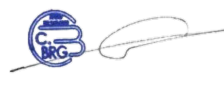


## General – Tightening torque

*Général – Couple de serrage*

| Revision | Date        | Description                                     | Author                                                                              | Checked                                                                               | Approved                                                                              |
|----------|-------------|-------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 0        | 01 Mar 2022 | Creation                                        |                                                                                     |                                                                                       |                                                                                       |
| 1        | 14 Apr 2022 | Valve added                                     |                                                                                     |                                                                                       |                                                                                       |
| 2        | 21 Jul 2022 | Main axle nut torque added                      |                                                                                     |                                                                                       |                                                                                       |
| 3        | 31 Jul 2024 | Low nut added + Bleeding screw added            |                                                                                     |                                                                                       |                                                                                       |
| 4        | 08 Nov 2024 | M12 Tightening torque added                     |                                                                                     |                                                                                       |                                                                                       |
| 5        | 11 Dec 2024 | Tightening torque of the reservoir screws added |  |  |  |

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## 1 General

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This document presents the standard tightening torques to be applied on the different screws.

*Ce document présente les principaux couples à appliquer sur les différentes vis.*

**CAUTION:** If a torque is already written on the backplate or on the wheel, it must be applied instead of the torques listed below.

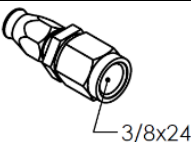
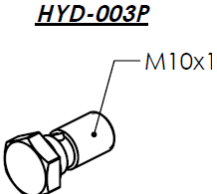
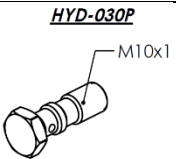
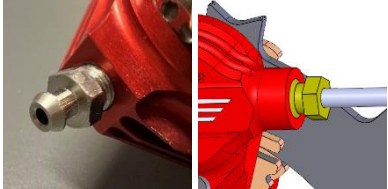
**ATTENTION:** *Si un couple est déjà écrit sur le renfort d'étrier ou sur la roue, il doit être appliqué à la place de ceux listés ci-dessous.*

## 2 Standard tightening torque /Couple de serrage standard

**WARNING:** Refer to the marking on the wheels for the tightening torque of the rim screws

**ATTENTION:** Se référer au couple marqué sur les jantes pour le couple de serrage des vis de jante

### Hydraulic fittings / Visserie hydraulique

| TYPE                                                                                  | DESIGN                                                                              | TORQUE                                                                                             |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| DASH-03 (3/8x24)                                                                      |    | 14 Nm (124 in.lbs)                                                                                 |
| DASH-04 (7/16x20)                                                                     |    | 18 Nm (159 in.lbs)                                                                                 |
| Single banjo bolt (HYD-003P)                                                          |    | 5 Nm (44 in.lbs) + 90°                                                                             |
| Dual banjo bolt (HYD-030P)                                                            |  | 5 Nm (44 in.lbs) + 120°                                                                            |
| (Simple) M10x1 fitting                                                                |  | 20 Nm (177 in.lbs)                                                                                 |
| Braided line reusable fitting<br>/ Raccord à visser pour<br>durite tressée            |  | No torque indicated (Lubricate with grease) / Pas de couple indiqué (Lubrifier avec de la graisse) |
| Valve                                                                                 |  | 7 Nm (62 in.lbs) + Threadlocker/Frein-filet : LOCTITE 243                                          |
| Bleeding Screw or hardline<br>captive nut / Vis de purge ou<br>écrou de durite rigide |  | 17 Nm (150 in.lbs)                                                                                 |

## Metric screws / Visserie métrique

| SCREW   | TORQUE                            |
|---------|-----------------------------------|
| M3      | 1.5 Nm (13 in.lbs)                |
| M4      | 3 Nm (27 in.lbs)                  |
| M5      | 6 Nm (53 in.lbs)                  |
| M6      | 12 Nm (106 in.lbs)                |
| M8      | 25 Nm (221 in.lbs)                |
| M10x1.5 | 60 Nm (531 in.lbs / 44 ft.lbs)    |
| M12     | 100 Nm (885 in.lbs / 73.8 ft.lbs) |

## Imperial screws / visserie américaine

| SCREW         | Detail       | TORQUE             |
|---------------|--------------|--------------------|
| AN4 / NAS6604 | UNF 1/4"-28  | 12 Nm (106 in.lbs) |
| AN5           | UNF 5/16"-24 | 26 Nm (230 in.lbs) |
| AN6           | UNF 3/8"-24  | 42 Nm (372 in.lbs) |

**NOTE :** Low profile nuts must be tightened to half the torque indicated in the above table

*Les écrous taille basse doivent être serrés à la moitié du couple indiqué dans le tableau ci-dessus*



## Reservoir screws / Vis de réservoir

The screws of the reservoir cap must be tightened to contact

*Les vis du couvercle du réservoir doivent être serrées au contact.*



## WARNING / ATTENTION :

Overtightening can cause the membrane to deteriorate and leak over the long term.

*En cas de serrage trop important, la membrane pourrait se détériorer et fuir sur le long terme.*

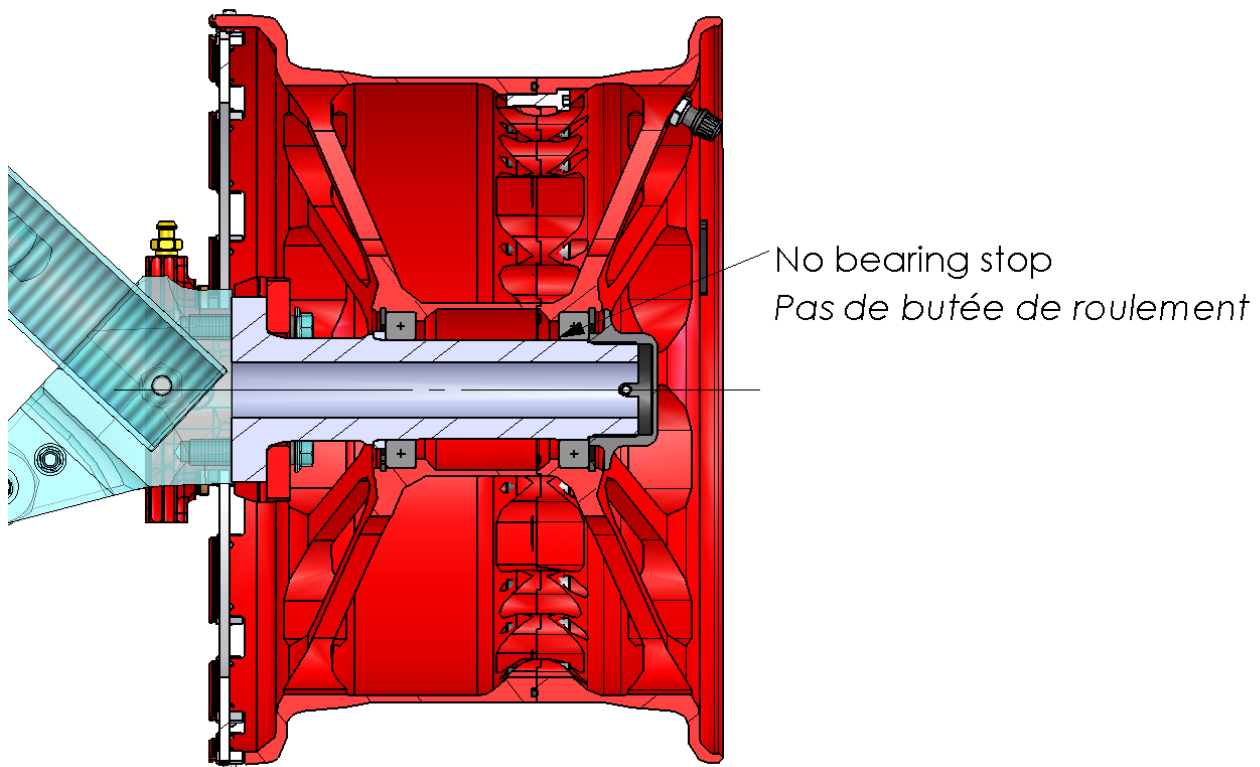
### 3 Main axle nut tightening torque / *Couple de serrage de l'écrou de fusée*

**NOTE:** For wheels with exceptional bearing installation in "O", the axle nut shall be tightened to contact (see picture below)

*Pour les roues dotées exceptionnellement d'un montage des roulements en "O", l'écrou de fusée doit être serré au contact (voir photo ci-dessous).*

| NUT DIAMETER     | TORQUE             |
|------------------|--------------------|
| Ø15 mm (0.59 in) | 15 Nm (132 in.lbs) |
| Ø20 mm (0.79 in) | 20 Nm (177 in.lbs) |
| Ø25 mm (0.98 in) | 25 Nm (221 in.lbs) |
| Ø30 mm (1.18 in) | 30 Nm (266 in.lbs) |
| Ø35 mm (1.38 in) | 35 Nm (310 in.lbs) |

Bearing Installation in "O"  
Montage des roulements en "O"



## 4 Fitting tightening torque / *Couple de serrage des raccords*

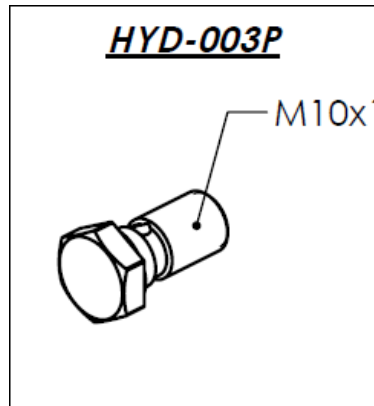
### 4.1 Banjo bolt / *Vis banjo*

The torque procedure is defined in torque + angle. This practice ensures a good tightening in any condition (with or without lubricant).

*Le couple de serrage est défini par une valeur de couple + un angle de serrage. Cette procédure assure un bon serrage en toute condition (avec ou sans lubrifiant).*

#### 4.1.1 Single banjo bolt / *Vis banjo simple*

Torque / Couple : **5 N.m (44 in.lbs) + 90°**



**1** Initial Position /  
*Position Initiale*



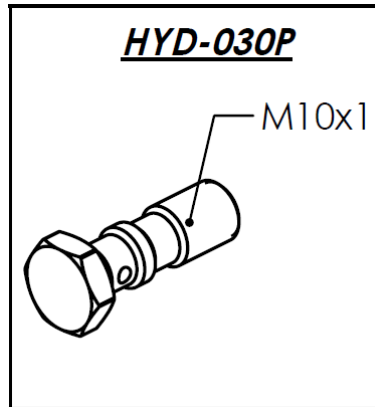
**2** Torque / *Couple* 5 N.m  
(44 in.lbs)



**3** Torque / *Couple* 5 N.m  
(44in.lbs) + 90°

## 4.1.2 Dual banjo bolt / Vis banjo double

Torque / Couple : **5 N.m (44 in.lbs) + 120°**



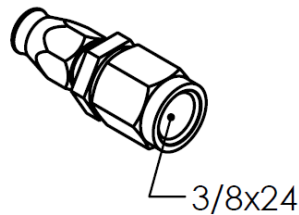
The procedure is the same as for the single banjo bolt. Be careful, for dual banjo bolt the angle is 120° instead of 90°.

*La procédure est la même que pour la vis banjo simple. Attention, pour la vis banjo double, l'angle est de 120° au lieu de 90°.*

## 4.2 Flared JIC thread / Filetage à portée conique JIC

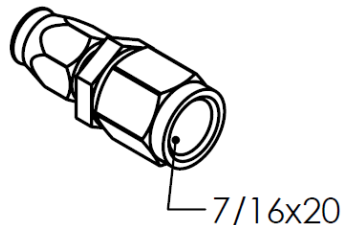
### 4.2.1 AN3 (3/8x24)

Torque / Couple : **14 N.m (124 in.lbs)**



### 4.2.2 AN4 (7/16x20)

Torque / Couple : **18 N.m (159 in.lbs)**



## 4.3 Braided line reusable fitting / Raccord à visser pour durite tressée

Lubricate the threads of the nut with grease or WD 40. Apply forceful tightening (No torque value is recommended, it depends on various parameters). Between 0 and 1 thread shall remain visible.

*Lubrifier les filetages de l'écrou avec de la graisse ou du WD 40. Serrer énergiquement (aucun couple de serrage n'est préconisé, il dépend de nombreux paramètres). Entre 0 et 1 filet doit rester visible.*

