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Sequence Hcshah

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separate the two

**Api Flange Bolt
Tightening
Sequence**

BOLT TIGHTENING
SEQUENCE FOR
FLANGES USING 16
BOLTS.. Lubricate bolt
and nut threads and
nut bearing face
(where it contacts the
flange). After flange
assembly and all nuts
have been run down by
hand, start wrench
tightening following the

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Bolt Tightening

Sequence Hahah

sequence of the numbers indicated (marking the number on the flange with a crayon aids in keeping track of the tightening process).

**API Flange
Tightening,
Sequence,
Recommended
Flange Bolt ...**

BOLT TIGHTENING
SEQUENCE FOR API
FLANGES. Lubricate
bolt and nut threads

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Bolt Tightening
Sequence Method

and nut bearing face (where it contacts the flange). After flange assembly and all nuts have been run down by hand, start wrench tightening following the sequence of the numbers indicated (marking the number on the flange with a crayon aids in keeping track of the tightening process).

**How to Tighten API
Flanges, Order of**

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Continue tightening the nuts, closing the Clamp around the Hub evenly, until the space between the Hub neck and Clamp bore becomes nearly equal. Continue tightening to achieve approximately 25% recommended torque. Tighten another round to approximately 50% of recommended torque.

How to Tighten API
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Bolt Tightening

Supriya Hcshah

Flanges, Order of Flange Bolt ...

Flange joints require proper tightening to avoid the leak of the fluid from the joint. Bolt tightening sequence or torque sequence is defined in the torque tightening procedure. Most company has their Flange bolt torque tightening procedure that used during construction and operation of the plant.

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Bolt Tightening

Flange joints are torque tight with the help of a torque wrench (Manual or hydronic wrench).

Flange Bolt Torque Sequence and Torque Table - A Complete ...

Bolt Tightening Sequence, Flange Stand-off (Gap Between 6B Flanges), 6BX Flanges , Drift Size / Test) FLANGE ASSEMBLY, Prior to

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Bolt Tightening
Source: Hoshah

assembling a flanged connection, clean the ring grooves and inspect for damage (see Field Appraisal of Ring Grooves) . Select a new ring gasket of the specified size (To identify the flange see Flange Slide Rule , For known flanges see Flange Reference Chart) .

How to Put Flanges Together, Connect Flanges, API Flange

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Starting at the #1 bolt, use the appropriate cross-pattern tightening sequence in the sketch below for Rounds 1, 2, and 3 and/or Round 4 (each sequence constitutes a "Round"). 4-bolt and 8-bolt flanges: 1 2 3 4
1 2 3 4

FLANGE BOLTING GUIDE

Start the tightening procedure by

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Bolt Tightening

Sequence Manual

lubricating the nuts and bolts. Then hand tighten till they are snug against the flanges. If an air wrench is used make sure the pressure is set to the minimum. When tightening, always use the correct sequential bolt order for the flange. 4 and 8 Bolt Flanges. First round - 30% of final torque (flange sequential order)

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Bolt Tightening

**Procedure - piping-
designer.com**

14 bolt torquing
parameter 15 work
sequence / procedures
16 bolt torquing and
tensioning activities 17
temporary gasket &
their controls 18 stud
bolt additional
tightening procedure
19 torque / tensioning
valve 20 flange
traceability
identification tagging
21 quality assurance

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Bolt Tightening

and controls 23 torque
tighting do or do not 23
attachements

**Bolt Torque
Tightening
Procedures Revsion
No: 1**

48-Bolt-Flange-Torque-
Pattern. File

Classification: Bolting
Patterns. Product Type:
Gasket. Download.

English: 48-Bolt-Flange-
Torque-Pattern.pdf.

Engineering Tools.

Resources to help you

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determine the right solution for your application. Read More. Ah Ha Cloud. Got something to say? Scribble it on a virtual napkin, fold it up and drop it right ...

48-Bolt-Flange-Torque-Pattern | Garlock

Some flanges can be over-tightened to the point that the ring groove or the flange can be damaged. The

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following 4 API flanges should not be made up beyond 40,000 psi bolt stress (tension), due to potentially high flange stress, and API specifies 40,000 psi stress for all sizes of flanges using

API Flange Bolt Torque Calculator for Tension as a % of

...

cad / 3d flange
drawings; flange dims /
weights. ansi b16.5

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Bolt Tightening

Sequence Hoist

forged flanges; ansi
b16.5 1/2" - 24" forged
flange weight chart;
ansi b16.47 series a
flanges; ansi b16.47
series b flanges; ansi
b16.47 note; ansi
b16.1 industry
standard; boiler code
flanges; api flanges
slide rule; api flanges
selector; orifice union
b16.36 flanges; awwa
c207 ...

Flange Bolting Chart
- Texas Flange

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Bolt Tightening
Sequence Hobbah

The first pass, lightly tighten the first bolt then move directly across or 180 degrees for the second bolt, then move 1/4 turn around the circle or 90 degrees for the third bolt and directly across for the fourth. Continue this sequence until all bolts are tightened. When tightening a four-bolt flange, use a criss-cross pattern.

Flange Bolt-Up -

Page 19/28

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**Torque Tightening,
Preload, Torque ...**

Flange Bolt Charts.

150# Flange Bolt

Chart; 300# Flange

Bolt Chart; 600#

Flange Bolt Chart;

900# Flange Bolt

Chart; 1500# Flange

Bolt Chart; 2500#

Flange Bolt Chart

Torque Charts

Step 7 Tighten studs

per the Stud Bolt

Tightening Sequence,

for 4 to 32 bolts use

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Bolt Tightening

Sequence 1001h

Figure SAEP-351-01
and for 36 to 68 bolts
see Figure
SAEP-351-02 for bolts
numbering and then
follow the tightening
sequence of Table
SAEP-351-04. An
appropriate tool should
be used such as an air
impact wrench or
equivalent.

Bolted Flange Joints

Assembly : □□□ □□□

28-Bolt-Flange-Torque-

Pattern. File

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Bolt Tightening

Classification: Bolting

Patterns. Product Type:

Gasket. Download.

English: 28-Bolt-Flange-

Torque-Pattern.pdf.

Engineering Tools.

Resources to help you

determine the right

solution for your

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napkin, fold it up and

drop it right ...

28-Bolt-Flange-

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Torque-Pattern |

Garlock

New Xylan 1052

(manganese-phosphate
plate) coated steel

bolts and nuts without
1/4 in. thick washers.

No lubrication. 0.17.

Used Xylan coated
steel bolts and nuts

with 1/4 in. thick

washers. Lubricated on
all mating surfaces of

washers, studs, and
nuts with Moly Paste

containing 70% solids.

0.17. API SA2. 0.18

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**EZ Calc - ANSI and
API Calculator for
Flange and Bolting**

...

Re: API 650 Torque
Values Date: February
2004 . Bolt Torque
Values for API 650 .
Roof Manholes and
Shell Manholes . Roof
Manholes . Roof
manholes should not
present any sealing
problems since they
see no pressure or
media. The 20" and

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Bolt Tightening

Sequence - Hoshah

24" standard roof manholes use 16 and 20, 5/8" bolts respectively. API 650 specifies full-face gaskets.

API 650 Manhole Torque Values - Garlock

A bolt tightening sequence (e.g., all bolts are hand tightened, then all bolts are tightened to 25 percent of desired preload, then 50

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Bolt Tightening

Sequence Hashah

percent, then 75
percent, then 100
percent);

Determination of
required bolt
preloading, as
discussed below; and;
Method of achieving
and verifying bolt
preload, also discussed
below. _____ 1 API
Engineering ...

Appendix J: Bolting Preload | High- Performance Bolting

...

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Bolt Tightening

Garlock Bolt Torque
Values for FLEXSEAL®

Spiral Wound Gaskets -

ANSI B16.47 Series A

Class 300# Flanges

'LYLVLRQ6WUHHW 3

DOP\UD 1HZ<RUN 86\$

- 315 - 597 -

7ROO)UHH - 800 - 448

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