

*Make it Happen!!*

[www.fluidco.co.za](http://www.fluidco.co.za)



# Steel Adaptors Catalogue

# FLUIDCO

## HYDRAULIC SYSTEMS



**THV** | The  
Hose  
Van

[www.thehosevan.co.za](http://www.thehosevan.co.za)

# Fluidco Hydraulics Systems - Steel Adaptor Catalogue - Page Index

DESCRIPTION	PG NR
NPT Hex Head Plug	1
NPT Hollow Head Plug	1
Male Blanking Plugs - BSP - Hex Head	1
Male Blanking Plugs - BSP - In Hex	2
BSP Female Swivel Blank-Off Cap	2
JIC Hex Head Plug	2
JIC Bulkhead Nut	3
JIC Triple Tube Nut End	3
JIC Flare Tube End Sleeve	3
JIC Female - SAE Cap	4
ORFS Male Hex Plug	4
ORFS Female Cap	4
SAE Male Hex Head Plug	4&5
SAE Male Hollow Hex Plug	5
Metric Male ED Blanking Plug	5
NPT Male - NPT Male 90° Elbow	6
NPT Male - NPT Male Straight	6
NPT Male - NPT Female Reducer 90°	7
NPT Male - NPT Female Reducing Bush	7&8
NPT Male - NPT Female Swivel 45° Elbow	8
NPT Male - NPT Female Swivel 90° Elbow	8&9
NPT Male - NPT Female Swivel Straight	9
NPT Male - JIC Male 45° Elbow	10
NPT Male - JIC Male 90° Elbow	10&11
NPT Male - JIC Male Straight	11&12
NPT Male - JIC Female Swivel 90° Elbow	12
NPT Male - JIC Female Swivel Straight	12&13
NPT Male - ORFS Male Straight	13
NPT Male (BSPTM) - Komatsu Male	13
NPT Female - NPT Male (FMF) Branch Tee	14
NPT Female - NPT Male (FFM) Run Tee	14
NPT Female - NPT Female 45° Elbow	14
NPT Female - NPT Female 90° Elbow	14
NPT Fixed Female Coupling	15
NPT Female All Round Tee	15
NPT Female Cross Piece	15
NPT Female Fixed - NPT Female Swivel 90°	16
NPT Female Fixed - NPT Female Swivel	16
NPT Female - JIC Male Fixed Reducer 90°	16
NPT Female - JIC Male Fixed Reducer	16
NPT Female - SAE Male 90° Elbow	17
NPT Female - SAE Male Fixed Reducer	17
NPT Female Swivel - SAE Male 90° Elbow	17&18
NPT Female Swivel - SAE Male	18
BSP - BSP Male Bulkhead & Locknut	18
BSP Male - BSP Male	18&19
BSP Male - BSP Male 90° Elbow & Locknut	19
BSP Male - BSP Female Swivel 90° Elbow	19
BSP Male - BSP Female Swivel Straight	20
BSP Male - BSP Tapered Male	20

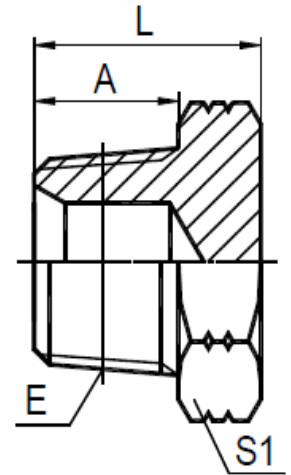
DESCRIPTION	PG NR
BSP Male - JIC Male	21
BSP Male - JIC Female Swivel Straight	21
BSP Male - ORFS Male	22
BSP Male ED - BSP Female Swivel 90°	22
BSP Male ED - JIC Male 45°	22
BSP Male ED - JIC Male 90°	23
BSP Male - ORFS Male 90°	23
BSP Female - BSP Female 90°	23
BSP Fixed Female Socket	24
BSP Female All Round Tee	24
Jap BSP Male - BSP Tapered Male 90°	24
Jap BSP Male - BSP Tapered Male	24
JIC Male - NPT Male Branch Tee	24
JIC Male - NPT Male Run Tee	25
JIC Male 90° Elbow Bulkhead & Locknut	25
JIC Male Straight Bulkhead & Locknut	25
JIC Male - JIC Male 90° Elbow	26
JIC Male - JIC Male Str Union Flare	26
JIC Male All Round Tee	27
JIC Male - JIC Female Swivel 45°	27
JIC Male - JIC Female Swivel 90°	27
JIC Male - JIC Female Swivel Reducer	28
JIC Male/Fem/Male Swivel Nut Branch Tee	28
JIC Male - JIC Fem Swivel Nut Run Tee	28
JIC Male - SAE Male 45° Elbow	29
JIC Male - SAE Male 90° Elbow	29
JIC Male - SAE Male Straight Thread	30
JIC Male - SAE Male Str Thread Run Tee	31
JIC Male - Metric Male Straight	31
JIC Fem Swivel - JIC Fem Swivel Str	31
ORFS Male 90° Bulkhead	31
ORFS Male Straight Bulkhead	32
ORFS Male - ORFS Male	32
ORFS Male - ORFS Fem Swivel 45°	32
ORFS Male - ORFS Fem Swivel 90°	32
ORFS Male - ORFS Female Swivel	33
ORFS Male - ORFS Fem Swivel Branch Tee	33
ORFS Male - ORFS Fem Swivel Run Tee	33
ORFS Male - SAE Male 90°	33&34
ORFS Male - SAE Male Straight	34
ORFS Male - SAE Male Branch Tee	34

Adaptors Part Number Breakdown	35
--------------------------------	----

# Steel Adaptors

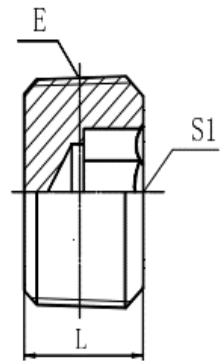
## NPT Hex Head Plug

AS-0010PH-0002	NPTM-02 HEX HEAD PLUG
AS-0010PH-0004	NPTM-04 HEX HEAD PLUG
AS-0010PH-0006	NPTM-06 HEX HEAD PLUG
AS-0010PH-0008	NPTM-08 HEX HEAD PLUG
AS-0010PH-0012	NPTM-12 HEX HEAD PLUG
AS-0010PH-0016	NPTM-16 HEX HEAD PLUG
AS-0010PH-0020	NPTM-20 HEX HEAD PLUG
AS-0010PH-0024	NPTM-24 HEX HEAD PLUG
AS-0010PH-0032	NPTM-32 HEX HEAD PLUG



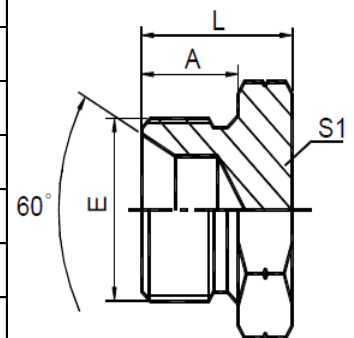
## NPT Hollow Head Plug

AS-0010PI-0001	NPTM-01 IN HEX PLUG
AS-0010PI-0002	NPTM-02 IN HEX PLUG
AS-0010PI-0004	NPTM-04 IN HEX PLUG
AS-0010PI-0006	NPTM-06 IN HEX PLUG
AS-0010PI-0008	NPTM-08 IN HEX PLUG
AS-0010PI-0012	NPTM-12 IN HEX PLUG
AS-0010PI-0016	NPTM-16 IN HEX PLUG



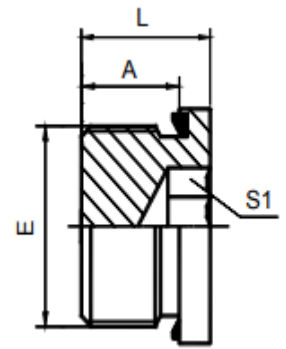
## Male Blanking Plugs - BSP - Hex Head

AS-0020PH-0002	VSTIR02HH MALE HEX HEAD PLUG
AS-0020PH-0004	VSTIR04HH MALE HEX HEAD PLUG
AS-0020PH-0006	VSTIR06HH MALE HEX HEAD PLUG
AS-0020PH-0008	VSTIR08HH MALE HEX HEAD PLUG
AS-0020PH-0010	VSTIR10HH MALE HEX HEAD PLUG
AS-0020PH-0012	VSTIR12HH MALE HEX HEAD PLUG
AS-0020PH-0016	VSTIR16HH MALE HEX HEAD PLUG
AS-0020PH-0020	VSTIR20HH MALE HEX HEAD PLUG
AS-0020PH-0024	VSTIR24HH MALE HEX HEAD PLUG
AS-0020PH-0032	VSTIR32HH MALE HEX HEAD PLUG



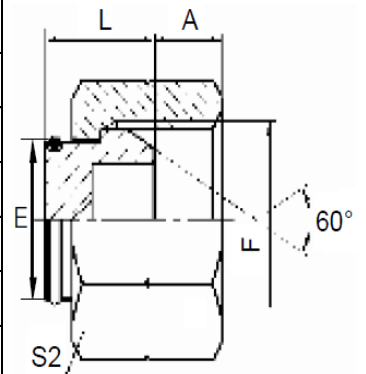
## Male Blanking Plugs - BSP - In Hex

AS-0021PI-0002	VSTIR02-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0004	VSTIR04-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0006	VSTIR06-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0008	VSTIR08-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0012	VSTIR12-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0016	VSTIR16-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0020	VSTIR20-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0024	VSTIR24-ED MALE IN HEX PLUG WITH SEAL
AS-0021PI-0032	VSTIR32-ED MALE IN HEX PLUG WITH SEAL



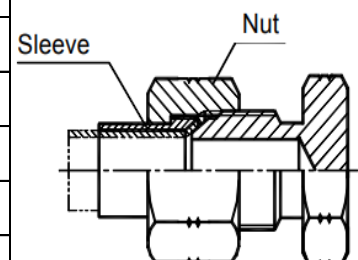
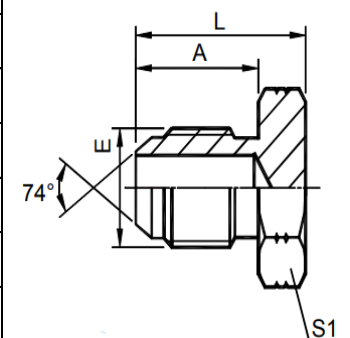
## BSP Female Swivel Blank-Off Cap

AS-0023PC-0002	BSPF-02 CAP
AS-0023PC-0004	BSPF-04 CAP
AS-0023PC-0006	BSPF-06 CAP
AS-0023PC-0008	BSPF-08 CAP
AS-0023PC-0010	BSPF-10 CAP
AS-0023PC-0012	BSPF-12 CAP
AS-0023PC-0016	BSPF-16 CAP
AS-0023PC-0020	BSPF-20 CAP
AS-0023PC-0024	BSPF-24 CAP



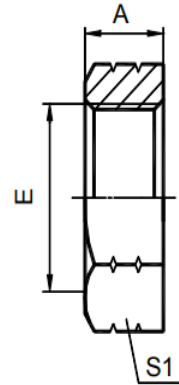
## JIC Hex Head Plug

AS-0030PH-0002	JICM-02 HEX HEAD PLUG (5/16-24)
AS-0030PH-0003	JICM-03 HEX HEAD PLUG (3/8-24)
AS-0030PH-0004	JICM-04 HEX HEAD PLUG (7/16-20)
AS-0030PH-0005	JICM-05 HEX HEAD PLUG (1/2-20)
AS-0030PH-0006	JICM-06 HEX HEAD PLUG (9/16-18)
AS-0030PH-0008	JICM-08 HEX HEAD PLUG (3/4-16)
AS-0030PH-0010	JICM-10 HEX HEAD PLUG (7/8-14)
AS-0030PH-0012	JICM-12 HEX HEAD PLUG (1 1/16-12)
AS-0030PH-0014	JICM-14 HEX HEAD PLUG (1 3/16-12)
AS-0030PH-0016	JICM-16 HEX HEAD PLUG (1 5/16-12)
AS-0030PH-0020	JICM-20 HEX HEAD PLUG (1 5/8-12)
AS-0030PH-0024	JICM-24 HEX HEAD PLUG (1 7/8-12)
AS-0030PH-0032	JICM-32 HEX HEAD PLUG (2 1/2-12)



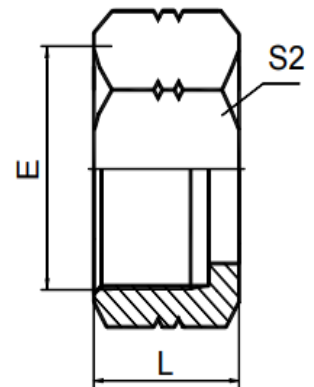
## JIC Bulkhead Nuts

AS-0032NB-0004	JIC-04 BULKHEAD LOCK NUT
AS-0032NB-0005	JIC-05 BULKHEAD LOCK NUT
AS-0032NB-0006	JIC-06 BULKHEAD LOCK NUT
AS-0032NB-0008	JIC-08 BULKHEAD LOCK NUT
AS-0032NB-0010	JIC-10 BULKHEAD LOCK NUT
AS-0032NB-0012	JIC-12 BULKHEAD LOCK NUT
AS-0032NB-0014	JIC-14 BULKHEAD LOCK NUT
AS-0032NB-0016	JIC-16 BULKHEAD LOCK NUT
AS-0032NB-0020	JIC-20 BULKHEAD LOCK NUT
AS-0032NB-0024	JIC-24 BULKHEAD LOCK NUT



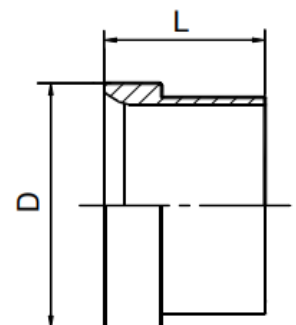
## JIC Triple Tube Nut End

AS-0032NT-0002	JICF-02 FLARE TUBE NUT (5/16-24)
AS-0032NT-0003	JICF-03 FLARE TUBE NUT (3/8-24)
AS-0032NT-0004	JICF-04 FLARE TUBE NUT (7/16-20)
AS-0032NT-0005	JICF-05 FLARE TUBE NUT (1/2-20)
AS-0032NT-0006	JICF-06 FLARE TUBE NUT (9/16-18)
AS-0032NT-0008	JICF-08 FLARE TUBE NUT (3/4-16)
AS-0032NT-0010	JICF-10 FLARE TUBE NUT (7/8-14)
AS-0032NT-0012	JICF-12 FLARE TUBE NUT (1 1/16-12)
AS-0032NT-0014	JICF-14 FLARE TUBE NUT (1 3/16-12)
AS-0032NT-0016	JICF-16 FLARE TUBE NUT (1 5/16-12)
AS-0032NT-0020	JICF-20 FLARE TUBE NUT (1 5/8-12)
AS-0032NT-0024	JICF-24 FLARE TUBE NUT (1 7/8-12)
AS-0032NT-0032	JICF-32 FLARE TUBE NUT (2 1/2-12)



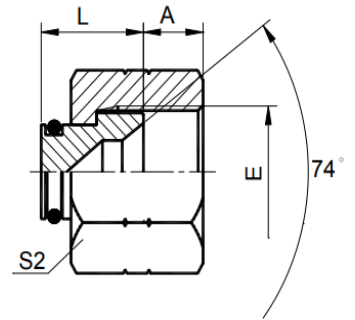
## JIC Flare Tube End Sleeve

AS-0032SV-0002	JIC-02 FLARE TUBE SLEEVE FOR TUBE -02
AS-0032SV-0003	JIC-03 FLARE TUBE SLEEVE FOR TUBE -03
AS-0032SV-0004	JIC-04 FLARE TUBE SLEEVE FOR TUBE -04
AS-0032SV-0005	JIC-05 FLARE TUBE SLEEVE FOR TUBE -05
AS-0032SV-0006	JIC-06 FLARE TUBE SLEEVE FOR TUBE -06
AS-0032SV-0008	JIC-08 FLARE TUBE SLEEVE FOR TUBE -08
AS-0032SV-0010	JIC-10 FLARE TUBE SLEEVE FOR TUBE -10
AS-0032SV-0012	JIC-12 FLARE TUBE SLEEVE FOR TUBE -12
AS-0032SV-0014	JIC-14 FLARE TUBE SLEEVE FOR TUBE -14
AS-0032SV-0016	JIC-16 FLARE TUBE SLEEVE FOR TUBE -16
AS-0032SV-0020	JIC-20 FLARE TUBE SLEEVE FOR TUBE -20
AS-0032SV-0024	JIC-24 FLARE TUBE SLEEVE FOR TUBE -24



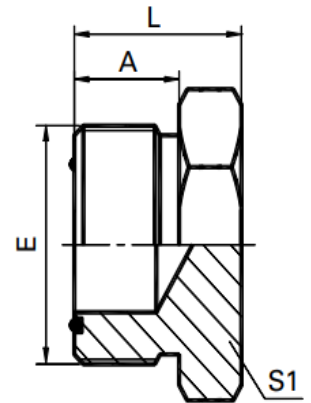
## JIC Female - SAE Cap

AS-0033PC-0004	JICF-04 CAP (7/16-20)
AS-0033PC-0005	JICF-05 CAP (1/2-20)
AS-0033PC-0006	JICF-06 CAP (9/16-18)
AS-0033PC-0008	JICF-08 CAP (3/4-16)
AS-0033PC-0010	JICF-10 CAP (7/8-14)
AS-0033PC-0012	JICF-12 CAP (1 1/16-12)
AS-0033PC-0014	JICF-14 CAP (1 3/16-12)
AS-0033PC-0016	JICF-16 CAP (1 5/16-12)
AS-0033PC-0020	JICF-20 CAP (1 5/8-12)
AS-0033PC-0024	JICF-24 CAP (1 7/8-12)
AS-0033PC-0032	JICF-32 CAP (2 1/2-12)



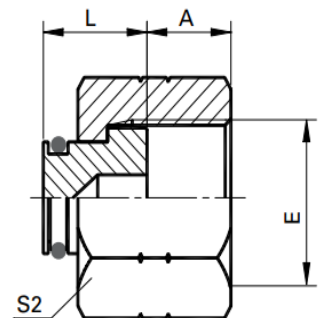
## ORFS Male Hex Plugs

AS-0041PH-0004	ORFS-04 MALE PLUG
AS-0041PH-0006	ORFS-06 MALE PLUG
AS-0041PH-0008	ORFS-08 MALE PLUG
AS-0041PH-0010	ORFS-10 MALE PLUG
AS-0041PH-0012	ORFS-12 MALE PLUG
AS-0041PH-0016	ORFS-16 MALE PLUG
AS-0041PH-0020	ORFS-20 MALE PLUG
AS-0041PH-0024	ORFS-24 MALE PLUG



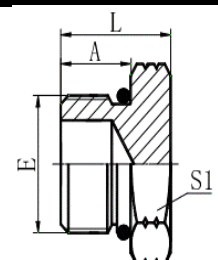
## ORFS Female Cap

AS-0043PC-0004	ORFS-04 FEMALE SWIVEL CAP
AS-0043PC-0006	ORFS-06 FEMALE SWIVEL CAP
AS-0043PC-0008	ORFS-08 FEMALE SWIVEL CAP
AS-0043PC-0010	ORFS-10 FEMALE SWIVEL CAP
AS-0043PC-0012	ORFS-12 FEMALE SWIVEL CAP
AS-0043PC-0016	ORFS-16 FEMALE SWIVEL CAP
AS-0043PC-0020	ORFS-20 FEMALE SWIVEL CAP
AS-0043PC-0024	ORFS-24 FEMALE SWIVEL CAP

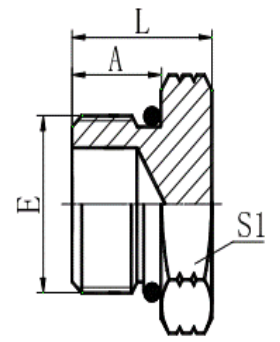


## SAE Male Hex Head Plug

AS-0051PH-0002	SAEM-02 HEX HEAD PLUG (5/16-24)
AS-0051PH-0003	SAEM-03 HEX HEAD PLUG (3/8-24)
AS-0051PH-0004	SAEM-04 HEX HEAD PLUG (7/16-20)
AS-0051PH-0005	SAEM-05 HEX HEAD PLUG (1/2-20)
AS-0051PH-0006	SAEM-06 HEX HEAD PLUG (9/16-18)
AS-0051PH-0008	SAEM-08 HEX HEAD PLUG (3/4-16)

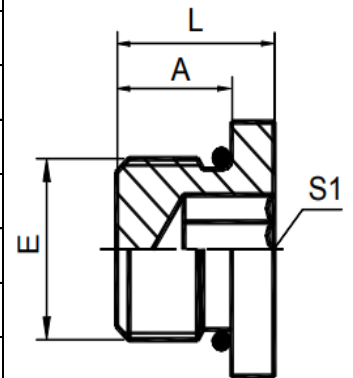


AS-0051PH-0010	SAEM-10 HEX HEAD PLUG (7/8-14)
AS-0051PH-0012	SAEM-12 HEX HEAD PLUG (1 1/16-12)
AS-0051PH-0014	SAEM-14 HEX HEAD PLUG (1 3/16-12)
AS-0051PH-0016	SAEM-16 HEX HEAD PLUG (1 5/16-12)
AS-0051PH-0020	SAEM-20 HEX HEAD PLUG (1 5/8-12)
AS-0051PH-0024	SAEM-24 HEX HEAD PLUG (1 7/8-12)



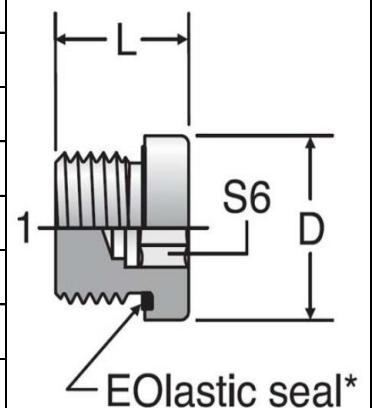
### SAE Male Hollow Hex Plug

AS-0051PI-0002	SAEM-02 IN HEX PLUG (5/16-24)
AS-0051PI-0003	SAEM-03 IN HEX PLUG (3/8-24)
AS-0051PI-0004	SAEM-04 IN HEX PLUG (7/16-20)
AS-0051PI-0005	SAEM-05 IN HEX PLUG (1/2-20)
AS-0051PI-0006	SAEM-06 IN HEX PLUG (9/16-18)
AS-0051PI-0008	SAEM-08 IN HEX PLUG (3/4-16)
AS-0051PI-0010	SAEM-10 IN HEX PLUG (7/8-14)
AS-0051PI-0012	SAEM-12 IN HEX PLUG (1 1/16-12)
AS-0051PI-0014	SAEM-14 IN HEX PLUG (1 3/16-12)
AS-0051PI-0016	SAEM-16 IN HEX PLUG (1 5/16-12)
AS-0051PI-0020	SAEM-20 IN HEX PLUG (1 5/8-12)
AS-0051PI-0024	SAEM-24 IN HEX PLUG (1 7/8-12)



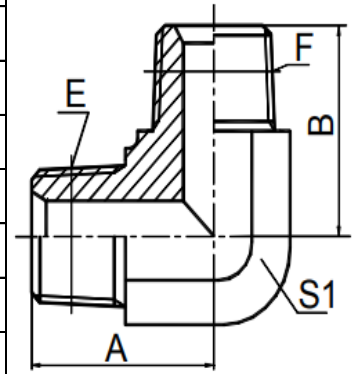
### Metric Male ED Blanking Plugs

AS-0061PI-0008	VSTIM08X1-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0010	VSTIM10X1-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0012	VSTIM12X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0014	VSTIM14X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0016	VSTIM16X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0018	VSTIM18X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0020	VSTIM20X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0022	VSTIM22X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0026	VSTIM26X1.5-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0027	VSTIM27X2-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0033	VSTIM33X2-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0042	VSTIM42X2-ED MALE IN HEX PLUG + SEAL
AS-0061PI-0048	VSTIM48X2-ED MALE IN HEX PLUG + SEAL



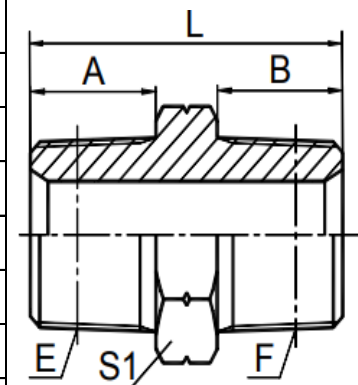
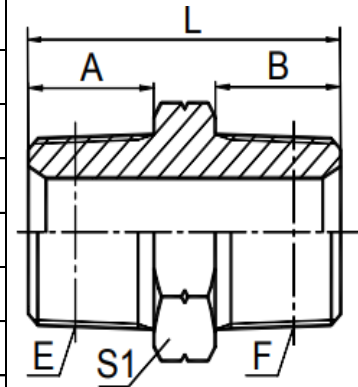
## NPT Male - NPT Male 90° Elbow

AS-1010E9-0202	NPTM-02 X NPTM-02 ELBOW 90°
AS-1010E9-0404	NPTM-04 X NPTM-04 ELBOW 90°
AS-1010E9-0606	NPTM-06 X NPTM-06 ELBOW 90°
AS-1010E9-0808	NPTM-08 X NPTM-08 ELBOW 90°
AS-1010E9-1212	NPTM-12 X NPTM-12 ELBOW 90°
AS-1010E9-1216	NPTM-12 X NPTM-16 ELBOW 90°
AS-1010E9-1616	NPTM-16 X NPTM-16 ELBOW 90°
AS-1010E9-2020	NPTM-20 X NPTM-20 ELBOW 90°
AS-1010E9-2424	NPTM-24 X NPTM-24 ELBOW 90°
AS-1010E9-3232	NPTM-32 X NPTM-32 ELBOW 90°



## NPT Male - NPT Male Straight

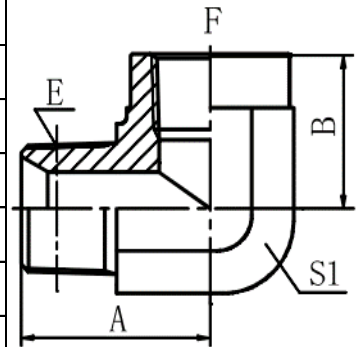
AS-1010SS-0202	NPTM-02 X NPTM-02 NIPPLE
AS-1010SS-0204	NPTM-02 X NPTM-04 NIPPLE
AS-1010SS-0206	NPTM-02 X NPTM-06 NIPPLE
AS-1010SS-0404	NPTM-04 X NPTM-04 NIPPLE
AS-1010SS-0406	NPTM-04 X NPTM-06 NIPPLE
AS-1010SS-0408	NPTM-04 X NPTM-08 NIPPLE
AS-1010SS-0606	NPTM-06 X NPTM-06 NIPPLE
AS-1010SS-0608	NPTM-06 X NPTM-08 NIPPLE
AS-1010SS-0612	NPTM-06 X NPTM-12 NIPPLE
AS-1010SS-0808	NPTM-08 X NPTM-08 NIPPLE
AS-1010SS-0812	NPTM-08 X NPTM-12 NIPPLE
AS-1010SS-0816	NPTM-08 X NPTM-16 NIPPLE
AS-1010SS-1212	NPTM-12 X NPTM-12 NIPPLE
AS-1010SS-1216	NPTM-12 X NPTM-16 NIPPLE
AS-1010SS-1616	NPTM-16 X NPTM-16 NIPPLE
AS-1010SS-1620	NPTM-16 X NPTM-20 NIPPLE
AS-1010SS-1624	NPTM-16 X NPTM-24 NIPPLE
AS-1010SS-2020	NPTM-20 X NPTM-20 NIPPLE
AS-1010SS-2024	NPTM-20 X NPTM-24 NIPPLE
AS-1010SS-2424	NPTM-24 X NPTM-24 NIPPLE
AS-1010SS-3232	NPTM-32 X NPTM-32 NIPPLE





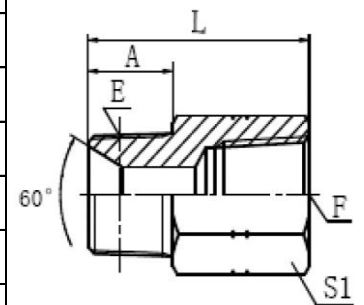
## NPT Male - NPT Female Reducer 90°

AS-1012E9-0202	NPTM-02 X NPTF-02 ELBOW 90°
AS-1012E9-0404	NPTM-04 X NPTF-04 ELBOW 90°
AS-1012E9-0604	NPTM-06 X NPTF-04 ELBOW 90°
AS-1012E9-0606	NPTM-06 X NPTF-06 ELBOW 90°
AS-1012E9-0806	NPTM-08 X NPTF-06 ELBOW 90°
AS-1012E9-0808	NPTM-08 X NPTF-08 ELBOW 90°
AS-1012E9-1212	NPTM-12 X NPTF-12 ELBOW 90°
AS-1012E9-1616	NPTM-16 X NPTF-16 ELBOW 90°
AS-1012E9-2020	NPTM-20 X NPTF-20 ELBOW 90°
AS-1012E9-2424	NPTM-24 X NPTF-24 ELBOW 90°
AS-1012E9-3232	NPTM-32 X NPTF-32 ELBOW 90°

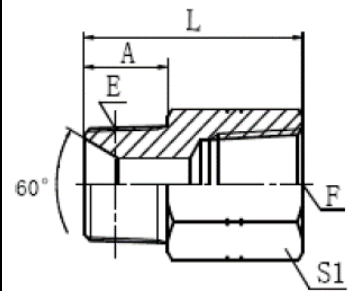


## NPT Male - NPT Female Reducing Bush

AS-1012SS-0202	NPTM-02 X NPTF-02 REDUCING BUSH
AS-1012SS-0204	NPTM-02 X NPTF-04 REDUCING BUSH
AS-1012SS-0402	NPTM-04 X NPTF-02 REDUCING BUSH
AS-1012SS-0404	NPTM-04 X NPTF-04 REDUCING BUSH
AS-1012SS-0406	NPTM-04 X NPTF-06 REDUCING BUSH
AS-1012SS-0408	NPTM-04 X NPTF-08 REDUCING BUSH
AS-1012SS-0412	NPTM-04 X NPTF-12 REDUCING BUSH
AS-1012SS-0602	NPTM-06 X NPTF-02 REDUCING BUSH
AS-1012SS-0604	NPTM-06 X NPTF-04 REDUCING BUSH
AS-1012SS-0606	NPTM-06 X NPTF-06 REDUCING BUSH
AS-1012SS-0608	NPTM-06 X NPTF-08 REDUCING BUSH
AS-1012SS-0802	NPTM-08 X NPTF-02 REDUCING BUSH
AS-1012SS-0804	NPTM-08 X NPTF-04 REDUCING BUSH
AS-1012SS-0806	NPTM-08 X NPTF-06 REDUCING BUSH
AS-1012SS-0808	NPTM-08 X NPTF-08 REDUCING BUSH
AS-1012SS-0812	NPTM-08 X NPTF-12 REDUCING BUSH
AS-1012SS-0816	NPTM-08 X NPTF-16 REDUCING BUSH
AS-1012SS-1204	NPTM-12 X NPTF-04 REDUCING BUSH
AS-1012SS-1206	NPTM-12 X NPTF-06 REDUCING BUSH
AS1012SS-1208	NPTM-12 X NPTF-08 REDUCING BUSH
AS-1012SS-1212	NPTM-12 X NPTF-12 REDUCING BUSH
AS-1012SS-1216	NPTM-12 X NPTF-16 REDUCING BUSH
AS-1012SS-1604	NPTM-16 X NPTF-04 REDUCING BUSH
AS-1012SS-1606	NPTM-16 X NPTF-06 REDUCING BUSH
AS-1012SS-1608	NPTM-16 X NPTF-08 REDUCING BUSH

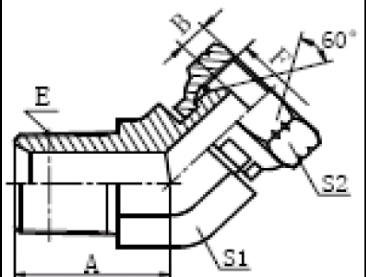


AS-1012SS-1612	NPTM-16 X NPTF-12 REDUCING BUSH
AS-1012SS-1616	NPTM-16 X NPTF-16 REDUCING BUSH
AS-1012SS-1620	NPTM-16 X NPTF-20 REDUCING BUSH
AS-1012SS-2008	NPTM-20 X NPTF-08 REDUCING BUSH
AS-1012SS-2012	NPTM-20 X NPTF-12 REDUCING BUSH
AS-1012SS-2016	NPTM-20 X NPTF-16 REDUCING BUSH
AS-1012SS-2024	NPTM-20 X NPTF-24 REDUCING BUSH
AS-1012SS-2412	NPTM-24 X NPTF-12 REDUCING BUSH
AS-1012SS-2416	NPTM-24 X NPTF-16 REDUCING BUSH
AS-1012SS-2420	NPTM-24 X NPTF-20 REDUCING BUSH
AS-1012SS-3212	NPTM-32 X NPTF-12 REDUCING BUSH
AS-1012SS-3216	NPTM-32 X NPTF-16 REDUCING BUSH
AS-1012SS-3220	NPTM-32 X NPTF-20 REDUCING BUSH
AS-1012SS-3224	NPTM-32 X NPTF-24 REDUCING BUSH



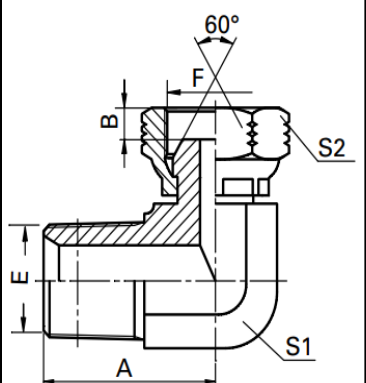
### NPT Male - NPT Female Swivel 45° Elbow

AS-1013E4-0202	NPTM-02 X NPTFS-02 ELBOW 45°
AS-1013E4-0404	NPTM-04 X NPTFS-04 ELBOW 45°
AS-1013E4-0606	NPTM-06 X NPTFS-06 ELBOW 45°
AS-1013E4-0806	NPTM-08 X NPTFS-06 ELBOW 45°
AS-1013E4-0808	NPTM-08 X NPTFS-08 ELBOW 45°
AS-1013E4-1208	NPTM-12 X NPTFS-08 ELBOW 45°
AS-1013E4-1212	NPTM-12 X NPTFS-12 ELBOW 45°
AS-1013E4-1612	NPTM-16 X NPTFS-12 ELBOW 45°
AS-1013E4-1616	NPTM-16 X NPTFS-16 ELBOW 45°
AS-1013E4-2020	NPTM-20 X NPTFS-20 ELBOW 45°
AS-1013E4-2424	NPTM-24 X NPTFS-24 ELBOW 45°
AS-1013E4-3232	NPTM-32 X NPTFS-32 ELBOW 45°

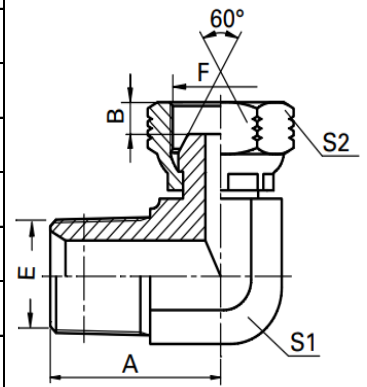


### NPT Male - NPT Female Swivel 90° Elbow

AS-1013E9-0202	NPTM-02 X NPTFS-02 ELBOW 90°
AS-1013E9-0204	NPTM-02 X NPTFS-04 ELBOW 90°
AS-1013E9-0402	NPTM-04 X NPTFS-02 ELBOW 90°
AS-1013E9-0404	NPTM-04 X NPTFS-04 ELBOW 90°
AS-1013E9-0406	NPTM-04 X NPTFS-06 ELBOW 90°
AS-1013E9-0604	NPTM-06 X NPTFS-04 ELBOW 90°
AS-1013E9-0606	NPTM-06 X NPTFS-06 ELBOW 90°
AS-1013E9-0608	NPTM-06 X NPTFS-08 ELBOW 90°
AS-1013E9-0806	NPTM-08 X NPTFS-06 ELBOW 90°

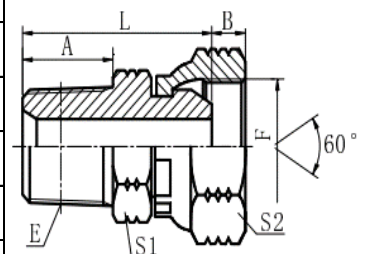
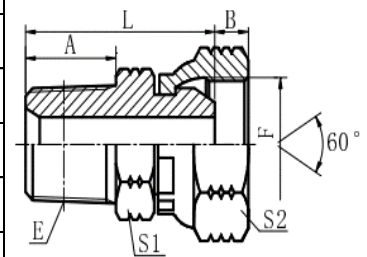


AS-1013E9-0808	NPTM-08 X NPTFS-08 ELBOW 90°
AS-1013E9-0812	NPTM-08 X NPTFS-12 ELBOW 90°
AS-1013E9-1208	NPTM-12 X NPTFS-08 ELBOW 90°
AS-1013E9-1212	NPTM-12 X NPTFS-12 ELBOW 90°
AS-1013E9-1216	NPTM-12 X NPTFS-16 ELBOW 90°
AS-1013E9-1612	NPTM-16 X NPTFS-12 ELBOW 90°
AS-1013E9-1616	NPTM-16 X NPTFS-16 ELBOW 90°
AS-1013E9-1620	NPTM-16 X NPTFS-20 ELBOW 90°
AS-1013E9-2016	NPTM-20 X NPTFS-16 ELBOW 90°
AS-1013E9-2020	NPTM-20 X NPTFS-20 ELBOW 90°
AS-1013E9-2424	NPTM-24 X NPTFS-24 ELBOW 90°
AS-1013E9-3232	NPTM-32 X NPTFS-32 ELBOW 90°



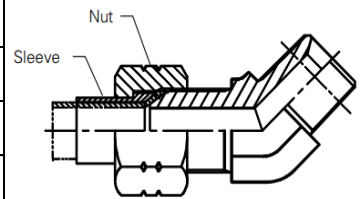
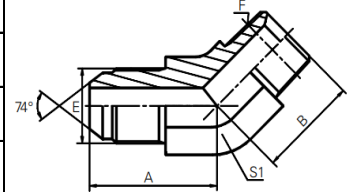
### NPT Male - NPT Female Swivel Straight

AS-1013SS-0202	NPTM-02 X NPTFS-02 ADAPTOR
AS-1013SS-0204	NPTM-02 X NPTFS-04 ADAPTOR
AS-1013SS-0402	NPTM-04 X NPTFS-02 ADAPTOR
AS-1013SS-0404	NPTM-04 X NPTFS-04 ADAPTOR
AS-1013SS-0406	NPTM-04 X NPTFS-06 ADAPTOR
AS-1013SS-0604	NPTM-06 X NPTFS-04 ADAPTOR
AS-1013SS-0606	NPTM-06 X NPTFS-06 ADAPTOR
AS-1013SS-0608	NPTM-06 X NPTFS-08 ADAPTOR
AS-1013SS-0804	NPTM-08 X NPTFS-04 ADAPTOR
AS-1013SS-0806	NPTM-08 X NPTFS-06 ADAPTOR
AS-1013SS-0808	NPTM-08 X NPTFS-08 ADAPTOR
AS-1013SS-0812	NPTM-08 X NPTFS-12 ADAPTOR
AS-1013SS-1208	NPTM-12 X NPTFS-08 ADAPTOR
AS-1013SS-1212	NPTM-12 X NPTFS-12 ADAPTOR
AS-1013SS-1216	NPTM-12 X NPTFS-16 ADAPTOR
AS-1013SS-1612	NPTM-16 X NPTFS-12 ADAPTOR
AS-1013SS-1616	NPTM-16 X NPTFS-16 ADAPTOR
AS-1013SS-1620	NPTM-16 X NPTFS-20 ADAPTOR
AS-1013SS-2020	NPTM-20 X NPTFS-20 ADAPTOR
AS-1013SS-2024	NPTM-20 X NPTFS-24 ADAPTOR
AS-1013SS-2424	NPTM-24 X NPTFS-24 ADAPTOR
AS-1013SS-3232	NPTM-32 X NPTFS-32 ADAPTOR



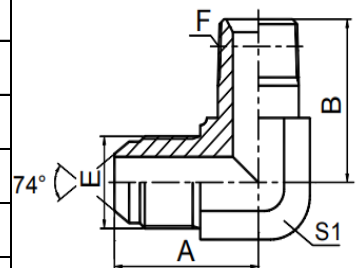
## NPT Male - JIC Male 45° Elbow

AS-1030E4-0202	NPTM-02 X JICM-02 ELBOW 45°
AS-1030E4-0204	NPTM-02 X JICM-04 ELBOW 45°
AS-1030E4-0205	NPTM-02 X JICM-05 ELBOW 45°
AS-1030E4-0206	NPTM-02 X JICM-06 ELBOW 45°
AS-1030E4-0404	NPTM-04 X JICM-04 ELBOW 45°
AS-1030E4-0405	NPTM-04 X JICM-05 ELBOW 45°
AS-1030E4-0406	NPTM-04 X JICM-06 ELBOW 45°
AS-1030E4-0408	NPTM-04 X JICM-08 ELBOW 45°
AS-1030E4-0604	NPTM-06 X JICM-04 ELBOW 45°
AS-1030E4-0606	NPTM-06 X JICM-06 ELBOW 45°
AS-1030E4-0608	NPTM-06 X JICM-08 ELBOW 45°
AS-1030E4-0610	NPTM-06 X JICM-10 ELBOW 45°
AS-1030E4-0806	NPTM-08 X JICM-06 ELBOW 45°
AS-1030E4-0808	NPTM-08 X JICM-08 ELBOW 45°
AS-1030E4-0810	NPTM-08 X JICM-10 ELBOW 45°
AS-1030E4-0812	NPTM-08 X JICM-12 ELBOW 45°
AS-1030E4-1208	NPTM-12 X JICM-08 ELBOW 45°
AS-1030E4-1210	NPTM-12 X JICM-10 ELBOW 45°
AS-1030E4-1212	NPTM-12 X JICM-12 ELBOW 45°
AS-1030E4-1216	NPTM-12 X JICM-16 ELBOW 45°
AS-1030E4-1612	NPTM-16 X JICM-12 ELBOW 45°
AS-1030E4-1616	NPTM-16 X JICM-16 ELBOW 45°
AS-1030E4-2016	NPTM-20 X JICM-16 ELBOW 45°
AS-1030E4-2020	NPTM-20 X JICM-20 ELBOW 45°
AS-1030E4-2424	NPTM-24 X JICM-24 ELBOW 45°
AS-1030E4-3232	NPTM-32 X JICM-32 ELBOW 45°

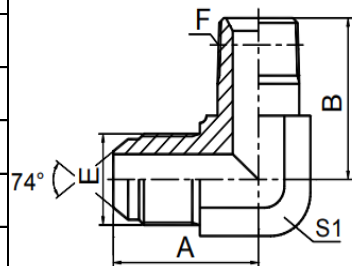


## NPT Male - JIC Male 90° Elbow

AS-1030E9-0204	NPTM-02 X JICM-04 ELBOW 90°
AS-1030E9-0205	NPTM-02 X JICM-05 ELBOW 90°
AS-1030E9-0206	NPTM-02 X JICM-06 ELBOW 90°
AS-1030E9-0404	NPTM-04 X JICM-04 ELBOW 90°
AS-1030E9-0405	NPTM-04 X JICM-05 ELBOW 90°
AS-1030E9-0406	NPTM-04 X JICM-06 ELBOW 90°
AS-1030E9-0408	NPTM-04 X JICM-08 ELBOW 90°
AS-1030E9-0604	NPTM-06 X JICM-04 ELBOW 90°
AS-1030E9-0605	NPTM-06 X JICM-05 ELBOW 90°
AS-1030E9-0606	NPTM-06 X JICM-06 ELBOW 90°

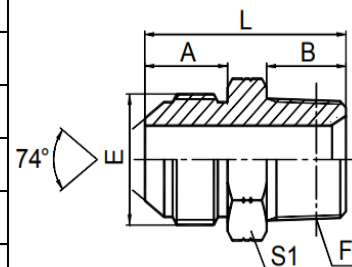


AS-1030E9-0608	NPTM-06 X JICM-08 ELBOW 90°
AS-1030E9-0610	NPTM-06 X JICM-10 ELBOW 90°
AS-1030E9-0804	NPTM-08 X JICM-04 ELBOW 90°
AS-1030E9-0806	NPTM-08 X JICM-06 ELBOW 90°
AS-1030E9-0808	NPTM-08 X JICM-08 ELBOW 90°
AS-1030E9-0810	NPTM-08 X JICM-10 ELBOW 90°
AS-1030E9-0812	NPTM-08 X JICM-12 ELBOW 90°
AS-1030E9-1208	NPTM-12 X JICM-08 ELBOW 90°
AS-1030E9-1210	NPTM-12 X JICM-10 ELBOW 90°
AS-1030E9-1212	NPTM-12 X JICM-12 ELBOW 90°
AS-1030E9-1216	NPTM-12 X JICM-16 ELBOW 90°
AS-1030E9-1612	NPTM-16 X JICM-12 ELBOW 90°
AS-1030E9-1616	NPTM-16 X JICM-16 ELBOW 90°
AS-1030E9-1620	NPTM-16 X JICM-20 ELBOW 90°
AS-1030E9-2016	NPTM-20 X JICM-16 ELBOW 90°
AS-1030E9-2020	NPTM-20 X JICM-20 ELBOW 90°
AS-1030E9-2024	NPTM-20 X JICM-24 ELBOW 90°
AS-1030E9-2420	NPTM-24 X JICM-20 ELBOW 90°
AS-1030E9-2424	NPTM-24 X JICM-24 ELBOW 90°
AS-1030E9-3232	NPTM-32 X JICM-32 ELBOW 90°

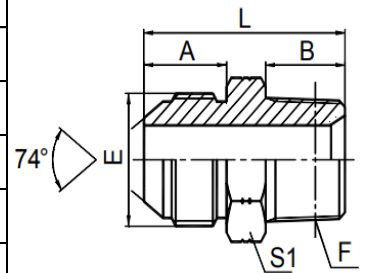


### NPT Male - JIC Male Straight

AS-1030SS-0202	NPTM-02 X JICM-02 NIPPLE
AS-1030SS-0203	NPTM-02 X JICM-03 NIPPLE
AS-1030SS-0204	NPTM-02 X JICM-04 NIPPLE
AS-1030SS-0205	NPTM-02 X JICM-05 NIPPLE
AS-1030SS-0206	NPTM-02 X JICM-06 NIPPLE
AS-1030SS-0404	NPTM-04 X JICM-04 NIPPLE
AS-1030SS-0405	NPTM-04 X JICM-05 NIPPLE
AS-1030SS-0406	NPTM-04 X JICM-06 NIPPLE
AS-1030SS-0408	NPTM-04 X JICM-08 NIPPLE
AS-1030SS-0604	NPTM-06 X JICM-04 NIPPLE
AS-1030SS-0605	NPTM-06 X JICM-05 NIPPLE
AS-1030SS-0606	NPTM-06 X JICM-06 NIPPLE
AS-1030SS-0608	NPTM-06 X JICM-08 NIPPLE
AS-1030SS-0610	NPTM-06 X JICM-10 NIPPLE
AS-1030SS-0804	NPTM-08 X JICM-04 NIPPLE
AS-1030SS-0806	NPTM-08 X JICM-06 NIPPLE
AS-1030SS-0808	NPTM-08 X JICM-08 NIPPLE
AS-1030SS-0810	NPTM-08 X JICM-10 NIPPLE

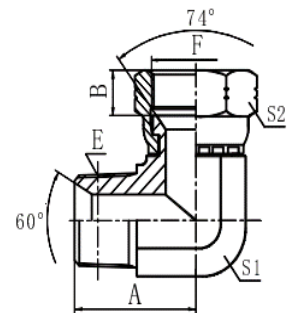


AS-1030SS-0812	NPTM-08 X JICM-12 NIPPLE
AS-1030SS-0816	NPTM-08 X JICM-16 NIPPLE
AS-1030SS-1206	NPTM-12 X JICM-06 NIPPLE
AS-1030SS-1208	NPTM-12 X JICM-08 NIPPLE
AS-1030SS-1210	NPTM-12 X JICM-10 NIPPLE
AS-1030SS-1212	NPTM-12 X JICM-12 NIPPLE
AS-1030SS-1214	NPTM-12 X JICM-14 NIPPLE
AS-1030SS-1216	NPTM-12 X JICM-16 NIPPLE
AS-1030SS-1608	NPTM-16 X JICM-08 NIPPLE
AS-1030SS-1612	NPTM-16 X JICM-12 NIPPLE
AS-1030SS-1616	NPTM-16 X JICM-16 NIPPLE
AS-1030SS-1620	NPTM-16 X JICM-20 NIPPLE
AS-1030SS-2012	NPTM-20 X JICM-12 NIPPLE
AS-1030SS-2016	NPTM-20 X JICM-16 NIPPLE
AS-1030SS-2020	NPTM-20 X JICM-20 NIPPLE
AS-1030SS-2024	NPTM-20 X JICM-24 NIPPLE
AS-1030SS-2420	NPTM-24 X JICM-20 NIPPLE
AS-1030SS-2424	NPTM-24 X JICM-24 NIPPLE
AS-1030SS-3232	NPTM-32 X JICM-32 NIPPLE



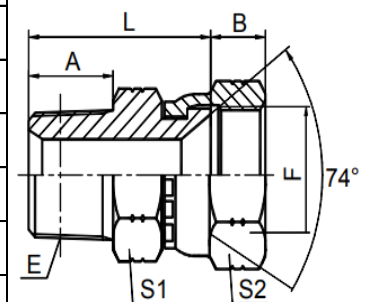
### NPT Male - JIC Female Swivel 90° Elbow

AS-1033E9-0606	NPTM-06 X JICFS-06 ELBOW 90°
AS-1033E9-0808	NPTM-08 X JICFS-08 ELBOW 90°
AS-1033E9-1212	NPTM-12 X JICFS-12 ELBOW 90°

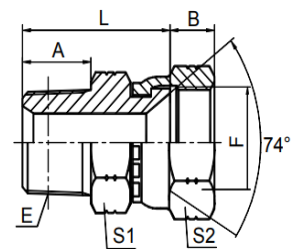


### NPT Male - JIC Female Straight Swivel

AS-1033SS-0404	NPTM-04 X JICFS-04 ADAPTOR
AS-1033SS-0405	NPTM-04 X JICFS-05 ADAPTOR
AS-1033SS-0406	NPTM-04 X JICFS-06 ADAPTOR
AS-1033SS-0606	NPTM-06 X JICFS-06 ADAPTOR
AS-1033SS-0608	NPTM-06 X JICFS-08 ADAPTOR
AS-1033SS-0610	NPTM-06 X JICFS-10 ADAPTOR
AS-1033SS-0808	NPTM-08 X JICFS-08 ADAPTOR
AS-1033SS-0810	NPTM-08 X JICFS-10 ADAPTOR
AS-1033SS-0812	NPTM-08 X JICFS-12 ADAPTOR
AS-1033SS-1212	NPTM-12 X JICFS-12 ADAPTOR

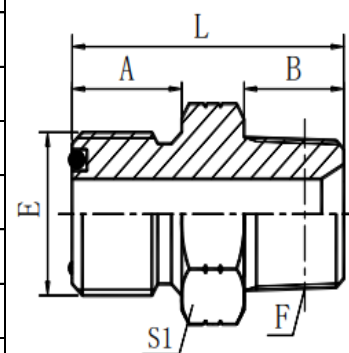


AS-1033SS-1216	NPTM-12 X JICFS-16 ADAPTOR
AS-1033SS-1616	NPTM-16 X JICFS-16 ADAPTOR
AS-1033SS-2020	NPTM-20 X JICFS-20 ADAPTOR
AS-1033SS-2424	NPTM-24 X JICFS-24 ADAPTOR



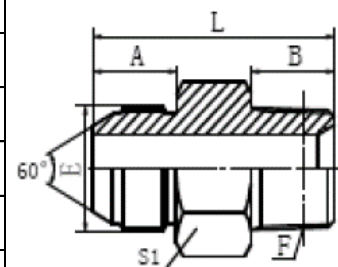
### NPT Male - ORFS Male Straight

AS-1041SS-0204	1/8 NPTM X 1/4 ORFS MALE
AS-1041SS-0404	1/4 NPTM X 1/4 ORFS MALE
AS-1041SS-0406	1/4 NPTM X 3/8 ORFS MALE
AS-1041SS-0408	1/4 NPTM X 1/2 ORFS MALE
AS-1041SS-0604	3/8 NPTM X 1/4 ORFS MALE
AS-1041SS-0606	3/8 NPTM X 3/8 ORFS MALE
AS-1041SS-0608	3/8 NPTM X 1/2 ORFS MALE
AS-1041SS-0804	1/2 NPTM X 1/4 ORFS MALE
AS-1041SS-0806	1/2 NPTM X 3/8 ORFS MALE
AS-1041SS-0808	1/2 NPTM X 1/2 ORFS MALE
AS-1041SS-0810	1/2 NPTM X 5/8 ORFS MALE
AS-1041SS-0812	1/2 NPTM X 3/4 ORFS MALE
AS-1041SS-1208	3/4 NPTM X 1/2 ORFS MALE
AS-1041SS-1210	3/4 NPTM X 5/8 ORFS MALE
AS-1041SS-1212	3/4 NPTM X 3/4 ORFS MALE
AS-1041SS-1216	3/4 NPTM X 1 ORFS MALE
AS-1041SS-1612	1 NPTM X 3/4 ORFS MALE
AS-1041SS-1616	1 NPTM X 1 ORFS MALE
AS-1041SS-2020	1 1/4 NPTM X 1 1/4 ORFS MALE



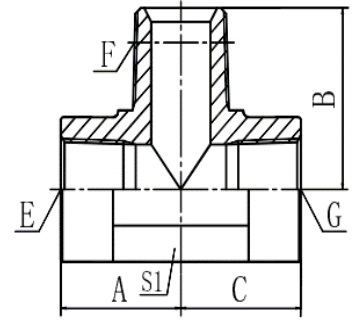
### NPT Male (BSPTM) - Komatsu Male

AS-1066SS-0414	NPTM-04(BSPT) X M14X1.5 KOMATSU MALE
AS-1066SS-0618	NPTM-06(BSPT) X M18X1.5 KOMATSU MALE
AS-1066SS-0822	NPTM-08(BSPT) X M22X1.5 KOMATSU MALE
AS-1066SS-0824	NPTM-08(BSPT) X M24X1.5 KOMATSU MALE
AS-1066SS-1230	NPTM-12(BSPT) X M30X1.5 KOMATSU MALE



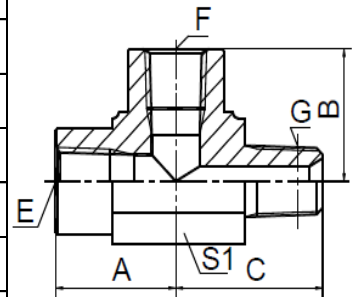
## NPT Female/Male/Female Branch Tee-Piece

AS-1210TB-0202	NPT-02 FMF MALE BRANCH TEE
AS-1210TB-0404	NPT-04 FMF MALE BRANCH TEE
AS-1210TB-0606	NPT-06 FMF MALE BRANCH TEE
AS-1210TB-0808	NPT-08 FMF MALE BRANCH TEE
AS-1210TB-1212	NPT-12 FMF MALE BRANCH TEE
AS-1210TB-1616	NPT-16 FMF MALE BRANCH TEE
AS-1210TB-2020	NPT-20 FMF MALE BRANCH TEE



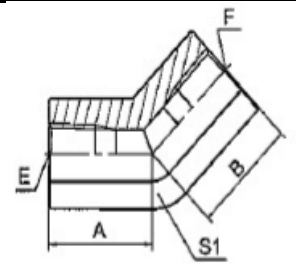
## NPT Female/Female/Male Run Tee-Piece

AS-1210TR-0202	NPT FFM -02 MALE RUN TEE
AS-1210TR-0404	NPT FFM -04 MALE RUN TEE
AS-1210TR-0606	NPT FFM -06 MALE RUN TEE
AS-1210TR-0808	NPT FFM -08 MALE RUN TEE
AS-1210TR-1212	NPT FFM -12 MALE RUN TEE
AS-1210TR-1616	NPT FFM -16 MALE RUN TEE
AS-1210TR-2020	NPT FFM -20 MALE RUN TEE
AS-1210TR-2424	NPT FFM -24 MALE RUN TEE



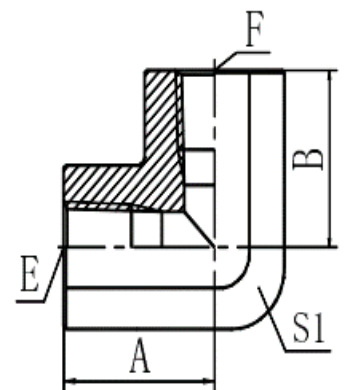
## NPT Female - NPT Female 45° Elbow

AS-1212E4-0404	NPTF-04 X NPTF-04 ELBOW 45°
AS-1212E4-0606	NPTF-06 X NPTF-06 ELBOW 45°
AS-1212E4-0808	NPTF-08 X NPTF-08 ELBOW 45°
AS-1212E4-1212	NPTF-12 X NPTF-12 ELBOW 45°



## NPT Female - NPT Female 90° Elbow

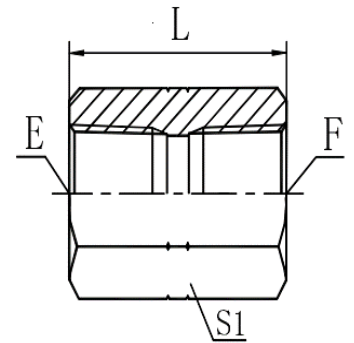
AS-1212E9-0202	NPTF-02 X NPTF-02 ELBOW 90°
AS-1212E9-0404	NPTF-04 X NPTF-04 ELBOW 90°
AS-1212E9-0606	NPTF-06 X NPTF-06 ELBOW 90°
AS-1212E9-0808	NPTF-08 X NPTF-08 ELBOW 90°
AS-1212E9-1212	NPTF-12 X NPTF-12 ELBOW 90°
AS-1212E9-1616	NPTF-16 X NPTF-16 ELBOW 90°
AS-1212E9-2020	NPTF-20 X NPTF-20 ELBOW 90°
AS-1212E9-2424	NPTF-24 X NPTF-24 ELBOW 90°
AS-1212E9-3232	NPTF-32 X NPTF-32 ELBOW 90°





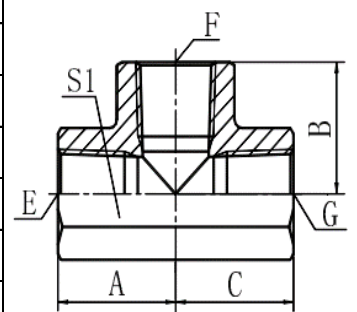
## NPT Fixed Female Coupling

AS-1212SS-0202	NPTF-02 X NPTF-02 SOCKET
AS-1212SS-0204	NPTF-02 X NPTF-04 SOCKET
AS-1212SS-0206	NPTF-02 X NPTF-06 SOCKET
AS-1212SS-0404	NPTF-04 X NPTF-04 SOCKET
AS-1212SS-0406	NPTF-04 X NPTF-06 SOCKET
AS-1212SS-0408	NPTF-04 X NPTF-08 SOCKET
AS-1212SS-0412	NPTF-04 X NPTF-12 SOCKET
AS-1212SS-0606	NPTF-06 X NPTF-06 SOCKET
AS-1212SS-0608	NPTF-06 X NPTF-08 SOCKET
AS-1212SS-0612	NPTF-06 X NPTF-12 SOCKET
AS-1212SS-0808	NPTF-08 X NPTF-08 SOCKET
AS-1212SS-0812	NPTF-08 X NPTF-12 SOCKET
AS-1212SS-0816	NPTF-08 X NPTF-16 SOCKET
AS-1212SS-1212	NPTF-12 X NPTF-12 SOCKET
AS-1212SS-1216	NPTF-12 X NPTF-16 SOCKET
AS-1212SS-1616	NPTF-16 X NPTF-16 SOCKET
AS-1212SS-1620	NPTF-16 X NPTF-20 SOCKET
AS-1212SS-2020	NPTF-20 X NPTF-20 SOCKET
AS-1212SS-2424	NPTF-24 X NPTF-24 SOCKET
AS-1212SS-3232	NPTF-32 X NPTF-32 SOCKET



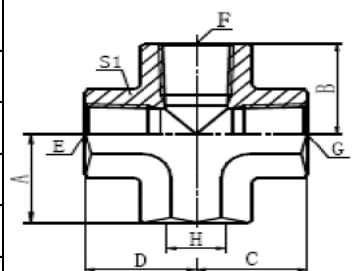
## NPT Female All Round Tee-Piece

AS-1212TT-0202	NPT-02 FEMALE TEE
AS-1212TT-0404	NPT-04 FEMALE TEE
AS-1212TT-0606	NPT-06 FEMALE TEE
AS-1212TT-0808	NPT-08 FEMALE TEE
AS-1212TT-1212	NPT-12 FEMALE TEE
AS-1212TT-1616	NPT-16 FEMALE TEE
AS-1212TT-2020	NPT-20 FEMALE TEE
AS-1212TT-2424	NPT-24 FEMALE TEE
AS-1212TT-3232	NPT-32 FEMALE TEE



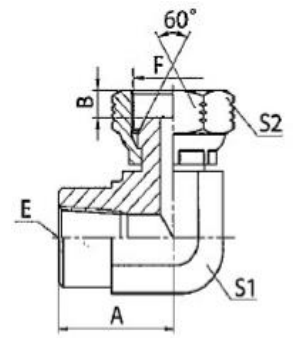
## NPT Female Cross Piece

AS-1212XX-0202	NPT-02 FEMALE CROSS
AS-1212XX-0404	NPT-04 FEMALE CROSS
AS-1212XX-0606	NPT-06 FEMALE CROSS
AS-1212XX-0808	NPT-08 FEMALE CROSS
AS-1212XX-1212	NPT-12 FEMALE CROSS
AS-1212XX-1616	NPT-16 FEMALE CROSS



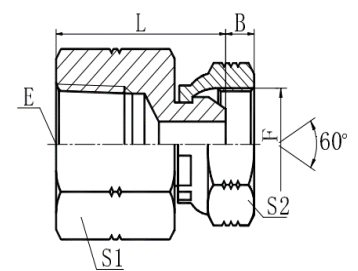
## NPT Female Fixed - NPT Female Swivel 90°

AS-1213E9-0202	NPTF-02 X NPTFS-02 ELBOW 90°
AS-1213E9-0404	NPTF-04 X NPTFS-04 ELBOW 90°
AS-1213E9-0606	NPTF-06 X NPTFS-06 ELBOW 90°
AS-1213E9-0808	NPTF-08 X NPTFS-08 ELBOW 90°
AS-1213E9-1212	NPTF-12 X NPTFS-12 ELBOW 90°
AS-1213E9-1616	NPTF-16 X NPTFS-16 ELBOW 90°
AS-1213E9-2020	NPTF-20 X NPTFS-20 ELBOW 90°



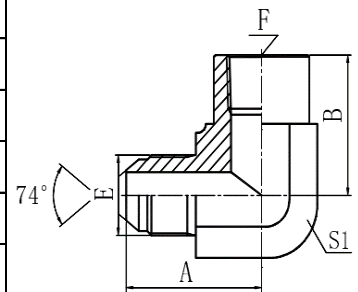
## NPT Female Fixed - NPT Female Swivel

AS-1213SS-0404	NPTF-04 X NPTFS-04 ADAPTOR
AS-1213SS-0406	NPTF-04 X NPTFS-06 ADAPTOR
AS-1213SS-0606	NPTF-06 X NPTFS-06 ADAPTOR
AS-1213SS-0608	NPTF-06 X NPTFS-08 ADAPTOR
AS-1213SS-0806	NPTF-08 X NPTFS-06 ADAPTOR
AS-1213SS-0808	NPTF-08 X NPTFS-08 ADAPTOR
AS-1213SS-1212	NPTF-12 X NPTFS-12 ADAPTOR
AS-1213SS-1616	NPTF-16 X NPTFS-16 ADAPTOR
AS-1213SS-2020	NPTF-20 X NPTFS-20 ADAPTOR



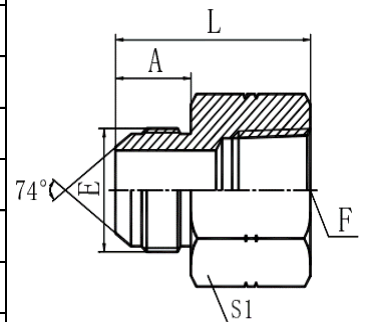
## NPT Female - JIC Male Fixed Reducer 90° Elbow

AS-1230E9-0404	NPTF-04 X JICM-04 ELBOW 90°
AS-1230E9-0406	NPTF-04 X JICM-06 ELBOW 90°
AS-1230E9-0606	NPTF-06 X JICM-06 ELBOW 90°
AS-1230E9-0808	NPTF-08 X JICM-08 ELBOW 90°
AS-1230E9-0810	NPTF-08 X JICM-10 ELBOW 90°
AS-1230E9-1212	NPTF-12 X JICM-12 ELBOW 90°



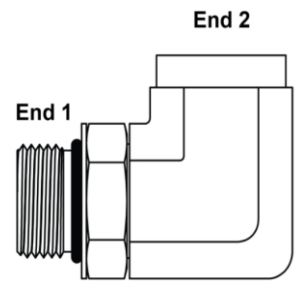
## NPT Female - JIC Male Fixed Reducer

AS-1230SS-0204	NPTF-02 X JICM-04 ADAPTOR
AS-1230SS-0404	NPTF-04 X JICM-04 ADAPTOR
AS-1230SS-0406	NPTF-04 X JICM-06 ADAPTOR
AS-1230SS-0606	NPTF-06 X JICM-06 ADAPTOR
AS-1230SS-0608	NPTF-06 X JICM-08 ADAPTOR
AS-1230SS-0808	NPTF-08 X JICM-08 ADAPTOR
AS-1230SS-0810	NPTF-08 X JICM-10 ADAPTOR
AS-1230SS-0812	NPTF-08 X JICM-12 ADAPTOR
AS-1230SS-1212	NPTF-12 X JICM-12 ADAPTOR
AS-1230SS-1616	NPTF-16 X JICM-16 ADAPTOR
AS-1230SS-2020	NPTF-20 X JICM-20 ADAPTOR



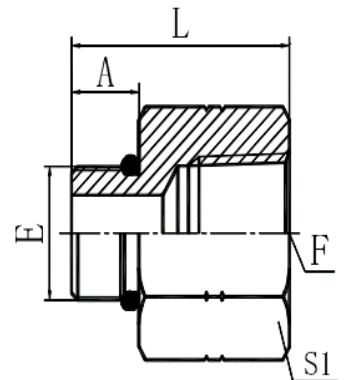
## NPT Female - SAE Male 90° Elbow

AS-1251E9-0608	NPTF-06 X SAEM-08 ELBOW 90°
AS-1251E9-0810	NPTF-08 X SAEM-10 ELBOW 90°
AS-1251E9-1212	NPTF-12 X SAEM-12 ELBOW 90°
AS-1251E9-1616	NPTF-16 X SAEM-16 ELBOW 90°



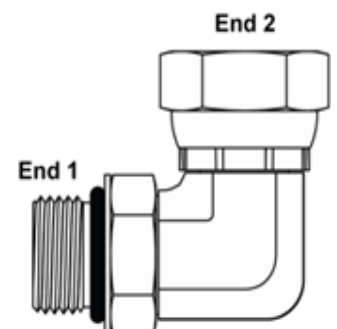
## NPT Female - SAE Male Fixed Reducer

AS-1251SS-0404	NPTF-04 X SAEM-04 STRAIGHT ADAPTOR
AS-1251SS-0406	NPTF-04 X SAEM-06 STRAIGHT ADAPTOR
AS-1251SS-0408	NPTF-04 X SAEM-08 STRAIGHT ADAPTOR
AS-1251SS-0410	NPTF-04 X SAEM-10 STRAIGHT ADAPTOR
AS-1251SS-0604	NPTF-06 X SAEM-04 STRAIGHT ADAPTOR
AS-1251SS-0606	NPTF-06 X SAEM-06 STRAIGHT ADAPTOR
AS-1251SS-0608	NPTF-06 X SAEM-08 STRAIGHT ADAPTOR
AS-1251SS-0610	NPTF-06 X SAEM-10 STRAIGHT ADAPTOR
AS-1251SS-0808	NPTF-08 X SAEM-08 STRAIGHT ADAPTOR
AS-1251SS-0810	NPTF-08 X SAEM-10 STRAIGHT ADAPTOR
AS-1251SS-0812	NPTF-08 X SAEM-12 STRAIGHT ADAPTOR
AS-1251SS-0816	NPTF-08 X SAEM-16 STRAIGHT ADAPTOR
AS-1251SS-1210	NPTF-12 X SAEM-10 STRAIGHT ADAPTOR
AS-1251SS-1212	NPTF-12 X SAEM-12 STRAIGHT ADAPTOR
AS-1251SS-1216	NPTF-12 X SAEM-16 STRAIGHT ADAPTOR
AS-1251SS-1612	NPTF-16 X SAEM-12 STRAIGHT ADAPTOR
AS-1251SS-1616	NPTF-16 X SAEM-16 STRAIGHT ADAPTOR
AS-1251SS-1620	NPTF-16 X SAEM-20 STRAIGHT ADAPTOR
AS-1251SS-2020	NPTF-20 X SAEM-20 STRAIGHT ADAPTOR
AS-1251SS-2024	NPTF-20 X SAEM-24 STRAIGHT ADAPTOR
AS-1251SS-2424	NPTF-24 X SAEM-24 STRAIGHT ADAPTOR

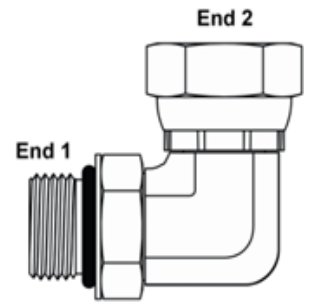


## NPT Female Swivel - SAE Male 90° Elbow

AS-1351E9-0404	NPTFS-04 X SAEM-04 ELBOW 90°
AS-1351E9-0406	NPTFS-04 X SAEM-06 ELBOW 90°
AS-1351E9-0604	NPTFS-06 X SAEM-04 ELBOW 90°
AS-1351E9-0606	NPTFS-06 X SAEM-06 ELBOW 90°
AS-1351E9-0608	NPTFS-06 X SAEM-08 ELBOW 90°
AS-1351E9-0610	NPTFS-06 X SAEM-10 ELBOW 90°
AS-1351E9-0806	NPTFS-08 X SAEM-06 ELBOW 90°
AS-1351E9-0808	NPTFS-08 X SAEM-08 ELBOW 90°

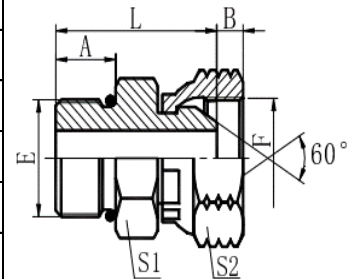


AS-1351E9-0810	NPTFS-08 X SAEM-10 ELBOW 90°
AS-1351E9-0812	NPTFS-08 X SAEM-12 ELBOW 90°
AS-1351E9-1208	NPTFS-12 X SAEM-08 ELBOW 90°
AS-1351E9-1210	NPTFS-12 X SAEM-10 ELBOW 90°
AS-1351E9-1212	NPTFS-12 X SAEM-12 ELBOW 90°
AS-1351E9-1616	NPTFS-16 X SAEM-16 ELBOW 90°
AS-1351E9-2020	NPTFS-20 X SAEM-20 ELBOW 90°



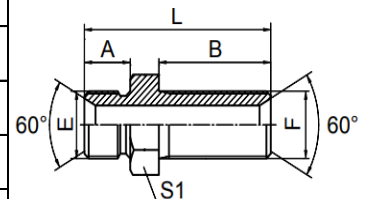
### NPT Female Swivel - SAE Male

AS-1351SS-0404	NPTFS-04 X SAEM-04 STRAIGHT ADAPTOR
AS-1351SS-0406	NPTFS-04 X SAEM-06 STRAIGHT ADAPTOR
AS-1351SS-0604	NPTFS-06 X SAEM-04 STRAIGHT ADAPTOR
AS-1351SS-0606	NPTFS-06 X SAEM-06 STRAIGHT ADAPTOR
AS-1351SS-0608	NPTFS-06 X SAEM-08 STRAIGHT ADAPTOR
AS-1351SS-0610	NPTFS-06 X SAEM-10 STRAIGHT ADAPTOR
AS-1351SS-0806	NPTFS-08 X SAEM-06 STRAIGHT ADAPTOR
AS-1351SS-0808	NPTFS-08 X SAEM-08 STRAIGHT ADAPTOR
AS-1351SS-0810	NPTFS-08 X SAEM-10 STRAIGHT ADAPTOR
AS-1351SS-0812	NPTFS-08 X SAEM-12 STRAIGHT ADAPTOR
AS-1351SS-1208	NPTFS-12 X SAEM-08 STRAIGHT ADAPTOR
AS-1351SS-1210	NPTFS-12 X SAEM-10 STRAIGHT ADAPTOR
AS-1351SS-1212	NPTFS-12 X SAEM-12 STRAIGHT ADAPTOR
AS-1351SS-1216	NPTFS-12 X SAEM-16 STRAIGHT ADAPTOR
AS-1351SS-1616	NPTFS-16 X SAEM-16 STRAIGHT ADAPTOR
AS-1351SS-2020	NPTFS-20 X SAEM-20 STRAIGHT ADAPTOR



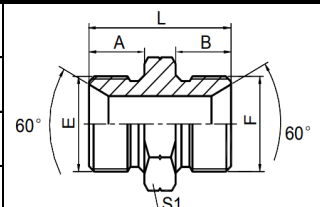
### BSP - BSP Male Bulkhead & Locknut

AS-2020BS-0404	BSPM-04 BULKHEAD + LOCK NUT
AS-2020BS-0606	BSPM-06 BULKHEAD + LOCK NUT
AS-2020BS-0808	BSPM-08 BULKHEAD + LOCK NUT
AS-2020BS-1010	BSPM-10 BULKHEAD + LOCK NUT
AS-2020BS-1212	BSPM-12 BULKHEAD + LOCK NUT
AS-2020BS-1616	BSPM-16 BULKHEAD + LOCK NUT
AS-2020BS-2020	BSPM-20 BULKHEAD + LOCK NUT
AS-2020BS-2424	BSPM-24 BULKHEAD + LOCK NUT

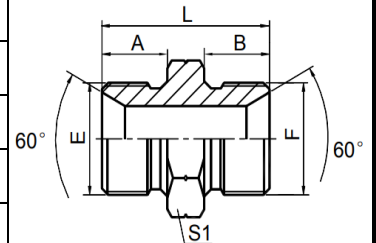


### BSP Male - BSP Male

AS-2020SS-0202	BSPM-02 X BSPM-02 STRAIGHT ADAPTOR
AS-2020SS-0204	BSPM-02 X BSPM-04 STRAIGHT ADAPTOR
AS-2020SS-0404	BSPM-04 X BSPM-04 STRAIGHT ADAPTOR
AS-2020SS-0406	BSPM-04 X BSPM-06 STRAIGHT ADAPTOR
AS-2020SS-0408	BSPM-04 X BSPM-08 STRAIGHT ADAPTOR

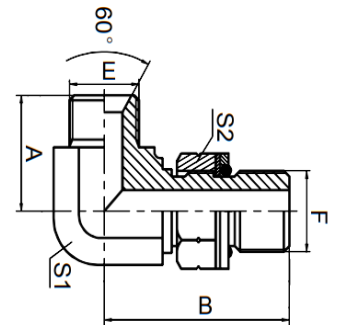


AS-2020SS-0606	BSPM-06 X BSPM-06 STRAIGHT ADAPTOR
AS-2020SS-0608	BSPM-06 X BSPM-08 STRAIGHT ADAPTOR
AS-2020SS-0612	BSPM-06 X BSPM-12 STRAIGHT ADAPTOR
AS-2020SS-0616	BSPM-06 X BSPM-16 STRAIGHT ADAPTOR
AS-2020SS-0808	BSPM-08 X BSPM-08 STRAIGHT ADAPTOR
AS-2020SS-0810	BSPM-08 X BSPM-10 STRAIGHT ADAPTOR
AS-2020SS-0812	BSPM-08 X BSPM-12 STRAIGHT ADAPTOR
AS-2020SS-0816	BSPM-08 X BSPM-16 STRAIGHT ADAPTOR
AS-2020SS-1010	BSPM-10 X BSPM-10 STRAIGHT ADAPTOR
AS-2020SS-1012	BSPM-10 X BSPM-12 STRAIGHT ADAPTOR
AS-2020SS-1212	BSPM-12 X BSPM-12 STRAIGHT ADAPTOR
AS-2020SS-1216	BSPM-12 X BSPM-16 STRAIGHT ADAPTOR
AS-2020SS-1220	BSPM-12 X BSPM-20 STRAIGHT ADAPTOR
AS-2020SS-1616	BSPM-16 X BSPM-16 STRAIGHT ADAPTOR
AS-2020SS-1620	BSPM-16 X BSPM-20 STRAIGHT ADAPTOR
AS-2020SS-1624	BSPM-16 X BSPM-24 STRAIGHT ADAPTOR
AS-2020SS-2020	BSPM-20 X BSPM-20 STRAIGHT ADAPTOR
AS-2020SS-2024	BSPM-20 X BSPM-24 STRAIGHT ADAPTOR
AS-2020SS-2424	BSPM-24 X BSPM-24 STRAIGHT ADAPTOR
AS-2020SS-2432	BSPM-24 X BSPM-32 STRAIGHT ADAPTOR
AS-2020SS-3232	BSPM-32 X BSPM-32 STRAIGHT ADAPTOR



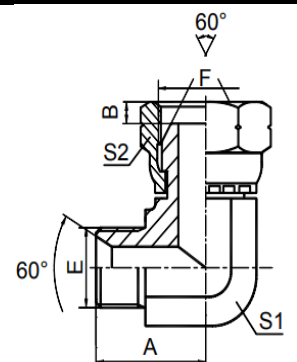
### BSP Male - BSP Male 90° Elbow + Locknut

AS-2021E9-0404	BSPM-04 X BSPM-04ED ELBOW 90°+ LOCK NUT
AS-2021E9-0606	BSPM-06 X BSPM-06ED ELBOW 90°+ LOCK NUT
AS-2021E9-0808	BSPM-08 X BSPM-08ED ELBOW 90°+ LOCK NUT
AS-2021E9-1212	BSPM-12 X BSPM-12ED ELBOW 90°+ LOCK NUT
AS-2021E9-1616	BSPM-16 X BSPM-16ED ELBOW 90°+ LOCK NUT



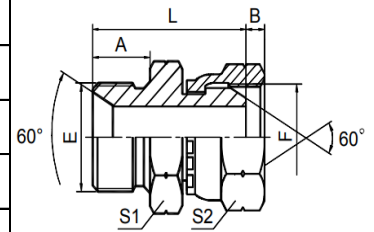
### BSP Male - BSP Female Swivel 90° Elbow

AS-2023E9-0404	BSPM-04 X BSPFS-04 ELBOW 90°
AS-2023E9-0606	BSPM-06 X BSPFS-06 ELBOW 90°
AS-2023E9-0808	BSPM-08 X BSPFS-08 ELBOW 90°
AS-2023E9-1212	BSPM-12 X BSPFS-12 ELBOW 90°
AS-2023E9-1616	BSPM-16 X BSPFS-16 ELBOW 90°



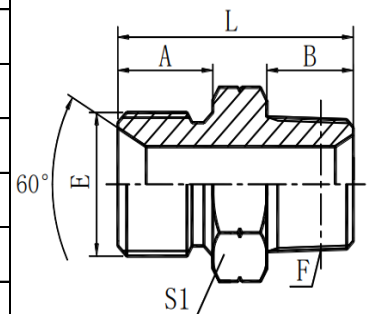
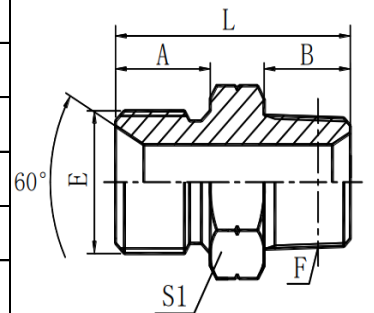
## BSP Male - BSP Female Swivel Straight

AS-2023SS-0204	BSPM-02 X BSPFS-04 STRAIGHT ADAPTOR
AS-2023SS-0404	BSPM-04 X BSPFS-04 STRAIGHT ADAPTOR
AS-2023SS-0406	BSPM-04 X BSPFS-06 STRAIGHT ADAPTOR
AS-2023SS-0606	BSPM-06 X BSPFS-06 STRAIGHT ADAPTOR
AS-2023SS-0808	BSPM-08 X BSPFS-08 STRAIGHT ADAPTOR
AS-2023SS-1212	BSPM-12 X BSPFS-12 STRAIGHT ADAPTOR
AS-2023SS-1616	BSPM-16 X BSPFS-16 STRAIGHT ADAPTOR
AS-2023SS-2020	BSPM-20 X BSPFS-20 STRAIGHT ADAPTOR



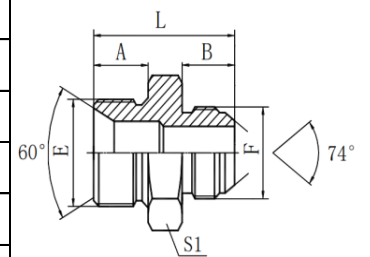
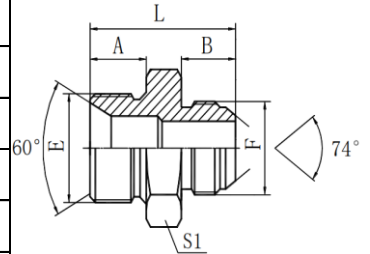
## BSP Male - BSP Tapered Male

AS-2028SS-0202	BSPM-02 X BSPTM-02 STRAIGHT ADAPTOR
AS-2028SS-0204	BSPM-02 X BSPTM-04 STRAIGHT ADAPTOR
AS-2028SS-0402	BSPM-04 X BSPTM-02 STRAIGHT ADAPTOR
AS-2028SS-0404	BSPM-04 X BSPTM-04 STRAIGHT ADAPTOR
AS-2028SS-0406	BSPM-04 X BSPTM-06 STRAIGHT ADAPTOR
AS-2028SS-0408	BSPM-04 X BSPTM-08 STRAIGHT ADAPTOR
AS-2028SS-0604	BSPM-06 X BSPTM-04 STRAIGHT ADAPTOR
AS-2028SS-0606	BSPM-06 X BSPTM-06 STRAIGHT ADAPTOR
AS-2028SS-0608	BSPM-06 X BSPTM-08 STRAIGHT ADAPTOR
AS-2028SS-0804	BSPM-08 X BSPTM-04 STRAIGHT ADAPTOR
AS-2028SS-0806	BSPM-08 X BSPTM-06 STRAIGHT ADAPTOR
AS-2028SS-0808	BSPM-08 X BSPTM-08 STRAIGHT ADAPTOR
AS-2028SS-0812	BSPM-08 X BSPTM-12 STRAIGHT ADAPTOR
AS-2028SS-0816	BSPM-08 X BSPTM-16 STRAIGHT ADAPTOR
AS-2028SS-1208	BSPM-12 X BSPTM-08 STRAIGHT ADAPTOR
AS-2028SS-1212	BSPM-12 X BSPTM-12 STRAIGHT ADAPTOR
AS-2028SS-1216	BSPM-12 X BSPTM-16 STRAIGHT ADAPTOR
AS-2028SS-1612	BSPM-16 X BSPTM-12 STRAIGHT ADAPTOR
AS-2028SS-1616	BSPM-16 X BSPTM-16 STRAIGHT ADAPTOR
AS-2028SS-1620	BSPM-16 X BSPTM-20 STRAIGHT ADAPTOR
AS-2028SS-2016	BSPM-20 X BSPTM-16 STRAIGHT ADAPTOR
AS-2028SS-2020	BSPM-20 X BSPTM-20 STRAIGHT ADAPTOR
AS-2028SS-2024	BSPM-20 X BSPTM-24 STRAIGHT ADAPTOR
AS-2028SS-2420	BSPM-24 X BSPTM-20 STRAIGHT ADAPTOR
AS-2028SS-2424	BSPM-24 X BSPTM-24 STRAIGHT ADAPTOR
AS-2028SS-3232	BSPM-32 X BSPTM-32 STRAIGHT ADAPTOR



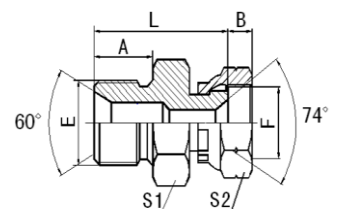
## BSP Male - JIC Male

AS-2030SS-0204	BSPM-02 X JICM-04 STRAIGHT ADAPTOR
AS-2030SS-0404	BSPM-04 X JICM-04 STRAIGHT ADAPTOR
AS-2130SS-0405	BSPM-04 ED X JICM-05 STRAIGHT ADAPTOR
AS-2030SS-0406	BSPM-04 X JICM-06 STRAIGHT ADAPTOR
AS-2030SS-0408	BSPM-04 X JICM-08 STRAIGHT ADAPTOR
AS-2030SS-0604	BSPM-06 X JICM-04 STRAIGHT ADAPTOR
AS-2030SS-0606	BSPM-06 X JICM-06 STRAIGHT ADAPTOR
AS-2030SS-0608	BSPM-06 X JICM-08 STRAIGHT ADAPTOR
AS-2030SS-0610	BSPM-06 X JICM-10 STRAIGHT ADAPTOR
AS-2030SS-0804	BSPM-08 X JICM-04 STRAIGHT ADAPTOR
AS-2030SS-0806	BSPM-08 X JICM-06 STRAIGHT ADAPTOR
AS-2030SS-0808	BSPM-08 X JICM-08 STRAIGHT ADAPTOR
AS-2030SS-0810	BSPM-08 X JICM-10 STRAIGHT ADAPTOR
AS-2030SS-0812	BSPM-08 X JICM-12 STRAIGHT ADAPTOR
AS-2030SS-1010	BSPM-10 X JICM-10 STRAIGHT ADAPTOR
AS-2030SS-1012	BSPM-10 X JICM-12 STRAIGHT ADAPTOR
AS-2030SS-1206	BSPM-12 X JICM-06 STRAIGHT ADAPTOR
AS-2030SS-1208	BSPM-12 X JICM-08 STRAIGHT ADAPTOR
AS-2030SS-1210	BSPM-12 X JICM-10 STRAIGHT ADAPTOR
AS-2030SS-1212	BSPM-12 X JICM-12 STRAIGHT ADAPTOR
AS-2030SS-1216	BSPM-12 X JICM-16 STRAIGHT ADAPTOR
AS-2030SS-1612	BSPM-16 X JICM-12 STRAIGHT ADAPTOR
AS-2030SS-1616	BSPM-16 X JICM-16 STRAIGHT ADAPTOR
AS-2030SS-1620	BSPM-16 X JICM-20 STRAIGHT ADAPTOR
AS-2030SS-1624	BSPM-16 X JICM-24 STRAIGHT ADAPTOR
AS-2030SS-2012	BSPM-20 X JICM-12 STRAIGHT ADAPTOR
AS-2030SS-2016	BSPM-20 X JICM-16 STRAIGHT ADAPTOR
AS-2030SS-2020	BSPM-20 X JICM-20 STRAIGHT ADAPTOR
AS-2030SS-2024	BSPM-20 X JICM-24 STRAIGHT ADAPTOR
AS-2030SS-2416	BSPM-24 X JICM-16 STRAIGHT ADAPTOR
AS-2030SS-2420	BSPM-24 X JICM-20 STRAIGHT ADAPTOR
AS-2030SS-2424	BSPM-24 X JICM-24 STRAIGHT ADAPTOR
AS-2030SS-3232	BSPM-32 X JICM-32 STRAIGHT ADAPTOR



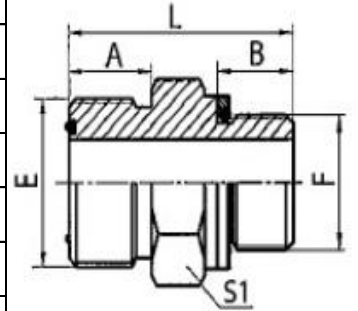
## BSP Male - JIC Female Swivel Straight

AS-2033SS-0404	BSPM-04 X JICFS-04 STRAIGHT ADAPTOR
AS-2033SS-0606	BSPM-06 X JICFS-06 STRAIGHT ADAPTOR
AS-2033SS-0808	BSPM-08 X JICFS-08 STRAIGHT ADAPTOR
AS-2033SS-1212	BSPM-12 X JICFS-12 STRAIGHT ADAPTOR
AS-2033SS-1616	BSPM-16 X JICFS-16 STRAIGHT ADAPTOR



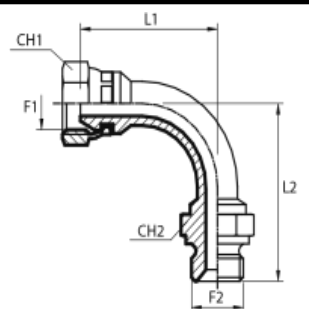
## BSP Male - ORFS Male

AS-2041SS-0206	1/8 BSPM X 3/8 ORFS MALE
AS-2041SS-0404	1/4 BSPM X 1/4 ORFS MALE
AS-2041SS-0406	1/4 BSPM X 3/8 ORFS MALE
AS-2041SS-0408	1/4 BSPM X 1/2 ORFS MALE
AS-2041SS-0604	3/8 BSPM X 1/4 ORFS MALE
AS-2041SS-0606	3/8 BSPM X 3/8 ORFS MALE
AS-2041SS-0608	3/8 BSPM X 1/2 ORFS MALE
AS-2041SS-0804	1/2 BSPM X 1/4 ORFS MALE
AS-2041SS-0806	1/2 BSPM X 3/8 ORFS MALE
AS-2041SS-0808	1/2 BSPM X 1/2 ORFS MALE
AS-2041SS-0810	1/2 BSPM X 5/8 ORFS MALE
AS-2041SS-0812	1/2 BSPM X 3/4 ORFS MALE
AS-2041SS-1208	3/4 BSPM X 1/2 ORFS MALE
AS-2041SS-1210	3/4 BSPM X 5/8 ORFS MALE
AS-2041SS-1212	3/4 BSPM X 3/4 ORFS MALE
AS-2041SS-1216	3/4 BSPM X 1 ORFS MALE
AS-2041SS-1612	1 BSPM X 3/4 ORFS MALE
AS-2041SS-1616	1 BSPM X 1 ORFS MALE
AS-2041SS-1620	1 BSPM X 1 1/4 ORFS MALE
AS-2041SS-2016	1 1/4 BSPM X 1 ORFS MALE
AS-2041SS-2020	1 1/4 BSPM X 1 1/4 ORFS MALE



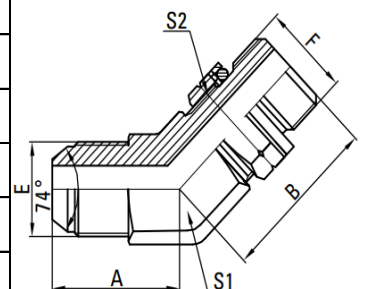
## BSP Male ED - BSP Female Swivel 90° Elbow + Locknut

AS-2123E9-0404	BSPM-04ED X BSPFS-04 ELBOW 90°+LOCK NUT
AS-2123E9-0606	BSPM-06ED X BSPFS-06 ELBOW 90°+LOCK NUT
AS-2123E9-0808	BSPM-08ED X BSPFS-08 ELBOW 90°+LOCK NUT
AS-2123E9-1212	BSPM-12ED X BSPFS-12 ELBOW 90°+LOCK NUT



## BSP Male ED - JIC Male 45° Elbow

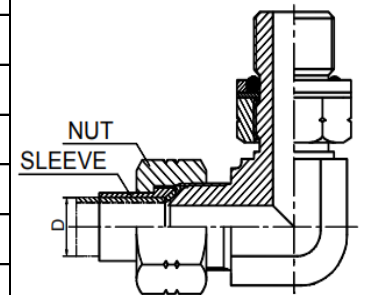
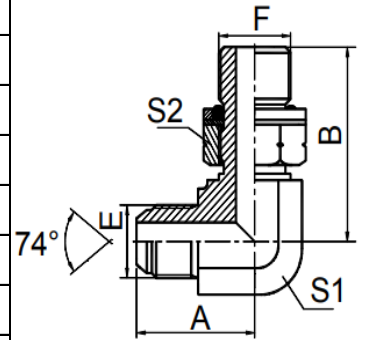
AS-2130E4-0204	BSPM-02ED X JICM-04 ELBOW 45° ADAPTOR
AS-2130E4-0406	BSPM-04ED X JICM-06 ELBOW 45° ADAPTOR
AS-2130E4-0608	BSPM-06ED X JICM-08 ELBOW 45° ADAPTOR
AS-2130E4-0808	BSPM-08ED X JICM-08 ELBOW 45° ADAPTOR
AS-2130E4-0810	BSPM-08ED X JICM-10 ELBOW 45° ADAPTOR
AS-2130E4-1212	BSPM-12ED X JICM-12 ELBOW 45° ADAPTOR
AS-2130E4-1616	BSPM-16ED X JICM-16 ELBOW 45° ADAPTOR





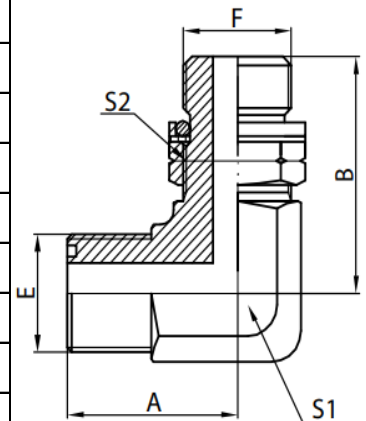
## BSP Male ED - JIC Male 90° Elbow

AS-2130E9-0204	BSPM-02ED X JICM-04 ELBOW 90° ADAPTOR
AS-2130E9-0404	BSPM-04ED X JICM-04 ELBOW 90° ADAPTOR
AS-2130E9-0405	BSPM-04ED X JICM-05 ELBOW 90° ADAPTOR
AS-2130E9-0406	BSPM-04ED X JICM-06 ELBOW 90° ADAPTOR
AS-2130E9-0408	BSPM-04ED X JICM-08 ELBOW 90° ADAPTOR
AS-2130E9-0604	BSPM-06ED X JICM-04 ELBOW 90° ADAPTOR
AS-2130E9-0606	BSPM-06ED X JICM-06 ELBOW 90° ADAPTOR
AS-2130E9-0608	BSPM-06ED X JICM-08 ELBOW 90° ADAPTOR
AS-2130E9-0610	BSPM-06ED X JICM-10 ELBOW 90° ADAPTOR
AS-2130E9-0806	BSPM-08ED X JICM-06 ELBOW 90° ADAPTOR
AS-2130E9-0808	BSPM-08ED X JICM-08 ELBOW 90° ADAPTOR
AS-2130E9-0810	BSPM-08ED X JICM-10 ELBOW 90° ADAPTOR
AS-2130E9-0812	BSPM-08ED X JICM-12 ELBOW 90° ADAPTOR
AS-2130E9-1208	BSPM-12ED X JICM-08 ELBOW 90° ADAPTOR
AS-2130E9-1210	BSPM-12ED X JICM-10 ELBOW 90° ADAPTOR
AS-2130E9-1212	BSPM-12ED X JICM-12 ELBOW 90° ADAPTOR
AS-2130E9-1216	BSPM-12ED X JICM-16 ELBOW 90° ADAPTOR
AS-2130E9-1612	BSPM-16ED X JICM-12 ELBOW 90° ADAPTOR
AS-2130E9-1616	BSPM-16ED X JICM-16 ELBOW 90° ADAPTOR
AS-2130E9-1620	BSPM-16ED X JICM-20 ELBOW 90° ADAPTOR
AS-2130E9-2020	BSPM-20ED X JICM-20 ELBOW 90° ADAPTOR
AS-2130E9-2424	BSPM-24ED X JICM-24 ELBOW 90° ADAPTOR



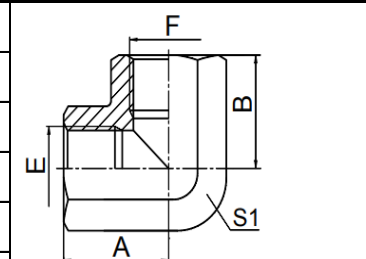
## BSP Male - ORFS Male 90° Elbow

AS-2141E9-0404	1/4 BSPM X 1/4 ORFS MALE 90°
AS-2141E9-0406	1/4 BSPM X 3/8 ORFS MALE 90°
AS-2141E9-0604	3/8 BSPM X 1/4 ORFS MALE 90°
AS-2141E9-0606	3/8 BSPM X 3/8 ORFS MALE 90°
AS-2141E9-0608	3/8 BSPM X 1/2 ORFS MALE 90°
AS-2141E9-0806	1/2 BSPM X 3/8 ORFS MALE 90°
AS-2141E9-0808	1/2 BSPM X 1/2 ORFS MALE 90°
AS-2141E9-0810	1/2 BSPM X 5/8 ORFS MALE 90°
AS-2141E9-0812	1/2 BSPM X 3/4 ORFS MALE 90°
AS-2141E9-1616	1 BSPM X 1 ORFS MALE 90°



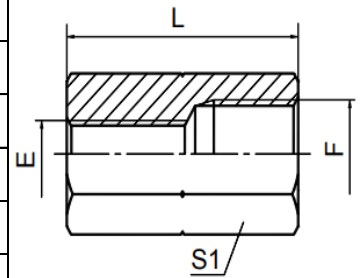
## BSP Female - BSP Female 90° Elbow

AS-2222E9-0202	BSPF-02 X BSPF-02 ELBOW 90°
AS-2222E9-0404	BSPF-04 X BSPF-04 ELBOW 90°
AS-2222E9-0606	BSPF-06 X BSPF-06 ELBOW 90°
AS-2222E9-0808	BSPF-08 X BSPF-08 ELBOW 90°
AS-2222E9-1212	BSPF-12 X BSPF-12 ELBOW 90°
AS-2222E9-1616	BSPF-16 X BSPF-16 ELBOW 90°



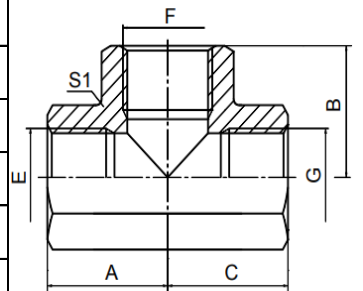
## BSP Fixed Female Socket

AS-2222SS-0404	BSPF-04 X BSPF-04 SOCKET
AS-2222SS-0606	BSPF-06 X BSPF-06 SOCKET
AS-2222SS-0808	BSPF-08 X BSPF-08 SOCKET
AS-2222SS-1212	BSPF-12 X BSPF-12 SOCKET
AS-2222SS-1616	BSPF-16 X BSPF-16 SOCKET
AS-2222SS-2020	BSPF-20 X BSPF-20 SOCKET
AS-2222SS-2424	BSPF-24 X BSPF-24 SOCKET



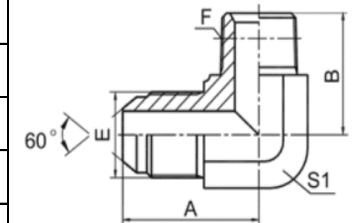
## BSP Female All Round Tee-Piece

AS-2222TT-0404	BSP-04 FEMALE TEE
AS-2222TT-0606	BSP-06 FEMALE TEE
AS-2222TT-0808	BSP-08 FEMALE TEE
AS-2222TT-1212	BSP-12 FEMALE TEE
AS-2222TT-1616	BSP-16 FEMALE TEE
AS-2222TT-2020	BSP-20 FEMALE TEE
AS-2222TT-2424	BSP-24 FEMALE TEE



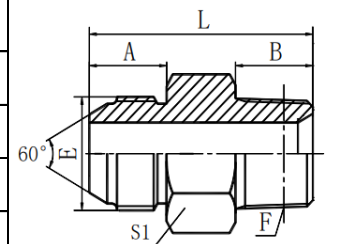
## Japanese BSP Male - BSP Tapered Male 90° Elbow

AS-2628E9-0404	JAP-BSPM-04 X BSPTM-04 90° ELBOW
AS-2628E9-0606	JAP-BSPM-06 X BSPTM-06 90° ELBOW
AS-2628E9-0808	JAP-BSPM-08 X BSPTM-08 90° ELBOW
AS-2628E9-1212	JAP-BSPM-12 X BSPTM-12 90° ELBOW



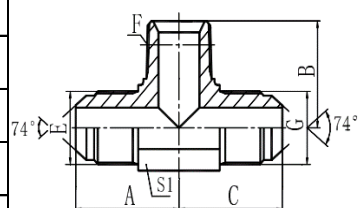
## Japanese BSP Male - BSP Tapered Male Straight

AS-2628SS-0404	JAP-BSPM-04 X BSPTM-04 STRAIGHT
AS-2628SS-0606	JAP-BSPM-06 X BSPTM-06 STRAIGHT
AS-2628SS-0808	JAP-BSPM-08 X BSPTM-08 STRAIGHT
AS-2628SS-1212	JAP-BSPM-12 X BSPTM-12 STRAIGHT



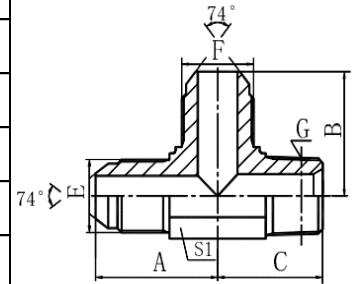
## JIC Male - NPT Male Branch Tee-Piece

AS-3010TB-0404	JICM-04 X NPTM-04 X JICM-04 BRANCH TEE
AS-3010TB-0604	JICM-06 X NPTM-04 X JICM-06 BRANCH TEE
AS-3010TB-0606	JICM-06 X NPTM-06 X JICM-06 BRANCH TEE
AS-3010TB-0806	JICM-08 X NPTM-06 X JICM-08 BRANCH TEE
AS-3010TB-0808	JICM-08 X NPTM-08 X JICM-08 BRANCH TEE
AS-3010TB-1008	JICM-10 X NPTM-08 X JICM-10 BRANCH TEE
AS-3010TB-1212	JICM-12 X NPTM-12 X JICM-12 BRANCH TEE
AS-3010TB-1616	JICM-16 X NPTM-16 X JICM-16 BRANCH TEE



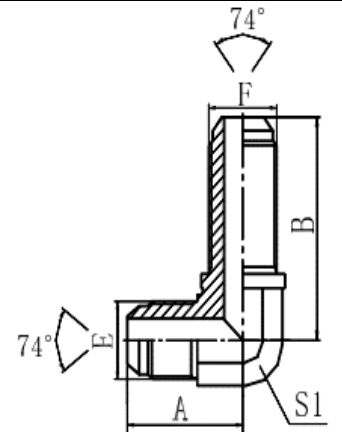
## JIC Male - NPT Male Run Tee-Piece

AS-3010TR-0402	JICM-04 X NPTM-02 RUN TEE
AS-3010TR-0404	JICM-04 X NPTM-04 RUN TEE
AS-3010TR-0502	JICM-05 X NPTM-02 RUN TEE
AS-3010TR-0604	JICM-06 X NPTM-04 RUN TEE
AS-3010TR-0606	JICM-06 X NPTM-06 RUN TEE
AS-3010TR-0806	JICM-08 X NPTM-06 RUN TEE
AS-3010TR-0808	JICM-08 X NPTM-08 RUN TEE
AS-3010TR-1008	JICM-10 X NPTM-08 RUN TEE
AS-3010TR-1212	JICM-12 X NPTM-12 RUN TEE
AS-3010TR-1412	JICM-14 X NPTM-12 RUN TEE
AS-3010TR-1616	JICM-16 X NPTM-16 RUN TEE
AS-3010TR-2020	JICM-20 X NPTM-20 RUN TEE
AS-3010TR-2424	JICM-24 X NPTM-24 RUN TEE



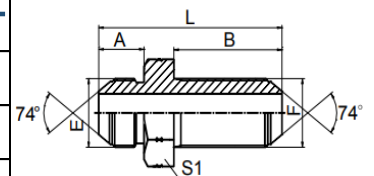
## JIC Male 90° Elbow Bulkhead + Locknut

AS-3030B9-0404	JICM-04 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-0505	JICM-05 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-0606	JICM-06 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-0808	JICM-08 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-1010	JICM-10 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-1212	JICM-12 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-1616	JICM-16 ELBOW 90° BULKHEAD + LOCK NUT
AS-3030B9-2020	JICM-20 ELBOW 90° BULKHEAD + LOCK NUT



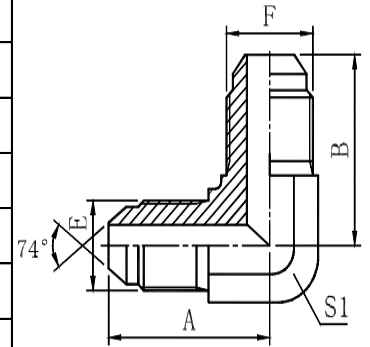
## JIC Male Straight Bulkhead & Lock-Nut

AS-3030BS-0404	JICM-04 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-0505	JICM-05 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-0606	JICM-06 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-0808	JICM-08 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-1010	JICM-10 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-1212	JICM-12 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-1616	JICM-16 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-2020	JICM-20 STRAIGHT BULKHEAD WITH LOCK NUT
AS-3030BS-2424	JICM-24 STRAIGHT BULKHEAD WITH LOCK NUT



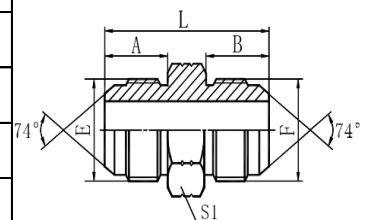
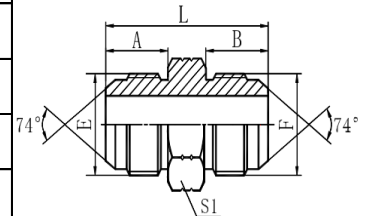
## JIC Male - JIC Male 90° Elbow

AS-3030E9-0404	JICM-04 X JICM-04 ELBOW 90°
AS-3030E9-0505	JICM-05 X JICM-05 ELBOW 90°
AS-3030E9-0606	JICM-06 X JICM-06 ELBOW 90°
AS-3030E9-0808	JICM-08 X JICM-08 ELBOW 90°
AS-3030E9-1010	JICM-10 X JICM-10 ELBOW 90°
AS-3030E9-1212	JICM-12 X JICM-12 ELBOW 90°
AS-3030E9-1616	JICM-16 X JICM-16 ELBOW 90°
AS-3030E9-2020	JICM-20 X JICM-20 ELBOW 90°
AS-3030E9-2424	JICM-20 X JICM-20 ELBOW 90°



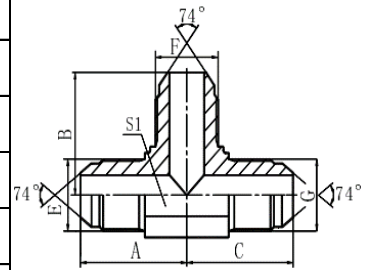
## JIC Male - JIC Male Straight / Union Flare

AS-3030SS-0202	JICM-02 X JICM-02 NIPPLE
AS-3030SS-0404	JICM-04 X JICM-04 NIPPLE
AS-3030SS-0405	JICM-04 X JICM-05 NIPPLE
AS-3030SS-0406	JICM-04 X JICM-06 NIPPLE
AS-3030SS-0505	JICM-05 X JICM-05 NIPPLE
AS-3030SS-0506	JICM-05 X JICM-06 NIPPLE
AS-3030SS-0606	JICM-06 X JICM-06 NIPPLE
AS-3030SS-0608	JICM-06 X JICM-08 NIPPLE
AS-3030SS-0808	JICM-08 X JICM-08 NIPPLE
AS-3030SS-0810	JICM-08 X JICM-10 NIPPLE
AS-3030SS-0812	JICM-08 X JICM-12 NIPPLE
AS-3030SS-1010	JICM-10 X JICM-10 NIPPLE
AS-3030SS-1012	JICM-10 X JICM-12 NIPPLE
AS-3030SS-1212	JICM-12 X JICM-12 NIPPLE
AS-3030SS-1214	JICM-12 X JICM-14 NIPPLE
AS-3030SS-1216	JICM-12 X JICM-16 NIPPLE
AS-3030SS-1414	JICM-14 X JICM-14 NIPPLE
AS-3030SS-1616	JICM-16 X JICM-16 NIPPLE
AS-3030SS-1620	JICM-16 X JICM-20 NIPPLE
AS-3030SS-2020	JICM-20 X JICM-20 NIPPLE
AS-3030SS-2424	JICM-24 X JICM-24 NIPPLE
AS-3030SS-3232	JICM-32 X JICM-32 NIPPLE



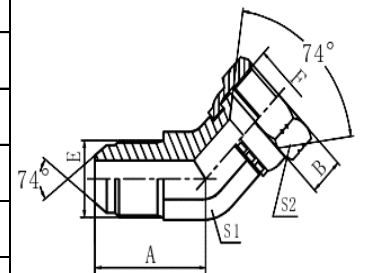
## JIC Male All Round Tee-Piece

AS-3030TT-0404	JIC-04 MALE TEE
AS-3030TT-0505	JIC-05 MALE TEE
AS-3030TT-0606	JIC-06 MALE TEE
AS-3030TT-0808	JIC-08 MALE TEE
AS-3030TT-1010	JIC-10 MALE TEE
AS-3030TT-1212	JIC-12 MALE TEE
AS-3030TT-1616	JIC-16 MALE TEE
AS-3030TT-2020	JIC-20 MALE TEE
AS-3030TT-2424	JIC-24 MALE TEE



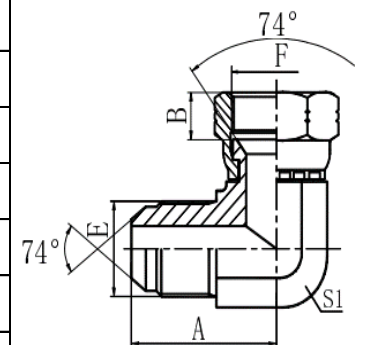
## JIC Male - JIC Female Swivel 45° Elbow

AS-3033E4-0404	JICM-04 X JICFS-04 ELBOW 45°
AS-3033E4-0505	JICM-05 X JICFS-05 ELBOW 45°
AS-3033E4-0606	JICM-06 X JICFS-06 ELBOW 45°
AS-3033E4-0808	JICM-08 X JICFS-08 ELBOW 45°
AS-3033E4-1010	JICM-10 X JICFS-10 ELBOW 45°
AS-3033E4-1212	JICM-12 X JICFS-12 ELBOW 45°
AS-3033E4-1616	JICM-16 X JICFS-16 ELBOW 45°
AS-3033E4-2020	JICM-20 X JICFS-20 ELBOW 45°
AS-3033E4-2424	JICM-24 X JICFS-24 ELBOW 45°



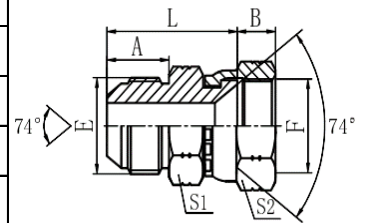
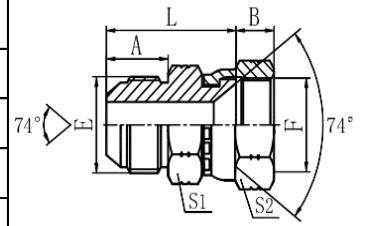
## JIC Male - JIC Female Swivel 90° Elbow

AS-3033E9-0404	JICM-04 X JICFS-04 ELBOW 90°
AS-3033E9-0505	JICM-05 X JICFS-05 ELBOW 90°
AS-3033E9-0606	JICM-06 X JICFS-06 ELBOW 90°
AS-3033E9-0808	JICM-08 X JICFS-08 ELBOW 90°
AS-3033E9-1010	JICM-10 X JICFS-10 ELBOW 90°
AS-3033E9-1212	JICM-12 X JICFS-12 ELBOW 90°
AS-3033E9-1414	JICM-14 X JICFS-14 ELBOW 90°
AS-3033E9-1616	JICM-16 X JICFS-16 ELBOW 90°
AS-3033E9-2020	JICM-20 X JICFS-20 ELBOW 90°
AS-3033E9-2424	JICM-24 X JICFS-24 ELBOW 90°
AS-3033E9-3232	JICM-32 X JICFS-32 ELBOW 90°



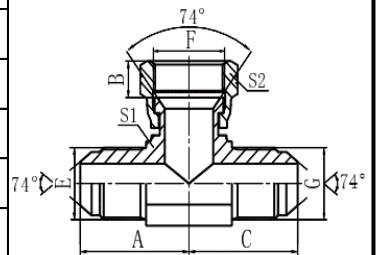
## JIC Male - JIC Female Swivel Fixed Reducer

AS-3033SS-0404	JICM-04 X JICFS-04 STRAIGHT ADAPTOR
AS-3033SS-0406	JICM-04 X JICFS-06 STRAIGHT ADAPTOR
AS-3033SS-0408	JICM-04 X JICFS-08 STRAIGHT ADAPTOR
AS-3033SS-0410	JICM-04 X JICFS-10 STRAIGHT ADAPTOR
AS-3033SS-0412	JICM-04 X JICFS-12 STRAIGHT ADAPTOR
AS-3033SS-0606	JICM-06 X JICFS-06 STRAIGHT ADAPTOR
AS-3033SS-0608	JICM-06 X JICFS-08 STRAIGHT ADAPTOR
AS-3033SS-0610	JICM-06 X JICFS-10 STRAIGHT ADAPTOR
AS-3033SS-0612	JICM-06 X JICFS-12 STRAIGHT ADAPTOR
AS-3033SS-0808	JICM-08 X JICFS-08 STRAIGHT ADAPTOR
AS-3033SS-0810	JICM-08 X JICFS-10 STRAIGHT ADAPTOR
AS-3033SS-0812	JICM-08 X JICFS-12 STRAIGHT ADAPTOR
AS-3033SS-0816	JICM-08 X JICFS-16 STRAIGHT ADAPTOR
AS-3033SS-1010	JICM-10 X JICFS-10 STRAIGHT ADAPTOR
AS-3033SS-1012	JICM-10 X JICFS-12 STRAIGHT ADAPTOR
AS-3033SS-1212	JICM-12 X JICFS-12 STRAIGHT ADAPTOR
AS-3033SS-1216	JICM-12 X JICFS-16 STRAIGHT ADAPTOR
AS-3033SS-1220	JICM-12 X JICFS-20 STRAIGHT ADAPTOR
AS-3033SS-1620	JICM-16 X JICFS-20 STRAIGHT ADAPTOR
AS-3033SS-2024	JICM-20 X JICFS-24 STRAIGHT ADAPTOR



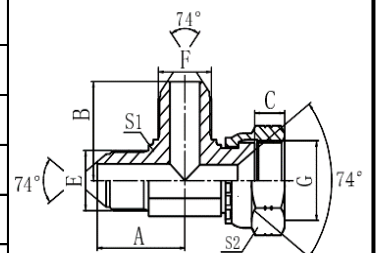
## JIC Male/Female/Male Swivel Nut Branch Tee-Piece

AS-3033TB-0404	JIC-04 MFM BRANCH TEE
AS-3033TB-0505	JIC-05 MFM BRANCH TEE
AS-3033TB-0606	JIC-06 MFM BRANCH TEE
AS-3033TB-0808	JIC-08 MFM BRANCH TEE
AS-3033TB-1010	JIC-10 MFM BRANCH TEE
AS-3033TB-1212	JIC-12 MFM BRANCH TEE
AS-3033TB-1616	JIC-16 MFM BRANCH TEE
AS-3033TB-2020	JIC-20 MFM BRANCH TEE



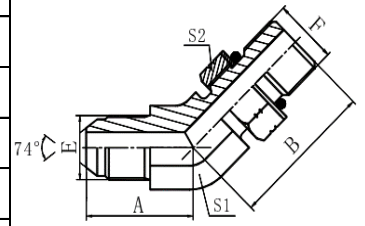
## JIC Male - JIC Female Swivel Nut Run Tee-Piece

AS-3033TR-0404	JICM-04 X JICFS-04 RUN TEE
AS-3033TR-0505	JICM-05 X JICFS-05 RUN TEE
AS-3033TR-0606	JICM-06 X JICFS-06 RUN TEE
AS-3033TR-0808	JICM-08 X JICFS-08 RUN TEE
AS-3033TR-1010	JICM-10 X JICFS-10 RUN TEE
AS-3033TR-1212	JICM-12 X JICFS-12 RUN TEE
AS-3033TR-1616	JICM-16 X JICFS-16 RUN TEE
AS-3033TR-2020	JICM-20 X JICFS-20 RUN TEE
AS-3033TR-2424	JICM-24 X JICFS-24 RUN TEE



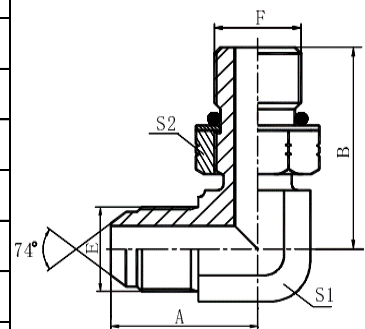
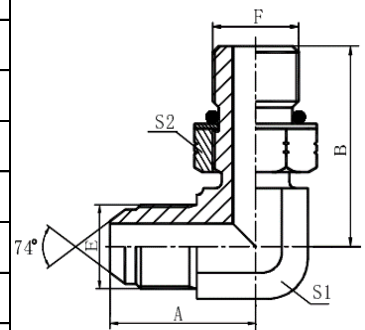
## JIC Male - SAE Male 45° Elbow

AS-3051E4-0404	JICM-04 X SAEM-04 ELBOW 45°
AS-3051E4-0505	JICM-05 X SAEM-05 ELBOW 45°
AS-3051E4-0606	JICM-06 X SAEM-06 ELBOW 45°
AS-3051E4-0806	JICM-08 X SAEM-06 ELBOW 45°
AS-3051E4-0808	JICM-08 X SAEM-08 ELBOW 45°
AS-3051E4-0810	JICM-08 X SAEM-10 ELBOW 45°
AS-3051E4-1010	JICM-10 X SAEM-10 ELBOW 45°
AS-3051E4-1012	JICM-10 X SAEM-12 ELBOW 45°
AS-3051E4-1210	JICM-12 X SAEM-10 ELBOW 45°
AS-3051E4-1212	JICM-12 X SAEM-12 ELBOW 45°
AS-3051E4-1616	JICM-16 X SAEM-16 ELBOW 45°
AS-3051E4-2020	JICM-20 X SAEM-20 ELBOW 45°
AS-3051E4-2424	JICM-24 X SAEM-24 ELBOW 45°



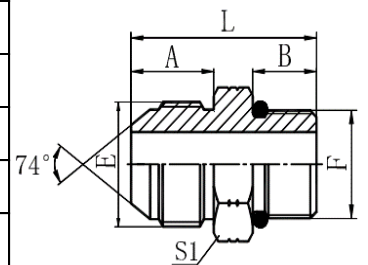
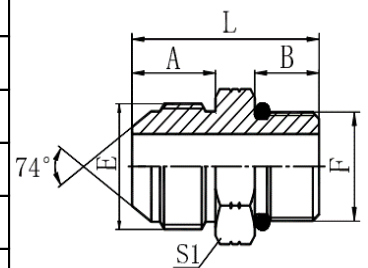
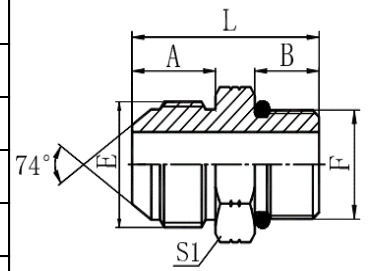
## JIC Male - SAE Male 90° Elbow

AS-3051E9-0404	JICM-04 X SAEM-04 ELBOW 90°
AS-3051E9-0405	JICM-04 X SAEM-05 ELBOW 90°
AS-3051E9-0406	JICM-04 X SAEM-06 ELBOW 90°
AS-3051E9-0504	JICM-05 X SAEM-04 ELBOW 90°
AS-3051E9-0505	JICM-05 X SAEM-05 ELBOW 90°
AS-3051E9-0604	JICM-06 X SAEM-04 ELBOW 90°
AS-3051E9-0606	JICM-06 X SAEM-06 ELBOW 90°
AS-3051E9-0608	JICM-06 X SAEM-08 ELBOW 90°
AS-3051E9-0610	JICM-06 X SAEM-10 ELBOW 90°
AS-3051E9-0806	JICM-08 X SAEM-06 ELBOW 90°
AS-3051E9-0808	JICM-08 X SAEM-08 ELBOW 90°
AS-3051E9-0810	JICM-08 X SAEM-10 ELBOW 90°
AS-3051E9-0812	JICM-08 X SAEM-12 ELBOW 90°
AS-3051E9-1008	JICM-10 X SAEM-08 ELBOW 90°
AS-3051E9-1010	JICM-10 X SAEM-10 ELBOW 90°
AS-3051E9-1012	JICM-10 X SAEM-12 ELBOW 90°
AS-3051E9-1208	JICM-12 X SAEM-08 ELBOW 90°
AS-3051E9-1210	JICM-12 X SAEM-10 ELBOW 90°
AS-3051E9-1212	JICM-12 X SAEM-12 ELBOW 90°
AS-3051E9-1216	JICM-12 X SAEM-16 ELBOW 90°
AS-3051E9-1612	JICM-16 X SAEM-12 ELBOW 90°
AS-3051E9-1616	JICM-16 X SAEM-16 ELBOW 90°
AS-3051E9-1620	JICM-16 X SAEM-20 ELBOW 90°
AS-3051E9-2016	JICM-20 X SAEM-16 ELBOW 90°
AS-3051E9-2020	JICM-20 X SAEM-20 ELBOW 90°
AS-3051E9-2424	JICM-24 X SAEM-24 ELBOW 90°
AS-3051E9-3232	JICM-32 X SAEM-32 ELBOW 90°



## JIC Male - SAE Straight Thread Connector

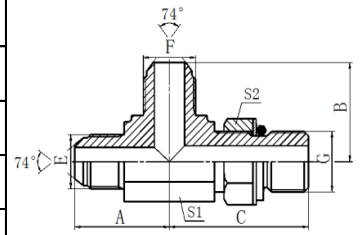
AS-3051SS-0202	JICM-02 X SAEM-02 STRAIGHT ADAPTOR
AS-3051SS-0303	JICM-03 X SAEM-03 STRAIGHT ADAPTOR
AS-3051SS-0404	JICM-04 X SAEM-04 STRAIGHT ADAPTOR
AS-3051SS-0405	JICM-04 X SAEM-05 STRAIGHT ADAPTOR
AS-3051SS-0406	JICM-04 X SAEM-06 STRAIGHT ADAPTOR
AS-3051SS-0408	JICM-04 X SAEM-08 STRAIGHT ADAPTOR
AS-3051SS-0505	JICM-05 X SAEM-05 STRAIGHT ADAPTOR
AS-3051SS-0506	JICM-05 X SAEM-06 STRAIGHT ADAPTOR
AS-3051SS-0604	JICM-06 X SAEM-04 STRAIGHT ADAPTOR
AS-3051SS-0605	JICM-06 X SAEM-05 STRAIGHT ADAPTOR
AS-3051SS-0606	JICM-06 X SAEM-06 STRAIGHT ADAPTOR
AS-3051SS-0608	JICM-06 X SAEM-08 STRAIGHT ADAPTOR
AS-3051SS-0610	JICM-06 X SAEM-10 STRAIGHT ADAPTOR
AS-3051SS-0804	JICM-08 X SAEM-04 STRAIGHT ADAPTOR
AS-3051SS-0806	JICM-08 X SAEM-06 STRAIGHT ADAPTOR
AS-3051SS-0808	JICM-08 X SAEM-08 STRAIGHT ADAPTOR
AS-3051SS-0810	JICM-08 X SAEM-10 STRAIGHT ADAPTOR
AS-3051SS-0812	JICM-08 X SAEM-12 STRAIGHT ADAPTOR
AS-3051SS-0816	JICM-08 X SAEM-16 STRAIGHT ADAPTOR
AS-3051SS-1006	JICM-10 X SAEM-06 STRAIGHT ADAPTOR
AS-3051SS-1008	JICM-10 X SAEM-08 STRAIGHT ADAPTOR
AS-3051SS-1010	JICM-10 X SAEM-10 STRAIGHT ADAPTOR
AS-3051SS-1012	JICM-10 X SAEM-12 STRAIGHT ADAPTOR
AS-3051SS-1208	JICM-12 X SAEM-08 STRAIGHT ADAPTOR
AS-3051SS-1210	JICM-12 X SAEM-10 STRAIGHT ADAPTOR
AS-3051SS-1212	JICM-12 X SAEM-12 STRAIGHT ADAPTOR
AS-3051SS-1216	JICM-12 X SAEM-16 STRAIGHT ADAPTOR
AS-3051SS-1414	JICM-14 X SAEM-14 STRAIGHT ADAPTOR
AS-3051SS-1610	JICM-16 X SAEM-10 STRAIGHT ADAPTOR
AS-3051SS-1612	JICM-16 X SAEM-12 STRAIGHT ADAPTOR
AS-3051SS-1616	JICM-16 X SAEM-16 STRAIGHT ADAPTOR
AS-3051SS-1620	JICM-16 X SAEM-20 STRAIGHT ADAPTOR
AS-3051SS-2016	JICM-20 X SAEM-16 STRAIGHT ADAPTOR
AS-3051SS-2020	JICM-20 X SAEM-20 STRAIGHT ADAPTOR
AS-3051SS-2024	JICM-20 X SAEM-24 STRAIGHT ADAPTOR
AS-3051SS-2420	JICM-24 X SAEM-20 STRAIGHT ADAPTOR
AS-3051SS-2424	JICM-24 X SAEM-24 STRAIGHT ADAPTOR
AS-3051SS-3232	JICM-32 X SAEM-32 STRAIGHT ADAPTOR





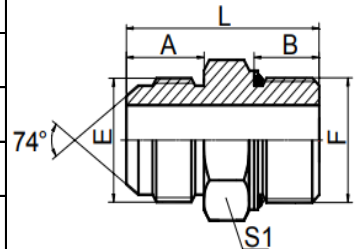
## JIC Male - SAE Male Straight Thread Run Tee-Piece

AS-3051TR-0404	JICM-04 X SAEM-04 MALE RUN TEE
AS-3051TR-0606	JICM-06 X SAEM-06 MALE RUN TEE
AS-3051TR-0808	JICM-08 X SAEM-08 MALE RUN TEE
AS-3051TR-1010	JICM-10 X SAEM-10 MALE RUN TEE
AS-3051TR-1212	JICM-12 X SAEM-12 MALE RUN TEE
AS-3051TR-1616	JICM-16 X SAEM-16 MALE RUN TEE



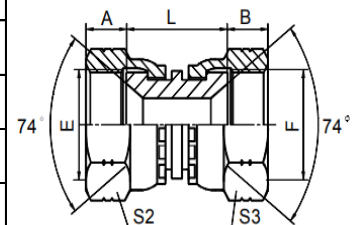
## JIC Male - Metric Male Straight

AS-3061SS-0410	JICM-04 X M10X1.5 MALE ADAPTOR
AS-3061SS-0412	JICM-04 X M12X1.5 MALE ADAPTOR
AS-3061SS-0414	JICM-04 X M14X1.5 MALE ADAPTOR
AS-3061SS-0512	JICM-05 X M12X1.5 MALE ADAPTOR
AS-3061SS-0612	JICM-06 X M12X1.5 MALE ADAPTOR
AS-3061SS-0614	JICM-06 X M14X1.5 MALE ADAPTOR
AS-3061SS-0616	JICM-06 X M16X1.5 MALE ADAPTOR
AS-3061SS-0618	JICM-06 X M18X1.5 MALE ADAPTOR
AS-3061SS-0814	JICM-08 X M14X1.5 MALE ADAPTOR
AS-3061SS-0816	JICM-08 X M16X1.5 MALE ADAPTOR
AS-3061SS-0818	JICM-08 X M18X1.5 MALE ADAPTOR
AS-3061SS-0822	JICM-08 X M22X1.5 MALE ADAPTOR
AS-3061SS-1018	JICM-10 X M18X1.5 MALE ADAPTOR
AS-3061SS-1218	JICM-12 X M18X1.5 MALE ADAPTOR
AS-3061SS-1222	JICM-12 X M22X1.5 MALE ADAPTOR



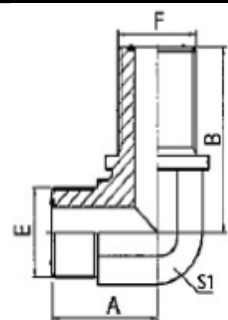
## JIC Female Swivel - JIC Female Swivel Straight

AS-3333SS-0606	3/8 JICFS X 3/8 JICFS ADAPTER STRAIGHT
AS-3333SS-0808	1/2 JICFS X 1/2 JICFS ADAPTER STRAIGHT
AS-3333SS-1010	5/8 JICFS X 5/8 JICFS ADAPTER STRAIGHT
AS-3333SS-1212	3/4 JICFS X 3/4 JICFS ADAPTER STRAIGHT
AS-3333SS-1616	1 JICFS X 1 JICFS ADAPTER STRAIGHT



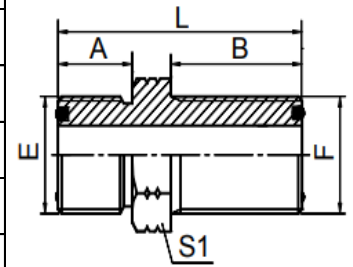
## ORFS Male Bulkhead & Locknut 90°

AS-4141-B9-0606	3/8 ORFS MALE X 3/8 ORFSM 90° Bulkhead
AS-4141-B9-1212	3/4 ORFS MALE X 3/4 ORFSM 90° Bulkhead



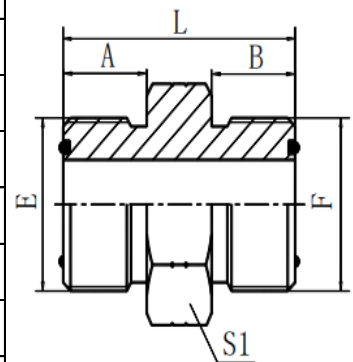
## ORFS Male Bulkhead & Locknut Straight

AS-4141-BS-0404	04-ORFS MALE STRAIGHT Bulkhead
AS-4141-BS-0606	06-ORFS MALE STRAIGHT Bulkhead
AS-4141-BS-0808	08-ORFS MALE STRAIGHT Bulkhead
AS-4141-BS-1010	10-ORFS MALE STRAIGHT Bulkhead
AS-4141-BS-1212	12-ORFS MALE STRAIGHT Bulkhead
AS-4141-BS-1616	16-ORFS MALE STRAIGHT Bulkhead



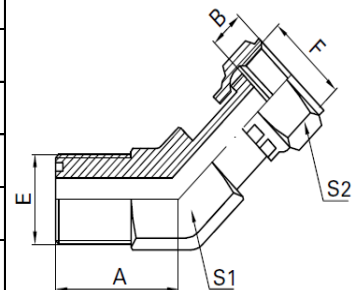
## ORFS Male - ORFS Male

AS-4141SS-0404	1/4 ORFS MALE X 1/4 ORFS MALE
AS-4141SS-0406	1/4 ORFS MALE X 3/8 ORFS MALE
AS-4141SS-0606	3/8 ORFS MALE X 3/8 ORFS MALE
AS-4141SS-0608	3/8 ORFS MALE X 1/2 ORFS MALE
AS-4141SS-0808	1/2 ORFS MALE X 1/2 ORFS MALE
AS-4141SS-0810	1/2 ORFS MALE X 5/8 ORFS MALE
AS-4141SS-1010	5/8 ORFS MALE X 5/8 ORFS MALE
AS-4141SS-1012	5/8 ORFS MALE X 3/4 ORFS MALE
AS-4141SS-1212	3/4 ORFS MALE X 3/4 ORFS MALE
AS-4141SS-1216	3/4 ORFS MALE X 1 ORFS MALE
AS-4141SS-1616	1 ORFS MALE X 1 ORFS MALE
AS-4141SS-2020	1 1/4 ORFS MALE X 1 1/4 ORFS MALE



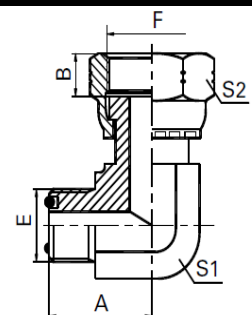
## ORFS Male - ORFS Female Swivel 45°

AS-4143E4-0404	1/4 ORFS MALE X 1/4 ORFS FEM SWIVEL 45°
AS-4143E4-0606	3/8 ORFS MALE X 3/8 ORFS FEM SWIVEL 45°
AS-4143E4-0808	1/2 ORFS MALE X 1/2 ORFS FEM SWIVEL 45°
AS-4143E4-1010	5/8 ORFS MALE X 5/8 ORFS FEM SWIVEL 45°
AS-4143E4-1212	3/4 ORFS MALE X 3/4 ORFS FEM SWIVEL 45°
AS-4143E4-1616	1 ORFS MALE X 1 ORFS FEM SWIVEL 45°



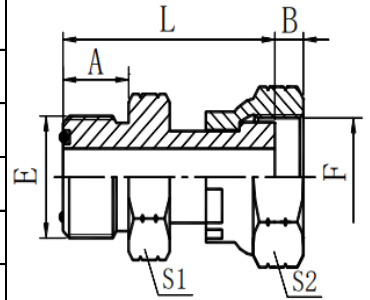
## ORFS Male - ORFS Female Swivel 90°

AS-4143E9-0404	1/4 ORFS MALE X 1/4 ORFS FEM SWIVEL 90°
AS-4143E9-0606	3/8 ORFS MALE X 3/8 ORFS FEM SWIVEL 90°
AS-4143E9-0808	1/2 ORFS MALE X 1/2 ORFS FEM SWIVEL 90°
AS-4143E9-1010	5/8 ORFS MALE X 5/8 ORFS FEM SWIVEL 90°
AS-4143E9-1212	3/4 ORFS MALE X 3/4 ORFS FEM SWIVEL 90°
AS-4143E9-1616	1 ORFS MALE X 1 ORFS FEM SWIVEL 90°



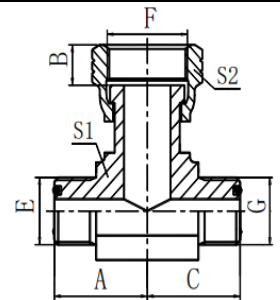
## ORFS Male - ORFS Female Swivel

AS-4143SS-0406	1/4 ORFS MALE X 3/8 ORFS FEMALE SWIVEL
AS-4143SS-0408	1/4 ORFS MALE X 1/2 ORFS FEMALE SWIVEL
AS-4143SS-0604	3/8 ORFS MALE X 1/4 ORFS FEMALE SWIVEL
AS-4143SS-0608	3/8 ORFS MALE X 1/2 ORFS FEMALE SWIVEL
AS-4143SS-0806	1/2 ORFS MALE X 3/8 ORFS FEMALE SWIVEL
AS-4143SS-0812	1/2 ORFS MALE X 3/4 ORFS FEMALE SWIVEL
AS-4143SS-1012	5/8 ORFS MALE X 3/4 ORFS FEMALE SWIVEL
AS-4143SS-1216	3/4 ORFS MALE X 1 ORFS FEMALE SWIVEL
AS-4143SS-1620	1 ORFS MALE X 1 1/4 ORFS FEMALE SWIVEL



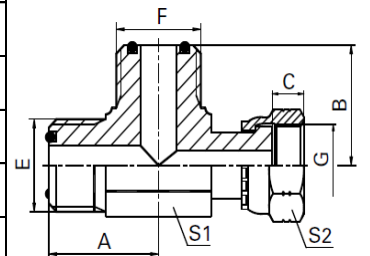
## ORFS Male - ORFS Female Swivel Nut Branch Tee-Piece

AS-4143TB-0404	1/4 ORFS MALE X 1/4 ORFS FEMALE SWIVEL
AS-4143TB-1212	3/4 ORFS MALE X 3/4 ORFS FEMALE SWIVEL



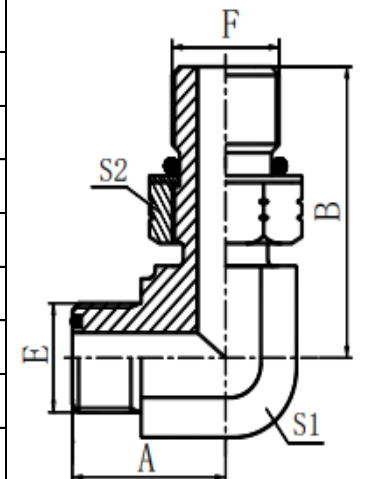
## ORFS Male - ORFS Female Swivel Nut Run Tee-Piece

AS-4143TR-0404	1/4 ORFS MALE X 1/4 ORFS FEMALE SWIVEL
AS-4143TR-0606	3/8 ORFS MALE X 3/8 ORFS FEMALE SWIVEL
AS-4143TR-0808	1/2 ORFS MALE X 1/2 ORFS FEMALE SWIVEL
AS-4143TR-1010	5/8 ORFS MALE X 5/8 ORFS FEMALE SWIVEL
AS-4143TR-1212	3/4 ORFS MALE X 3/4 ORFS FEMALE SWIVEL
AS-4143TR-1616	1 ORFS MALE X 1 ORFS FEMALE SWIVEL

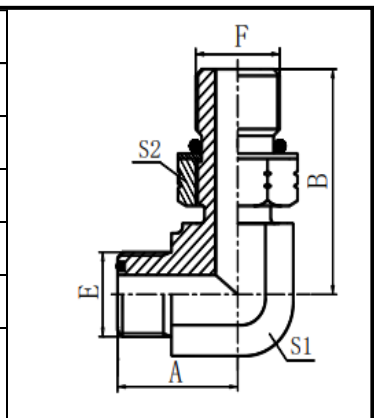


## ORFS Male - SAE Male 90°

AS-4151E9-0404	1/4 ORFS MALE X 1/4 SAEM 90°
AS-4151E9-0406	1/4 ORFS MALE X 3/8 SAEM 90°
AS-4151E9-0604	3/8 ORFS MALE X 1/4 SAEM 90°
AS-4151E9-0606	3/8 ORFS MALE X 3/8 SAEM 90°
AS-4151E9-0608	3/8 ORFS MALE X 1/2 SAEM 90°
AS-4151E9-0806	1/2 ORFS MALE X 3/8 SAEM 90°
AS-4151E9-0808	1/2 ORFS MALE X 1/2 SAEM 90°
AS-4151E9-0810	1/2 ORFS MALE X 5/8 SAEM 90°
AS-4151E9-0812	1/2 ORFS MALE X 3/4 SAEM 90°
AS-4151E9-1008	5/8 ORFS MALE X 1/2 SAEM 90°
AS-4151E9-1010	5/8 ORFS MALE X 5/8 SAEM 90°
AS-4151E9-1012	5/8 ORFS MALE X 3/4 SAEM 90°

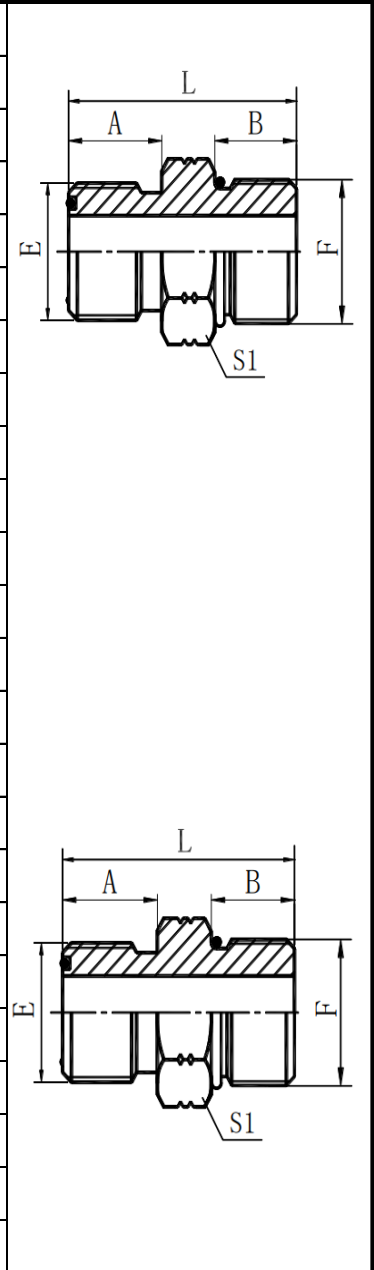


AS-4151E9-1208	3/4 ORFS MALE X 1/2 SAEM 90°
AS-4151E9-1210	3/4 ORFS MALE X 5/8 SAEM 90°
AS-4151E9-1212	3/4 ORFS MALE X 3/4 SAEM 90°
AS-4151E9-1216	3/4 ORFS MALE X 1 SAEM 90°
AS-4151E9-1612	1 ORFS MALE X 3/4 SAEM 90°
AS-4151E9-1616	1 ORFS MALE X 1 SAEM 90°



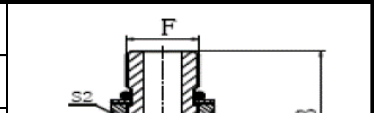
**ORFS Male - SAE Male Straight**

AS-4151SS-0404	1/4 ORFS MALE X 1/4 SAEM
AS-4151SS-0405	1/4 ORFS MALE X 5/16 SAEM
AS-4151SS-0406	1/4 ORFS MALE X 3/8 SAEM
AS-4151SS-0408	1/4 ORFS MALE X 1/2 SAEM
AS-4151SS-0604	3/8 ORFS MALE X 1/4 SAEM
AS-4151SS-0606	3/8 ORFS MALE X 3/8 SAEM
AS-4151SS-0608	3/8 ORFS MALE X 1/2 SAEM
AS-4151SS-0610	3/8 ORFS MALE X 5/8 SAEM
AS-4151SS-0806	1/2 ORFS MALE X 3/8 SAEM
AS-4151SS-0808	1/2 ORFS MALE X 1/2 SAEM
AS-4151SS-0810	1/2 ORFS MALE X 5/8 SAEM
AS-4151SS-0812	1/2 ORFS MALE X 3/4 SAEM
AS-4151SS-1008	5/8 ORFS MALE X 1/2 SAEM
AS-4151SS-1010	5/8 ORFS MALE X 5/8 SAEM
AS-4151SS-1012	5/8 ORFS MALE X 3/4 SAEM
AS-4151SS-1208	3/4 ORFS MALE X 1/2 SAEM
AS-4151SS-1210	3/4 ORFS MALE X 5/8 SAEM
AS-4151SS-1212	3/4 ORFS MALE X 3/4 SAEM
AS-4151SS-1216	3/4 ORFS MALE X 1 SAEM
AS-4151SS-1608	1 ORFS MALE X 1/2 SAEM
AS-4151SS-1616	1 ORFS MALE X 1 SAEM
AS-4151SS-1620	1 ORFS MALE X 1 1/4 SAEM
AS-4151SS-2020	1 1/4 ORFS MALE X 1 1/4 SAEM



**ORFS Male - SAEM Branch Tee-Piece**

AS-4151TB-0606	3/8 ORFS MALE X 3/8 SAEM Branch Tee
AS-4151TB-0808	1/2 ORFS MALE X 1/2 SAEM Branch Tee



# ADAPTORS PART NUMBER BREAKDOWN

FITTING GROUP	THREAD LOWEST	THREAD HIGHEST	TYPE CODE	SIZE - SIDE 1	SIZE - SIDE 2
AS -	10	30	SS -	04	06

FITTING GROUP	
AS	Adaptor Steel
LB	Low Pressure Brass
HB	High Pressure Brass
AC	Adaptor SST
AP	Adaptor Plastic
LG	Low Pressure Galvanized
LC	Low Pressure SST
AU	Adaptor Unplated

TYPE CODE	
PH	Hex Plug
PI	In-Hex Plug
PC	Plug Cap
SS	Straight
SL	Long Straight
SV	Sleeve
E9	Elbow 90°
E4	Elbow 45°
EL	Elbow Long
TT	Tee
TR	Tee Run
TB	Tee Branch
BS	Bulkhead Straight
B4	Bulkhead 45°
B9	Bulkhead 90°
BT	Bulkhead Tee
NB	Nut Bulkhead
NT	Nut Tube
XX	Cross
FF	Ferrule

SIZE	
SIDE 1 & 2	
1/8"	02
1/4"	04
5/16"	05
3/8"	06
1/2"	08
5/8"	10
3/4"	12
1"	16
1 1/4"	20
1 1/2"	24
2"	32

THREAD											
		FIXED MALE		FIXED FEMALE	FEMALE SWIVEL	MALE SWIVEL	MALE	MALE	FEMALE	OTHER	???
		no seal	std seal				non std seal	non std chamfer	non std chamfer		
THREAD CODE		0	1	2	3	4	5	6	7	8	9
1	NPT	10		12	13	14 <small>npt male swivel</small>					
2	BSP	20	21 <small>BSPM-ED</small>	22	23	24 <small>BSPM-SWIVEL</small>		26 <small>JAP BSP MALE</small>	27 <small>JAP BSP FEMALE</small>	28 <small>BSPT MALE</small>	29 <small>BSPT FEMALE</small>
3	JIC	30		32	33						
4	ORFS		41		43						
5	SAE FLARE	50 <small>45° FLARE M</small>	51 <small>SAE O-RING</small>	52	53 <small>45° FLARE F</small>						
6	METRIC	60	61 <small>METRIC ED</small>		63		65 <small>METRIC O-RING</small>	66 <small>KOMATSU MALE</small>	67 <small>KOMATSU FEMALE</small>	68 <small>WAP FEM</small>	69 <small>KARCHER FEM</small>
7	FLANGE	70 <small>3000 FLAT FACE</small>	71 <small>3000 O-RING</small>	72 <small>6000 FLAT FACE</small>	73 <small>6000 O-RING</small>						
8	HOSE TAIL	80 <small>STD HOSE TAIL</small>	81 <small>BUTT WELD</small>	82 <small>SOCKET WELD</small>							
9	??									98 <small>FERRULE LOK</small>	