



# THREAD SPECIFICATION

SAE

## SAE is Society of Automotive Engineers

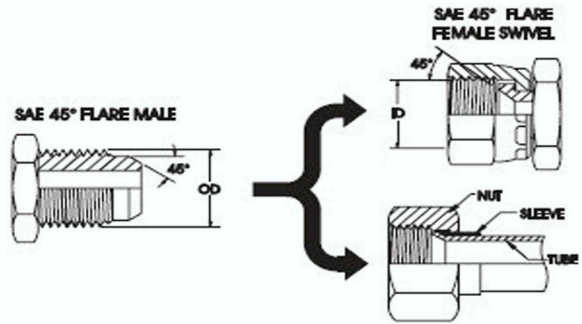
These fittings are commonly used in refrigeration, automotive and low pressure applications.

### SAE 45° Flare - SAE J512

SAE male has 45° flare which seals against 45° seat in female. Male can also seal against 45° flared tubing with nut and sleeve.

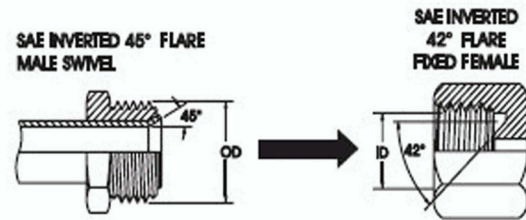
7/16 - 20, 1/2 - 20, 3/4 - 16 & 7/8 - 14 are the same thread form as JIC 37° flare. Some fittings in these sizes have both JIC 37° & SAE 45° seats.

MALE THREAD OD & PITCH	DASH SIZE	MALE THREAD OD		FEMALE THREAD ID		TUBE SIZE
		mm	inch	mm	inch	
5/16 - 24	-05	7,9	0.31	6,8	0.27	1/8
3/8 - 24	-06	9,5	0.38	8,4	0.33	3/16
7/16 - 20	-07	11,1	0.44	9,9	0.39	1/4
1/2 - 20	-08	12,7	0.50	11,4	0.44	5/16
5/8 - 18	-10	15,9	0.63	14,2	0.56	3/8
3/4 - 16	-12	19,1	0.75	17,5	0.69	1/2
7/8 - 14	-14	22,2	0.88	20,6	0.81	5/8
1 1/16 - 14	-17	27,0	1.06	24,9	0.98	3/4



### SAE 45° Inverted Flare - SAE J512

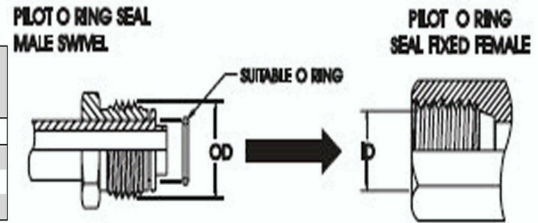
MALE THREAD OD & PITCH	DASH SIZE	MALE THREAD OD		FEMALE THREAD ID		TUBE SIZE
		mm	inch	mm	inch	
7/16 - 24	-07	11,1	0.44	9,9	0.39	1/4
1/2 - 20	-08	12,7	0.50	11,4	0.45	5/16
5/8 - 18	-10	15,9	0.63	14,2	0.56	3/8
1 1/16 - 18	-11	17,5	0.69	16,0	0.63	7/16



### SAE Pilot O Ring Seals

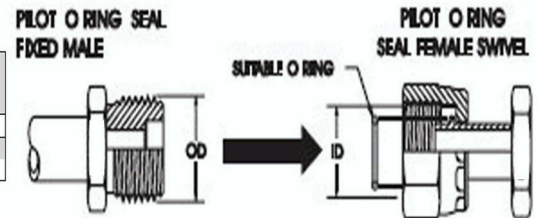
#### Pilot Male Swivel

MALE THREAD OD & PITCH	DASH SIZE	MALE THREAD OD		FEMALE THREAD ID		TUBE SIZE
		mm	inch	mm	inch	
5/8 - 18	-10	15,9	0.63	14,2	0.56	-6
3/4 - 18	-12	19,0	0.75	17,8	0.70	-8
7/8 - 18	-14	22,2	0.88	20,6	0.81	-10



#### Pilot Female Swivel

MALE THREAD OD & PITCH	DASH SIZE	MALE THREAD OD		FEMALE THREAD ID		TUBE SIZE
		mm	inch	mm	inch	
5/8 - 18	-10	15,9	0.63	14,2	0.56	-6
3/4 - 16	-12	19,0	0.75	17,5	0.69	-8



1 2 3 4 5

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