.0	38.1
81-ES-FH45-2024	20	1-1/4"	24	1-1/2"	63.5	-	105.0	41.4
81-ES-FH45-2424	24	1-1/2"	24	1-1/2"	63.5	-	121.9	44.0
81-ES-FH45-2432	24	1-1/2"	32	2"	79.4	-	123.7	52.1

## CODE 62 FLANGE 60DEG ELBOW



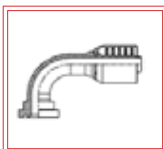
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH60-1212	12	3/4"	12	3/4"	41.3	-	88.0	39.4
81-ES-FH60-1616	16	1"	16	1"	47.6	-	105.4	44.0
81-ES-FH60-2020	20	1-1/4"	20	1-1/4"	54.0	-	130.2	57.4
81-ES-FH60-2024	20	1-1/4"	24	1-1/2"	63.5	-	130.2	57.4
81-ES-FH60-2424	24	1-1/2"	24	1-1/2"	63.5	-	143.0	63.0

## CODE 62 FLANGE 67DEG ELBOW



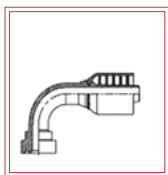
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH67-1616	16	1"	16	1"	47.6	-	97.6	61.0
81-ES-FH67-2020	20	1-1/4"	20	1-1/4"	54.0	-	114.3	63.5
81-ES-FH67-2024	20	1-1/4"	24	1-1/2"	63.5	-	114.3	65.2
81-ES-FH67-2424	24	1-1/2"	24	1-1/2"	63.5	-	122.2	65.2

## CODE 62 FLANGE 90DEG ELBOW



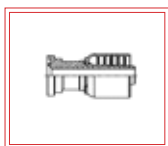
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH90-0808	08	1/2"	08	1/2"	31.8	-	48.0	42.4
81-ES-FH90-0812	08	1/2"	12	3/4"	41.3	-	48.0	58.0
81-ES-FH90-1012	10	5/8"	12	3/4"	41.3	-	50.0	58.0
81-ES-FH90-1212	12	3/4"	12	3/4"	41.3	-	59.8	58.0
81-ES-FH90-1216	12	3/4"	16	1"	47.6	-	66.0	70.0
81-ES-FH90-1612	16	1"	12	3/4"	41.3	-	72.9	58.0
81-ES-FH90-1616	16	1"	16	1"	47.6	-	75.4	70.1
81-ES-FH90-1620	16	1"	20	1-1/4"	54.0	-	78.0	90.0
81-ES-FH90-2016	20	1-1/4"	16	1"	47.6	-	89.9	81.0
81-ES-FH90-2020	20	1-1/4"	20	1-1/4"	54.0	-	92.0	88.9
81-ES-FH90-2024	20	1-1/4"	24	1-1/2"	63.5	-	92.0	88.9
81-ES-FH90-2424	24	1-1/2"	24	1-1/2"	63.5	-	115.0	104.0
81-ES-FH90-2432	24	1-1/2"	32	2"	79.4	-	104.9	114.3

## CODE 62 FLANGE 90DEG ELBOW LONG DROP



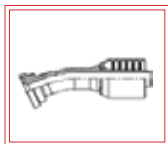
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FH90L-1212-100	12	3/4"	12	3/4"	41.3	-	61.0	100.0
81-ES-FH90L-1616-120	16	1"	16	1"	47.6	-	77.2	120.0
81-ES-FH90L-2020-120	20	1-1/4"	20	1-1/4"	54.0	-	89.9	120.0
81-ES-FH90L-2020-152	20	1-1/4"	20	1-1/4"	54.0	-	89.9	152.0

## CODE 61 FLANGE



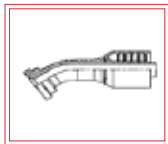
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL-0808	08	1/2"	08	1/2"	30.2	-	40.9	-
81-ES-FL-0812	08	1/2"	12	3/4"	38.1	-	41.9	-
81-ES-FL-1012	10	5/8"	12	3/4"	38.1	-	43.3	-
81-ES-FL-1212	12	3/4"	12	3/4"	38.1	-	44.3	-
81-ES-FL-1216	12	3/4"	16	1"	44.5	-	50.5	-
81-ES-FL-1220	12	3/4"	20	1-1/4"	50.8	-	53.0	-
81-ES-FL-1616	16	1"	16	1"	44.5	-	53.1	-
81-ES-FL-1620	16	1"	20	1-1/4"	50.8	-	53.9	-
81-ES-FL-1624	16	1"	24	1-1/2"	60.3	-	58.9	-
81-ES-FL-2016	20	1-1/4"	16	1"	44.5	-	56.7	-
81-ES-FL-2020	20	1-1/4"	20	1-1/4"	50.8	-	57.2	-
81-ES-FL-2024	20	1-1/4"	24	1-1/2"	60.3	-	66.8	-
81-ES-FL-2424	24	1-1/2"	24	1-1/2"	60.3	-	73.8	-
81-ES-FL-2432	24	1-1/2"	32	2"	71.4	-	70.1	-
81-ES-FL-3232	32	2"	32	2"	71.4	-	73.8	-
81-ES-FL-3240	32	2"	40	2-1/2"	84.1	-	83.7	-

## CODE 61 FLANGE 22DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL22-0808	08	1/2"	08	1/2"	30.2	-	58.9	9.0
81-ES-FL22-1212	12	3/4"	12	3/4"	38.1	-	84.5	14.0
81-ES-FL22-1216	12	3/4"	16	1"	44.5	-	86.1	14.0
81-ES-FL22-1616	16	1"	16	1"	44.5	-	107.1	14.0
81-ES-FL22-1620	16	1"	20	1-1/4"	50.8	-	91.9	15.0
81-ES-FL22-2020	20	1-1/4"	20	1-1/4"	50.8	-	114.3	15.2
81-ES-FL22-2424	24	1-1/2"	24	1-1/2"	60.3	-	131.1	18.0
81-ES-FL22-3232	32	2"	32	2"	71.4	-	145.0	22.0

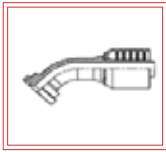
## CODE 61 FLANGE 30DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL30-1212	12	3/4"	12	3/4"	38.1	-	81.9	17.5
81-ES-FL30-1216	12	3/4"	16	1"	44.5	-	84.1	19.0
81-ES-FL30-1616	16	1"	16	1"	44.5	-	105.4	19.0
81-ES-FL30-1620	16	1"	20	1-1/4"	50.8	-	89.9	22.0
81-ES-FL30-1624	16	1"	24	1-1/2"	60.3	-	107.0	27.0
81-ES-FL30-2020	20	1-1/4"	20	1-1/4"	50.8	-	108.0	22.0
81-ES-FL30-2424	24	1-1/2"	24	1-1/2"	60.3	-	135.4	30.0
81-ES-FL30-3232	32	2"	32	2"	71.4	-	145.0	32.0

# HYDRAULIC ONE PIECE

## CODE 61 FLANGE 45DEG ELBOW



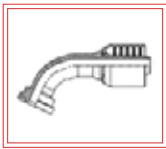
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL45-0808	08	1/2"	08	1/2"	30.2	-	69.0	25.0
81-ES-FL45-0812	08	1/2"	12	3/4"	38.1	-	71.0	28.0
81-ES-FL45-1012	10	5/8"	12	3/4"	38.1	-	83.0	35.0
81-ES-FL45-1212	12	3/4"	12	3/4"	38.1	-	88.0	35.0
81-ES-FL45-1216	12	3/4"	16	1"	44.5	-	96.0	30.0
81-ES-FL45-1616	16	1"	16	1"	44.5	-	101.0	32.5
81-ES-FL45-1620	16	1"	20	1-1/4"	50.8	-	104.0	38.5
81-ES-FL45-2020	20	1-1/4"	20	1-1/4"	50.8	-	98.4	38.1
81-ES-FL45-2024	20	1-1/4"	24	1-1/2"	60.3	-	98.4	38.1
81-ES-FL45-2424	24	1-1/2"	24	1-1/2"	60.3	-	110.0	44.0
81-ES-FL45-2432	24	1-1/2"	32	2"	71.4	-	110.0	44.0
81-ES-FL45-3232	32	2"	32	2"	71.4	-	155.0	56.0

## CODE 61 FLANGE 60DEG ELBOW



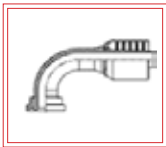
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL60-0808	08	1/2"	08	1/2"	30.2	-	63.7	30.2
81-ES-FL60-1212	12	3/4"	12	3/4"	38.1	-	88.0	37.1
81-ES-FL60-1216	12	3/4"	16	1"	44.5	-	87.9	44.0
81-ES-FL60-1616	16	1"	16	1"	44.5	-	105.4	44.0
81-ES-FL60-1620	16	1"	20	1-1/4"	50.8	-	106.7	55.0
81-ES-FL60-2020	20	1-1/4"	20	1-1/4"	50.8	-	130.2	55.9
81-ES-FL60-2424	24	1-1/2"	24	1-1/2"	60.3	-	135.9	64.0
81-ES-FL60-3232	32	2"	32	2"	71.4	-	145.0	83.0

## CODE 61 FLANGE 67DEG ELBOW



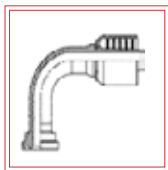
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL67-1212	12	3/4"	12	3/4"	38.1	-	80.4	42.0
81-ES-FL67-1216	12	3/4"	16	1"	44.5	-	87.9	51.0
81-ES-FL67-1616	16	1"	16	1"	44.5	-	97.6	61.0
81-ES-FL67-1620	16	1"	20	1-1/4"	50.8	-	98.6	64.0
81-ES-FL67-2020	20	1-1/4"	20	1-1/4"	50.8	-	114.3	63.5
81-ES-FL67-2424	24	1-1/2"	24	1-1/2"	60.3	-	135.4	74.0
81-ES-FL67-3232	32	2"	32	2"	71.4	-	160.0	97.0

## CODE 61 FLANGE 90DEG ELBOW



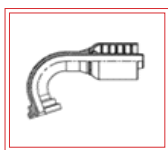
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL90-0808	08	1/2"	08	1/2"	30.2	-	48.0	41.5
81-ES-FL90-0812	08	1/2"	12	3/4"	38.1	-	63.0	55.0
81-ES-FL90-1012	10	5/8"	12	3/4"	38.1	-	51.1	47.5
81-ES-FL90-1212	12	3/4"	12	3/4"	38.1	-	65.0	58.0
81-ES-FL90-1216	12	3/4"	16	1"	44.5	-	64.0	59.0
81-ES-FL90-1612	16	1"	12	3/4"	38.1	-	66.7	58.0
81-ES-FL90-1616	16	1"	16	1"	44.5	-	72.0	64.0
81-ES-FL90-1620	16	1"	20	1-1/4"	50.8	-	78.0	90.0
81-ES-FL90-1624	16	1"	24	1-1/2"	60.3	-	78.0	64.0
81-ES-FL90-2020	20	1-1/4"	20	1-1/4"	50.8	-	92.0	88.9
81-ES-FL90-2024	20	1-1/4"	24	1-1/2"	60.3	-	92.0	88.9
81-ES-FL90-2424	24	1-1/2"	24	1-1/2"	60.3	-	104.9	104.0
81-ES-FL90-2432	24	1-1/2"	32	2"	71.4	-	104.9	104.0
81-ES-FL90-3232	32	2"	32	2"	71.4	-	145.0	138.0
81-ES-FL90-3240	32	2"	40	2-1/2"	84.1	-	145.3	119.0

## CODE 61 FLANGE 90DEG ELBOW LONG DROP



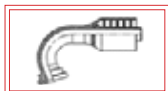
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL90L-1212	12	3/4"	12	3/4"	38.1	-	65.0	133.0
81-ES-FL90L-1212-100	12	3/4"	12	3/4"	38.1	-	59.8	100.0
81-ES-FL90L-1212-125	12	3/4"	12	3/4"	38.1	-	62.6	125.0
81-ES-FL90L-1216	12	3/4"	16	1"	44.5	-	69.0	55.0
81-ES-FL90L-1616	16	1"	16	1"	44.5	-	78.0	64.0
81-ES-FL90L-1616-120	16	1"	16	1"	44.5	-	75.4	120.0
81-ES-FL90L-2020	20	1-1/4"	20	1-1/4"	50.8	-	89.9	125.0
81-ES-FL90L-2424	24	1-1/2"	24	1-1/2"	60.3	-	114.9	125.0
81-ES-FL90L-3232	32	2"	32	2"	71.4	-	145.3	200.0
81-ES-FL90L-3240	32	2"	40	2-1/2"	84.1	-	145.3	200.0

## CODE 61 FLANGE 110DEG ELBOW



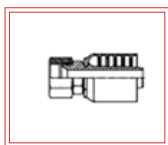
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL110-1212	12	3/4"	12	3/4"	38.1	-	63.9	70.1
81-ES-FL110-1616	16	1"	16	1"	44.5	-	96.8	79.0
81-ES-FL110-1620	16	1"	20	1-1/4"	50.8	-	70.8	83.0
81-ES-FL110-2020	20	1-1/4"	20	1-1/4"	50.8	-	91.8	95.0
81-ES-FL110-2024	20	1-1/4"	24	1-1/2"	60.3	-	90.0	100.0
81-ES-FL110-2424	24	1-1/2"	24	1-1/2"	60.3	-	95.0	110.0
81-ES-FL110-3232	32	2"	32	2"	71.4	-	144.7	137.0

## CODE 61 FLANGE 135DEG ELBOW



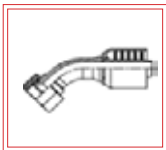
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-FL135-1212	12	3/4"	12	3/4"	38.1	-	43.6	75.7

## JIC 37DEG FLARE FEMALE SWIVEL



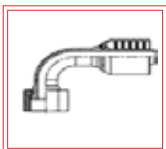
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCFX-0606	06	3/8"	06	9/16"-18	17.5	17	33.6	-
81-ES-JCFX-0608	06	3/8"	08	3/4"-16	22.2	19	27.7	-
81-ES-JCFX-0806	08	1/2"	06	9/16"-18	19	17	34.6	-
81-ES-JCFX-0808	08	1/2"	08	3/4"-16	22.2	19	27.7	-
81-ES-JCFX-0810	08	1/2"	10	7/8"-14	27	27	41.6	-
81-ES-JCFX-0812	08	1/2"	12	1-1/16"-12	32	27	44.2	-
81-ES-JCFX-1008	10	5/8"	08	3/4"-16	25	19	41.9	-
81-ES-JCFX-1010	10	5/8"	10	7/8"-14	27	27	44.8	-
81-ES-JCFX-1012	10	5/8"	12	1-1/16"-12	32	27	44.7	-
81-ES-JCFX-1210	12	3/4"	10	7/8"-14	27	27	44.2	-
81-ES-JCFX-1212	12	3/4"	12	1-1/16"-12	32	27	45.7	-
81-ES-JCFX-1214	12	3/4"	14	1-3/16"-12	36	32	47.5	-
81-ES-JCFX-1216	12	3/4"	16	1-5/16"-12	38	32	37.1	-
81-ES-JCFX-1612	16	1"	12	1-1/16"-12	32	27	36.1	-
81-ES-JCFX-1616	16	1"	16	1-5/16"-12	38	32	53.7	-
81-ES-JCFX-1620	16	1"	20	1-5/8"-12	50	41	41.1	-
81-ES-JCFX-2016	20	1-1/4"	16	1-5/16"-12	38	32	42.7	-
81-ES-JCFX-2020	20	1-1/4"	20	1-5/8"-12	50	41	60.5	-
81-ES-JCFX-2024	20	1-1/4"	24	1-7/8"-12	55	50	67.6	-
81-ES-JCFX-2424	24	1-1/2"	24	1-7/8"-12	55	50	73.1	-
81-ES-JCFX-3232	32	2"	32	2-1/2"-12	70	70	86.5	-

## JIC 37DEG FLARE FEMALE 45DEG SWIVEL



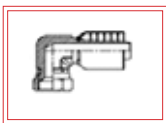
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCFX45-0606	06	3/8"	06	9/16"-18	17.5	-	46.0	11.0
81-ES-JCFX45-0608	06	3/8"	08	3/4"-16	22.2	-	47.0	15.0
81-ES-JCFX45-0808	08	1/2"	08	3/4"-16	22.2	-	52.9	15.0
81-ES-JCFX45-0810	08	1/2"	10	7/8"-14	27	-	51.0	16.0
81-ES-JCFX45-1010	10	5/8"	10	7/8"-14	27	-	44.8	16.0
81-ES-JCFX45-1012	10	5/8"	12	1-1/16"-12	32	-	65.0	22.9
81-ES-JCFX45-1212	12	3/4"	12	1-1/16"-12	32	-	70.8	27.4
81-ES-JCFX45-1216	12	3/4"	16	1-5/16"-12	38	-	71.0	26.0
81-ES-JCFX45-1616	16	1"	16	1-5/16"-12	38	-	83.7	30.1
81-ES-JCFX45-1620	16	1"	20	1-5/8"-12	50	-	85.6	31.8
81-ES-JCFX45-2020	20	1-1/4"	20	1-5/8"-12	50	-	104.0	37.1
81-ES-JCFX45-2024	20	1-1/4"	24	1-7/8"-12	55	-	102.5	41.8
81-ES-JCFX45-2424	24	1-1/2"	24	1-7/8"-12	55	-	118.1	39.7
81-ES-JCFX45-3232	32	2"	32	2-1/2"-12	70	-	123.0	55.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL



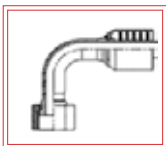
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCFX90-0606	06	3/8"	06	9/16"-18	17.5	-	31.0	38.0
81-ES-JCFX90-0608	06	3/8"	08	3/4"-16	22.2	-	39.0	41.0
81-ES-JCFX90-0808	08	1/2"	08	3/4"-16	22.2	-	37.9	40.0
81-ES-JCFX90-0810	08	1/2"	10	7/8"-14	27	-	43.0	47.0
81-ES-JCFX90-1010	10	5/8"	10	7/8"-14	27	-	44.8	47.0
81-ES-JCFX90-1012	10	5/8"	12	1-1/16"-12	32	-	59.7	58.0
81-ES-JCFX90-1210	12	3/4"	10	7/8"-14	27	-	50.0	47.0
81-ES-JCFX90-1212	12	3/4"	12	1-1/16"-12	32	-	59.7	56.9
81-ES-JCFX90-1216	12	3/4"	16	1-5/16"-12	38	-	59.7	71.0
81-ES-JCFX90-1616	16	1"	16	1-5/16"-12	38	-	75.5	71.0
81-ES-JCFX90-1620	16	1"	20	1-5/8"-12	50	-	72.9	78.0
81-ES-JCFX90-2020	20	1-1/4"	20	1-5/8"-12	50	-	92.0	78.0
81-ES-JCFX90-2024	20	1-1/4"	24	1-7/8"-12	55	-	100.0	86.0
81-ES-JCFX90-2424	24	1-1/2"	24	1-7/8"-12	55	-	115.0	87.6
81-ES-JCFX90-3232	32	2"	32	2-1/2"-12	70	-	129.0	140.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL COMPACT



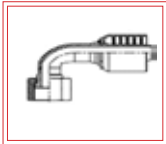
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCFX90C-1212	12	3/4"	12	1-1/16"-12	32.0	-	29.4	32.7
81-ES-JCFX90C-1616	16	1"	16	1-5/16"-12	38.0	-	34.2	38.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL LONG DROP



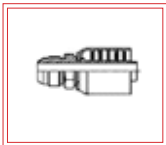
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCFX90L-0606	06	3/8"	06	9/16"-18	19	-	43.0	54.0
81-ES-JCFX90L-0808	08	1/2"	08	3/4"-16	25	-	50.9	64.0
81-ES-JCFX90L-0810	08	1/2"	10	7/8"-14	27	-	37.0	70.0
81-ES-JCFX90L-1010	10	5/8"	10	7/8"-14	27	-	44.8	70.0
81-ES-JCFX90L-1212	12	3/4"	12	1-1/16"-12	32	-	59.7	96.0
81-ES-JCFX90L-1616	16	1"	16	1-5/16"-12	38	-	78.7	114.0

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL SHORT DROP



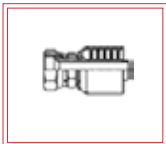
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCFX90S-0606	06	3/8"	06	9/16"-18	19	-	42.0	23.0
81-ES-JCFX90S-0808	08	1/2"	08	3/4"-16	25	-	46.0	29.0
81-ES-JCFX90S-0810	08	1/2"	10	7/8"-14	27	-	46.0	32.0
81-ES-JCFX90S-1010	10	5/8"	10	7/8"-14	27	-	44.8	32.0
81-ES-JCFX90S-1212	12	3/4"	12	1-1/16"-12	32	-	59.7	48.0
81-ES-JCFX90S-1616	16	1"	16	1-5/16"-12	38	-	64.8	61.9

## JIC 37DEG FLARE MALE



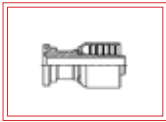
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JCM-0606	06	3/8"	06	9/16"-18	17	-	29.1	-
81-ES-JCM-0608	06	3/8"	08	3/4"-16	19	-	32.8	-
81-ES-JCM-0808	08	1/2"	08	3/4"-16	19	-	32.8	-
81-ES-JCM-0810	08	1/2"	10	7/8"-14	24	-	36.8	-
81-ES-JCM-0812	08	1/2"	12	1-1/16"-12	27	-	39.1	-
81-ES-JCM-1010	10	5/8"	10	7/8"-14	24	-	37.3	-
81-ES-JCM-1212	12	3/4"	12	1-1/16"-12	27	-	40.6	-
81-ES-JCM-1214	12	3/4"	14	1-3/16"-12	32	-	43.9	-
81-ES-JCM-1216	12	3/4"	16	1-5/16"-12	36	-	45.1	-
81-ES-JCM-1616	16	1"	16	1-5/16"-12	36	-	46.6	-
81-ES-JCM-1620	16	1"	20	1-5/8"-12	46	-	50.5	-
81-ES-JCM-2020	20	1-1/4"	20	1-5/8"-12	46	-	54.5	-
81-ES-JCM-2024	20	1-1/4"	24	1-7/8"-12	50	-	59.2	-
81-ES-JCM-2424	24	1-1/2"	24	1-7/8"-12	50	-	64.6	-
81-ES-JCM-3232	32	2"	32	2-1/2"-12	70	-	75.5	-

## JIS 30DEG FEMALE SWIVEL



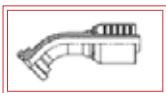
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-JSFX-0606	06	3/8"	06	3/8"-19	22	19	34.6	-
81-ES-JSFX-0808	08	1/2"	08	1/2"-14	27	22	37.2	-
81-ES-JSFX-1212	12	3/4"	12	3/4"-14	36	30	43.1	-
81-ES-JSFX-1616	16	1"	16	1"-11	41	36	52.1	-
81-ES-JSFX-2020	20	1-1/4"	20	1-1/4"-11	50	41	59.7	-

## KOMATSU FLANGE



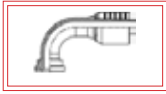
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-KF-0810	08	1/2"	10	5/8"	34.0	-	46.6	-
81-ES-KF-1010	10	5/8"	10	5/8"	34.0	-	46.8	-

## KOMATSU FLANGE 45DEG ELBOW



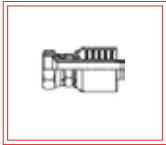
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-KF45-1010	10	5/8"	10	5/8"	34.0	-	58.9	24.9

## KOMATSU FLANGE 90DEG ELBOW



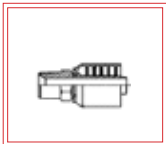
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-KF90-1010	10	5/8"	10	5/8"	34.0	-	50.0	51.1

## JAPANESE KOMATSU 30DEG FLARE FEMALE SWIVEL



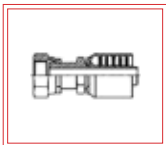
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-KMFX-0822	08	1/2"	22	22x1.5	27	22	37.3	-
81-ES-KMFX-1024	10	5/8"	24	24x1.5	32	30	44.5	-
81-ES-KMFX-1230	12	3/4"	30	30x1.5	36	30	49.5	-
81-ES-KMFX-1633	16	1"	33	33x1.5	41	36	61.8	-

## NPTF MALE



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-NPM-0604	06	3/8"	04	1/4"-18	17	-	29.7	-
81-ES-NPM-0606	06	3/8"	06	3/8"-18	19	-	30.5	-
81-ES-NPM-0608	06	3/8"	08	1/2"-14	22	-	34.9	-
81-ES-NPM-0806	08	1/2"	06	3/8"-18	19	-	30.5	-
81-ES-NPM-0808	08	1/2"	08	1/2"-14	22	-	34.9	-
81-ES-NPM-0812	08	1/2"	12	3/4"-14	27	-	36.0	-
81-ES-NPM-1012	10	5/8"	12	3/4"-14	27	-	36.5	-
81-ES-NPM-1208	12	3/4"	08	1/2"-14	22	-	36.4	-
81-ES-NPM-1212	12	3/4"	12	3/4"-14	27	-	37.5	-
81-ES-NPM-1216	12	3/4"	16	1"-11 1/2	36	-	46.6	-
81-ES-NPM-1612	16	1"	12	3/4"-14	27	-	43.2	-
81-ES-NPM-1616	16	1"	16	1"-11 1/2	36	-	48.1	-
81-ES-NPM-1620	16	1"	20	1-1/4"-11 1/2	46	-	51.5	-
81-ES-NPM-2020	20	1-1/4"	20	1-1/4"-11 1/2	46	-	55.4	-
81-ES-NPM-2424	24	1-1/2"	24	1-1/2"-11 1/2	50	-	62.4	-
81-ES-NPM-3232	32	2"	32	2"-11 1/2	70	-	67.9	-

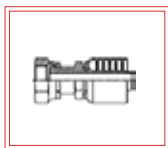
## ORFS FEMALE SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFFX-0606	06	3/8"	06	11/16"-16	22	18	32.8	-
81-ES-OFFX-0608	06	3/8"	08	13/16"-16	24	22	38.1	-
81-ES-OFFX-0808	08	1/2"	08	13/16"-16	24	22	38.1	-
81-ES-OFFX-0810	08	1/2"	10	1"-14	30	24	41.5	-
81-ES-OFFX-0812	08	1/2"	12	1-3/16"-12	36	30	44.1	-
81-ES-OFFX-1010	10	5/8"	10	1"-14	30	24	42.0	-
81-ES-OFFX-1012	10	5/8"	12	1-3/16"-12	36	30	44.5	-
81-ES-OFFX-1210	12	3/4"	10	1"-14	30	24	43.0	-
81-ES-OFFX-1212	12	3/4"	12	1-3/16"-12	36	30	45.2	-
81-ES-OFFX-1216	12	3/4"	16	1-7/16"-12	41	36	51.5	-

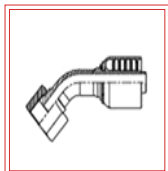
# HYDRAULIC ONE PIECE

## ORFS FEMALE SWIVEL



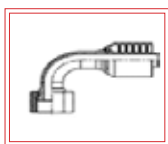
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFFX-0606	06	3/8"	06	11/16"-16	22	18	32.8	-
81-ES-OFFX-0608	06	3/8"	08	13/16"-16	24	22	38.1	-
81-ES-OFFX-0808	08	1/2"	08	13/16"-16	24	22	38.1	-
81-ES-OFFX-0810	08	1/2"	10	1"-14	30	24	41.5	-
81-ES-OFFX-0812	08	1/2"	12	1-3/16"-12	36	30	44.1	-
81-ES-OFFX-1612	16	1"	12	1-3/16"-12	36	30	49.4	-
81-ES-OFFX-1616	16	1"	16	1-7/16"-12	41	36	53.4	-
81-ES-OFFX-1620	16	1"	20	1-11/16"-12	50	41	50.5	-
81-ES-OFFX-2020	20	1-1/4"	20	1-11/16"-12	50	41	57.9	-
81-ES-OFFX-2024	20	1-1/4"	24	2"-12	60	50	62.2	-
81-ES-OFFX-2424	24	1-1/2"	24	2"-12	60	50	68.4	-

## ORFS FEMALE 45DEG SWIVEL



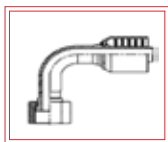
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFFX45-0606	06	3/8"	06	11/16"-16	22	-	47.0	11.0
81-ES-OFFX45-0608	06	3/8"	08	13/16"-16	24	-	51.1	15.0
81-ES-OFFX45-0808	08	1/2"	08	13/16"-16	24	-	47.0	16.0
81-ES-OFFX45-0810	08	1/2"	10	1"-14	30	-	50.0	16.0
81-ES-OFFX45-1010	10	5/8"	10	1"-14	30	-	42.0	16.0
81-ES-OFFX45-1212	12	3/4"	12	1-3/16"-12	36	-	64.9	21.0
81-ES-OFFX45-1216	12	3/4"	16	1-7/16"-12	41	-	71.1	24.0
81-ES-OFFX45-1612	16	1"	12	1-3/16"-12	36	-	72.1	24.5
81-ES-OFFX45-1616	16	1"	16	1-7/16"-12	41	-	80.0	26.0
81-ES-OFFX45-1620	16	1"	20	1-11/16"-12	50	-	85.1	32.0
81-ES-OFFX45-2020	20	1-1/4"	20	1-11/16"-12	50	-	97.0	25.9
81-ES-OFFX45-2024	20	1-1/4"	24	2"-12	60	-	92.0	27.9
81-ES-OFFX45-2424	24	1-1/2"	24	2"-12	60	-	121.9	42.0

## ORFS FEMALE 90DEG SWIVEL



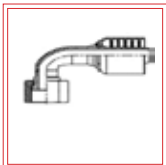
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFFX90-0606	06	3/8"	06	11/16"-16	22	-	42.0	38.0
81-ES-OFFX90-0608	06	3/8"	08	13/16"-16	24	-	44.0	41.0
81-ES-OFFX90-0808	08	1/2"	08	13/16"-16	24	-	35.9	41.0
81-ES-OFFX90-0810	08	1/2"	10	1"-14	30	-	48.0	47.0
81-ES-OFFX90-1010	10	5/8"	10	1"-14	30	-	55.0	47.0
81-ES-OFFX90-1212	12	3/4"	12	1-3/16"-12	36	-	63.9	58.0
81-ES-OFFX90-1616	16	1"	16	1-7/16"-12	41	-	79.6	71.0
81-ES-OFFX90-1620	16	1"	20	1-11/16"-12	50	-	83.0	78.0
81-ES-OFFX90-2020	20	1-1/4"	20	1-11/16"-12	50	-	97.0	78.0
81-ES-OFFX90-2024	20	1-1/4"	24	2"-12	60	-	92.0	78.0
81-ES-OFFX90-2424	24	1-1/2"	24	2"-12	60	-	115.0	86.0

## ORFS FEMALE 90DEG SWIVEL LONG DROP



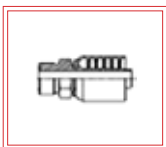
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFFX90L-0606	06	3/8"	06	11/16"-16	22	-	42.0	54.0
81-ES-OFFX90L-0808	08	1/2"	08	13/16"-16	24	-	38.9	64.0
81-ES-OFFX90L-0810	08	1/2"	10	1"-14	30	-	46.0	70.0
81-ES-OFFX90L-1212	12	3/4"	12	1-3/16"-12	36	-	63.9	96.0
81-ES-OFFX90L-1616	16	1"	16	1-7/16"-12	41	-	79.5	114.0
81-ES-OFFX90L-2020	20	1-1/4"	20	1-11/16"-12	50	-	97.0	129.0

## ORFS FEMALE 90DEG SWIVEL SHORT DROP



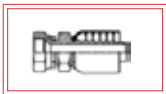
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFFX90S-0606	06	3/8"	06	11/16"-16	22	-	42.0	23.0
81-ES-OFFX90S-0808	08	1/2"	08	13/16"-16	24	-	40.9	29.0
81-ES-OFFX90S-0810	08	1/2"	10	1"-14	30	-	46.0	32.0
81-ES-OFFX90S-1010	10	5/8"	10	1"-14	30	-	52.0	32.5
81-ES-OFFX90S-1012	10	5/8"	12	1-3/16"-12	36	-	62.9	48.0
81-ES-OFFX90S-1210	12	3/4"	10	1"-14	30	-	41.3	39.1
81-ES-OFFX90S-1212	12	3/4"	12	1-3/16"-12	36	-	62.9	48.0
81-ES-OFFX90S-1216	12	3/4"	16	1-7/16"-12	41	-	68.0	56.0
81-ES-OFFX90S-1616	16	1"	16	1-7/16"-12	41	-	79.6	57.5

## ORFS MALE



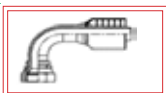
PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-OFM-0606	06	3/8"	06	11/16"-16	19	-	29.3	-
81-ES-OFM-0608	06	3/8"	08	13/16"-16	22	-	29.1	-
81-ES-OFM-0808	08	1/2"	08	13/16"-16	22	-	32.3	-
81-ES-OFM-0810	08	1/2"	10	1"-14	27	-	32.7	-
81-ES-OFM-1010	10	5/8"	10	1"-14	27	-	34.6	-
81-ES-OFM-1212	12	3/4"	12	1-3/16"-12	32	-	37.5	-
81-ES-OFM-1216	12	3/4"	16	1-7/16"-12	38	-	40.1	-
81-ES-OFM-1616	16	1"	16	1-7/16"-12	38	-	41.6	-
81-ES-OFM-1620	16	1"	20	1-11/16"-12	46	-	41.6	-
81-ES-OFM-2020	20	1-1/4"	20	1-11/16"-12	46	-	47.8	-
81-ES-OFM-2424	24	1-1/2"	24	2"-12	55	-	55.1	-

## SAE 45DEG J512 FLARE FEMALE SWIVEL



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-SFFX-1212	12	3/4"	12	3/4"-16	32	27	23.2	-

## SAE 45DEG J512 FLARE FEMALE SWIVEL 90DEG ELBOW



PART NUMBER	HOSE		THREAD		HEX 1	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-ES-SFFX90-1212	12	3/4"	12	3/4"-16	32	-	62.6	58.7

## S6 - EXITFLEX SPIRAL COUPLING

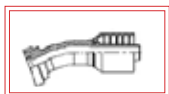
COUPLING TO SUIT : SAE 100 R13 - EN856 R13 / EXR13-24 & EXR13-32  
5K Constant Pressure / EXUT5-24 to EXUT5-32

## CATERPILLAR FLANGE



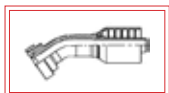
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-CF-2424	24	1-1/2"	24	1-1/2"	63.5	-	89.0	-
81-S6-CF-3232	32	2"	32	2"	79.4	-	110.1	-

## CATERPILLAR FLANGE 22DEG ELBOW



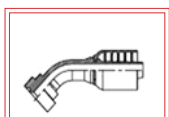
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-CF22-3232	32	2"	32	2"	79.4	-	110.1	25.0

## CATERPILLAR FLANGE 30DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-CF30-3232	32	2"	32	2"	79.4	-	166.2	35.0

## CATERPILLAR FLANGE 45DEG ELBOW



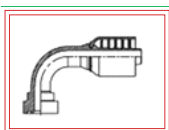
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-CF45-2424	24	1-1/2"	24	1-1/2"	63.5	-	181.0	52.0
81-S6-CF45-3232	32	2"	32	2"	79.4	-	166.2	70.0

## CATERPILLAR FLANGE 60DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-CF60-2424	24	1-1/2"	24	1-1/2"	63.5	-	164.0	72.5
81-S6-CF60-2432	24	1-1/2"	32	2"	79.4	-	145.0	85.0
81-S6-CF60-3232	32	2"	32	2"	79.4	-	166.2	83.0

## CATERPILLAR FLANGE 90DEG ELBOW



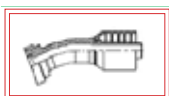
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-CF90-2424	24	1-1/2"	24	1-1/2"	63.5	-	117.0	109.0
81-S6-CF90-3232	32	2"	32	2"	79.4	-	145.0	138.0

## CODE 62 FLANGE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FH-2424	24	1-1/2"	24	1-1/2"	63.5	-	76.0	-
81-S6-FH-2432	24	1-1/2"	32	2"	79.4	-	88.0	-
81-S6-FH-3232	32	2"	32	2"	79.4	-	73.0	-

## CODE 62 FLANGE 22DEG ELBOW



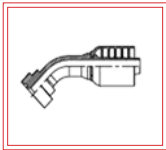
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FH22-3232	32	2"	32	2"	79.4	-	145.0	25.0

## CODE 62 FLANGE 30DEG ELBOW



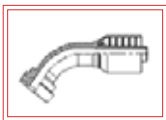
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FH30-2424	24	1-1/2"	24	1-1/2"	63.5	-	154.0	29.5
81-S6-FH30-3232	32	2"	32	2"	79.4	-	145.0	33.5

## CODE 62 FLANGE 45DEG ELBOW



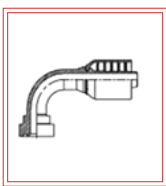
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FH45-2424	24	1-1/2"	24	1-1/2"	63.5	-	144.0	48.0
81-S6-FH45-2432	24	1-1/2"	32	2"	79.4	-	137.0	55.0
81-S6-FH45-3232	32	2"	32	2"	79.4	-	155.0	56.0

## CODE 62 FLANGE 60DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FH60-2424	24	1-1/2"	24	1-1/2"	63.5	-	150.0	71.5
81-S6-FH60-3232	32	2"	32	2"	79.4	-	145.0	83.0

## CODE 62 FLANGE 90DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FH90-2420	24	1-1/2"	20	1-1/4"	54.0	-	112.0	85.0
81-S6-FH90-2424	24	1-1/2"	24	1-1/2"	63.5	-	114.0	109.0
81-S6-FH90-2432	24	1-1/2"	32	2"	79.4	-	118.0	121.5
81-S6-FH90-3232	32	2"	32	2"	79.4	-	145.0	83.0

## CODE 61 FLANGE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FL-2424	24	1-1/2"	24	1-1/2"	60.3	-	63.5	-
81-S6-FL-3232	32	2"	32	2"	71.4	-	70.1	-

## CODE 61 FLANGE 22DEG ELBOW



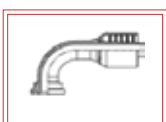
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FL22-2424	24	1-1/2"	24	1-1/2"	60.3	-	126.5	15.7
81-S6-FL22-3232	32	2"	32	2"	71.4	-	145.0	22.0

## CODE 61 FLANGE 45DEG ELBOW



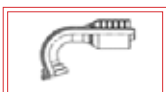
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FL45-2424	24	1-1/2"	24	1-1/2"	60.3	-	110.0	43.0
81-S6-FL45-2432	24	1-1/2"	32	2"	71.4	-	116.0	39.1
81-S6-FL45-3232	32	2"	32	2"	71.4	-	155.0	56.0

## CODE 61 FLANGE 90DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FL90-2424	24	1-1/2"	24	1-1/2"	60.3	-	103.0	93.0
81-S6-FL90-3232	32	2"	32	2"	71.4	-	145.0	138.0

## CODE 61 FLANGE 110DEG ELBOW LONG DROP



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-FL110L-2424	24	1-1/2"	24	1-1/2"	60.3	-	97.7	118.0

## HAMMER UNION FEMALE FIG 1502



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-IHUF1502-3232	32	2"	-	-	-	-	65.8	-

## HAMMER UNION FEMALE LUG NUT FIG 1502



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
84-HU-LUG1502-032	-	-	32	3 TPI ACME	-	-	-	-

## HAMMER UNION MALE FIG 1502



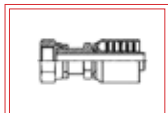
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-IHUM1502-3232	32	2"	32	3 TPI ACME	-	-	66.5	-

## HAMMER UNION SEAL RING NBR TO SUIT FIG 602 / 1002 / 1502



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
84-HU-SRF602-032	-	-	32	-	-	-	-	-

## JIC 37DEG FLARE FEMALE SWIVEL



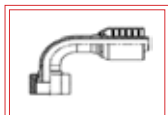
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-JCFX-2424	24	1-1/2"	24	1-7/8"-12	55.0	50	49.4	-
81-S6-JCFX-3232	32	2"	32	2-1/2"-12	70.0	70	65.5	-

## JIC 37DEG FLARE FEMALE 45DEG SWIVEL



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-JCFX45-2424	24	1-1/2"	24	1-7/8"-12	55.0	-	118.0	43.5
81-S6-JCFX45-3232	32	2"	32	2-1/2"-12	70.0	-	166.1	70.1

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL



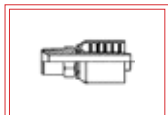
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-JCFX90-2424	24	1-1/2"	24	1-7/8"-12	55.0	-	105.0	92.0
81-S6-JCFX90-3232	32	2"	32	2-1/2"-12	70.0	-	145.0	140.2

## JIC 37DEG FLARE MALE



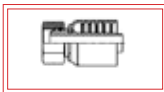
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-JCM-2424	24	1-1/2"	24	1-7/8"-12	50.0	-	57.5	-
81-S6-JCM-3232	32	2"	32	2-1/2"-12	70.0	-	71.8	-

## NPTF MALE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-NPM-2424	24	1-1/2"	24	1-1/2"-11 1/2	50.0	-	55.5	-
81-S6-NPM-3232	32	2"	32	2"-11 1/2	70.0	-	64.1	-

## ORFS FEMALE SWIVEL



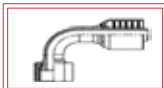
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-OFFX-2424	24	1-1/2"	24	2"-12	60.0	50	62.5	-

## ORFS FEMALE 45DEG SWIVEL



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-OFFX45-2424	24	1-1/2"	24	2"-12	60.0	-	116.0	37.0

## ORFS FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-OFFX90-2424	24	1-1/2"	24	2"-12	60.0	-	130.0	96.5

## ORFS MALE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-S6-OFM-2424	24	1-1/2"	24	2"-12	55.0	-	48.5	-

## EE - EXITFLEX SPIRAL COUPLING

COUPLING TO SUIT : SAE 100 R13 - EN856 R13 / EXR13-24 & EXR13-32  
 SAE 100 R15 / EXR15-24 & EXR15-32  
 5K Constant Pressure / EXUT5-24 & EXUT5-32  
 6K Constant Pressure / EXUT6-24 & EXUT6-32

## BSPP FEMALE SWIVEL



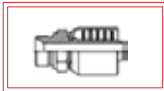
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-BPFX-2424	24	1-1/2"	24	1-1/2"-11	55.0	-	Contact	Powell
81-EE-BPFX-3232	32	2"	32	2"-11	70.0	-	60.4	-

## BSPP FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-BPFX90-2424	24	1-1/2"	24	1-1/2"-11	55.0	-	Contact	Powell
81-EE-BPFX90-3232	32	2"	32	2"-11	70.0	-	145.0	140.0

## BSPP MALE



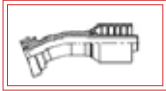
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-BPM-3232	32	2"	32	2"-11	70.0	-	67.5	-

## CATERPILLAR FLANGE



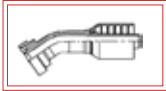
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-CF-2424	24	1-1/2"	24	1-1/2"	63.5	-	89.0	-
81-EE-CF-3232	32	2"	32	2"	79.4	-	110.1	-

## CATERPILLAR FLANGE 22DEG ELBOW



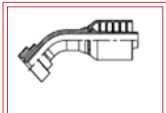
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-CF22-2424	24	1-1/2"	24	1-1/2"	63.5	-	142.2	21.9

## CATERPILLAR FLANGE 30DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-CF30-2424	24	1-1/2"	24	1-1/2"	63.5	-	138.7	30.8

## CATERPILLAR FLANGE 45DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-CF45-2424	24	1-1/2"	24	1-1/2"	63.5	-	181.0	52.0
81-EE-CF45-2432	24	1-1/2"	32	2"	79.4	-	133.8	56.1

## CATERPILLAR FLANGE 60DEG ELBOW



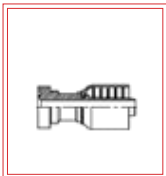
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-CF60-2424	24	1-1/2"	24	1-1/2"	63.5	-	164.0	72.5

## CATERPILLAR FLANGE 90DEG ELBOW



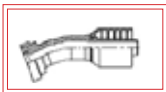
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-CF90-2424	24	1-1/2"	24	1-1/2"	63.5	-	117.0	109.0
81-EE-CF90-3232	32	2"	32	2"	79.4	-	145.0	138.0

## CODE 62 FLANGE



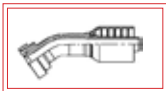
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH-2424	24	1-1/2"	24	1-1/2"	63.5	-	76.0	-
81-EE-FH-2432	24	1-1/2"	32	2"	79.4	-	88.0	-
81-EE-FH-3224	32	2"	24	1-1/2"	63.5	-	73.0	-
81-EE-FH-3232	32	2"	32	2"	79.4	-	73.0	-

## CODE 62 FLANGE 22DEG ELBOW



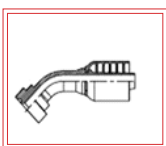
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH22-3232	32	2"	32	2"	79.4	-	145.0	25.0

## CODE 62 FLANGE 30DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH30-2424	24	1-1/2"	24	1-1/2"	63.5	-	154.0	29.5

## CODE 62 FLANGE 45DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH45-2424	24	1-1/2"	24	1-1/2"	63.5	-	144.0	48.0
81-EE-FH45-2432	24	1-1/2"	32	2"	79.4	-	137.0	55.0
81-EE-FH45-3232	32	2"	32	2"	79.4	-	155.0	56.0

# HYDRAULIC ONE PIECE

## CODE 62 FLANGE 60DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH60-3232	32	2"	32	2"	79.4	-	145.0	83.0

## CODE 62 FLANGE 90DEG ELBOW



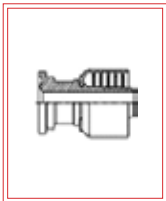
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH90-2420	24	1-1/2"	20	1-1/4"	54.0	-	112.0	85.0
81-EE-FH90-2424	24	1-1/2"	24	1-1/2"	63.5	-	114.0	109.0
81-EE-FH90-2432	24	1-1/2"	32	2"	79.4	-	118.0	121.5
81-EE-FH90-3232	32	2"	32	2"	79.4	-	145.0	83.0

## CODE 62 FLANGE 90DEG ELBOW LONG DROP



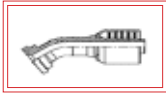
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FH90L-2424-150	24	1-1/2"	24	1-1/2"	63.5	-	116.3	150.0

## CODE 61 FLANGE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FL-2424	24	1-1/2"	24	1-1/2"	60.3	-	63.5	-
81-EE-FL-2432	24	1-1/2"	32	2"	71.4	-	Contact	Powell
81-EE-FL-3224	32	2"	24	1-1/2"	60.3	-	76.0	-
81-EE-FL-3232	32	2"	32	2"	71.4	-	70.1	-
81-EE-FL-3240	32	2"	40	2-1/2"	84.1	-	66.3	-

## CODE 61 FLANGE 30DEG ELBOW



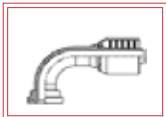
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FL30-3232	32	2"	32	2"	71.4	-	145.0	32.0

## CODE 61 FLANGE 45DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FL45-2424	24	1-1/2"	24	1-1/2"	60.3	-	111.0	43.0
81-EE-FL45-3232	32	2"	32	2"	71.4	-	155.0	56.0

## CODE 61 FLANGE 90DEG ELBOW



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-FL90-2424	24	1-1/2"	24	1-1/2"	60.3	-	103.0	93.0
81-EE-FL90-3232	32	2"	32	2"	71.4	-	145.0	138.0

## HAMMER UNION FEMALE FIG 1502



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-IHUF1502-2432	24	1-1/2"	-	-	-	-	72.4	-
81-EE-IHUF1502-3232	32	2"	-	-	-	-	65.8	-

## HAMMER UNION FEMALE LUG NUT FIG 1502



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
84-HU-LUG1502-032	-	-	32	3 TPI ACME	-	-	-	-

## HAMMER UNION MALE FIG 1502



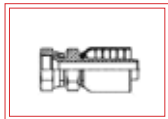
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-IHUM1502-2432	24	1-1/2"	32	3 TPI ACME	-	-	65.8	-
81-EE-IHUM1502-3232	32	2"	32	3 TPI ACME	-	-	66.5	-

## HAMMER UNION SEAL RING NBR TO SUIT FIG 602 / 1002 / 1502



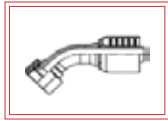
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
84-HU-SRF602-032	-	-	32	-	-	-	-	-

## JIC 37DEG FLARE FEMALE SWIVEL



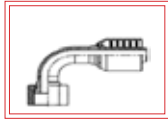
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-JCFX-2424	24	1-1/2"	24	1-7/8"-12	55.0	50	49.4	-
81-EE-JCFX-3232	32	2"	32	2-1/2"-12	70.0	70	65.5	-

## JIC 37DEG FLARE FEMALE 45DEG SWIVEL



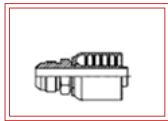
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-JCFX45-2424	24	1-1/2"	24	1-7/8"-12	55.0	-	118.0	43.5
81-EE-JCFX45-3232	32	2"	32	2-1/2"-12	70.0	-	166.1	70.1

## JIC 37DEG FLARE FEMALE 90DEG SWIVEL



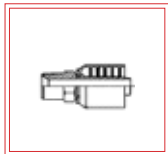
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-JCFX90-2424	24	1-1/2"	24	1-7/8"-12	55.0	-	105.0	92.0
81-EE-JCFX90-3232	32	2"	32	2-1/2"-12	70.0	-	145.0	140.2

## JIC 37DEG FLARE MALE



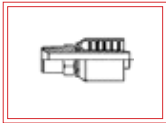
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-JCM-2424	24	1-1/2"	24	1-7/8"-12	50.0	-	57.5	-
81-EE-JCM-3232	32	2"	32	2-1/2"-12	70.0	-	71.8	-

## NPTF MALE



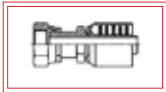
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-NPM-2424	24	1-1/2"	24	1-1/2"-11 1/2	50.0	-	55.5	-
81-EE-NPM-2432	24	1-1/2"	32	2"-11 1/2	70.0	-	Contact	Powell
81-EE-NPM-3232	32	2"	32	2"-11 1/2	70.0	-	64.1	-

## NPTF MALE API



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-NPMAPI-2424	24	1-1/2"	24	1-1/2"-11 1/2	50.0	-	83.0	-
81-EE-NPMAPI-3232	32	2"	32	2"-11 1/2	70.0	-	106.8	-

## ORFS FEMALE SWIVEL



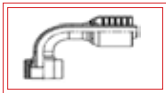
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-OFFX-2424	24	1-1/2"	24	2"-12	60.0	50	62.5	-

## ORFS FEMALE 45DEG SWIVEL



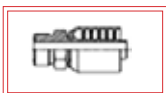
PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-OFFX45-2424	24	1-1/2"	24	2"-12	60.0	-	116.0	37.0

## ORFS FEMALE 90DEG SWIVEL



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-OFFX90-2424	24	1-1/2"	24	2"-12	60.0	-	130.0	96.5

## ORFS MALE



PART NUMBER	HOSE		THREAD		FLANGE	HEX 2	CUT OFF FACTOR	DROP
	DASH SIZE	ID SIZE	DASH SIZE	ID SIZE				
81-EE-OFM-2424	24	1-1/2"	24	2"-12	55.0	-	48.5	-









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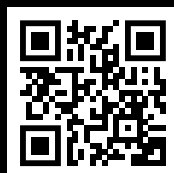
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