



90° ORFS FEMALE FLAT SEAT

REF. ISO 12151-1 / SAE J516

PART NO.		THREAD E	HOSE SIZE		DIMENSIONS				
BRAIDED	SPIRAL		DN	DASH	A	H	C	S2	
24291Y-04-04Z *	-	9/16"X18	6	04	30	41	8.5	17	
24291Y-04-05Z	-	9/16"X18	8	05	30.5	41	8.5	17	
24291Y-06-04TZ	-	11/16"X16	6	04	30	34.5	10	22	
24291Y-06-05TZ	-	11/16"X16	8	05	33	37.5	10	22	
24291Y-06-06Z *	24292Y-06-06Z *	11/16"X16	10	06	35.3	49.3	10	22	
24291Y-06-08Z	24292Y-06-08Z	11/16"X16	12	08	35.8	49.3	10	22	
24291Y-08-06TZ	24292Y-08-06TZ	13/16"X16	10	06	35.3	39.8	11	24	
24291Y-08-08Z *	24292Y-08-08Z *	13/16"X16	12	08	41	57.5	11	24	
24291Y-08-10Z	24292Y-08-10Z	13/16"X16	16	10	56	62	11	24	
24291Y-10-08TZ	24292Y-10-08TZ	1"X14	12	08	41	46	13	30	
24291Y-10-10Z *	24292Y-10-10Z	1"X14	16	10	56	66	13	30	
24291Y-10-12Z	24292Y-10-12Z	1"X14	20	12	57	66	13	30	
24291Y-12-10TZ *	24292Y-12-10TZ	1.3/16"X12	16	10	56	51.5	15	36	
24291Y-12-12Z *	24292Y-12-12Z *	1.3/16"X12	20	12	65.5	77	15	36	
24291Y-12-16Z	24292Y-12-16Z	1.3/16"X12	25	16	76.7	83.5	15	36	
24291Y-16-12TZ	24292Y-16-12TZ	1.7/16"X12	20	12	65.5	63	14.8	41	
24291Y-16-16TZ *	24292Y-16-16Z *	1.7/16"X12	25	16	76.9	67.5	14.8	41	
24291Y-20-16TZ	24292Y-20-16TZ	1.11/16"X12	25	16	76.7	67.5	15	50	
24291Y1-20-20WZ * +	-	1.11/16"X12	32	20	93	100	15	50	
24291Y-20-20WZ * ++	24292Y-20-20WZ	1.11/16"X12	32	20	93/95.6	100	15	50	
24291Y1-24-20TZ +	-	2"X12	32	20	93	78.5/81.1	14.8	60	
24291Y-24-20TZ ++	24292Y-24-20TZ	2"X12	32	20	93/95.6	78.5/81.1	14.8	60	
24291Y-24-24TZ	24292Y-24-24TZ	2"X12	40	24	109.4/112.4	92/95	14.8	60	
ISO 12151-1 SHORT ELBOW (ES)									
24291Y-04-04H21Z	-	9/16"X18	6	04	31.5	21	8.5	17	
24291Y-04-05H21Z	-	9/16"X18	8	05	31.5	21	8.5	17	
24291Y-06-04H23TZ	-	11/16"X16	6	04	31.5	23	10	22	
24291Y-06-05H23TZ	-	11/16"X16	8	05	31.5	23	10	22	
24291Y-06-06H23Z	24292Y-06-06H23Z	11/16"X16	10	06	34.5	23	10	22	
24291Y-06-08H23Z	24292Y-06-08H23Z	11/16"X16	12	08	41.4	23	10	22	
24291Y-08-06H29TZ	24292Y-08-06H29TZ	13/16"X16	10	06	36	29	11	24	
24291Y-08-08H29Z	24292Y-08-08H29Z	13/16"X16	12	08	41.5	29	11	24	
24291Y-08-10H29Z	24292Y-08-10H29Z	13/16"X16	16	10	52.7	29	11	24	
24291Y-10-08H32TZ	24292Y-10-08H32TZ	1"X14	12	08	42.5	32	13	30	
24291Y-10-10H32Z	24292Y-10-10H32Z	1"X14	16	10	49.5	32	13	30	
24291Y-10-12H32Z	24292Y-10-12H32Z	1"X14	20	12	52.3	32	13	30	
24291Y-12-10H48TZ	24292Y-12-10H48TZ	1.3/16"X12	16	10	56	48	15	36	
24291Y-12-12H48Z	24292Y-12-12H48Z	1.3/16"X12	20	12	67.5	48	15	36	
24291Y-16-12H56TZ	24292Y-16-12H56TZ	1.7/16"X12	20	12	65.5	56	14.8	41	
24291Y-16-16H56TZ	24292Y-16-16H56TZ	1.7/16"X12	25	16	72.8	56	14.8	41	
24291Y-20-16H64TZ	24292Y-20-16H64TZ	1.11/16"X12	25	16	76.7	64	15	50	
24291Y1-20-20H64WZ +	-	1.11/16"X12	32	20	89.7	64	15	50	
24291Y-20-20H64WZ ++	24292Y-20-20H64WZ	1.11/16"X12	32	20	89.7/92.3	64	15	50	
ISO 12151-1 MEDIUM ELBOW (EM)									
24291Y-04-04H32Z	-	9/16"X18	6	04	31.5	32	8.5	17	
24291Y-04-05H32Z	-	9/16"X18	8	05	31.5	32	8.5	17	
24291Y-06-04H38TZ	-	11/16"X16	6	04	31.5	38	10	22	
24291Y-06-05H38TZ	-	11/16"X16	8	05	31.5	38	10	22	
24291Y-06-06H38Z	24292Y-06-06H38Z	11/16"X16	10	06	34.5	38	10	22	
24291Y-08-06H41TZ	24292Y-08-06H41TZ	13/16"X16	10	06	36	41	11	24	
24291Y-08-08H41Z	24292Y-08-08H41Z	13/16"X16	12	08	41.5	41	11	24	

24291Y-10-08H47TZ	24292Y-10-08H47TZ	1"X14	12	08		41	47	13	30
24291Y-10-10H47Z	24292Y-10-10H47Z	1"X14	16	10		49.5	47	13	30
24291Y-12-10H58TZ	24292Y-12-10H58TZ	1.3/16"X12	16	10		56	58	15	36
24291Y-12-12H58Z	24292Y-12-12H58Z	1.3/16"X12	20	12		67.5	58	15	36
24291Y-16-12H71TZ	24292Y-16-12H71TZ	1.7/16"X12	20	12		65.5	71	14.8	41
24291Y-16-16H71TZ	24292Y-16-16H71TZ	1.7/16"X12	25	16		72.8	71	14.8	41
24291Y-20-16H78TZ	24292Y-20-16H78TZ	1.11/16"X12	25	16		76.7	78	15	50
24291Y1-20-20H78WZ +	-	1.11/16"X12	32	20		89.7	78	15	50
24291Y-20-20H78WZ ++	24292Y-20-20H78WZ	1.11/16"X12	32	20		89.7/92.3	78	15	50
ISO 12151-1 LONG ELBOW (EL)									
24291Y-04-04H46Z	-	9/16"X18	6	04		30	46	8.5	17
24291Y-04-05H46Z	-	9/16"X18	8	05		30.5	46	8.5	17
24291Y-06-04H54TZ	-	11/16"X16	6	04		30	54	10	22
24291Y-06-05H54TZ	-	11/16"X16	8	05		33	54	10	22
24291Y-06-06H54Z	24292Y-06-06H54Z	11/16"X16	10	06		35.3	54	10	22
24291Y-08-06H64TZ	24292Y-08-06H64TZ	13/16"X16	10	06		35.3	64	11	24
24291Y-08-08H64Z	24292Y-08-08H64Z	13/16"X16	12	08		41	64	11	24
24291Y-10-08H70TZ	24292Y-10-08H70TZ	1"X14	12	08		41	70	13	30
24291Y-10-10H70Z	24292Y-10-10H70Z	1"X14	16	10		56	70	13	30
24291Y-12-10H96TZ	24292Y-12-10H96TZ	1.3/16"X12	16	10		56	96	15	36
24291Y-12-12H96Z	24292Y-12-12H96Z	1.3/16"X12	20	12		65.5	96	15	36
24291Y-16-12H114TZ	24292Y-16-12H114TZ	1.7/16"X12	20	12		65.5	114	14.8	41
24291Y-16-16H114TZ	24292Y-16-16H114TZ	1.7/16"X12	25	16		76.9	114	14.8	41
24291Y-20-16H129TZ	24292Y-20-16H129TZ	1.11/16"X12	25	16		76.7	129	15	50
24291Y1-20-20H129WZ +	-	1.11/16"X12	32	20		93	129	15	50
24291Y-20-20H129WZ ++	24292Y-20-20H129WZ	1.11/16"X12	32	20		93/95.6	129	15	50

1. The dimension A before "/" is for braided hose fitting and after "/" is for spiral hose fitting.

2. Part no. marked with "*" is recommended.

3. Marked with "+" design for GH781, GH663, FC686, EC110, EC881 hose, Marked with "++" design for GH793, EC210, EC215 hose.

4. The recommended match hoses for 1 piece braided fittings are : FC687/EC115-16 and smaller sizes; GH663/EC881-20 and smaller sizes; FC686/EC210/EC215/GH781-24 and smaller sizes; EC110/GH793 whole sizes etc. and with non-skive crimping. For 1 piece spiral fittings are: 2755/GH493/EC640/GH425-16 and smaller sizes; GH506/EC512-12 and larger sizes with skive crimping.

5. Material options for fitting.

Fitting material	Part. No. suffix	Part No. example
Carbon steel (Default)	Z/TZ/WZ	24291Y-08-08Z
304 stainless steel	SR/SRT/SRW	24291Y-08-08SR
316L stainless steel	SV/SVT/SVW	24291Y-08-08SV
316Ti stainless steel	SY/SYT/SYW	24291Y-08-08SY

6. Plating options and performance for carbon steel fittings.

Plating method	Part. No. suffix	Part No. example	White rust (Hours)	Red rust (Hours)
Cr3+ plating (Default)	Z	24291Y-08-08Z	96	360
Durakote plating	ZD	24291Y-08-08ZD	360	720
Zinc-nickel plating	ZN	24291Y-08-08ZN	1000	-