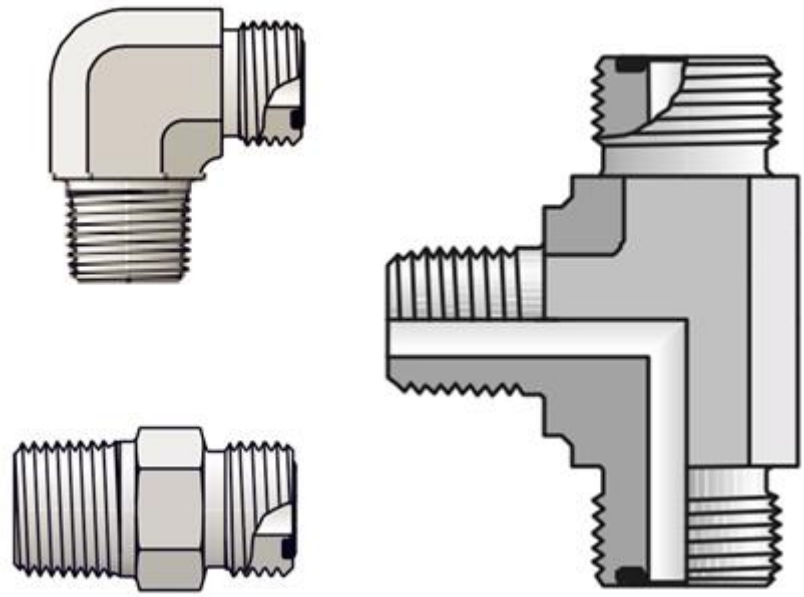
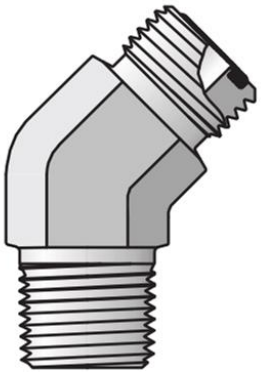
ORFS NPT Stud Fitting/NPTF Stud Connector



From O-ring Face Tube End to NPT Stud Fittings



NPT Stud Sealing Standards:

NPT male stud standard of ANSI B1.20.1.1-1983

NPTF male stud standard of SAE J476A

Types of ORFS to NPT Stud Fittings

FLO 1FN ORFS NPTF Straight Fittings SAE 520120

VLO 1FN4 ORFS NPTF E45 Elbow Fittings

CLO/1FN9 ORFS NPTF Elbow Fittings SAE 521520

SLO / AFNF ORFS ORFS NPT Branch Tee Fittings SAE 520425

F6L /2NF ORFS Female Swivel NPTF Straight Fittings

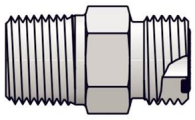
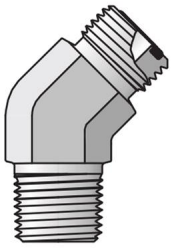
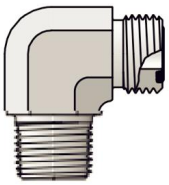
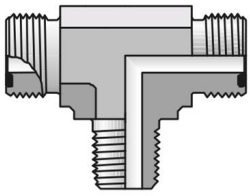
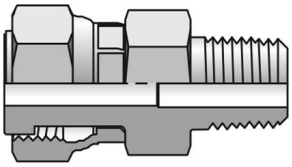
FITSCH

ORFS Male NPT Stud Fittings Introduction

This male stud connector is from ORFS O-ring Face Seal Tube end to NPT stud ends, ANSI B1.20.1-1983 NPT taper thread sealing by fluid or plastic sealing material, SAE J476A NPTF taper thread sealing by closer tolerance are held to assure metal to metal contact dryseal thread.. NPT will be matched with ANSI B1.20.1-1983 threads port, NPTF will be matched with SAE J476A ANSI B1.20.3. It is mainly used in north America and others.

Overview catalogue Of ORFS Male NPT Stud Fittings Connectors

ORFS male NPT stud fitting is made of these shapes(Parker-Eaton series no), from hex bar or forging body as follows:

FLO/ 1FN	VLO/1FN4	CLO/1FN9
		
SLO / AFNF	**F6L /2NF**	
		

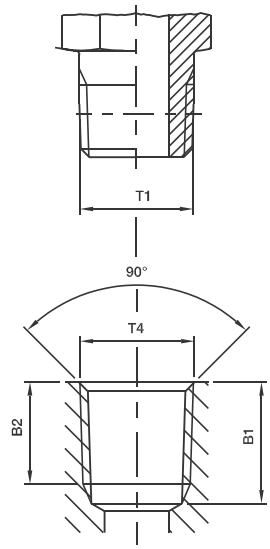
FLO 1FN ORFS NPTF Straight Fittings SAE 520120
VLO 1FN4 ORFS NPTF E45 Elbow Fittings
CLO/1FN9 ORFS NPTF Elbow Fittings SAE 521520
SLO / AFNF ORFS ORFS NPT Branch Tee Fittings SAE 520425
F6L /2NF ORFS Female Swivel NPTF Straight Fittings

Dimensions Of ORFS Male NPT Stud Fittings

Male stud NPT/F Sealing:

American Standard Taper Pipe Thread NPT ANSI/ASME B 1.20.1-1983;

Dryseal American Standard Taper Pipe Thread NPTF SAE J476, ANSI/ASME B 1.20.3-1976



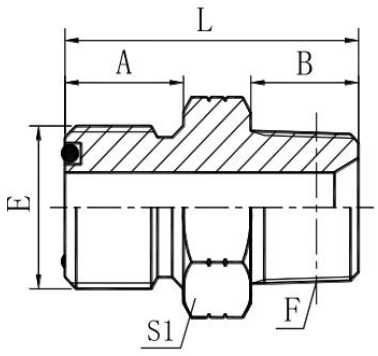
Thread T1	B1 min.	B2 min.
1/8-27 NPT/F	11.6	6.9
1/4-18 NPT/F	16.4	10
3/8-18 NPT/F	17.4	10.3
1/2-14 NPT/F	22.6	13.6
3/4-14 NPT/F	23.1	14.1
1-11.5 NPT/F	27.8	16.8
11/4-11.5 NPT/F	28.3	17.3
11/2-11.5 NPT/F	28.3	17.3

Port NPT/F (taper): NPT ANSI/ASME B 1.20.1-1983; NPTF ANSI/ASME B 1.20.3-1976

ORFS NPT MALE STUD FITTING CATALOG

1FN FLO ORFS NPTF Straight Fittings SAE 520120

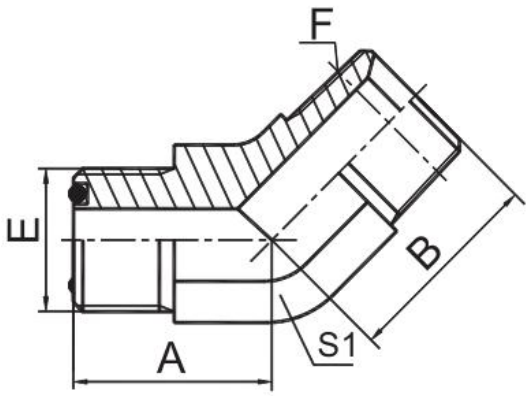
ORFS tube end to NPT thread, meet ISO 8434-2/ SAE J1453



PART NO.	THREAD		O-RING	DIMENSIONS			
	E	F	E	A	B	L	S1
1FN-04-02Z	9/16"X18	Z1/8"X27	O011	10	10.5	26.5	17
1FN-04Z	9/16"X18	Z1/4"X18	O011	10	15	30.5	17
1FN-04-06Z	9/16"X18	Z3/8"X18	O011	10	16	30.5	19
1FN-06-04Z	11/16"X16	Z1/4"X18	O012	11	15	32	19
1FN-06Z	11/16"X16	Z3/8"X18	O012	11.2	16	33.5	19
1FN-06-08Z	11/16"X16	Z1/2"X14	O012	11.2	19.5	39	24
1FN-08-04Z	13/16"X16	Z1/4"X18	O014	13	15	36	22
1FN-08-06Z	13/16"X16	Z3/8"X18	O014	13	16	36.5	22
1FN-08Z	13/16"X16	Z1/2"X14	O014	13	19.5	40	24
1FN-08-12Z	13/16"X16	Z3/4"X14	O014	13	19.5	42.5	30
1FN-10-08Z	1"X14	Z1/2"X14	O016	15.5	19.5	45	27
1FN-10-12Z	1"X14	Z3/4"X14	O016	15.5	19.5	45	30
1FN-12-08Z	1.3/16"X12	Z1/2"X14	O018	17	19.5	46.5	32
1FN-12Z	1.3/16"X12	Z3/4"X14	O018	17	19.5	49	32
1FN-12-16Z	1.3/16"X12	Z1"X11.5	O018	17	25.5	53.5	36
1FN-16-12Z	1.7/16"X12	Z3/4"X14	O021	17.5	19.5	48	38
1FN-16Z	1.7/16"X12	Z1"X11.5	O021	17.5	25.5	53.5	38
1FN-16-20Z	1.7/16"X12	Z1.1/4"X11.5	O021	17.5	26.5	57	46
1FN-20-16Z	1.11/16"X12	Z1"X11.5	O025	17.5	25.5	56	46
1FN-20Z	1.11/16"X12	Z1.1/4"X11.5	O025	17.5	26.5	56.5	46
1FN-20-24Z	1.11/16"X12	Z1.1/2"X11.5	O025	17.5	27.5	60	50
1FN-24Z	2"X12	Z1.1/2"X11.5	O029	17.5	27.5	59.5	55

VLO 1FN4 ORFS NPTF E45 Elbow Fittings

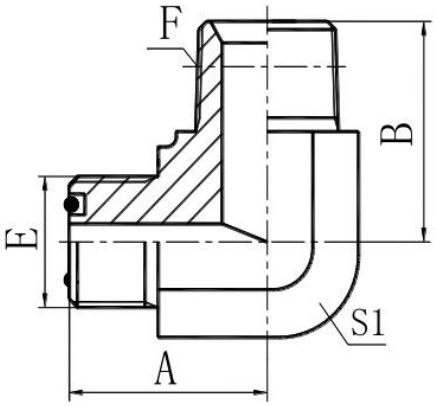
ORFS tube end to NPT thread, meet ISO 8434-2/ SAE J1453



PART NO.	THREAD		O-RING	DIMENSIONS		
	E	F	E	A	B	S1
1FN4-04-02	9/16"X18	Z1/8"X27	O011	18.3	18	14
1FN4-04	9/16"X18	Z1/4"X18	O011	18.3	21	14
1FN4-04-06	9/16"X18	Z3/8"X18	O011	19.5	25	19
1FN4-06-04	11/16"X16	Z1/4"X18	O012	20.5	22	19
1FN4-06	11/16"X16	Z3/8"X18	O012	20.5	25	19
1FN4-06-08	11/16"X16	Z1/2"X14	O012	22	29.5	22
1FN4-08-06	13/16"X16	Z3/8"X18	O014	24	26	22
1FN4-08	13/16"X16	Z1/2"X14	O014	24	29.5	22
1FN4-10-08	1"X14	Z1/2"X14	O016	28	31	27
1FN4-12	1.3/16"X12	Z3/4"X14	O018	30.7	35.5	30
1FN4-16	1.7/16"X12	Z1"X11.5	O021	33	40	36
1FN4-20	1.11/16"X12	Z1.1/4"X11.5	O025	35.5	42.5	41
1FN4-24	2"X12	Z1.1/2"X11.5	O029	39	46.5	50

CLO 1FN9 ORFS NPTF Elbow Fittings SAE 521520

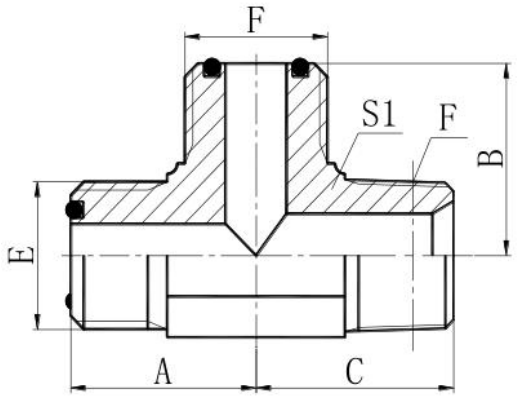
ORFS tube end to NPT thread, meet ISO 8434-2/ SAE J1453



PART NO.	THREAD		O-RING	DIMENSIONS		
	E	F	E	A	B	S1
1FN9-04-02Z	9/16X18	Z1/8"X27	O011	23	24	14
1FN9-04Z	9/16X18	Z1/4"X18	O011	23	25.5	14
1FN9-06-04Z	11/16"X16	Z1/4"X18	O012	27	28.5	19
1FN9-06Z	11/16"X16	Z3/8"X18	O012	27.5	31	19
1FN9-06-08Z	11/16"X16	Z1/2"X14	O012	29	36.7	22
1FN9-08-06Z	13/16"X16	Z3/8"X18	O014	31	33.5	22
1FN9-08Z	13/16"X16	Z1/2"X14	O014	29	35.6	22
1FN9-08-12Z	13/16"X16	Z3/4"X14	O014	34.5	44	27
1FN9-10-08Z	1"X14	Z1/2"X14	O016	36.5	40	27
1FN9-10-12Z	1"X14	Z3/4"X14	O016	36.5	44	27
1FN9-12-08Z	1.3/16"X12	Z1/2"X14	O018	40.3	41.5	30
1FN9-12Z	1.3/16"X12	Z3/4"X14	O018	41	45.5	30
1FN9-12-16Z	1.3/16"X12	Z1"X11.5	O018	43	50	33
1FN9-16-12Z	1.7/16"X12	Z3/4"X14	O021	44.5	49	36
1FN9-16Z	1.7/16"X12	Z1"X11.5	O021	44.5	51.5	36
1FN9-20-16Z	1.11/16"X12	Z1"X11.5	O025	47.5	54.5	41
1FN9-20Z	1.11/16"X12	Z1.1/4"X11.5	O025	47.5	54.5	41
1FN9-24Z	2"X12	Z1.1/2"X11.5	O029	53.5	58.7	50

AFFN RLO ORFS ORFS NPT Run Tee Fittings

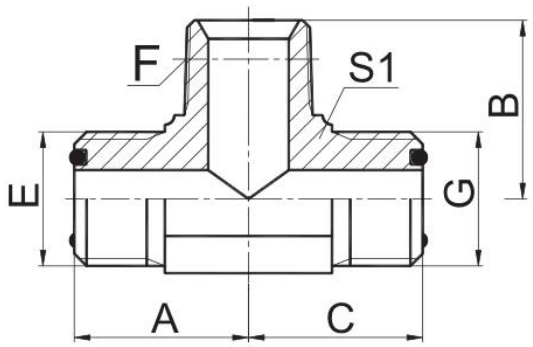
ORFS tube end to NPT thread, meet ISO 8434-2/ SAE J1453



PART NO.	THREAD			O-RING		DIMENSIONS			
	E	F	G	E	F	A	B	C	S1
AFFN-04Z	9/16"X18	9/16"X18	Z1/4"X18	O011	O011	23	23	25.5	14
AFFN-06-06-04Z	11/16"X16	11/16"X16	Z1/4"X18	O012	O012	27.5	27.5	28.5	19
AFFN-06Z	11/16"X16	11/16"X16	Z3/8"X18	O012	O012	27	27	31	19
AFFN-08-08-06Z	13/16"X16	13/16"X16	Z3/8"X18	O014	O014	31	31	33.5	22
AFFN-08Z	13/16"X16	13/16"X16	Z1/2"X14	O014	O014	31	31	36.5	22
AFFN-10-10-08Z	1"X14	1"X14	Z1/2"X14	O016	O016	36.5	36.5	40	27
AFFN-12-12-08Z	1.3/16"X12	1.3/16"X12	Z1/2"X14	O018	O018	41	41	41.5	30
AFFN-12Z	1.3/16"X12	1.3/16"X12	Z3/4"X14	O018	O018	40.5	40.5	45	30
AFFN-16Z	1.7/16"X12	1.7/16"X12	Z1"X11.5	O021	O021	44.5	44.5	51.5	36
AFFN-20Z	1.11/16"X12	1.11/16"X12	Z1.1/4"X11.5	O025	O025	47.5	47.5	54.5	41
AFFN-24Z	2"X12	2"X12	Z1.1/2"X11.5	O029	O029	53.5	53.5	61	50

AFNF SLO ORFS ORFS NPT Branch Tee Fittings SAE 520425

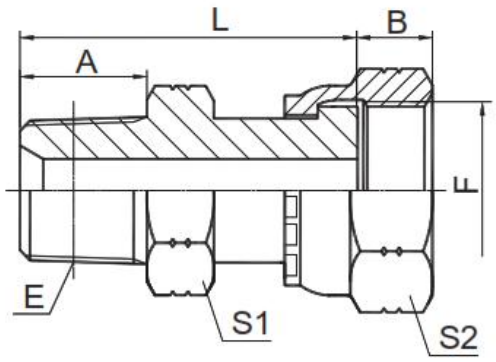
ORFS tube end to NPT thread, meet ISO 8434-2/ SAE J1453



PART NO.	THREAD			O-RING		DIMENSIONS			
	E	F	G	E	G	A	B	C	S1
AFNF-04	9/16"X18	Z1/4"X18	9/16"X18	O011	O011	23	25.5	23	14
AFNF-06	11/16"X16	Z3/8"X18	11/16"X16	O012	O012	27	31	27	19
AFNF-06-06-08	11/16"X16	Z3/8"X18	13/16"X16	O012	O014	29	33.5	31	22
AFNF-06-08-08	11/16"X16	Z1/2"X14	13/16"X16	O012	O014	29	36.7	31	22
AFNF-06-08-06	11/16"X16	Z1/2"X14	11/16"X16	O012	O012	29	36.7	29	22
AFNF-08-06-08	13/16"X16	Z3/8"X18	13/16"X16	O014	O014	31	33.5	31	22
AFNF-10-08-10	1"X14	Z1/2"X14	1"X14	O016	O016	36.5	40	36.5	27
AFNF-12	1.3/16"X12	Z3/4"X14	1.3/16"X12	O018	O018	40.3	45.5	40.3	30
AFNF-16	1.7/16"X12	Z1"X11.5	1.7/16"X12	O021	O021	44.5	51.5	44.5	36
AFNF-20	1.11/16"X12	Z1.1/4"X11.5	1.11/16"X12	O025	O025	47.5	53	47.5	41
AFNF-24	2"X12	Z1.1/2"X11.5	2"X12	O029	O029	53.5	64.5	53.5	50

F6L 2NF ORFS Female Swivel NPTF Straight Fittings

ORFS Female Swivel end to NPT thread, meet ISO 8434-2/ SAE J1453



PART NO.	THREAD		DIMENSIONS				
	E	F	A	B	L	S1	S2
2NF-02-04	Z1/8"X27	9/16"X18	10.5	8.5	32	14	19
2NF-04	Z1/4"X18	9/16"X18	15	8.5	36.5	17	19
2NF-04-06	Z1/4"X18	11/16"X16	15	10	39.5	17	22
2NF-06	Z3/8"X18	11/16"X16	16	10	40.5	19	22
2NF-06-08	Z3/8"X18	13/16"X16	16	11	42.5	19	27
2NF-08	Z1/2"X14	13/16"X16	19.5	11	48	22	27
2NF-08-10	Z1/2"X14	1"X14	19.5	13	52	24	30
2NF-12	Z3/4"X14	1.3/16"X12	19.5	15	55.5	30	36
2NF-12-16	Z3/4"X14	1.7/16"X12	19.5	15	58.5	36	41
2NF-16	Z1"X11.5	1.7/16"X12	25.5	15	64.5	36	41
2NF-16-20	Z1"X11.5	1.11/16"X12	25.5	15	66	41	50
2NF-20	Z1.1/4"X11.5	1.11/16"X12	26.5	15	67	46	50
2NF-24	Z1.1/2"X11.5	2"X12	27.5	15	72.5	50	60