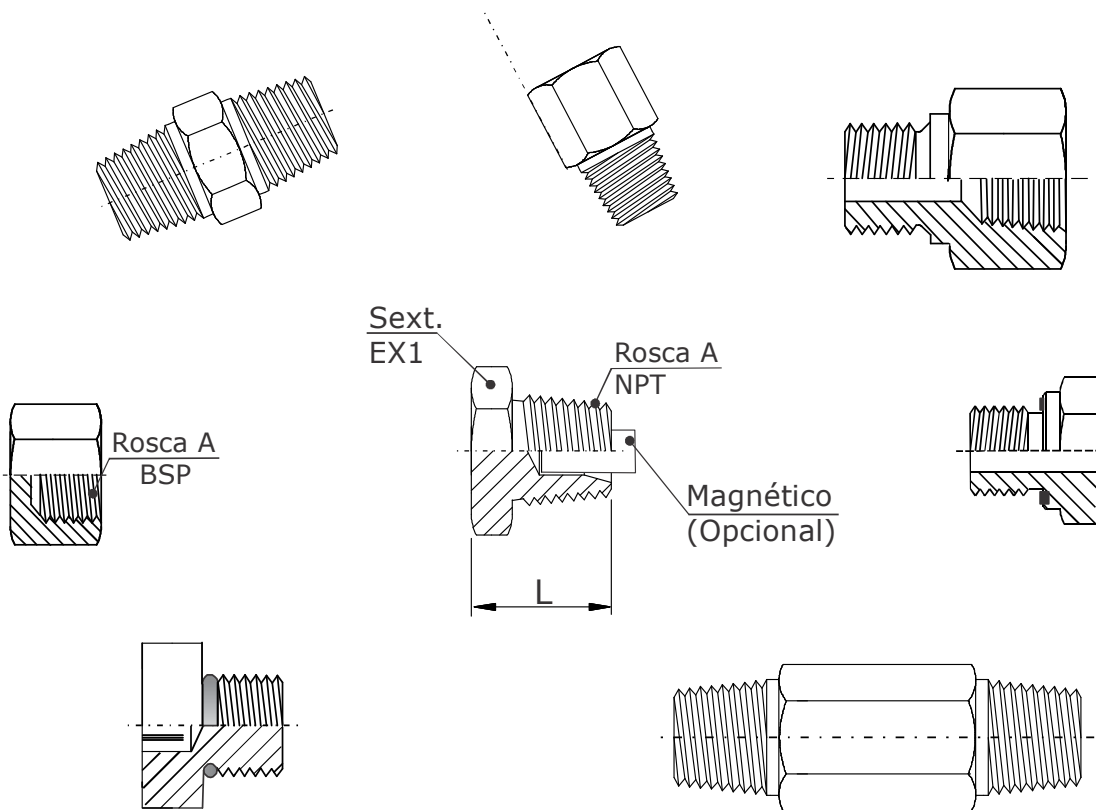


Adaptadores

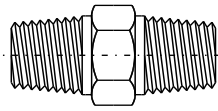
Bujões (Plugs) e Tampões



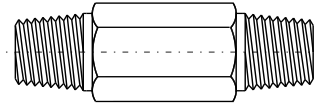
ISO 8434-1

ADAPTADORES

ADAPTADORES MACHO/MACHO NPT (Niples NPT/NPT)

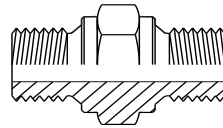


MMS.....NPT
Pág. 10

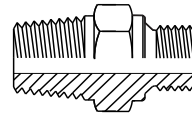


MMS.....NPT (Longo)
Pág. 11

ADAPTADORES MACHO/MACHO BSP e NPT x BSP (Niples BSP/BSP e NPT/BSP)

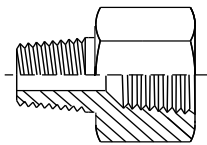


MMS.....BSP
Pág. 12

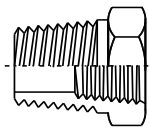


MMS.....NPT X BSP
Pág. 13

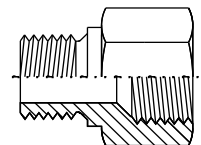
ADAPTADORES MACHO/FEMALE NPT e BSP (Reducers/Expanders NPT/NPT e BSP/BSP)



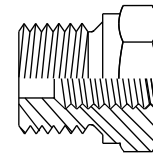
MFS.....NPT
Pág. 14



MFS.....NPT
Pág. 14

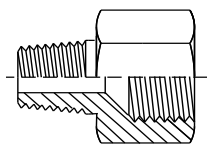


MFS.....BSP
Pág. 15

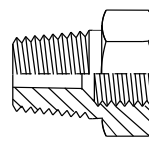


MFS.....BSP
Pág. 15

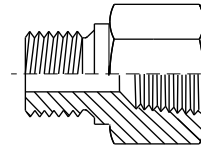
ADAPTADORES MACHO/FEMALE NPTxBSP e BSPxNPT (Reducers/Expanders NPT/BSP)



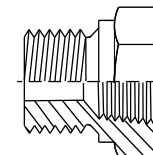
MFS.....NPT X BSP
Pág. 16



MFS.....NPT X BSP
Pág. 16

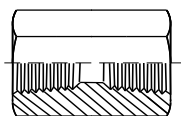


MFS.....BSP X NPT
Pág. 17

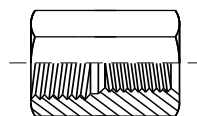


MFS.....BSP X NPT
Pág. 17

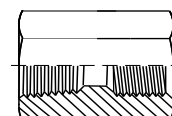
ADAPTADORES FEMALE/FEMALE NPT , BSP e NPT x BSP (Couplings NPT/BSP)



FFS.....NPT
Pág. 18



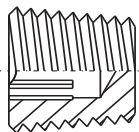
FFS.....BSP
Pág. 19



FFS.....NPT X BSP
Pág. 20

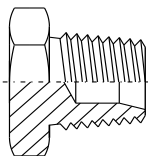
ADAPTADORES

BUJÕES NPT (Hollow Hex Head, Hex Head)



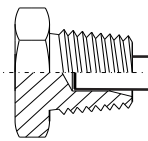
BSIS.....NPT

Pág. 21



BJS.....NPT

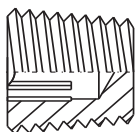
Pág. 21



BMS.....NPT

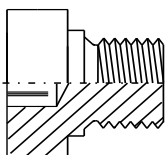
Pág. 21

BUJÕES BSPT e BSP (Hollow Hex Head, Hex Head)



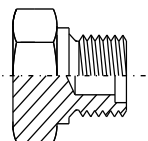
BSIS.....BSPT

Pág. 22



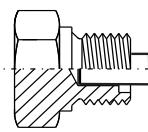
BSIS.....BSP

Pág. 22



BJS.....BSP

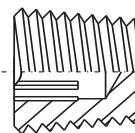
Pág. 22



BMS.....BSP

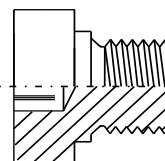
Pág. 22

BUJÕES MÉTRICA CÔNICA e MÉTRICA (Hollow Hex Head, Hex Head)



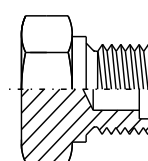
BSIS MK.....

Pág. 23



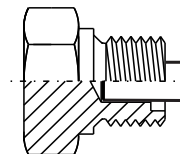
BSIS M.....

Pág. 23



BJS M.....

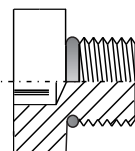
Pág. 23



BMS M.....

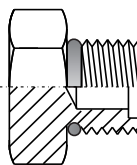
Pág. 23

BUJÕES UNF/UN (Hollow Hex Head, Hex Head)



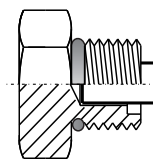
BSISUNF/UN

Pág. 24



BJS.....UNF/UN

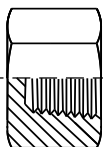
Pág. 24



BMS.....UNF/UN

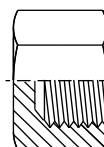
Pág. 24

TAMPÃO NPT/BSP (Pipe Caps)



TPFS.....NPT

Pág. 25



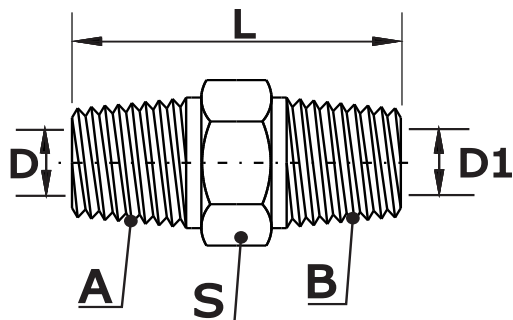
TPFS.....BSP

Pág. 25

ADAPTADORES

ADAPTADOR MACHO NPT (Pipe Niple)

MMSNPT

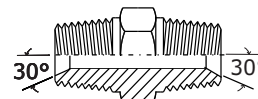


Ref.	Rosca A NPT	Rosca B NPT	L	ØD	ØD1	S
MMS 1/8X1/8 NPT	1/8	1/8	27	5	5	7/16
MMS 1/4X1/8 NPT	1/4	1/8	32	7	5	5/8
MMS 1/4X1/4 NPT	1/4	1/4	37	7	7	5/8
MMS 3/8X1/8 NPT	3/8	1/8	37	10	5	3/4
MMS 3/8X1/4 NPT	3/8	1/4	37	10	7	3/4
MMS 3/8X3/8 NPT	3/8	3/8	37	10	10	3/4
MMS 1/2X1/8 NPT	1/2	1/8	39	14	5	7/8
MMS 1/2X1/4 NPT	1/2	1/4	43	14	7	7/8
MMS 1/2X3/8 NPT	1/2	3/8	43	14	10	7/8
MMS 1/2X1/2 NPT	1/2	1/2	48	14	14	7/8
MMS 3/4X1/4 NPT	3/4	1/4	45	18	7	1.1/8
MMS 3/4X3/8 NPT	3/4	3/8	45	18	10	1.1/8
MMS 3/4X1/2 NPT	3/4	1/2	50	18	14	1.1/8
MMS 3/4X3/4 NPT	3/4	3/4	50	18	18	1.1/8
MMS 1X1/4 NPT	1	1/4	50	24	7	1.3/8
MMS 1X3/8 NPT	1	3/8	50	24	10	1.3/8
MMS 1X1/2 NPT	1	1/2	52	24	14	1.3/8
MMS 1X3/4 NPT	1	3/4	53	24	18	1.3/8
MMS 1X1 NPT	1	1	59	24	24	1.3/8
MMS 1.1/4X1 NPT	1.1/4	1	62	32	24	1.3/4
MMS 1.1/4X1.1/4 NPT	1.1/4	1.1/4	63	32	32	1.3/4
MMS 1.1/2X1 NPT	1.1/2	1	60	38	24	2
MMS 1.1/2X1.1/2 NPT	1.1/2	1.1/2	66	38	38	2
MMS 2X1.1/2 NPT	2	1.1/2	66	49	38	2.1/2
MMS 2X2 NPT	2	2	72	49	49	2.1/2

Adaptador com ref. em Aço Carbono (S)

1 - Materiais dos Adaptadores: **Aço Inoxidável (SS) = MMSS 1/2X1/2 NPT**
Latão (B) = MMB 1/2X1/2 NPT

2 - Se necessário ter o chanfro de 30° para montagem em porca giratória NPSM, acrescentar "K" no final da ref.
Ex. **MMSS 1/2X1/2 NPT-K**



3 - Dimensional similar ao SAE J514 (140137).

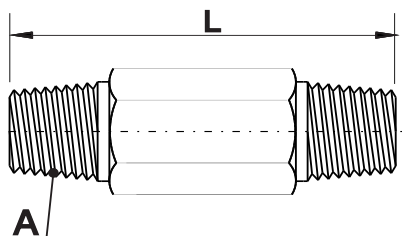
4 - Consulte para outras combinações de Rosca NPT.

5 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR MACHO NPT LONGO (Long Pipe Niple)

MMS NPT



Ref.	Rosca A (2x) NPT	L (mm / in)
MMS 1/8X1/8 NPT X 38,1	1/8	38,1 / 1.1/2
MMS 1/8X1/8 NPT X 50,8	1/8	50,8 / 2
MMS 1/8X1/8 NPT X 63,5	1/8	63,5 / 2.1/2
MMS 1/8X1/8 NPT X 76,2	1/8	76,2 / 3
MMS 1/4X1/4 NPT X 38,1	1/4	38,1 / 1.1/2
MMS 1/4X1/4 NPT X 50,8	1/4	50,8 / 2
MMS 1/4X1/4 NPT X 63,5	1/4	63,5 / 2.1/2
MMS 1/4X1/4 NPT X 76,2	1/4	76,2 / 3
MMS 1/4X1/4 NPT X 101,6	1/4	101,6 / 4
MMS 3/8X3/8 NPT X 50,8	3/8	50,8 / 2
MMS 3/8X3/8 NPT X 76,2	3/8	76,2 / 3
MMS 3/8X3/8 NPT X 88,9	3/8	88,9 / 3.1/2
MMS 3/8X3/8 NPT X 101,6	3/8	101,6 / 4
MMS 1/2X1/2 NPT X 50,8	1/2	50,8 / 2
MMS 1/2X1/2 NPT X 63,5	1/2	63,5 / 2.1/2
MMS 1/2X1/2 NPT X 76,2	1/2	76,2 / 3
MMS 1/2X1/2 NPT X 101,6	1/2	101,6 / 4
MMS 1/2X1/2 NPT X 152,4	1/2	152,4 / 6
MMS 3/4X3/4 NPT X 76,2	3/4	76,2 / 3
MMS 1X1 NPT X 76,2	1	76,2 / 3

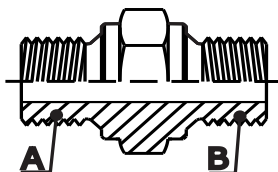
Adaptador com ref. em Aço Carbono (S)

- 1 - Materiais dos Adaptadores: **Aço Inoxidável (SS) = MMSS 1/4X1/4 NPT X 50,8**
Latão (B) = MMB 1/4X1/4 NPT X 50,8
- 2 - Consulte para outras combinações de Rosca NPT e comprimentos (L).
- 3 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR MACHO BSP (Male Niple)

MMSBSP



Ref.	Rosca A BSP	Rosca B BSP
MMS 1/8X1/8 BSP	1/8	1/8
MMS 1/4X1/8 BSP	1/4	1/8
MMS 1/4X1/4 BSP	1/4	1/4
MMS 3/8X1/4 BSP	3/8	1/4
MMS 3/8X3/8 BSP	3/8	3/8
MMS 1/2X1/4 BSP	1/2	1/4
MMS 1/2X3/8 BSP	1/2	3/8
MMS 1/2X1/2 BSP	1/2	1/2
MMS 3/4X1/4 BSP	3/4	1/4
MMS 3/4X3/8 BSP	3/4	3/8
MMS 3/4X1/2 BSP	3/4	1/2
MMS 3/4X3/4 BSP	3/4	3/4
MMS 1X3/8 BSP	1	3/8
MMS 1X1/2 BSP	1	1/2
MMS 1X3/4 BSP	1	3/4
MMS 1X1 BSP	1	1
MMS 1.1/4X3/4 BSP	1.1/4	3/4
MMS 1.1/4X1 BSP	1.1/4	1
MMS 1.1/4X1.1/4 BSP	1.1/4	1.1/4
MMS 1.1/2X1 BSP	1.1/2	1
MMS 1.1/2X1.1/4 BSP	1.1/2	1.1/4
MMS 1.1/2X1.1/2 BSP	1.1/2	1.1/2
MMS 2X1.1/2 BSP	2	1.1/2
MMS 2X2 BSP	2	2

Adaptador com ref. em Aço Carbono (S)

1 - Materiais dos Adaptadores:

Aço Inoxidável (SS) = MMSS 1/2X1/2 BSP

Latão (B) = MMB 1/2X1/2 BSP

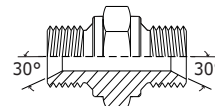
2 - Adaptadores com fornecimento padrão Forma "A" para junta de cobre "JC" ou junta metal/Borracha "AVS" - Vide Páginas 3 ~ 5.

3 - Adaptadores podem ser fornecidos na forma "E" com junta de borracha Quadriring - "Q".

Para solicitar acrescente no final da ref. a letra "Q". Ex. MMSS 1/2x1/2 BSP-Q
Quadriring padrão de fornecimento em Buna N. Vide Páginas 3 ~ 5.



4 - Se necessário ter o chanfro de 30° para montagem em porca giratória BSP "Boleado", acrescentar "K" no final da ref. Ex. **MMSS 1/2X1/2 BSP K**



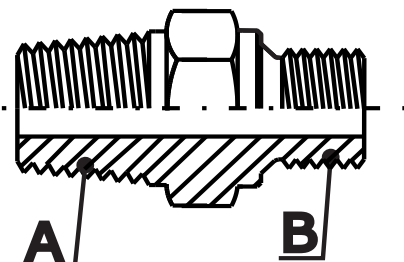
5 - Consulte para outras combinações de Rosca BSP ou vedações.

6 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR MACHO NPT X MACHO BSP (Male Stud Connector)

MMS



Ref.	Rosca A NPT	Rosca B BSP
MMS 1/8 NPT X 1/8 BSP	1/8	1/8
MMS 1/4 NPT X 1/8 BSP	1/4	1/8
MMS 1/8 NPT X 1/4 BSP	1/8	1/4
MMS 1/4 NPT X 1/4 BSP	1/4	1/4
MMS 3/8 NPT X 1/4 BSP	3/8	1/4
MMS 1/4 NPT X 3/8 BSP	1/4	3/8
MMS 3/8 NPT X 3/8 BSP	3/8	3/8
MMS 1/2 NPT X 3/8 BSP	1/2	3/8
MMS 3/8 NPT X 1/2 BSP	3/8	1/2
MMS 1/2 NPT X 1/2 BSP	1/2	1/2
MMS 3/4 NPT X 1/2 BSP	3/4	1/2
MMS 1/2 NPT X 3/4 BSP	1/2	3/4
MMS 3/4 NPT X 3/4 BSP	3/4	3/4
MMS 1 NPT X 3/4 BSP	1	3/4
MMS 3/4 NPT X 1 BSP	3/4	1
MMS 1 NPT X 1 BSP	1	1
MMS 1 NPT X 1.1/4 BSP	1	1.1/4
MMS 1 NPT X 2 BSP	1	2
MMS 1.1/4 NPT X 1.1/4 BSP	1.1/4	1.1/4
MMS 1.1/4 NPT X 1.1/2 BSP	1.1/4	1.1/2
MMS 1.1/2 NPT X 1.1/2 BSP	1.1/2	1.1/2

Adaptador com ref. em Aço Carbono (S)

- 1 - Materiais dos Adaptadores:

Aço Inoxidável (SS) = MMSS 1/2 NPT X 1/2 BSP
Latão (B) = MMB 1/2 NPT X 1/2 BSP

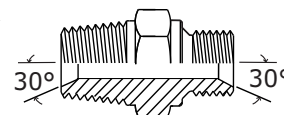
- 2 - Adaptadores com fornecimento padrão com rosca "BSP" Forma "A" para junta de cobre "JC" ou junta metal/Borracha "AVS" - Vide Páginas 3 ~ 5.

- 3 - Adaptadores podem ser fornecidos na rosca "BSP" forma "E" com junta de borracha Quadring - "Q". Para solicitar acrescente no final da ref. a letra "Q".
 Ex. MMSS 1/2 NPT x 1/2 BSP-Q
 Quadring padrão de fornecimento em Buna N. Vide Páginas 3 ~ 5.



- 4 - Se necessário ter o chanfro de 30° para montagem em porca giratória "NPSM" (Rosca Macho NPT) ou BSP "Boleado", acrescentar "K" no final da ref.

Ex. **MMSS 1/2 NPT X 1/2 BSP K**
MMSS 1/2 NPT K X 1/2 BSP

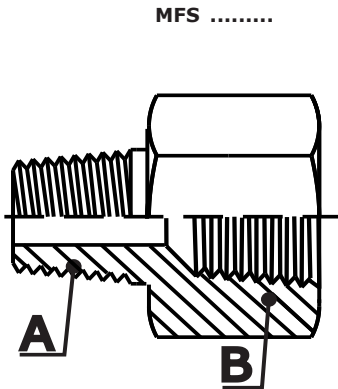


- 5 - Consulte para outras combinações de Rosca NPT com rosca BSP e vedações.

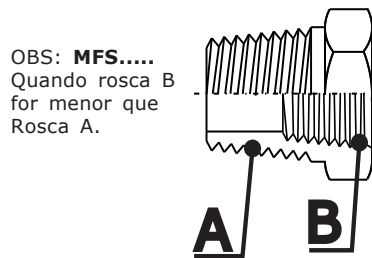
- 6 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR MACHO FEMEA NPT (Adapters - Threads Reducer / expander)



Adaptador com ref. em Aço Carbono (S)

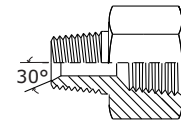


Ref.	Rosca A NPT	Rosca B NPT
MFS 1/8X1/8 NPT	1/8	1/8
MFS 1/8X1/4 NPT	1/8	1/4
MFS 1/8X3/8 NPT	1/8	3/8
MFS 1/8X1/2 NPT	1/8	1/2
MFS 1/4X1/8 NPT	1/4	1/8
MFS 1/4X1/4 NPT	1/4	1/4
MFS 1/4X3/8 NPT	1/4	3/8
MFS 1/4X1/2 NPT	1/4	1/2
MFS 1/4X3/4 NPT	1/4	3/4
MFS 3/8X1/8 NPT	3/8	1/8
MFS 3/8X1/4 NPT	3/8	1/4
MFS 3/8X3/8 NPT	3/8	3/8
MFS 3/8X1/2 NPT	3/8	1/2
MFS 1/2X1/8 NPT	1/2	1/8
MFS 1/2X1/4 NPT	1/2	1/4
MFS 1/2X3/8 NPT	1/2	3/8
MFS 1/2X1/2 NPT	1/2	1/2
MFS 1/2X3/4 NPT	1/2	3/4
MFS 1/2X1 NPT	1/2	1
MFS 3/4X1/4 NPT	3/4	1/4
MFS 3/4X3/8 NPT	3/4	3/8
MFS 3/4X1/2 NPT	3/4	1/2
MFS 3/4X3/4 NPT	3/4	3/4
MFS 3/4X1 NPT	3/4	1
MFS 1X3/8 NPT	1	3/8
MFS 1X1/2 NPT	1	1/2
MFS 1X3/4 NPT	1	3/4
MFS 1X1 NPT	1	1
MFS 1X1.1/4 NPT	1	1.1/4
MFS 1.1/4X1/2 NPT	1.1/4	1/2
MFS 1.1/4X3/4 NPT	1.1/4	3/4
MFS 1.1/4X1 NPT	1.1/4	1
MFS 1.1/2X3/4 NPT	1.1/2	3/4
MFS 1.1/2X1 NPT	1.1/2	1
MFS 1.1/2X1.1/4 NPT	1.1/2	1.1/4
MFS 2X1/2 NPT	2	1/2
MFS 2X1.1/4 NPT	2	1.1/4

1 - Materiais dos Adaptadores:

Aço Inoxidável (SS) = MFSS 1/2X1/2 NPT
Latão (B) = MFB 1/2X1/2 NPT

2 - Se necessário ter o chanfro de 30° para montagem em porca giratória "NPSM" (Rosca Macho NPT), acrescentar "K" no final da ref.
Ex. **MFSS 1/2X3/8 NPT K**



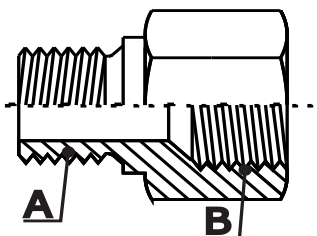
3 - Consulte para outras combinações de Rosca NPT.

4 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

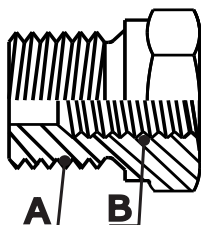
ADAPTADOR MACHO FEMEA BSP (Adapters - Threads Reducer / expander)

MFS



Adaptador com ref. em Aço Carbono (S)

OBS: **MFS.....**
Quando rosca B
for menor que
Rosca A.



Ref.	Rosca A NPT	Rosca B NPT
MFS 1/8X1/8 BSP	1/8	1/8
MFS 1/8X1/4 BSP	1/8	1/4
MFS 1/8X3/8 BSP	1/8	3/8
MFS 1/8X1/2 BSP	1/8	1/2
MFS 1/4X1/8 BSP	1/4	1/8
MFS 1/4X1/4 BSP	1/4	1/4
MFS 1/4X3/8 BSP	1/4	3/8
MFS 1/4X1/2 BSP	1/4	1/2
MFS 1/4X3/4 BSP	1/4	3/4
MFS 3/8X1/8 BSP	3/8	1/8
MFS 3/8X1/4 BSP	3/8	1/4
MFS 3/8X3/8 BSP	3/8	3/8
MFS 3/8X1/2 BSP	3/8	1/2
MFS 1/2X1/8 BSP	1/2	1/8
MFS 1/2X1/4 BSP	1/2	1/4
MFS 1/2X3/8 BSP	1/2	3/8
MFS 1/2X1/2 BSP	1/2	1/2
MFS 1/2X3/4 BSP	1/2	3/4
MFS 1/2X1 BSP	1/2	1
MFS 3/4X1/4 BSP	3/4	1/4
MFS 3/4X3/8 BSP	3/4	3/8
MFS 3/4X1/2 BSP	3/4	1/2
MFS 3/4X3/4 BSP	3/4	3/4
MFS 3/4X1 BSP	3/4	1
MFS 1X3/8 BSP	1	3/8
MFS 1X1/2 BSP	1	1/2
MFS 1X3/4 BSP	1	3/4
MFS 1X1 BSP	1	1
MFS 1X1.1/4 BSP	1	1.1/4
MFS 1.1/4X1/2 BSP	1.1/4	1/2
MFS 1.1/4X3/4 BSP	1.1/4	3/4
MFS 1.1/4X1 BSP	1.1/4	1
MFS 1.1/2X3/4 BSP	1.1/2	3/4
MFS 1.1/2X1 BSP	1.1/2	1
MFS 1.1/2X1.1/4 BSP	1.1/2	1.1/4
MFS 2X1/2 BSP	2	1/2
MFS 2X1.1/4 BSP	2	1.1/4

1 - Materiais dos Adaptadores:

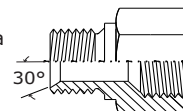
Aço Inoxidável (SS) = MFSS 1/2X1/2 BSP
Latão (B) = MFB 1/2X1/2 BSP

2 - Adaptadores com fornecimento padrão com rosca "BSP" Forma "A" para junta de cobre "JC" ou junta metal/Borracha "AVS" - Vide Páginas 3 ~ 5.

3 - Adaptadores podem ser fornecidos na rosca "BSP" forma "E" com junta de borracha Quadriring - "Q". Para solicitar acrescente no final da ref. a letra "Q".
Ex. **MFSS 1/2x1/2 BSP-Q**
Quadriring padrão de fornecimento em Buna N. Vide Páginas 3 ~ 5.



4 - Se necessário ter o chanfro de 30° para montagem em porca giratória (Rosca Macho BSP), acrescentar "K" no final da ref.
Ex. **MFSS 1/2X3/8 BSP K**

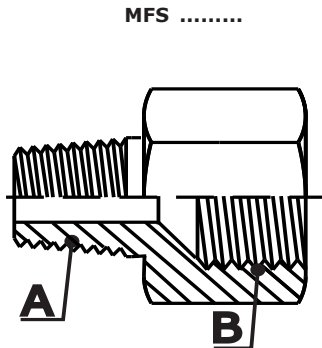


5 - Consulte para outras combinações de rosca BSP e vedações.

6 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

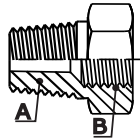
ADAPTADORES

ADAPTADOR MACHO NPT X FEMEA BSP (Adapters - Threads Reducer / expander)



Adaptador com ref. em Aço Carbono (S)

OBS: **MFS.....**
Quando rosca B
for menor que
Rosca A.

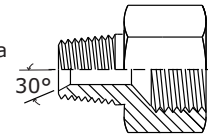


Ref.	Rosca A NPT	Rosca B BSP
MFS 1/8 NPT X 1/8 BSP	1/8	1/8
MFS 1/8 NPT X 1/4 BSP	1/8	1/4
MFS 1/8 NPT X 3/8 BSP	1/8	3/8
MFS 1/8 NPT X 1/2 BSP	1/8	1/2
MFS 1/4 NPT X 1/8 BSP	1/4	1/8
MFS 1/4 NPT X 1/4 BSP	1/4	1/4
MFS 1/4 NPT X 3/8 BSP	1/4	3/8
MFS 1/4 NPT X 1/2 BSP	1/4	1/2
MFS 1/4 NPT X 3/4 BSP	1/4	3/4
MFS 3/8 NPT X 1/8 BSP	3/8	1/8
MFS 3/8 NPT X 1/4 BSP	3/8	1/4
MFS 3/8 NPT X 3/8 BSP	3/8	3/8
MFS 3/8 NPT X 1/2 BSP	3/8	1/2
MFS 1/2 NPT X 1/8 BSP	1/2	1/8
MFS 1/2 NPT X 1/4 BSP	1/2	1/4
MFS 1/2 NPT X 3/8 BSP	1/2	3/8
MFS 1/2 NPT X 1/2 BSP	1/2	1/2
MFS 1/2 NPT X 3/4 BSP	1/2	3/4
MFS 1/2 NPT X 1 BSP	1/2	1
MFS 3/4 NPT X 1/4 BSP	3/4	1/4
MFS 3/4 NPT X 3/8 BSP	3/4	3/8
MFS 3/4 NPT X 1/2 BSP	3/4	1/2
MFS 3/4 NPT X 3/4 BSP	3/4	3/4
MFS 3/4 NPT X 1 BSP	3/4	1
MFS 1 NPT X 3/8 BSP	1	3/8
MFS 1 NPT X 1/2 BSP	1	1/2
MFS 1 NPT X 3/4 BSP	1	3/4
MFS 1 NPT X 1 BSP	1	1
MFS 1 NPT X 1.1/4 BSP	1	1.1/4
MFS 1.1/4 NPT X 1/2 BSP	1.1/4	1/2
MFS 1.1/4 NPT X 3/4 BSP	1.1/4	3/4
MFS 1.1/4 NPT X 1 BSP	1.1/4	1
MFS 1.1/2 NPT X 3/4 BSP	1.1/2	3/4
MFS 1.1/2 NPT X 1 BSP	1.1/2	1
MFS 1.1/2 NPT X 1.1/4 BSP	1.1/2	1.1/4
MFS 2 NPT X 1/2 BSP	2	1/2
MFS 2 NPT X 1.1/4 BSP	2	1.1/4

1 - Materiais dos Adaptadores:

Aço Inoxidável (SS) = MFSS 1/2 NPT X 1/2 BSP
Latão (B) = MFB 1/2 NPT X 1/2 BSP

2 - Se necessário ter o chanfro de 30° para montagem em porca giratória "NPSM" (Rosca Macho NPT), acrescentar "K" no final da ref.
Ex. **MFSS 1/2 NPT X 3/4 BSP K**



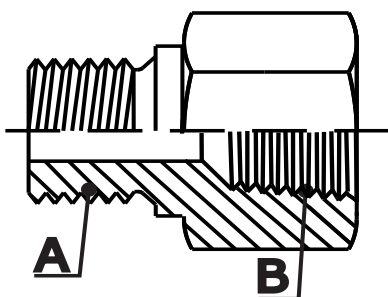
3 - Consulte para outras combinações de Rosca NPT X BSP.

4 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

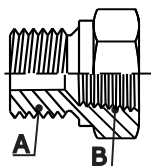
ADAPTADOR MACHO BSP X FEMEA NPT (Adapters - Threads Reducer / expander)

MFS



Adaptador com ref. em Aço Carbono (S)

OBS: **MFS.....**
Quando rosca B
for menor que
Rosca A.



Ref.	Rosca A BSP	Rosca B NPT
MFS 1/8 BSP X 1/8 NPT	1/8	1/8
MFS 1/8 BSP X 1/4 NPT	1/8	1/4
MFS 1/8 BSP X 3/8 NPT	1/8	3/8
MFS 1/8 BSP X 1/2 NPT	1/8	1/2
MFS 1/4 BSP X 1/8 NPT	1/4	1/8
MFS 1/4 BSP X 1/4 NPT	1/4	1/4
MFS 1/4 BSP X 3/8 NPT	1/4	3/8
MFS 1/4 BSP X 1/2 NPT	1/4	1/2
MFS 1/4 BSP X 3/4 NPT	1/4	3/4
MFS 3/8 BSP X 1/8 NPT	3/8	1/8
MFS 3/8 BSP X 1/4 NPT	3/8	1/4
MFS 3/8 BSP X 3/8 NPT	3/8	3/8
MFS 3/8 BSP X 1/2 NPT	3/8	1/2
MFS 1/2 BSP X 1/8 NPT	1/2	1/8
MFS 1/2 BSP X 1/4 NPT	1/2	1/4
MFS 1/2 BSP X 3/8 NPT	1/2	3/8
MFS 1/2 BSP X 1/2 NPT	1/2	1/2
MFS 1/2 BSP X 3/4 NPT	1/2	3/4
MFS 1/2 BSP X 1 NPT	1/2	1
MFS 3/4 BSP X 1/4 NPT	3/4	1/4
MFS 3/4 BSP X 3/8 NPT	3/4	3/8
MFS 3/4 BSP X 1/2 NPT	3/4	1/2
MFS 3/4 BSP X 3/4 NPT	3/4	3/4
MFS 3/4 BSP X 1 NPT	3/4	1
MFS 1 BSP X 3/8 NPT	1	3/8
MFS 1 BSP X 1/2 NPT	1	1/2
MFS 1 BSP X 3/4 NPT	1	3/4
MFS 1 BSP X 1 NPT	1	1
MFS 1 BSP X 1.1/4 NPT	1	1.1/4
MFS 1.1/4 BSP X 1/2 NPT	1.1/4	1/2
MFS 1.1/4 BSP X 3/4 NPT	1.1/4	3/4
MFS 1.1/4 BSP X 1 NPT	1.1/4	1
MFS 1.1/2 BSP X 3/4 NPT	1.1/2	3/4
MFS 1.1/2 BSP X 1 NPT	1.1/2	1
MFS 1.1/2 BSP X 1.1/4 NPT	1.1/2	1.1/4
MFS 2 BSP X 1/2 NPT	2	1/2
MFS 2 BSP X 1.1/4 NPT	2	1.1/4

1 - Materiais dos Adaptadores:

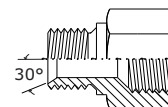
Aço Inoxidável (SS) = MFSS 1/2 BSP X 1/2 NPT
Latão (B) = MFB 1/2 BSP X 1/2 NPT

2 - Adaptadores com fornecimento padrão com rosca "BSP" Forma "A" para junta de cobre "JC" ou junta metal/Borracha "AVS" - Vide Páginas 3 ~ 5.

3 - Adaptadores podem ser fornecidos na rosca "BSP" forma "E" com junta de borracha Quadriring - "Q". Para solicitar acrescentar no final da ref. a letra "Q".
Ex. **MFSS 1/2 BSPx 1/2 NPT-Q**
Quadriring padrão de fornecimento em Buna N. Vide Páginas 3 ~ 5.



4 - Se necessário ter o chanfro de 30° para montagem em porca giratória (Rosca Macho BSP), acrescentar "K" no final da ref.
Ex. **MFSS 1/2 BSP X 3/4 NPT K**



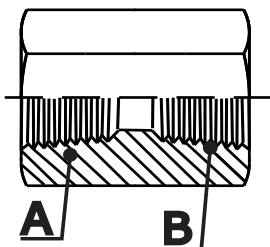
5 - Consulte para outras combinações de rosca BSP e vedações X NPT.

6 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR FEMEA / FEMEA NPT (Adapters - Pipe Coupling NPT / NPT)

FFS



Ref.	Rosca A NPT	Rosca B NPT
FFS 1/8X1/8 NPT	1/8	1/8
FFS 1/4X1/8 NPT	1/4	1/8
FFS 1/4X1/4 NPT	1/4	1/4
FFS 3/8X1/8 NPT	3/8	1/8
FFS 3/8X1/4 NPT	3/8	1/4
FFS 3/8X3/8 NPT	3/8	3/8
FFS 1/2X1/8 NPT	1/2	1/8
FFS 1/2X1/4 NPT	1/2	1/4
FFS 1/2X3/8 NPT	1/2	3/8
FFS 1/2X1/2 NPT	1/2	1/2
FFS 3/4X1/4 NPT	3/4	1/4
FFS 3/4X3/8 NPT	3/4	3/8
FFS 3/4X1/2 NPT	3/4	1/2
FFS 3/4X3/4 NPT	3/4	3/4
FFS 1X1/4 NPT	1	1/4
FFS 1X3/8 NPT	1	3/8
FFS 1X1/2 NPT	1	1/2
FFS 1X3/4 NPT	1	3/4
FFS 1X1 NPT	1	1
FFS 1.1/4X1 NPT	1.1/4	1
FFS 1.1/4X1.1/4 NPT	1.1/4	1.1/4
FFS 1.1/2X1 NPT	1.1/2	1
FFS 1.1/2X1.1/2 NPT	1.1/2	1.1/2
FFS 2X1.1/2 NPT	2	1.1/2
FFS 2X2 NPT	2	2

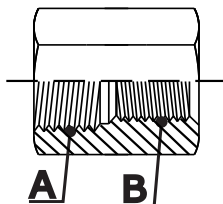
Adaptador com ref. em Aço Carbono (S)

- 1 - Materiais dos Adaptadores: **Aço Inoxidável (SS) = FFSS 1/2X1/2 NPT**
Latão (B) = FFB 1/2X1/2 NPT
- 2 - Dimensional similar ao SAE J514 (140138).
- 3 - Consulte para outras combinações de Rosca NPT.
- 4 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR FEMEA / FEMEA BSP (Adapters - Female Union)

FFSBSP



Ref.	Rosca A BSP	Rosca B BSP
FFS 1/8X1/8 BSP	1/8	1/8
FFS 1/4X1/8 BSP	1/4	1/8
FFS 1/4X1/4 BSP	1/4	1/4
FFS 3/8X1/4 BSP	3/8	1/4
FFS 3/8X3/8 BSP	3/8	3/8
FFS 1/2X1/4 BSP	1/2	1/4
FFS 1/2X3/8 BSP	1/2	3/8
FFS 1/2X1/2 BSP	1/2	1/2
FFS 3/4X1/4 BSP	3/4	1/4
FFS 3/4X3/8 BSP	3/4	3/8
FFS 3/4X1/2 BSP	3/4	1/2
FFS 3/4X3/4 BSP	3/4	3/4
FFS 1X3/8 BSP	1	3/8
FFS 1X1/2 BSP	1	1/2
FFS 1X3/4 BSP	1	3/4
FFS 1X1 BSP	1	1
FFS 1.1/4X3/4 BSP	1.1/4	3/4
FFS 1.1/4X1 BSP	1.1/4	1
FFS 1.1/4X1.1/4 BSP	1.1/4	1.1/4
FFS 1.1/2X1 BSP	1.1/2	1
FFS 1.1/2X1.1/4 BSP	1.1/2	1.1/4
FFS 1.1/2X1.1/2 BSP	1.1/2	1.1/2
FFS 2X1.1/2 BSP	2	1.1/2
FFS 2X2 BSP	2	2

Adaptador com ref. em Aço Carbono (S)

1 - Materiais dos Adaptadores:

Aço Inoxidável (SS) = FFSS 1/2X1/2 BSP

Latão (B) = FFB 1/2X1/2 BSP

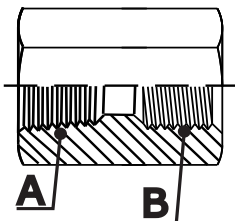
2 - Consulte para outras combinações de Rosca BSP.

3 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

ADAPTADOR FEMEA NPT X FEMEA BSP (Adapters - Female Union)

FFSNPT x BSP



Ref.	Rosca A NPT	Rosca B BSP
FFS 1/8 NPT X 1/8 BSP	1/8	1/8
FFS 1/8 NPT X 1/4 BSP	1/8	1/4
FFS 1/8 NPT X 3/8 BSP	1/8	3/8
FFS 1/8 NPT X 1/2 BSP	1/8	1/2
FFS 1/4 NPT X 1/8 BSP	1/4	1/8
FFS 1/4 NPT X 1/4 BSP	1/4	1/4
FFS 1/4 NPT X 3/8 BSP	1/4	3/8
FFS 1/4 NPT X 1/2 BSP	1/4	1/2
FFS 1/4 NPT X 3/4 BSP	1/4	3/4
FFS 3/8 NPT X 1/8 BSP	3/8	1/8
FFS 3/8 NPT X 1/4 BSP	3/8	1/4
FFS 3/8 NPT X 3/8 BSP	3/8	3/8
FFS 3/8 NPT X 1/2 BSP	3/8	1/2
FFS 1/2 NPT X 1/8 BSP	1/2	1/8
FFS 1/2 NPT X 1/4 BSP	1/2	1/4
FFS 1/2 NPT X 3/8 BSP	1/2	3/8
FFS 1/2 NPT X 1/2 BSP	1/2	1/2
FFS 1/2 NPT X 3/4 BSP	1/2	3/4
FFS 1/2 NPT X 1 BSP	1/2	1
FFS 3/4 NPT X 1/4 BSP	3/4	1/4
FFS 3/4 NPT X 3/8 BSP	3/4	3/8
FFS 3/4 NPT X 1/2 BSP	3/4	1/2
FFS 3/4 NPT X 3/4 BSP	3/4	3/4
FFS 3/4 NPT X 1 BSP	3/4	1
FFS 1 NPT X 3/8 BSP	1	3/8
FFS 1 NPT X 1/2 BSP	1	1/2
FFS 1 NPT X 3/4 BSP	1	3/4
FFS 1 NPT X 1 BSP	1	1
FFS 1 NPT X 1.1/4 BSP	1	1.1/4
FFS 1.1/4 NPT X 1/2 BSP	1.1/4	1/2
FFS 1.1/4 NPT X 3/4 BSP	1.1/4	3/4
FFS 1.1/4 NPT X 1 BSP	1.1/4	1
FFS 1.1/2 NPT X 3/4 BSP	1.1/2	3/4
FFS 1.1/2 NPT X 1 BSP	1.1/2	1
FFS 1.1/2 NPT X 1.1/4 BSP	1.1/2	1.1/4
FFS 2 NPT X 1/2 BSP	2	1/2
FFS 2 NPT X 1.1/4 BSP	2	1.1/4

Adaptador com ref. em Aço Carbono (S)

1 - Materiais dos Adaptadores:

Aço Inoxidável (SS) = FFS 1/2 NPT X 1/2 BSP
Latão (B) = FFB 1/2 NPT X 1/2 BSP

2 - Consulte para outras combinações de Rosca NPT X BSP.

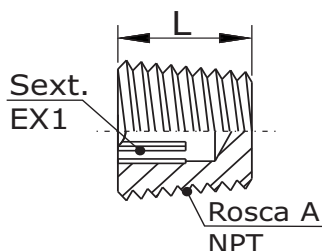
3 - Fornecemos com Roscas de acordo com suas necessidades e combinações.

ADAPTADORES

BUJÕES (Plugs)

**BUJÃO SEXT. INTERNO NPT
SAE 130109N**

BSIS.....NPT

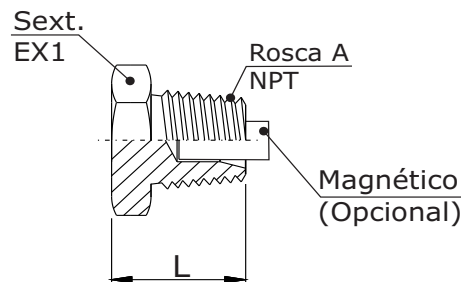


Ref.	Rosca A - NPT	L	EX 1
BSIS 1/8 NPT	1/8-27	7,6	3/16
BSIS 1/4 NPT	1/4-18	11,7	1/4
BSIS 3/8 NPT	3/8-18	11,7	5/16
BSIS 1/2 NPT	1/2-14	15,5	3/8
BSIS 3/4 NPT	3/4-14	15,8	9/16
BSIS 1 NPT	1-11.1/2	19,5	5/8
BSIS 1.1/4 NPT	1.1/4-11.1/2	20,8	3/4
BSIS 1.1/2 NPT	1.1/2-11.1/2	21,5	1
BSIS 2 NPT	2-11.1/2	22,0	1.1/4

Bujão com ref. em Aço Carbono (S)

**BUJÃO SEXT. EXTERNO NPT
SAE 130109E**

BJS.....NPT, BMS.....NPT



Ref.	Ref. Bujão Magnético	Rosca NPT	L	EX1
BJS 1/8 NPT	BMS 1/8 NPT	1/8-27	14,2	7/16
BJS 1/4 NPT	BMS 1/4 NPT	1/4-18	19	9/16
BJS 3/8 NPT	BMS 3/8 NPT	3/8-18	19,8	11/16
BJS 1/2 NPT	BMS 1/2 NPT	1/2-14	24,6	7/8
BJS 3/4 NPT	BMS 3/4 NPT	3/4-14	26,9	1.1/16
BJS 1 NPT	BMS 1 NPT	1-11.1/2	31,8	1.5/16
BJS 1.1/4 NPT	BMS 1.1/4 NPT	1.1/4-11.1/2	34	1.3/4
BJS 1.1/2 NPT	BMS 1.1/2 NPT	1.1/2-11.1/2	34	2
BJS 2 NPT	BMS 2 NPT	2-11.1/2	38	2.1/2

Bujões com ref. em Aço Carbono (S)

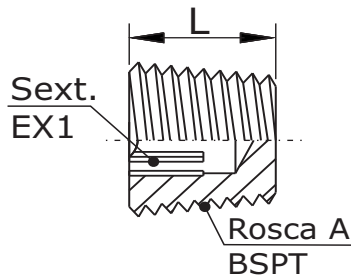
1 - Materiais dos Bujões: **Aço Inoxidável (SS) = BSISS 1/2 NPT, BJSS 1/2 NPT ou BMSS 1/2 NPT**
Latão (B) = BSIB 1/2 NPT, BJB 1/2 NPT ou BMB 1/2 NPT

2 - Fornecemos com Roscas de acordo com suas necessidades, consulte.

ADAPTADORES

**BUJÃO
SEXT. INTERNO BSPT**

BSISBSPT

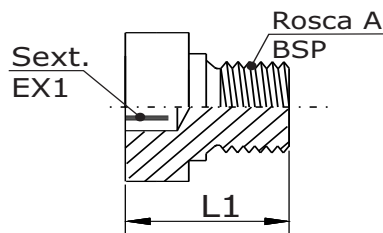
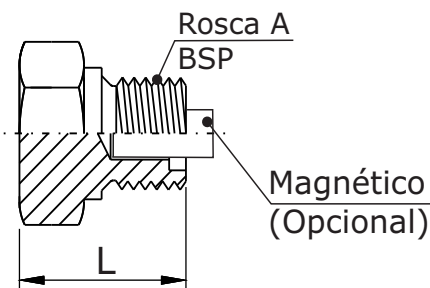


Ref.	Rosca A - BSPT	L	EX 1
BSIS 1/8 BSPT	1/8-28	7,6	3/16
BSIS 1/4 BSPT	1/4-19	11,7	1/4
BSIS 3/8 BSPT	3/8-19	11,7	5/16
BSIS 1/2 BSPT	1/2-14	15,5	3/8
BSIS 3/4 BSPT	3/4-14	15,8	9/16
BSIS 1 BSPT	1-11	19,5	5/8
BSIS 1.1/4 BSPT	1.1/4-11	20,8	3/4
BSIS 1.1/2 BSPT	1.1/2-11	21,5	1
BSIS 2 BSPT	2-11	22,0	1.1/4

Bujão com ref. em Aço Carbono (S)

BUJÃO SEXT. EXTERNO BSP

BUJÃO SEXT. INTERNO BSP



BJS.....BSP, BMS.....BSP

BSIS.....BSP

Ref. Bujão Sext. Ext.	Ref. Bujão Magnético	Ref. Bujão Sext. Int.	Rosca A BSP	L	L1	EX1
BJS 1/8 BSP	BMS 1/8 BSP	BSIS 1/8 BSP	1/8-28	17	12	5
BJS 1/4 BSP	BMS 1/4 BSP	BSIS 1/4 BSP	1/4-19	20	17	6
BJS 3/8 BSP	BMS 3/8 BSP	BSIS 3/8 BSP	3/8-19	21	17	8
BJS 1/2 BSP	BMS 1/2 BSP	BSIS 1/2 BSP	1/2-14	24	19	10
BJS 3/4 BSP	BMS 3/4 BSP	BSIS 3/4 BSP	3/4-14	27	21	12
BJS 1 BSP	BMS 1 BSP	BSIS 1 BSP	1-11	29	22,5	17
BJS 1.1/4 BSP	BMS 1.1/4 BSP	BSIS 1.1/4 BSP	1.1/4-11	34	22,5	22
BJS 1.1/2 BSP	BMS 1.1/2 BSP	BSIS 1.1/2 BSP	1.1/2-11	34	22,5	24
BJS 2 BSP	BMS 2 BSP	BSIS 2 BSP	2-11	39,5	26	24

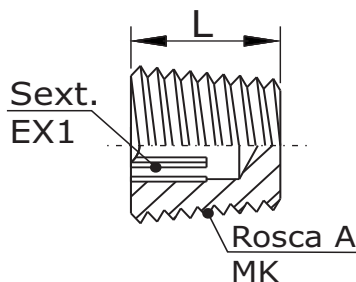
Bujões com ref. em Aço Carbono (S)

- 1 - Materiais dos Bujões: **Aço Inoxidável (SS) = BJSS 1/2 BSP**
Latão (B) = BJB 1/2 BSP
- 2 - Bujões com fornecimento padrão Forma "A" para junta de cobre "JC" ou junta metal/Borracha "AVS" - Vide Páginas 3 ~ 5.
- 3 - Bujões podem ser fornecidos na forma "E" com junta de borracha Quadring - "Q".
Para solicitar acrescente no final da ref. a letra "Q". Ex. BJSS 1/2 BSP-Q
Quadring padrão de fornecimento em Buna N. Vide Páginas 3 ~ 5.
- 5 - Consulte para outras Roscas BSP ou vedações.
- 6 - Fornecemos com Roscas de acordo com suas necessidades.



ADAPTADORES

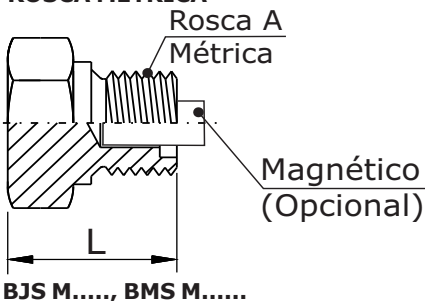
BUJÃO SEXT. INTERNO ROSCA MÉTRICA CÔNICA (MK)
BSIS MK.....



Ref.	Rosca A - MK	L	EX 1
BSIS MK10X1	MK10X1	8	5
BSIS MK12X1,5	MK12X1,5	12	6
BSIS MK14X1,5	MK14X1,5	12	6
BSIS MK16X1,5	MK16X1,5	12	8
BSIS MK18X1,5	MK18X1,5	12	8
BSIS MK20X1,5	MK20X1,5	14	10
BSIS MK22X1,5	MK22X1,5	14	10
BSIS MK26X1,5	MK26X1,5	14	12

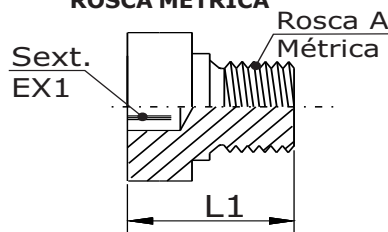
Bujão com ref. em Aço Carbono (S)

BUJÃO SEXT. EXTERNO ROSCA MÉTRICA



BJS M....., BMS M.....


BUJÃO SEXT. INTERNO ROSCA MÉTRICA



BSIS M.....

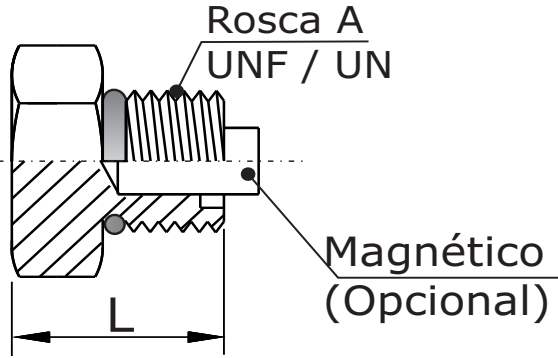
Ref. Bujão Sext. Ext.	Ref. Bujão Magnético	Ref. Bujão Sext. Int.	Rosca A MÉTRICA	L	L1	EX1
BJS M10X1	BMS M10X1	BSIS M10X1	M10X1	16,2	12	5
BJS M12X1,5	BMS M12X1,5	BSIS M12X1,5	M12X1,5	18,5	17	6
BJS M14X1,5	BMS M14X1,5	BSIS M14X1,5	M14X1,5	19,5	17	6
BJS M16X1,5	BMS M16X1,5	BSIS M16X1,5	M16X1,5	21,5	17	8
BJS M18X1,5	BMS M18X1,5	BSIS M18X1,5	M18X1,5	23,5	17	8
BJS M20X1,5	BMS M20X1,5	BSIS M20X1,5	M20X1,5	24	19	10
BJS M22X1,5	BMS M22X1,5	BSIS M22X1,5	M22X1,5	25,5	19	10
BJS M26X1,5	BMS M26X1,5	BSIS M26X1,5	M26X1,5	32	21	12
BJS M27X2	BMS M27X2	BSIS M27X2	M27X2	32	21	12
BJS M33X2	BMS M33X2	BSIS M33X2	M33X2	32	22,5	17
BJS M42X2	BMS M42X2	BSIS M42X2	M42X2	34	22,5	22
BJS M48X2	BMS M48X2	BSIS M48X2	M48X2	35,5	22,5	24

Bujões com ref. em Aço Carbono (S)

- 1 - Materiais dos Bujões: **Aço Inoxidável (SS) = BJSS 1/2 BSP**
Latão (B) = BJB 1/2 BSP
- 2 - Bujões com fornecimento padrão Forma "A" para junta de cobre "JC" ou junta metal/Borracha "AVS" - Vide Páginas 3 ~ 5.
- 3 - Bujões podem ser fornecidos na forma "E" com junta de borracha Quadriring - "Q". Para solicitar acrescentar no final da ref. a letra "Q". Ex. BJSS M16X1.5-Q
Quadriring padrão de fornecimento em Buna N. Vide Páginas 3 ~ 5. 
- 5 - Consulte para outras Roscas Métricas ou vedações.
- 6 - Fornecemos com Roscas de acordo com suas necessidades.

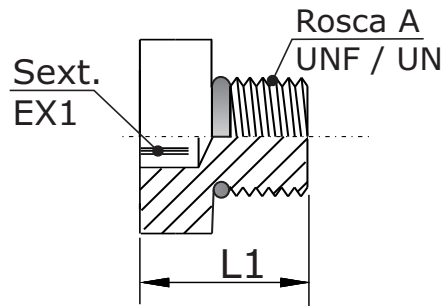
ADAPTADORES

BUJÃO SEXT. EXTERNO
UNF/UN 2A
SAE 090109A



BJS.....UNF, BMS.....UNF

BUJÃO SEXT. INTERNO
UNF/UN 2A
SAE 090109B



BSIS.....UNF

Ref. Bujão Sext. Ext.	Ref. Bujão Magnético	Ref. Bujão Sext. Int.	Rosca UNF/UN	L	L1	EX1
BJS 5/16 UNF	BMS 5/16 UNF	BSIS 5/16 UNF	5/16-24	15,5	9,9	1/8
BJS 3/8 UNF	BMS 3/8 UNF	BSIS 3/8 UNF	3/8-24	15,5	9,9	1/8
BJS 7/16 UNF	BMS 7/16 UNF	BSIS 7/16 UNF	7/16-20	17	11,7	3/16
BJS 1/2 UNF	BMS 1/2 UNF	BSIS 1/2 UNF	1/2-20	17	11,7	3/16
BJS 9/16 UNF	BMS 9/16 UNF	BSIS 9/16 UNF	9/16-20	18,5	12,4	1/4
BJS 3/4 UNF	BMS 3/4 UNF	BSIS 3/4 UNF	3/4-16	20,3	14,5	5/16
BJS 7/8 UNF	BMS 7/8 UNF	BSIS 7/8 UNF	7/8-14	23,9	16	3/8
BJS 1.1/16 UN	BMS 1.1/16 UN	BSIS 1.1/16 UN	1.1/16-12	27,7	19	9/16
BJS 1.3/16 UN	BMS 1.3/16 UN	BSIS 1.3/16 UN	1.3/16-12	27,7	19	9/16
BJS 1.5/16 UN	BMS 1.5/16 UN	BSIS 1.5/16 UN	1.5/16-12	28,7	19	5/8
BJS 1.5/8 UN	BMS 1.5/8 UN	BSIS 1.5/8 UN	1.5/8-12	30,5	19	3/4
BJS 1.7/8 UN	BMS 1.7/8 UN	BSIS 1.7/8 UN	1.7/8-12	32,3	19,6	3/4

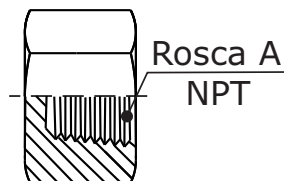
Bujões com ref. em Aço Carbono (S)

- 1 - Materiais dos Bujões: **Aço Inoxidável (SS) = BJSS 1/2 UNF**
Latão (B) = BJB 1/2 UNF
- 2 - Bujões com fornecimento padrão com anel de vedação (O'ring) em borracha Nitrílica (**NBR - Buna**)
- 3 - Consulte para outras Roscas UNF / UN ou vedações.
- 6 - Fornecemos com Roscas de acordo com suas necessidades.

ADAPTADORES

TAMPÃO PORCA ROSCA CONICA -NPT

TPFS.....

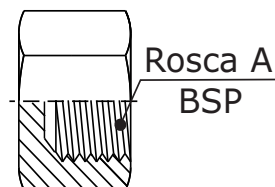


Ref.	Rosca A - NPT
TPFS 1/8 NPT	1/8-27
TPFS 1/4 NPT	1/4-18
TPFS 3/8 NPT	3/8-18
TPFS 1/2 NPT	1/2-14
TPFS 3/4 NPT	3/4-14
TPFS 1 NPT	1-11.1/2
TPFS 1.1/4 NPT	1.1/4-11.1/2
TPFS 1.1/2 NPT	1.1/2-11.1/2
TPFS 2 NPT	2-11.1/2

Tampão com ref. em Aço Carbono (S)

TAMPÃO PORCA ROSCAS PARALELAS - BSP

TPFS.....



Ref.	Rosca A - BSPT
TPFS 1/8 BSP	1/8-28
TPFS 1/4 BSP	1/4-19
TPFS 3/8 BSP	3/8-19
TPFS 1/2 BSP	1/2-14
TPFS 3/4 BSP	3/4-14
TPFS 1 BSP	1-11
TPFS 1.1/4 BSP	1.1/4-11
TPFS 1.1/2 BSP	1.1/2-11
TPFS 2 BSP	2-11

Bujão com ref. em Aço Carbono (S)

- 1 - Materiais dos Tampões: **Aço Inoxidável (SS) = TPFS 1/2 NPT, TPFS 1/2 BSP**
Latão (B) = TPFB 1/2 NPT, TPFB 1/2 BSP
- 2 - Consulte para outras Roscas cônicas ou Paralelas.
- 3 - Fornecemos com Roscas de acordo com suas necessidades.