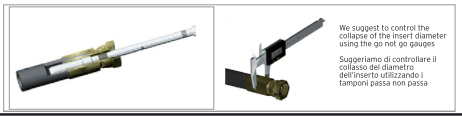
MS HYDRAULICS
Stainless Steel Fittings

Mark Heffernan

Hose Type / Bore ins DN	SAE 100 R1AT EN 853 1SN	SAE 100 R1AT EN 853 1SN OneGG	SAE 100 R2AT EN 853 2SN OneGG	SAE 100 R16 (compact 2 wire) EN 857 2SC OneGG	SAE 100 R17 UP TO DN10 EN 857 1SC	EN 854 2TE	EN 854 R3	EN 854 3TE	SAE 100 R6 EN 854	SAE 100 R7 EN 855	SAE 100 R8 EN 855	SAE 100 R1 MTH1 SERIES	SAE 100 R1A EN 853 1ST	SAE 100 R2A EN 853 2ST OneGG	PTFE INOX *LIGHT WALL*	PTFE INOX *MEDIUM WALL*	PTFE INOX *HEAVY WALL*	PTFE INOX *DOUBLE BRAID*	PTFE INOX *CONVOL. SERIES*	EN 856 4SP OneGG	EN 856 4SH OneGG	SAE 100 R15 OneGG	EN 856 4SH	SAE 100 R12	SAE 100 R13	SAE 100 R15
																								Solo per raccordi Interlock *Only with Interlock fittings*			
	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	SKIVE	SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	NO SKIVE	SKIVE	SKIVE	SKIVE	DOUBLE SKIVING	DOUBLE SKIVING	DOUBLE SKIVING	DOUBLE SKIVING
1/8" 3										FR7-02 9,7	FR7-02 9,5				FRTE-02 9,3	FRTE-02 9,4	FRTE-02 9,4									
3/16" 5	FR1T-03 16,1	FR1T-03 16,1	FR2T-03 16,1				FR3TE-03 14,6	FR3TE-03	FR7-03	FR7-03 11,7	FR7-03 11,7	FR7-03 12,1	FR1A-03 15,2 19,0		FRTE-03 10,0	FRTE-03 10,1	FRTE-03 10,1	FR7-03 10,8								
1/4" 6	FR1-04 16,6	ONEGC-04 17,8	ONEGC-04 17,9	ONEGC-04 17,5	FR1-04 16,5	FR1-04 17,1	FR3TE-04 16,8	FR3TE-04	FR7-04 14,5	FR7-04 13,8	FR7-04 13,9	FR7-04 13,5	FR1-04 16,4 21,0	ONEGC-04 17,7 21,5	FRTE-04 11,4	FRTE-04 11,6	FRTE-04 11,6	FRTC-04 12,8	FRTC-04 13,0	ONEGC-04 18,4 21,5						
5/16" 8	FR1-05 18,0	ONEGC-05 19,5	ONEGC-05 20,3	ONEGC-05 19,5	FR1-05 18,0	FR1-05 18,0	FR3TE-05 18,4	FR3TE-05	FR7-05	FR7-05 16,1	FR7-05	FR7-05 16,0	FR1-05 16,8 19,5	ONEGC-05 19,2 21,5	FRTE-05 13,9	FRTE-05 13,9	FRTE-05 14,4	FR7-05 14,8	FRTC-05 14,0	ONEGC-05 21,5						
3/8" 10	FR1-06 20,8	ONEGC-06 21,6	ONEGC-06 22,3	ONEGC-06 21,3	FR1-06 19,8	FR1-06 20,8	FR3TE-06 21,0	FR3TE-06 20,2	FR7-06 18,5	FR7-06 18,3	FR7-06 17,5	FR7-06 18,2	FR1-06 20,4 22,0	ONEGC-06 21,5 21,5	FRTE-06 15,3	FRTE-06 15,3	FRTE-06 15,6	FR7-06 16,5	FRTC-06 16,3	ONEGC-06 22,4 21,5						
1/2" 12	FR1-08 24,0	ONEGC-08 25,1	ONEGC-08 25,8	ONEGC-08 24,5	FR1-08 23,0	FR1-08 24,4	FR3TE-08 25,5	FR3TE-08 23,7	FR7-08 22,5	FR7-08 22,8	FR7-08 21,9	FR7-08 21,2	FR1-08 23,3 24,5	ONEGC-08 24,8 23,5	FRTE-08 18,9	FRTE-08 19,2	FRTE-08 19,3	FR7-08 20,0	FRTC-08 19,6	ONEGC-08 25,7 23,5						
5/8" 16	FR1-10 28,0	ONEGC-10 28,3	ONEGC-10 29,4	ONEGC-10 27,8	FR1-10 27,5	FR1-10 28,5	FR3TE-10 29,7	FR3TE-10	FR7-10	FR7-10 25,6	FR7-10 25,3	FR7-10	FR1-10 27,1 27,0	ONEGC-10 28,0 28,0	FRTE-10 24,0	FRTE-10 24,4	FRTE-10 25,0	FR7-10 23,5	FRTC-10 23,7	ONEGC-10 29,4 28,0						
3/4" 19	FR1-12 30,7	ONEGC-12 32,2	ONEGC-12 33,4	ONEGC-12 32,5	FR1-12 30,0	FR1-12 30,4	FR3TE-12 33,2	FR3TE-12 32,5	FR7-12	FR7-12 29,0	FR7-12 28,5	FR7-12 28,0	FR1-12 29,5 30,5	ONEGC-12 32,8 31,0	FRTE-12 26,3	FRTE-12 26,2	FRTE-12 27,3	FR7-12 26,6	FRTC-12 27,5	ONEGC-12 33,8 31,0	ONEGC-12 33,6 31,0	ONEGC-12 33,6 31,0	FR4SH-12 33,0 52,0 15,0		FR4SH-12 34,1 52,0 15,0	FR4SH-12 33,0 52,0 15,0
1" 25	FR1-16 39,9	ONEGC-16 39,3	ONEGC16 40,5	ONEGC16 38,5	FR1-16 38,4	FR1-16 39,0	FR3TE-16 40,5	FR3TE-16 40,7	FR7-16	FR7-16 38,5	FR7-16 40,0	FR7-16 38,0	FR1-16 39,0 39,0	ONEGC-16 39,4 35,0	FRTE-16 33,8	FRTE-16 34,1	FRTE-16 34,5	FR7-16 -	FRTC-16 34,5	ONEGC-16 40,2 35,0	ONEGC-16 40,2 35,0	ONEGC-16 40,2 35,0	FR4SH-16 41,2 64,0 17,0		FR4SH-16 41,5 64,0 17,0	FR4SH-16 41,5 64,0 17,0
1.1/4" 31	FR1-20 49,7	ONEGC-20 51,7	ONEGC-20 53,2	ONEGC-20 49,7	FR1-20		FR3TE-20 46,2	FR3TE-20 47,1					FR1-20 49,0 39,5	ONEGC-20 52,7 40,5					FRTC-20 41,5	ONEGC-20 52,4 40,5	ONEGC-20 49,7 40,5	ONEGC-20 40,5	FR4SH-20 50,5 74,0 22,0		FR13-20 54,2 74,0 22,0	FR13-20 54,2 74,0 22,0
1.1/2" 38	FR1-24 54,5	ONEGC-24 54,9	ONEGC-24 57,1	ONEGC-24	FR1-24								FR1-24 53,4 46,5	ONEGC-24 56,5 48,0					FRTC-24 48,3	ONEGC-24 56,5 48,0	ONEGC-24 55,8 48,0	ONEGC-24 48,0	FR4SH-24 56,8 74,0 22,5		FR13-24 60,5 74,0 22,5	FR13-24 60,5 74,0 22,5
2" 51	FR1-32 70,4	ONEGC-32 70,0	ONEGC-32 72,3	ONEGC-32	FR1-32								FR1-32 68,2 62,0	ONEGC-32 70,6 57,0					FRTC-32 61,0	ONEGC-32 70,5 57,0	ONEGC-32 70,5 57,0	ONEGC-32 57,0	FR4SH-32 72,7 85,0 30,0		FR13-32 77,9 85,0 30,0	FR13-32 77,9 85,0 30,0
2.1/2" 60				FR1-40 80,0	FR1-40 77,5																					
3" 80				FR1-48 96,0	FR1-48 94,3																					

Part. No	Codice	
Swaging diameter	Diametro di pressatura in mm.	tolerance + 0 / - 0,2
External skiving lenght	Lunghezza di sbucciatura in mm.	tolerance + 1 / - 0,5
Internal skiving lenght	Lunghezza di alesatura in mm.	tolerance + 0,5 / - 0,2

I dati forniti nella seguente tabella sono forniti a titolo indicativo e possono variare senza preavviso. Edizione novembre 2013.
These diameters are indicative because of the great tolerance on hoses diameters; they are subject to change without notice. Ed.nov.2013.



We suggest to control the collapse of the insert diameter using the go not go gauges

Suggeriamo di controllare il collasso del diametro dell'inserto utilizzando i tamponi passa non passa

Note for PTFE Hoses:

I diametri di pressatura dei tubi PTFE corrugati sono relativi ai collaudi effettuati sui tubi in nostro possesso. Pertanto questi diametri possono cambiare in base alle tolleranze dei diversi tubi. Per i diametri di pressatura sui tubi corrugati da 1 1/4" 1 1/2" e 2" si raccomanda di controllare tutti gli assemblaggi. Per il tubo corrugato si consiglia di avvolgere il raccordo nella sua lunghezza con 2 giri di nastro PTFE prima dell'inserimento nel tubo.

Swaging diameters for convoluted PTFE are according to tests made on our suppliers hoses. Therefore, these diameters can change, depending on the hose and on the manufacturer. For 1"1/4, 1"1/2 and 2" swaging diameters, it is recommended to check all assemblies. Fittings crimped on PTFE convoluted hoses need to be wrapped in PTFE tape, giving a continuos lining.