

Worm-drive hose clamps



CAILLAU

CAILLAU has a broad and deep range of worm-drive hose clamps meeting most functional requirements

Caractéristiques Characteristics	Matière Material	Largeur de bande Band Width	Épaisseur de bande Band thickness	Vis à tête hexagonale Hexagon head screw Cote sur plat Dimension across flats mm	Couple d'utilisation Tightening torque utilisation Nm
Désignation produit Product designation		mm	mm		
HOP [®] 5M	W2	5	0,4	6 pans 4	1
HOPINOX [®] 5M	W4				0
HOP [®] 8M	W2	8	0,6	6 pans 7	1,5 à 2,5
HOPINOX [®] 8M	W4				
HOPAPILLON [®] 8M	W2				
NEMO [®]	W2	9	0,7	6 pans 7	2,5 à 4
NEMIX [®]	W3				
NEMIOX [®]	W4				
NEMO BE [®]	W2				
NEMO BEX [®]	W3				
HOP [®] 14	W3	13,7	0,7	6 pans 8	5,5 à 8,5
HOPINOX [®] 14	W4				

HOP[®] CLAMPS

The HOP[®] range of worm-drive hose clamps offers high clamping force for small diameters. Two versions are available (W2 and W4) for automotive, aerospace, industrial, naval applications, ... They stand out by:

- Their excellent efficiency, thus ensuring good tightness at a relatively low torque.
- A very flexible band thanks to its minimal thickness
- Compatibility with NFE 27581 / DIN 3017 standards
- A band with rounded edges preventing any damage to the hose
- Recommended screwing speed: 300 rpm (max. 500 rpm)

HOP[®] 5M

The HOP[®] 5M range is very popular for its clamping capabilities on very small diameters. The HOP[®] 5M clamp has a full rack and a band with smooth inner face, which increases efficiency without risk of damaging the hose.



HOP[®] 8M

The HOP[®] 8M clamps consist of a band with rounded edges and a full rack (smooth inner face) which increases efficiency without risk of damaging the hoses.

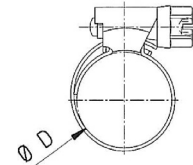


HOPAPILLON[®] 8M

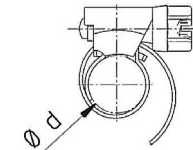
The HOPAPILLON[®] range is mainly used to clamp gas pipes. The plastic wing-nut enables easy manual tightening of the clamp. The wing snaps off once the clamp is properly tightened. The clamp can then no longer be removed manually.



Avant serrage
Clamp before tightening



Après serrage
Tightened clamp



D : diamètre maximal d'utilisation du collier
D : maximal diameter of the clamp
d : diamètre minimal d'utilisation du collier
d : minimal diameter of the clamp

	Plage d'utilisation	
	d	D
HOP [®] 5M	7	11
	9	14
	10	19
HOP [®] 8M	8	12
	8	16
	10	18
	12	22
	14	24
HOPAPILLON	8	16
	16	27

Application

The NEMO® clamp is particularly recommended for the automotive industry (OEM and aftermarket), navy, aerospace, electronics, ventilation and other industrial applications.



Technical performance

- The NEMO® clamp offers great clamping force.
- Ensures an even distribution of the clamping force
- Maintain sealing for applications subjected to temperature ranging from -20°C to +110°C
- Withstands vibration
- Is not aggressive and does not damage the hoses (stamped band with completely smooth inner face, raised ends and rounded edges).
- The screw head enables fitting and removal with a screwdriver or a spanner
- Thanks to its disengageable housing, the NEMO® clamp enables:
 - Quick fitting (adjustment to hose diameter)
 - Quick removal with or without a screwdriver
 - Substitution without having to disconnect the hose

Utilisation

Recommended torque: 3 to 4 Nm depending on functional requirement

Recommended screwing speed: 300 rpm

Existing references

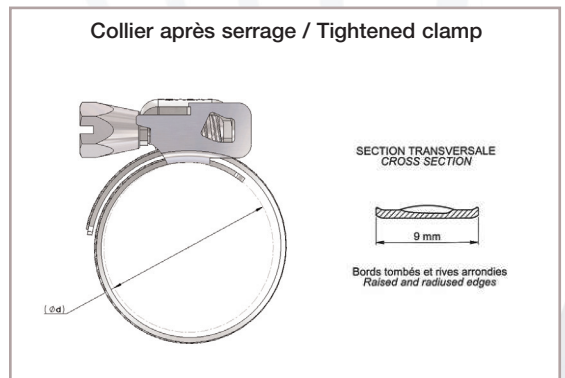
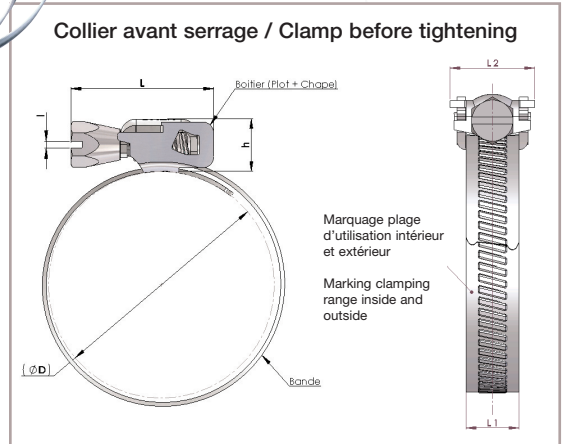
Band width: 9 mm, thickness: 0.6 mm

Diameters: 11.5 mm to 75 mm

The NEMO® clamp can be supplied with black finish

The NEMO® clamp can be supplied with non-disengageable housing (NEMO® PINCÉ)

The NEMO® clamp can be supplied in coated steel (W2) and stainless steel (W3 and W4).



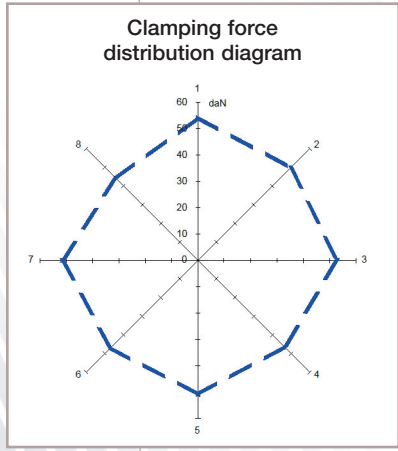
Assembly / Disassembling of NEMO® clamp

Le NEMO® est ouvert, le plot/vis est relevé
The NEMO® clip opened, with the screw/jack assembly raised

Amener la bande jusqu'au diamètre désiré, tirer le Plot/vis suivant flèche F1.
Le basculer suivant flèche F2 et pousser suivant flèche F3 dans les 2 crans de sécurité.

Tighten the band to the requested diameter and pull the screw/jack assembly in arrow direction F1.
Tilt the assembly in arrow direction F2 and push in the 2 safety catches.

Plage d'utilisation		Poids (g)	L1±1	L2	h	L
d	D					
16	27	13,7	9	14	11	26
20	35	14,7	9	14	11	26
20	40	15,4	9	14	11	26
20	47	16,2	9	14	11	26
30	50	16,6	9	14	11	26
30	60	18,6	9	14	11	26
40	70	19,2	9	14	11	26
40	80	20,6	9	14	11	26
40	90	22,8	9	14	11	26
60	100	24,1	9	14	11	29
60	115	26,2	9	14	11	29
60	125	28	9	14	11	29
60	145	30	9	14	11	29
60	175	33	9	14	11	29
60	215	41,6	9	14	11	29
60	288	49,8	9	14	11	29
60	320	53,7	9	14	11	29
60	370	62,8	9	14	11	29
60	420	67,2	9	14	11	29
60	540	85	9	14	11	29
60	650	99	9	14	11	29
60	750	113	9	14	11	29



NEMO® BES

The NEMO® BE clamp includes a housing with a jack/spring used to compensate for the dimensional variations of the hose and pipe-end depending on temperature. Further to the characteristics of standard NEMO® clamps, the NEMO® BE clamp ensures a tight connection between -40°C and +140°C even in case of rubber compression set. The NEMO® BES clamp is supplied with a shear head : the screw tip breaks as the recommended tightening torque is reacted.

Applications

The NEMO® BES clamp is particularly adapted for cooling and air inlet systems engines.

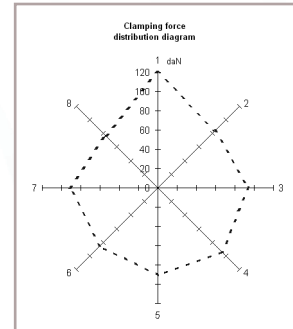
Technical characteristics

Available in W2 and W3 versions.

A version without shear head is also available snap-off head exists, named NEMO® BE.



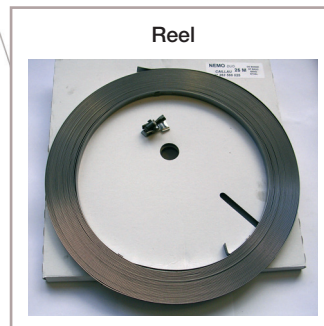
Plage d'utilisation mm		L
d	D	
12	18	27,5
12	22	27,5
16	27	27,5
20	32	27,5
23	35	27,5
30	45	27,5
32	52	27,5
40	60	30,5
50	70	30,5
60	80	30,5
70	90	30,5
80	100	30,5
90	110	30,5
100	120	30,5
110	130	30,5
120	140	30,5
130	150	30,5
140	160	30,5
150	170	30,5



NEMO® DUO

Clamp in 2 parts:

- Stainless steel band (17% chromium) of 25 metres in a reel
- Housing/screw with fixing support enabling clamping with the requested band length.



DESIGNATION
25 meter reel
Ferritic stainless steel
9 mm band width
Plastic box of 50 housings NEMO® W2
NEMO® DUO kit :
25 m band reel + 50 housings

HOP® 14

The HOP® 14 clamp, with its exceptional clamping force, is particularly adapted to high-duty applications in the automotive, aerospace or other industries.

Examples: hydraulic systems on public works machinery, air inlet systems on trucks

The HOP® 14 clamp (W3) consists of an integral ferritic stainless steel band with completely smooth inner face and rounded edges, a closed ferritic stainless steel housing outset from the band, thus enabling straight meshing of the screw with the rack, and a hexagonal head screw.

Technical performance

- Avoids damage to the hose
- Can be fitted with a screwdriver or screwdriving machine
- Can be reused
- Withstands vibration and external stresses

Technical characteristics

Band	14.5 mm max. x 0.7 mm
Housing	36.5 mm x 21.7 mm
Screw	Hexagonal head of 8mm + slot
Torque	10 Nm max.
Screwing speed	300 rpm



Existing references

21 available references from diameters 16-27 to 225-260

Clamping ranges of 11 to 35 mm depending on sizes

An all-austenitic stainless steel version exists, named : HOPINOX® 14 W4.



CAILLAU