ZAVAR

SERIES 9400

NPT FITTINGS

Straight brass fittings with NPT threads up to 3/4"

NPT/NPT • NPT/B-SIZE • BRASS



CATALOGUE 2026

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SERIES 9400

Technical guide and coding

NPT THREAD

Tapered pipe thread with a 60° thread form, standardized by ASME B1.20.1-2013 (R2018). The standard defines thread geometry, dimensions and gaging; it does not prescribe the allowable working pressure of a fitting. Series 9400 is catalog-rated to a maximum working pressure of 20 bar (290 psi), unless a specific item states otherwise.

B-SIZE / CGA-02

In this catalogue: 9/16"-18 UNF. RH version for oxygen (CGA-022), LH version for fuel gases (CGA-023). NPT/B-size combinations are catalog-rated to a maximum working pressure of 200 psig (13.8 bar(g)). The 5/8"-18 B-size versions for inert gas/water/air are not included.

NPT sizes

Nominal size	Threads / inch (TPI)	Example part no. - ZZ
1/8" NPT	27	9400-1/8-1/8-ZZ
1/4" NPT	18	9400-1/4-1/4-ZZ
3/8" NPT	18	9400-3/8-3/8-ZZ
1/2" NPT	14	9400-1/2-1/2-ZZ
3/4" NPT	14	9400-3/4-3/4-ZZ

Part-number structure

NPT/NPT: 9400 - SIZE A - SIZE B - TYPE. The type is always placed at the end: ZZ = male/male, ZN = male/female, NN = female/female. NPT/B-size: 9400 - NPT SIDE - B-SIZE SIDE - RH/LH - NB.

NPT joints seal on the thread. Select the thread sealant according to the medium and operating conditions. For oxygen service, all parts and sealing materials must be O2-compatible and properly cleaned/degreased.

Technical basis: ASME B1.20.1-2013 (R2018); B-size/CGA. The 20 bar value is the series 9400 catalogue limit and is not a pressure prescribed by ASME B1.20.1.

9400-ZZ

NPT male / male

Straight hex nipples with male NPT threads on both ends.



NPT M x NPT M

- Straight design with a central hex for wrenching.
- Standard sizes from 1/8" to 3/4" NPT.
- Reducing versions for transitions between nominal sizes.

Part no.	Connection A	Connection B	Version
9400-1/8-1/8-ZZ	1/8" NPT M	1/8" NPT M	equal
9400-1/4-1/4-ZZ	1/4" NPT M	1/4" NPT M	equal
9400-1/4-1/8-ZZ		1/8" NPT M	reducing
9400-3/8-3/8-ZZ	3/8" NPT M	3/8" NPT M	equal
9400-3/8-1/4-ZZ		1/4" NPT M	reducing
9400-3/8-1/8-ZZ		1/8" NPT M	reducing
9400-1/2-1/2-ZZ	1/2" NPT M	1/2" NPT M	equal
9400-1/2-3/8-ZZ		3/8" NPT M	reducing
9400-1/2-1/4-ZZ		1/4" NPT M	reducing
9400-3/4-3/4-ZZ	3/4" NPT M	3/4" NPT M	equal
9400-3/4-1/2-ZZ		1/2" NPT M	reducing

Maximum working pressure for the NPT versions in this catalogue: 20 bar (290 psi). Images are illustrative; actual geometry may vary with the size ratio.

9400-ZN

NPT male / female

Straight adapters with one male and one female NPT thread.



NPT M x NPT F

- Compact straight adapter for changing connection type.
- Available in equal-size and reducing/transition versions.
- The part number always lists the male thread first, then the female thread.

Part no.	Connection A	Connection B	Version
9400-1/8-1/8-ZN	1/8" NPT M	1/8" NPT F	equal
9400-1/8-1/4-ZN		1/4" NPT F	adapter
9400-1/4-1/8-ZN	1/4" NPT M	1/8" NPT F	adapter
9400-1/4-1/4-ZN		1/4" NPT F	equal
9400-1/4-3/8-ZN		3/8" NPT F	adapter
9400-3/8-1/4-ZN	3/8" NPT M	1/4" NPT F	adapter
9400-3/8-3/8-ZN		3/8" NPT F	equal
9400-3/8-1/2-ZN		1/2" NPT F	adapter
9400-3/8-3/4-ZN		3/4" NPT F	adapter
9400-1/2-1/4-ZN	1/2" NPT M	1/4" NPT F	adapter
9400-1/2-3/8-ZN		3/8" NPT F	adapter
9400-1/2-1/2-ZN		1/2" NPT F	equal
9400-1/2-3/4-ZN		3/4" NPT F	adapter
9400-3/4-1/2-ZN	3/4" NPT M	1/2" NPT F	adapter
9400-3/4-3/4-ZN		3/4" NPT F	equal

Maximum working pressure for the NPT versions in this catalogue: 20 bar (290 psi). Images are illustrative; actual geometry may vary with the size ratio.

9400-NN

NPT female / female

Straight couplings with female NPT threads on both ends.



NPT F x NPT F

- Straight coupling for joining two male NPT threads.
- Equal-size and reducing versions.
- Standard programme up to 3/4" NPT.

Part no.	Connection A	Connection B	Version
9400-1/8-1/8-NN	1/8" NPT F	1/8" NPT F	equal
9400-1/4-1/4-NN	1/4" NPT F	1/4" NPT F	equal
9400-1/4-1/8-NN		1/8" NPT F	reducing
9400-3/8-3/8-NN	3/8" NPT F	3/8" NPT F	equal
9400-3/8-1/8-NN		1/8" NPT F	reducing
9400-3/8-1/4-NN		1/4" NPT F	reducing
9400-1/2-1/2-NN	1/2" NPT F	1/2" NPT F	equal
9400-1/2-1/8-NN		1/8" NPT F	reducing
9400-1/2-1/4-NN		1/4" NPT F	reducing
9400-1/2-3/8-NN		3/8" NPT F	reducing
9400-3/4-3/4-NN	3/4" NPT F	3/4" NPT F	equal
9400-3/4-1/4-NN		1/4" NPT F	reducing
9400-3/4-3/8-NN		3/8" NPT F	reducing
9400-3/4-1/2-NN		1/2" NPT F	reducing

Maximum working pressure for the NPT versions in this catalogue: 20 bar (290 psi). Images are illustrative; actual geometry may vary with the size ratio.

9400-NB

NPT / B-size

Straight adapters between an NPT pipe thread and a 9/16"-18 UNF B-size connection.



NPT x B-SIZE

- RH: oxygen, B-size CGA-022.
- LH: fuel gases, B-size CGA-023.
- Always specify RH or LH when ordering.

Maximum working pressure for all NPT/B-size versions in this catalogue: 200 psig (13.8 bar(g)). Oxygen service requires appropriate O2 cleanliness.

Part no.	NPT side	B-size side	Service
9400-1/8-BM-RH-NB	1/8" NPT M	B-size M, RH	O2
9400-1/8-BM-LH-NB		B-size M, LH	fuel gases
9400-1/4-BM-RH-NB	1/4" NPT M	B-size M, RH	O2
9400-1/4-BM-LH-NB		B-size M, LH	fuel gases
9400-3/8-BM-RH-NB	3/8" NPT M	B-size M, RH	O2
9400-3/8-BM-LH-NB		B-size M, LH	fuel gases
9400-1/2-BM-RH-NB	1/2" NPT M	B-size M, RH	O2
9400-1/2-BM-LH-NB		B-size M, LH	fuel gases
9400-1/4-BF-RH-NB	1/4" NPT M	B-size F swivel, RH	O2
9400-1/4-BF-LH-NB		B-size F swivel, LH	fuel gases
9400-F1/4-BM-RH-NB	1/4" NPT F	B-size M, RH	O2
9400-F1/4-BM-LH-NB		B-size M, LH	fuel gases
9400-F1/4-BF-RH-NB		B-size F swivel, RH	O2
9400-F1/4-BF-LH-NB		B-size F swivel, LH	fuel gases

Maximum working pressure for all NPT/B-size versions in this catalogue: 200 psig (13.8 bar(g)). Oxygen service requires appropriate O2 cleanliness.

SERIES 9400

Selection, sealing and ordering

Quick guide for choosing the correct part number and using series 9400 fittings.

1	Choose connection A size: 1/8, 1/4, 3/8, 1/2 or 3/4 NPT.
2	Choose connection B size or the B-size side.
3	**Choose type: ZZ, ZN, NN or NB. The type designation is always placed at the end of the part number.**
4	For B-size versions specify RH (oxygen) or LH (fuel gas).

NPT sealing

- NPT is a tapered thread and seals on the thread.
- Use PTFE tape or thread sealant compatible with the medium, pressure and temperature.
- For oxygen service use only O2-compatible materials and properly cleaned/degreased components.
- Do not exceed the catalogued working pressure.

Part-number examples

9400-1/4-1/4-ZZ - male 1/4" NPT x male 1/4" NPT
9400-1/4-1/2-ZN - male 1/4" NPT x female 1/2" NPT
9400-3/4-1/2-NN - female 3/4" NPT x female 1/2" NPT
9400-1/4-BM-RH-NB - 1/4" NPT M x B-size M RH, oxygen

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Maximum working pressure for all NPT/B-size versions in this catalogue: 200 psig (13.8 bar(g)). Oxygen service requires appropriate O2 cleanliness.

SERIES 9400

Technical notes and contact

Additional information for selecting, using and ordering straight series 9400 NPT fittings.

1 General notes

- NPT versions in this catalogue: max. 20 bar (290 psi).
- NPT/B-size / CGA-02 combinations: max. 200 psig (13.8 bar(g)).
- NPT standard: ASME B1.20.1-2013 (R2018).
- B-size in this catalogue: 9/16"-18 UNF, CGA-022 / CGA-023.
- For oxygen service, the order must specify that the fittings are to be suitably degreased.

2 Available on request

- Other reductions and size combinations.
- Special material versions.
- Fittings for specific media and cleanliness requirements.
- Adaptation to customer technical requirements.

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Contact us for additional versions and technical support.

Technical basis: ASME B1.20.1-2013 (R2018); B-size/CGA. The 20 bar value is the series 9400 catalogue limit and is not a pressure prescribed by ASME B1.20.1.