گشتاورهای سفت کننده استاندارد

در مواردی که گشتاور ذ کر نشده است با توجه به اندازه رزوه و کلاس هر پیچ از گشتاور استاندارد استفاده کنید



تمام مواد درگیر در برنامه باید هنگام محاسبه گشتاور در نظر گرفته شوند. این امر به ویژه مهم است هنگامی که اجسامی که باید بسته شوند دارای گشتاور کمتری نسبت به خود پیچ / مهره هستند.

Screw, 8.8 class, medium level

Thread	Assembling torque	
	(Nm)	
M5	6 ± 1	
M6	10 ± 1.5	
M7	17 ± 3	
M8	24 ± 4	
M10	48 ± 8	
M12	85 ± 15	
M14	140 ± 25	
M16	220 ± 35	
M18	M18 290 ± 45	
M20	430 ± 70	
M22	M22 580 ± 90	
M24	740 ± 120	

Screws, class 10.9, medium level

Thread	Assembling torque (Nm)	
M5	7.5 ± 1.2	
M6	12 ± 2	
M7	22 ± 3	
M8	30 ± 5	
M10	60 ± 10	
M12	M12 105 ± 20	
M14	M14 175 ± 30	
M16	M16 275 ± 45	
M18	360 ± 55	
M20	540 ± 90	
M22	730 ± 120	
M24	900 ± 140	

Screws, class 8.8, UN thread

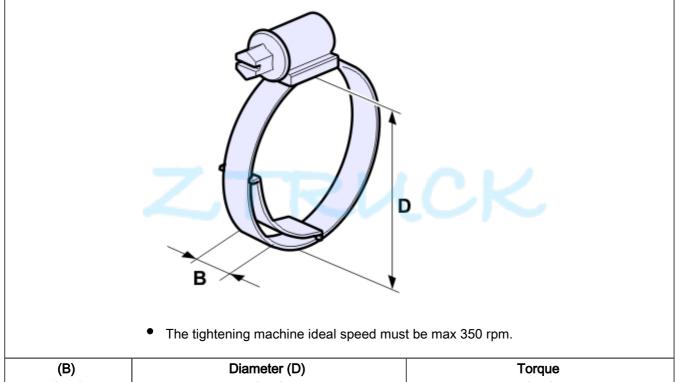
Assembling torque	
(Nm)	
10 ± 2.5	

Cbpyright to this documentation belongs to the Volvo Group. No reproduction, copying, change, lamendment or other similar disposal is entitled without prior written consent by the Volvo Group

5/16	20 ± 5	
3/8	3/8 40 ± 10	
7/16	7/16 60 ± 15	
1/2	1/2 100 ± 25	
9/16	140 ± 30	
5/8	200 ± 50	

Hose clamps with spring function

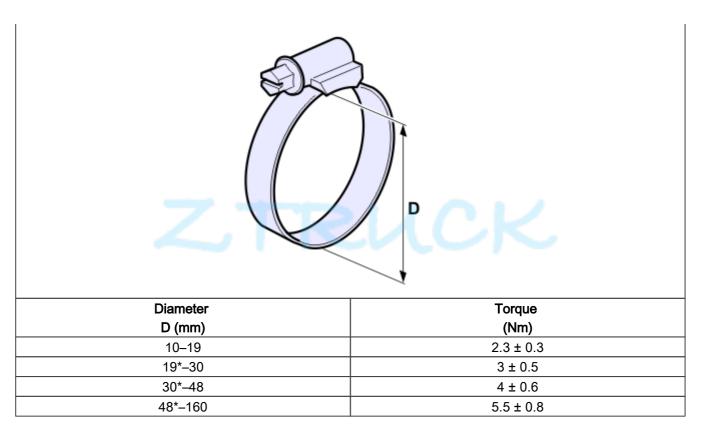
Note: It is recommended the following tightening torque for clamps on hoses.



(B)	Diameter (D)	Torque	
(mm)	(mm)	(Nm)	
9	10–18	2–2.5	
9	Other ranges	3–3.5 (no max stated)	
12	All ranges	5–5.5 (6.5 max)	

Hose clamps

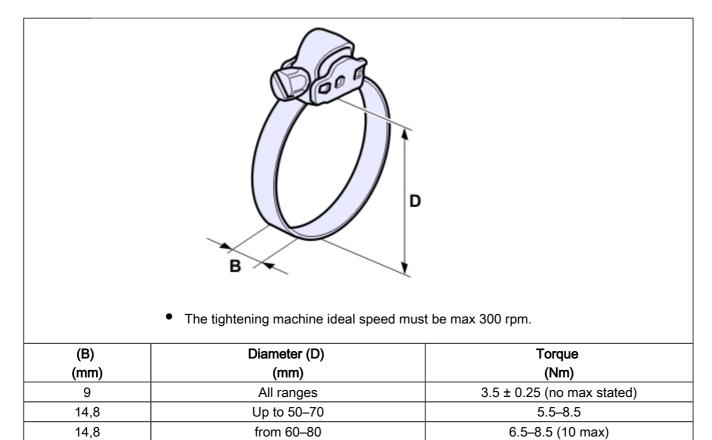
Cbpyright to this documentation belongs to the Volvo Group. No reproduction, copying, change, amendment or other similar disposal is entitled without prior written consent by the Volvo Group



Note: * Value not included on the interval.

Hose clamp with spring function

Note: Old assortment.



Hose clamp with spring function, torque cap

Copyright to this documentation belongs to the Volvo Group. No reproduction, copying, change, amendment or other similar disposal is entitled without prior written consent by the Volvo Group



The tightening machine ideal speed must be of 300 \pm 100 rpm.

Recommended tightening torque 3 ± 0.25 Nm (torque independent of the clamp diameter).

The clamp must be tightened up to the nut head break.

The clamp must not be reused.

Nipples and plugs



Caution

For eliminating the risk of damaging the gasket, it is very important to make sure that the nipple will not move when the tightening torque is applied to the nut which fixes it. Therefore the nipple must be hold to avoid its movement. Only after this procedure the torque must be applied to the nipple fastening nut.

Thread	Tightening torque (Nm)				
	Nipples and plugs	Nipples and plugs	Angular nipples with tapered thread		
	with O-rings	with NPTF threads			
		•	Minimum torque + rotation for positioning,		
			less than 360°		
		•	Do not unscrew the thread for achieving the		
			position		
			Seal	Chemical lock	
M10 x 1.0	15 ± 3		10	10	
M12 x 1.5	25 ± 5		15	10	
M16 x 1.5	40 + 8 / – 16		25	10	
M22 x 1.5	40 ± 8		25	10	
1/8"–27		10 ± 1.5			
1/4"–18		20 ± 3			
3/8"–18		30 ± 5			
3/4"–14		50 ± 7			