



- 1 Improved asymmetric housing**  
– even distribution of forces and safe assembly
- 2 Screw support**  
– ease of assembly due to the safe guidance of the emerging band end
- 3 Material and clamping range stamped on the band**  
– prevention of errors
- 4 Asymmetric extension**  
– prevents the housing from tilting over when the clamp is tightened
- 5 Short housing saddle**  
– even contact pressure  
– improved efficiency
- 6 Smooth or stamped inside of band**  
– optimal hose protection

## Worm drive hose clamps in accordance with DIN 3017

NORMACLAMP® TORRO® multi-range hose clamps are ideally suited to applications with high mechanical loads. Thanks to the continuous developments these products have undergone, they remain the benchmark within modern clamp construction. The key feature of a NORMACLAMP® TORRO® product is its asymmetrical construction - an instant sign that it is a genuine TORRO®.



Asymmetric housing provides high clamping force and superior torque strength. Even distribution of clamping pressure. Clamp aligns perfectly on the hose and ensures the optimal sealing of the connection.

### Advantages at a glance

- Multi-range hose clamp
- No chromium(VI) used for coating purposes
- Clamping ranges in acc. with DIN 3017: 8-16 mm to 140-160 mm
- Larger diameters available on request

### Applications

- Joining cooling water lines
- Depressurized and pressurized fuel lines and ventilation systems
- Oil lines
- Joining lines in sanitary applications
- Joining lines in machine building applications
- Lines in the household appliance industry
- Hose lines in the commercial vehicle industries

### Materials

W1*	W2	W3	W4	W5
x	x	x	x	x

\* No chromium(VI) used for the coating on the closure components

Material	Corrosion resistance in salt spray testing
W1	Min. 144 h
W2	Min. 72 h
W3	Min. 200 h*
W4	Min. 400 h
W5	Min. 1000 h

\*Max 10% base metal corrosion permissible

### Types of clamp band and screw

	W1	W2	W3	W4	W5
Phillips head SW 7*	•	•			
Slotted head SW 7			•	•	•

\* Band width 7.5 mm = SW 6

#### Band width 7.5 mm

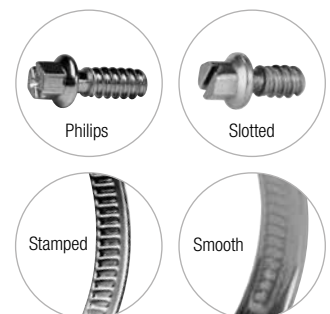
- W2, W3 with smooth inside

#### Band width 9 mm

- W1 with smooth inside
- W2, W3, W4, W5 with stamped inside

#### Band width 12 mm

- W1, W2, W3 with smooth inside
- W4, W5 with stamped inside



**Table of torques**

<b>TORRO 7.5 W2-W3</b>										
<b>Diameter</b>	<b>8-12</b>	<b>10-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT	max 1.5	max 1.5	max 1.5	max 1.5	max 1.5					
FRT max										
TT	2	2	2	2	2					
BD min	2.25	2.25	2.25	2.25	2.25					

<b>TORRO 9 W1</b>										
<b>Diameter</b>	<b>8-12</b>	<b>10-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT	2.5 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
TT	3.3	4	4	4	4	4	4	4	4	4
BD min	4	4.5	4.5	4.5	4.5	4.5	6	6	6	6

<b>TORRO 9 W2</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

<b>TORRO 9 W3</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

<b>TORRO 9 W3-W5</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

<b>TORRO 9 W2</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

<b>TORRO 9 W3-W5</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

<b>TORRO 9 W2</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

<b>TORRO 9 W3-W5</b>										
<b>Diameter</b>	<b>8-12</b>	<b>8-16</b>	<b>12-18</b>	<b>12-22</b>	<b>16-27</b>	<b>20-32</b>	<b>25-40</b>	<b>30-45</b>	<b>35-50</b>	<b>40-60</b>
TT		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
FRT max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
TT		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5

TT = Tightening Torque  
 FRT = Free Running Torque  
 TT = Testing Torque  
 BD = Break Torque

Table of torques

**TORRO 12 W1**

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
TT					5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
FRT max					1.2	1.2	1.2	1.2	1.2	1.2
TT					6.5	6.5	6.5	6.5	6.5	6.5
BD min					10	10	10	10	10	10

Diameter	50-70	60-80	70-90	80-100	90-110	100-120	110-130	120-140	130-150	140-160
TT	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
FRT max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
TT	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
BD min	10	10	10	10	10	10	10	10	10	10

**TORRO 12 W2/W3**

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
TT					5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
LD max					1	1	1	1	1	1
TT					6.5	6.5	6.5	6.5	6.5	6.5
BD min					8.0	8.0	8.5	8.5	8.5	8.5

Diameter	50-70	60-80	70-90	80-100	90-110	100-120	110-130	120-140	130-150	140-160
TT	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
FRT max	1	1	1	1	1	1	1	1	1	1
TT	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
BD min	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5

**TORRO 12 W4/W5**

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
TT					5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
FRT max					1	1	1	1	1	1
TT					6.5	6.5	6.5	6.5	6.5	6.5
BD min					8	8	8.5	8.5	8.5	8.5

Diameter	50-70	60-80	70-90	80-100	90-110	100-120	110-130	120-140	130-150	140-160
TT	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
FRT max	1	1	1	1	1	1	1	1	1	1
TT	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
BD min	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5

TT = Tightening Torque

FRT = Free Running Torque

TT = Testing Torque

BD = Break Torque

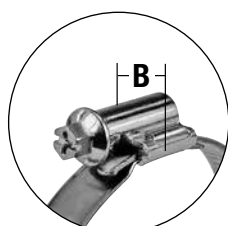
Technical data & Ordering information

NORMACLAMP® TORRO®													
Width	Designation	Clamping ranges		B	h	L	s	S (W1 only)	W1 Product No.	W2 Product No.	W3 Product No.	W4 Product No.	W5 Product No.
		in mm	in inches										
7.5	TORRO 8-12/7.5	8-12	5/16-1/2	11.5	9	17	0.6			0116 7602 010	0116 7603 010		
	TORRO 10-16/7.5	10-16	3/8-5/8	11.5	9	17	0.6			0116 7602 013	0116 7603 013		
	TORRO 12-18/7.5	12-18	1/2-11/16	11.5	9	17	0.6			0116 7602 015	0116 7603 015		
	TORRO 12-22/7.5	12-22	1/2-7/8	11.5	9	17	0.6			0116 7602 017	0116 7603 017		
	TORRO 16-27/7.5	16-27	5/8-1 1/16	11.5	9	17	0.6			0116 7602 021	0116 7603 021		
9	TORRO 8-12/9	8-12	5/16-1/2	13.0	11.0	21.0	0.65	0.8	0126 7565 010	0126 7702 010	0126 7703 010	0126 7704 010	
	TORRO 8-16/9 (10-16)	8-16	5/16-5/8	13.0	11.0	21.0	0.65	0.8	0126 7565 013	0126 7702 013	0126 7703 013	0126 7704 013	0126 7705 013
	TORRO 12-22/9	12-22	1/2-7/8	13.0	11.0	24.0	0.65	0.8	0126 7565 017	0126 7702 017	0126 7703 017	0126 7704 017	0126 7705 017
	TORRO 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.65	0.8	0126 7565 021	0126 7702 021	0126 7703 021	0126 7704 021	0126 7705 021
	TORRO 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.65	0.8	0126 7565 026	0126 7702 026	0126 7703 026	0126 7704 026	0126 7705 026
	TORRO 23-35/9	23-35	15/16-1 3/8	13.0	11.0	24.0	0.65	0.8	0126 7565 029	0126 7702 029	0126 7703 029	0126 7704 029	0126 7705 029
	TORRO 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.65	0.8	0126 7565 032	0126 7702 032	0126 7703 032	0126 7704 032	0126 7705 032
	TORRO 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.65	0.8	0126 7565 037	0126 7702 037	0126 7703 037	0126 7704 037	0126 7705 037
	TORRO 35-50/9 (32-50)	35-50	1 3/8-2	13.0	11.0	26.0	0.65	0.8	0126 7565 043	0126 7702 041	0126 7703 041	0126 7704 041	0126 7705 041
	TORRO 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0.8	0126 7565 050	0126 7702 050	0126 7703 050	0126 7704 050	0126 7705 050
	TORRO 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0.8	0126 7565 060	0126 7702 060	0126 7703 060	0126 7704 060	0126 7705 060
	TORRO 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0.8	0126 7565 070	0126 7702 070	0126 7703 070	0126 7704 070	0126 7705 070
	TORRO 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0.8	0126 7565 080	0126 7702 080	0126 7703 080	0126 7704 080	0126 7705 080
	TORRO 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0.8	0126 7565 090	0126 7702 090	0126 7703 090	0126 7704 090	0126 7705 090
	TORRO 90-110/9	90-110	3 9/16-4 5/16	13.0	11.0	26.0	0.65	0.8	0126 7565 100	0126 7702 100	0126 7703 100	0126 7704 100	0126 7705 100
	TORRO 100-120/9	100-120	3 15/16-4 3/4	13.0	11.0	26.0	0.65	0.8	0126 6565 110	0126 6702 110	0126 6703 110	0126 6704 110	0126 6705 110
	TORRO 110-130/9	110-130	4 5/16-5 1/8	13.0	11.0	26.0	0.65	0.8	0126 6565 120	0126 6702 120	0126 6703 120	0126 6704 120	0126 6705 120
	TORRO 120-140/9	120-140	4 3/4-5 1/2	13.0	11.0	26.0	0.65	0.8	0126 6565 130	0126 6702 130	0126 6703 130	0126 6704 130	0126 6705 130
	TORRO 130-150/9	130-150	5 1/8-5 15/16	13.0	11.0	26.0	0.65	0.8	0126 6565 140	0126 6702 140	0126 6703 140	0126 6704 140	0126 6705 140
	TORRO 140-160/9	140-160	5 1/2-6 5/16	13.0	11.0	26.0	0.65	0.8	0126 6565 150	0126 6702 150	0126 6703 150	0126 6704 150	0126 6705 150
12	TORRO 16-27/12	16-27	5/8-1 1/16	14.6	12.5	30.0	0.8	0.8	0136 7352 021	0136 7702 021	0136 7703 021	0136 7704 021	0136 7705 021
	TORRO 20-32/12	20-32	13/16-1 1/4	14.6	12.5	30.0	0.8	0.8	0136 7352 026	0136 7702 026	0136 7703 026	0136 7704 026	0136 7705 026
	TORRO 23-35/12	23-35	15/16-1 3/8	14.6	12.5	30.0	0.8	0.8	0136 7352 029	0136 7702 029	0136 7703 029	0136 7704 029	0136 7705 029
	TORRO 25-40/12	25-40	1-1 9/16	14.6	12.5	30.0	0.8	1.0	0136 7352 032	0136 7702 032	0136 7703 032	0136 7704 032	0136 7705 032
	TORRO 30-45/12	30-45	1 3/16-1 3/4	14.6	12.5	30.0	0.8	1.0	0136 7352 037	0136 7702 037	0136 7703 037	0136 7704 037	0136 7705 037
	TORRO 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	0.8	1.0	0136 7352 043	0136 7702 043	0136 7703 043	0136 7704 043	0136 7705 043
	TORRO 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	1.0	0136 7352 050	0136 7702 050	0136 7703 050	0136 7704 050	0136 7705 050
	TORRO 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	1.0	0136 7352 060	0136 7702 060	0136 7703 060	0136 7704 060	0136 7705 060
	TORRO 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	1.0	0136 7352 070	0136 7702 070	0136 7703 070	0136 7704 070	0136 7705 070
	TORRO 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	1.0	0136 7352 080	0136 7702 080	0136 7703 080	0136 7704 080	0136 7705 080
	TORRO 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	1.0	0136 7352 090	0136 7702 090	0136 7703 090	0136 7704 090	0136 7705 090
	TORRO 90-110/12	90-110	3 9/16-4 5/16	14.6	12.5	36.0	0.8	1.0	0136 7352 100	0136 7702 100	0136 7703 100	0136 7704 100	0136 7705 100
	TORRO 100-120/12	100-120	3 15/16-4 3/4	14.6	12.5	36.0	0.8	1.0	0136 6352 110	0136 6702 110	0136 6703 110	0136 6704 110	0136 6705 110
	TORRO 110-130/12	110-130	4 5/16-5 1/8	14.6	12.5	36.0	0.8	1.0	0136 6352 120	0136 6702 120	0136 6703 120	0136 6704 120	0136 6705 120
	TORRO 120-140/12	120-140	4 3/4-5 1/2	14.6	12.5	36.0	0.8	1.0	0136 6352 130	0136 6702 130	0136 6703 130	0136 6704 130	0136 6705 130
TORRO 130-150/12	130-150	5 1/8-5 15/16	14.6	12.5	36.0	0.8	1.0	0136 6352 140	0136 6702 140	0136 6703 140	0136 6704 140	0136 6705 140	
TORRO 140-160/12	140-160	5 1/2-6 5/16	14.6	12.5	36.0	0.8	1.0	0136 6352 150	0136 6702 150	0136 6703 150	0136 6704 150	0136 6705 150	

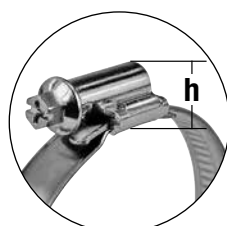
Additional diameters on request (up to 700 mm)



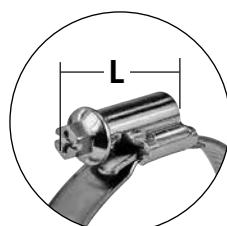
Refer to pages 181, 183, 184, 185, 188 and 191.



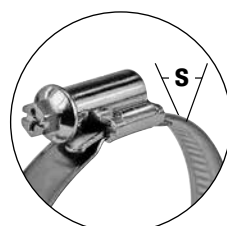
**B = overall width**  
housing



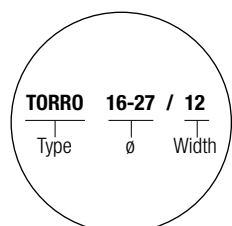
**h = overall height**  
bolt and housing



**L = overall length**  
bolt and housing



**s = band thickness**  
clamp band



**Name structure**  
clamp band

## WF



For this version of the NORMACLAMP® TORRO® the standard hose clamp is equipped with a spring insert on the inside of the clamp band. When tightening the screw the spring is loaded and stores sufficient clamping force to ensure a long-lasting automatic re-tensioning effect. Thus the radial clamping force achieved will be sufficient even under extremely low temperatures. Therefore, the TORRO® is an optimal solution for applications under extreme temperature changes (e.g., charged air) or for the retention of hoses with a tendency of 'creeping' (hose relaxation).

### Advantages at a glance

- Automatic re-tensioning effect in the event of hose relaxation
- Increased sealing reliability across a wide temperature range

### Materials

- W3, W4



### NORMACLAMP® WF

Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.	W4 Product No.
		in mm	in inches						
9	TORRO WF 8-16/9	8-16	5/16-5/8	13.0	11.0	21.0	0.65	0127 7708 013	0127 7711 013
	TORRO WF 12-18/9	12-18	1/2-11/16	13.0	11.0	24.0	0.65	0127 7708 018	0127 7711 015
	TORRO WF 12-20/9	12-20	1/2-13/16	13.0	11.0	24.0	0.65	0127 7708 016	0127 7711 016
	TORRO WF 12-22/9	12-22	1/2-7/8	13.0	11.0	24.0	0.65	0127 7708 017	0127 7711 017
	TORRO WF 16-25/9	16-25	5/8-1	13.0	11.0	24.0	0.65	0127 7708 020	0127 7711 020
	TORRO WF 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.65	0127 7708 021	0127 7711 021
	TORRO WF 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.65	0127 7708 026	0127 7711 026
	TORRO WF 23-35/9	23-35	15/16-1 3/8	13.0	11.0	24.0	0.65	0127 7708 029	0127 7711 029
	TORRO WF 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.65	0127 7708 032	0127 7711 032
	TORRO WF 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.65	0127 7708 037	0127 7711 037
	TORRO WF 32-50/9	32-50	1 3/8-2	13.0	11.0	26.0	0.65	0127 7708 041	0127 7711 041
	TORRO WF 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0127 7708 050	0127 7711 050
	TORRO WF 45-65/9	45-65	1 3/4-2 9/16	13.0	11.0	26.0	0.65	0127 7708 055	0127 7711 055
	TORRO WF 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0127 7708 060	0127 7711 060
	TORRO WF 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0127 7708 070	0127 7711 070
	TORRO WF 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0127 7708 080	0127 7711 080
	TORRO WF 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0127 7708 090	0127 7711 090
TORRO WF 90-110/9	90-110	3 9/16-4 5/16	13.0	11.0	26.0	0.65	0127 7708 100	0127 7711 100	
TORRO WF 100-120/9	100-120	3 15/16-4 3/4	13.0	11.0	26.0	0.65	0127 7708 110	0127 7711 110	
TORRO WF 110-130/9	110-130	4 3/8-5 1/8	13.0	11.0	26.0	0.65	0127 7708 120	0127 7711 120	
12	TORRO WF 16-27/12	16-27	5/8-1 1/16	14.6	12.5	30.0	0.8	0137 7708 021	0137 7711 021
	TORRO WF 20-32/12	20-32	13/16-1 1/4	14.6	12.5	30.0	0.8	0137 7708 026	0137 7711 026
	TORRO WF 25-40/12	25-40	1-1 9/16	14.6	12.5	30.0	0.8	0137 7708 032	0137 7711 032
	TORRO WF 30-45/12	30-45	1 3/16-1 3/4	14.6	12.5	30.0	0.8	0137 7708 037	0137 7711 037
	TORRO WF 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	0.8	0137 7708 043	0137 7711 043
	TORRO WF 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	0137 7708 050	0137 7711 050
	TORRO WF 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	0137 7708 060	0137 7711 060
	TORRO WF 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	0137 7708 070	0137 7711 070
	TORRO WF 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	0137 7708 080	0137 7711 080
	TORRO WF 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	0137 7708 090	0137 7711 090
	TORRO WF 90-110/12	90-110	3 9/16-4 5/16	14.6	12.5	36.0	0.8	0137 7708 100	0137 7711 100



Refer to page 191.

**Torque cap**



The torque cap shares off when the permissible tightening torque is reached, thus saving the need to use a torque wrench. The bolt slot can still be accessed even after the break-off point, meaning that the clamp can be removed and/or re-tensioned if necessary.

**Advantages at a glance**

- Defined tightening torque without the need for special tools
- Installation can be checked visually

**Materials**

- W1, W2, W3, W4

NORMACLAMP® TORRO® WITH TORQUE CAP												
Width	Designation	Clamping ranges		B	h	L	s	S (W1 only)	W1 Product No.	W2 Product No.	W3 Product No.	W4 Product No.
		in mm	in inches									
9	TORRO TORQUE CAP 8-12/9	8-12	5/16-1/2	13.0	11.0	27.0	0.65	0.8	0126 7562 010	0126 7516 010	0126 7432 010	0126 7490 010
	TORRO TORQUE CAP 8-16/9 (10 - 16)	8-16	5/16-5/8	13.0	11.0	27.0	0.65	0.8	0126 7562 013	0126 7516 013	0126 7432 013	0126 7490 013
	TORRO TORQUE CAP 12-22/9	12-22	1/2-7/8	13.0	11.0	30.0	0.65	0.8	0126 7562 017	0126 7516 017	0126 7432 017	0126 7490 017
	TORRO TORQUE CAP 16-27/9	16-27	5/8-1 1/16	13.0	11.0	30.0	0.65	0.8	0126 7562 021	0126 7516 021	0126 7432 021	0126 7490 021
	TORRO TORQUE CAP 20-32/9	20-32	13/16-1 1/4	13.0	11.0	30.0	0.65	0.8	0126 7562 026	0126 7516 026	0126 7432 026	0126 7490 026
	TORRO TORQUE CAP 23-35/9	23-35	15/16-1 3/8	13.0	11.0	30.0	0.65	0.8	0126 7562 029	0126 7516 029	0126 7432 029	0126 7490 029
	TORRO TORQUE CAP 25-40/9	25-40	1-1 9/16	13.0	11.0	32.0	0.65	0.8	0126 7562 032	0126 7516 032	0126 7432 032	0126 7490 032
	TORRO TORQUE CAP 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	32.0	0.65	0.8	0126 7562 037	0126 7516 037	0126 7432 037	0126 7490 037
	TORRO TORQUE CAP 35-50/9 (32 - 50)	35-50	1 3/8-2	13.0	11.0	32.0	0.65	0.8	0126 7562 043	0126 7516 041	0126 7432 041	0126 7490 041
	TORRO TORQUE CAP 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	32.0	0.65	0.8	0126 7562 050	0126 7516 050	0126 7432 050	0126 7490 050
	TORRO TORQUE CAP 50-70/9	50-70	2-2 3/4	13.0	11.0	32.0	0.65	0.8	0126 7562 060	0126 7516 060	0126 7432 060	0126 7490 060
	TORRO TORQUE CAP 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	32.0	0.65	0.8	0126 7562 070	0126 7516 070	0126 7432 070	0126 7490 070
	TORRO TORQUE CAP 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	32.0	0.65	0.8	0126 7562 080	0126 7516 080	0126 7432 080	0126 7490 080
	TORRO TORQUE CAP 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	32.0	0.65	0.8	0126 7562 090	0126 7516 090	0126 7432 090	0126 7490 090
	TORRO TORQUE CAP 90-110/9	90-110	3 9/16-4 5/16	13.0	11.0	32.0	0.65	0.8	0126 7562 100	0126 7516 100	0126 7432 100	0126 7490 100
	TORRO TORQUE CAP 100-120/9	100-120	3 15/16-4 5/16	13.0	11.0	32.0	0.65	0.8	0126 6562 110	0126 6516 110	0126 6432 110	0126 6490 110
	TORRO TORQUE CAP 110-130/9	110-130	4 5/16-5 1/8	13.0	11.0	32.0	0.65	0.8	0126 6562 120	0126 6516 120	0126 6432 120	0126 6490 120
TORRO TORQUE CAP 120-140/9	120-140	4 3/4-5 1/2	13.0	11.0	32.0	0.65	0.8	0126 6562 130	0126 6516 130	0126 6432 130	0126 6490 130	
TORRO TORQUE CAP 130-150/9	130-150	5 1/8-5 15/16	13.0	11.0	32.0	0.65	0.8	0126 6562 140	0126 6516 140	0126 6432 140	0126 6490 140	
TORRO TORQUE CAP 140-160/9	140-160	5 1/2-6 5/16	13.0	11.0	32.0	0.65	0.8	0126 6562 150	0126 6516 150	0126 6432 150	0126 6490 150	
12	TORRO TORQUE CAP 16-27/12	16-27	5/8-1 1/16	14.6	12.5	36.0	0.8	0.8	0136 7135 021		0136 7181 021	
	TORRO TORQUE CAP 20-32/12	20-32	13/16-1 1/4	14.6	12.5	36.0	0.8	0.8	0136 7135 026		0136 7181 026	
	TORRO TORQUE CAP 23-35/12	23-35	15/16-1 3/8	14.6	12.5	36.0	0.8	0.8	0136 7135 029		0136 7181 029	
	TORRO TORQUE CAP 25-40/12	25-40	1-1 9/16	14.6	12.5	36.0	1.0	1.0	0136 7135 032		0136 7181 032	
	TORRO TORQUE CAP 30-45/12	30-45	1 3/16-1 3/4	14.6	12.5	36.0	1.0	1.0	0136 7135 037		0136 7181 037	
	TORRO TORQUE CAP 35-50/12	35-50	1 3/8-2	14.6	12.5	36.0	1.0	1.0	0136 7135 043		0136 7181 043	
	TORRO TORQUE CAP 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	36.0	1.0	1.0	0136 7135 050		0136 7181 050	
	TORRO TORQUE CAP 50-70/12	50-70	2-2 3/4	14.6	12.5	36.0	1.0	1.0	0136 7135 060		0136 7181 060	
	TORRO TORQUE CAP 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	36.0	1.0	1.0	0136 7135 070		0136 7181 070	
	TORRO TORQUE CAP 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	42.0	1.0	1.0	0136 7135 080		0136 7181 080	
	TORRO TORQUE CAP 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	42.0	1.0	1.0	0136 7135 090		0136 7181 090	
	TORRO TORQUE CAP 90-110/12	90-110	3 9/16-4 5/16	14.6	12.5	42.0	1.0	1.0	0136 7135 100		0136 7181 100	
	TORRO TORQUE CAP 100-120/12	100-120	3 15/16-4 3/4	14.6	12.5	42.0	1.0	1.0	0136 6135 110		0136 6181 110	
	TORRO TORQUE CAP 110-130/12	110-130	4 5/16-5 1/8	14.6	12.5	42.0	1.0	1.0	0136 6135 120		0136 6181 120	
	TORRO TORQUE CAP 120-140/12	120-140	4 3/4-5 1/2	14.6	12.5	42.0	1.0	1.0	0136 6135 130		0136 6181 130	
	TORRO TORQUE CAP 130-150/12	130-150	5 1/8-5 15/16	14.6	12.5	42.0	1.0	1.0	0136 6135 140		0136 6181 140	
	TORRO TORQUE CAP 140-160/12	140-160	5 1/2-6 5/16	14.6	12.5	42.0	1.0	1.0	0136 6135 150		0136 6181 150	

**Notch**



The notch is a clever means of prepositioning the TORRO® hose clip on the hose. In this case the oval hole in the clamp band finds its exact counterpart on the hose surface. Thus the TORRO® is safely and accurately kept in place prior to the final assembly.

**Advantages at a glance**

- Safe pre-assembly on rubber sleeves and molded pipes

**Materials**

- W3

**NORMACLAMP® TORRO® NOTCH**

Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.
		in mm	in inches					
9	TORRO NOTCH 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.65	0126 6266 021
	TORRO NOTCH 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.65	0126 6266 026
	TORRO NOTCH 23-35/9	23-35	15/16-1 3/8	13.0	11.0	24.0	0.65	0126 6266 029
	TORRO NOTCH 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.65	0126 6266 032
	TORRO NOTCH 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.65	0126 6266 037
	TORRO NOTCH 32-50/9	32-50	1 1/4-2	13.0	11.0	26.0	0.65	0126 6266 041
	TORRO NOTCH 35-55/9	35-55	1 3/8-2 3/16	13.0	11.0	26.0	0.65	0126 6266 045
	TORRO NOTCH 40-60/9	40-60	1 5/8-2 3/8	13.0	11.0	26.0	0.65	0126 6266 050
	TORRO NOTCH 45-65/9	45-65	1 9/16-2 9/16	13.0	11.0	26.0	0.65	0126 6266 055
	TORRO NOTCH 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0126 6266 060
	TORRO NOTCH 55-75/9	55-75	2 3/16-2 15/16	13.0	11.0	26.0	0.65	0126 6266 065
	TORRO NOTCH 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0126 6266 070
	TORRO NOTCH 65-85/9	65-85	2 9/16-3 3/8	13.0	11.0	26.0	0.65	0126 6266 075
	TORRO NOTCH 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0126 6266 080
	TORRO NOTCH 75-95/10	75-95	2 15/16-3 3/4	13.0	11.0	26.0	0.65	0126 6266 085
	TORRO NOTCH 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0126 6266 090
	TORRO NOTCH 85-105/9	85-105	3 3/8-4 1/8	13.0	11.0	26.0	0.65	0126 6266 095
	TORRO NOTCH 90-110/9	90-110	3 1/2-4 3/8	13.0	11.0	26.0	0.65	0126 6266 100
TORRO NOTCH 100-120/9	100-120	3 9/16-4 3/4	13.0	11.0	26.0	0.65	0126 6266 110	
TORRO NOTCH 110-130/9	110-130	4 3/8-5 1/8	13.0	11.0	26.0	0.65	0126 6266 120	
TORRO NOTCH 120-140/9	120-140	4 3/4-5 1/2	13.0	11.0	26.0	0.65	0126 6266 130	
TORRO NOTCH 130-150/9	130-150	5 1/8-5 15/16	13.0	11.0	26.0	0.65	0126 6266 140	
TORRO NOTCH 140-160/9	140-160	5 1/2-6 5/16	13.0	11.0	26.0	0.65	0126 6266 150	
12	TORRO NOTCH 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	1.0	0136 6161 043
	TORRO NOTCH 40-55/12	40-55	1 9/16-2 3/16	14.6	12.5	30.0	1.0	0136 6161 048
	TORRO NOTCH 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	1.0	0136 6161 050
	TORRO NOTCH 45-65/12	45-65	1 3/4-2 9/16	14.6	12.5	30.0	1.0	0136 6161 055
	TORRO NOTCH 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	1.0	0136 6161 060
	TORRO NOTCH 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	1.0	0136 6161 070
	TORRO NOTCH 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	1.0	0136 6161 080
	TORRO NOTCH 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	1.0	0136 6161 090



Refer to page 191.

**Thumb screw**



The NORMACLAMP® TORRO® thumbscrew. You can twist this product to tighten bolts.

**Advantages at a glance**

- The clamp can be tightened or opened manually

**Materials**

- W1, W2, W3, W4, W5

NORMACLAMP® TORRO® THUMB SCREW													
Width	Designation	Clamping ranges		B	h	L	s	S (W1 only)	W1 Product No.	W2 Product No.	W3 Product No.	W4 Product No.	W5 Product No.
		in mm	in inches										
9	TORRO THUMB SCREW 8-12/9	8-12	5/16-1/2	13.0	11.0	21.0	0.65	0.8	0126 7269 010	0126 7270 010	0126 7271 010	0126 7272 010	
	TORRO THUMB SCREW 8-16/9 (10-16)	8-16	5/16-5/8	13.0	11.0	21.0	0.65	0.8	0126 7269 013	0126 7270 013	0126 7271 013	0126 7272 013	
	TORRO THUMB SCREW 12-22/9	12-22	1/2-7/8	13.0	11.0	24.0	0.65	0.8	0126 7269 017	0126 7270 017	0126 7271 017	0126 7272 017	
	TORRO THUMB SCREW 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.65	0.8	0126 7269 021	0126 7270 021	0126 7271 021	0126 7272 021	
	TORRO THUMB SCREW 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.65	0.8	0126 7269 026	0126 7270 026	0126 7271 026	0126 7272 026	
	TORRO THUMB SCREW 23-35/9	23-35	15/16-1 3/8	13.0	11.0	24.0	0.65	0.8	0126 7269 029	0126 7270 029	0126 7271 029	0126 7272 029	
	TORRO THUMB SCREW 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.65	0.8	0126 7269 032	0126 7270 032	0126 7271 032	0126 7272 032	
	TORRO THUMB SCREW 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.65	0.8	0126 7269 037	0126 7270 037	0126 7271 037	0126 7272 037	
	TORRO THUMB SCREW 35-50/9 (32-50)	35-50	1 3/8-2	13.0	11.0	26.0	0.65	0.8	0126 7269 043	0126 7270 041	0126 7271 041	0126 7272 041	
	TORRO THUMB SCREW 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0.8	0126 7269 050	0126 7270 050	0126 7271 050	0126 7272 050	
	TORRO THUMB SCREW 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0.8	0126 7269 060	0126 7270 060	0126 7271 060	0126 7272 060	
	TORRO THUMB SCREW 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0.8	0126 7269 070	0126 7270 070	0126 7271 070	0126 7272 070	
	TORRO THUMB SCREW 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0.8	0126 7269 080	0126 7270 080	0126 7271 080	0126 7272 080	
TORRO THUMB SCREW 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0.8	0126 7269 090	0126 7270 090	0126 7271 090	0126 7272 090		
TORRO THUMB SCREW 90-110/9	90-110	3 9/16-4 5/16	13.0	11.0	26.0	0.65	0.8	0126 7269 100	0126 7270 100	0126 7271 100	0126 7272 100		
12	TORRO THUMB SCREW 16-27/12	16-27	5/8-1 1/16	14.6	12.5	30.0	0.8	0.8	0136 7308 021	0136 7309 021	0136 7310 021	0136 7311 021	0136 7312 021
	TORRO THUMB SCREW 20-32/12	20-32	13/16-1 1/4	14.6	12.5	30.0	0.8	0.8	0136 7308 026	0136 7309 026	0136 7310 026	0136 7311 026	0136 7312 026
	TORRO THUMB SCREW 23-35/12	23-35	15/16-1 3/8	14.6	12.5	30.0	0.8	0.8	0136 7308 029	0136 7309 029	0136 7310 029	0136 7311 029	0136 7312 029
	TORRO THUMB SCREW 25-40/12	25-40	1-1 9/16	14.6	12.5	30.0	0.8	1.0	0136 7308 032	0136 7309 032	0136 7310 032	0136 7311 032	0136 7312 032
	TORRO THUMB SCREW 30-45/12	30-45	1 3/16-1 3/4	14.6	12.5	30.0	0.8	1.0	0136 7308 037	0136 7309 037	0136 7310 037	0136 7311 037	0136 7312 037
	TORRO THUMB SCREW 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	0.8	1.0	0136 7308 043	0136 7309 043	0136 7310 043	0136 7311 043	0136 7312 043
	TORRO THUMB SCREW 45-55/12	45-55	1 3/4-2 3/16	14.6	12.5	30.0	0.8	1.0	0136 7308 048	0136 7309 048	0136 7310 048	0136 7311 048	0136 7312 048
	TORRO THUMB SCREW 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	1.0	0136 7308 050	0136 7309 050	0136 7310 050	0136 7311 050	0136 7312 050
	TORRO THUMB SCREW 45-65/12	45-65	1 3/4-2 9/16	14.6	12.5	30.0	0.8	1.0	0136 7308 055	0136 7309 055	0136 7310 055	0136 7311 055	0136 7312 055
	TORRO THUMB SCREW 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	1.0	0136 7308 060	0136 7309 060	0136 7310 060	0136 7311 060	0136 7312 060
	TORRO THUMB SCREW 55-75/12	55-75	2 3/16-2 15/16	14.6	12.5	30.0	0.8	1.0	0136 7308 065	0136 7309 065	0136 7310 065	0136 7311 065	0136 7312 065
	TORRO THUMB SCREW 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	1.0	0136 7308 070	0136 7309 070	0136 7310 070	0136 7311 070	0136 7312 070
	TORRO THUMB SCREW 65-85/12	65-85	2 9/16-3 3/8	14.6	12.5	30.0	0.8	1.0	0136 7308 075	0136 7309 075	0136 7310 075	0136 7311 075	0136 7312 075
	TORRO THUMB SCREW 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	1.0	0136 7308 080	0136 7309 080	0136 7310 080	0136 7311 080	0136 7312 080
	TORRO THUMB SCREW 75-95/12	75-95	2 15/16-3 3/4	14.6	12.5	36.0	0.8	1.0	0136 7308 085	0136 7309 085	0136 7310 085	0136 7311 085	0136 7312 085
	TORRO THUMB SCREW 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	1.0	0136 7308 090	0136 7309 090	0136 7310 090	0136 7311 090	0136 7312 090
	TORRO THUMB SCREW 90-110/12	90-110	3 9/16-4 5/16	14.6	12.5	36.0	0.8	1.0	0136 7308 100	0136 7309 100	0136 7310 100	0136 7311 100	0136 7312 100
	TORRO THUMB SCREW 100-120/12	100-120	3 15/16-4 3/4	14.6	12.5	36.0	0.8	1.0	0136 7308 110	0136 7309 110	0136 7310 110	0136 7311 110	0136 7312 110
	TORRO THUMB SCREW 110-130/12	110-130	4 5/16-5 1/8	14.6	12.5	36.0	0.8	1.0	0136 7308 120	0136 7309 120	0136 7310 120	0136 7311 120	0136 7312 120
	TORRO THUMB SCREW 120-140/12	120-140	4 3/4-5 1/2	14.6	12.5	36.0	0.8	1.0	0136 7308 130	0136 7309 130	0136 7310 130	0136 7311 130	0136 7312 130
TORRO THUMB SCREW 130-150/12	130-150	5 1/8-5 15/16	14.6	12.5	36.0	0.8	1.0	0136 7308 140	0136 7309 140	0136 7310 140	0136 7311 140	0136 7312 140	
TORRO THUMB SCREW 140-160/12	140-160	5 1/2-6 5/16	14.6	12.5	36.0	0.8	1.0	0136 7308 150	0136 7309 150	0136 7310 150	0136 7311 150	0136 7312 150	
TORRO THUMB SCREW 150-170/12	150-170	5 15/16-6 11/16	14.6	12.5	36.0	0.8	1.0	0136 7308 160	0136 7309 160	0136 7310 160	0136 7311 160	0136 7312 160	
TORRO THUMB SCREW 160-180/12	160-180	6 5/16-7 1/16	14.6	12.5	36.0	0.8	1.0	0136 7308 170	0136 7309 170	0136 7310 170	0136 7311 170	0136 7312 170	



Prefix system



The NORMACLAMP® Prefix system is a concept for integrated clamps and clips on hoses and pipes. The demand for complete systems that include the appropriate sealing function is increasing. This system can only be fixed by using a special tool.

Advantages at a glance

- Safe pre-assembly on hoses and molded pipes
- Two versions, left- and right-handed

Materials

- W3, W4

NORMACLAMP® TORRO® PREFIX SYSTEM

Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.		W4 Product No.	
		in mm	in inches					Right version	Left version	Right version	Left version
9	TORRO PREFIX SYSTEM 32-50/9	32-50	1 1/4-2	13.0	11.0	26.0	0.65	0126 6358 041	0126 6359 041	0126 6360 041	0126 6361 041
	TORRO PREFIX SYSTEM 35-55/9	35-50	1 3/8-2	13.0	11.0	26.0	0.65	0126 6358 045	0126 6359 045	0126 6360 045	0126 6361 045
	TORRO PREFIX SYSTEM 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0126 6358 050	0126 6359 050	0126 6360 050	0126 6361 050
	TORRO PREFIX SYSTEM 45-65/9	45-65	1 3/4-2 9/16	13.0	11.0	26.0	0.65	0126 6358 055	0126 6359 055	0126 6360 055	0126 6361 055
	TORRO PREFIX SYSTEM 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0126 6358 060	0126 6359 060	0126 6360 060	0126 6361 060
	TORRO PREFIX SYSTEM 55-75/9	55-75	2 3/16-2 15/16	13.0	11.0	26.0	0.65	0126 6358 065	0126 6359 065	0126 6360 065	0126 6361 065
	TORRO PREFIX SYSTEM 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0126 6358 070	0126 6359 070	0126 6360 070	0126 6361 070
	TORRO PREFIX SYSTEM 65-85/9	65-85	2 9/16-3 3/8	13.0	11.0	26.0	0.65	0126 6358 075	0126 6359 075	0126 6360 075	0126 6361 075
	TORRO PREFIX SYSTEM 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0126 6358 080	0126 6359 080	0126 6360 080	0126 6361 080
	TORRO PREFIX SYSTEM 75-95/9	75-95	2 15/16-3 3/4	13.0	11.0	26.0	0.65	0126 6358 085	0126 6359 085	0126 6360 085	0126 6361 085
TORRO PREFIX SYSTEM 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0126 6358 090	0126 6359 090	0126 6360 090	0126 6361 090	
12	TORRO PREFIX SYSTEM 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	0.8	0136 6212 043	0136 6213 043	0136 6214 043	0136 6215 043
	TORRO PREFIX SYSTEM 40-55/12	40-55	1 9/16-2 3/16	14.6	12.5	30.0	0.8	0136 6212 048	0136 6213 048	0136 6214 048	0136 6215 048
	TORRO PREFIX SYSTEM 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	0136 6212 050	0136 6213 050	0136 6214 050	0136 6215 050
	TORRO PREFIX SYSTEM 45-65/12	45-65	1 3/4-2 9/16	14.6	12.5	30.0	0.8	0136 6212 055	0136 6213 055	0136 6214 055	0136 6215 055
	TORRO PREFIX SYSTEM 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	0136 6212 060	0136 6213 060	0136 6214 060	0136 6215 060
	TORRO PREFIX SYSTEM 55-75/12	55-75	2 3/16-2 15/16	14.6	12.5	30.0	0.8	0136 6212 065	0136 6213 065	0136 6214 065	0136 6215 065
	TORRO PREFIX SYSTEM 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	0136 6212 070	0136 6213 070	0136 6214 070	0136 6215 070
	TORRO PREFIX SYSTEM 65-85/12	65-85	2 9/16-3 3/8	14.6	12.5	30.0	0.8	0136 6212 075	0136 6213 075	0136 6214 075	0136 6215 075
	TORRO PREFIX SYSTEM 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	0136 6212 080	0136 6213 080	0136 6214 080	0136 6215 080
	TORRO PREFIX SYSTEM 75-95/12	75-95	2 15/16-3 3/4	14.6	12.5	36.0	0.8	0136 6212 085	0136 6213 085	0136 6214 085	0136 6215 085
	TORRO PREFIX SYSTEM 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	0136 6212 090	0136 6213 090	0136 6214 090	0136 6215 090
	TORRO PREFIX SYSTEM 90-110/12	90-110	3 9/16-4 5/16	14.6	12.5	36.0	0.8	0136 6212 100	0136 6213 100	0136 6214 100	0136 6215 100
TORRO PREFIX SYSTEM 100-120/12	100-120	3 15/16-4 3/4	14.6	12.5	36.0	0.8	0136 6212 110	0136 6213 110	0136 6214 110	0136 6215 110	



Refer to page 191.

**WF Prefix system**



The NORMACLAMP TORRO WF Prefix system is the combination of the NORMACLAMP TORRO WF and the NORMACLAMP Prefix system.

**Advantages at a glance**

- Axial adjustment of the clamp
- Radial adjustment of the clamp
- Angle adjustment
- Possible for multilayer hoses and blow molded pipes
- Already available in series for different hose thickness and TORRO 9/12
- Clinch design
- No corrosion issues
- Two versions, left- and right-handed
- No corrosion issues

**Materials**

- W3, W4

NORMACLAMP® TORRO® WF WITH PREFIX SYSTEM											
Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.		W4 Product No.	
		in mm	in inches					Right version	Left version	Right version	Left version
9	TORRO WF PREFIX SYSTEM 32-50/9	32-50	1 1/4-2	13.0	11.0	26.0	0.65	0127 6254 041	0127 6255 041	0127 6256 041	0127 6257 041
	TORRO WF PREFIX SYSTEM 35-55/9	35-50	1 3/8-2	13.0	11.0	26.0	0.65	0127 6254 045	0127 6255 045	0127 6256 045	0127 6257 045
	TORRO WF PREFIX SYSTEM 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0127 6254 050	0127 6255 050	0127 6256 050	0127 6257 050
	TORRO WF PREFIX SYSTEM 45-65/9	45-65	1 3/4-2 9/16	13.0	11.0	26.0	0.65	0127 6254 055	0127 6255 055	0127 6256 055	0127 6257 055
	TORRO WF PREFIX SYSTEM 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0127 6254 060	0127 6255 060	0127 6256 060	0127 6257 060
	TORRO WF PREFIX SYSTEM 55-75/9	55-75	2 3/16-2 15/16	13.0	11.0	26.0	0.65	0127 6254 065	0127 6255 065	0127 6256 065	0127 6257 065
	TORRO WF PREFIX SYSTEM 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0127 6254 070	0127 6255 070	0127 6256 070	0127 6257 070
	TORRO WF PREFIX SYSTEM 65-85/9	65-85	2 9/16-3 3/8	13.0	11.0	26.0	0.65	0127 6254 075	0127 6255 075	0127 6256 075	0127 6257 075
	TORRO WF PREFIX SYSTEM 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0127 6254 080	0127 6255 080	0127 6256 080	0127 6257 080
	TORRO WF PREFIX SYSTEM 75-95/9	75-95	2 15/16-3 3/4	13.0	11.0	26.0	0.65	0127 6254 085	0127 6255 085	0127 6256 085	0127 6257 085
TORRO WF PREFIX SYSTEM 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0127 6254 090	0127 6255 090	0127 6256 090	0127 6257 090	
12	TORRO WF PREFIX SYSTEM 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	0.8	0137 6212 043	0137 6213 043	0137 6214 043	0137 6215 043
	TORRO WF PREFIX SYSTEM 40-55/12	40-55	1 9/16-2 3/16	14.6	12.5	30.0	0.8	0137 6212 048	0137 6213 048	0137 6214 048	0137 6215 048
	TORRO WF PREFIX SYSTEM 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	0137 6212 050	0137 6213 050	0137 6214 050	0137 6215 050
	TORRO WF PREFIX SYSTEM 45-65/12	45-65	1 3/4-2 9/16	14.6	12.5	30.0	0.8	0137 6212 055	0137 6213 055	0137 6214 055	0137 6215 055
	TORRO WF PREFIX SYSTEM 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	0137 6212 060	0137 6213 060	0137 6214 060	0137 6215 060
	TORRO WF PREFIX SYSTEM 55-75/12	55-75	2 3/16-2 15/16	14.6	12.5	30.0	0.8	0137 6212 065	0137 6213 065	0137 6214 065	0137 6215 065
	TORRO WF PREFIX SYSTEM 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	0137 6212 070	0137 6213 070	0137 6214 070	0137 6215 070
	TORRO WF PREFIX SYSTEM 65-85/12	65-85	2 9/16-3 3/8	14.6	12.5	30.0	0.8	0137 6212 075	0137 6213 075	0137 6214 075	0137 6215 075
	TORRO WF PREFIX SYSTEM 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	0137 6212 080	0137 6213 080	0137 6214 080	0137 6215 080
	TORRO WF PREFIX SYSTEM 75-95/12	75-95	2 15/16-3 3/4	14.6	12.5	36.0	0.8	0137 6212 085	0137 6213 085	0137 6214 085	0137 6215 085
	TORRO WF PREFIX SYSTEM 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	0137 6212 090	0137 6213 090	0137 6214 090	0137 6215 090
	TORRO WF PREFIX SYSTEM 90-110/12	90-110	3 9/16-4 3/8	14.6	12.5	36.0	0.8	0137 6212 100	0137 6213 100	0137 6214 100	0137 6215 100
	TORRO WF PREFIX SYSTEM 100-120/12	100-120	3 9/16-4 3/4	14.6	12.5	36.0	0.8	0137 6212 110	0137 6213 110	0137 6214 110	0137 6215 110



Refer to page 191.

Prefix clip



With this accessory the TORRO® can also be prepositioned on the hose. The two ‘teeth’ of this device keep the TORRO® hose clip safely in place if it needs to be stocked or transported prior to its final assembly.

Advantages at a glance

- Safe pre-assembly on the hose
- Two versions, left- and right-handed

Materials

- W3, W4

NORMACLAMP® TORRO® PREFIX CLIP

Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.		W4 Product No.	
		in mm	in inches					Right version	Left version	Right version	Left version
9	TORRO PREFIX CLIP 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.65	0126 6318 021	0126 6319 021		
	TORRO PREFIX CLIP 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.65	0126 6318 026	0126 6319 026		
	TORRO PREFIX CLIP 23-35/9	23-35	15/16-1 3/8	13.0	11.0	24.0	0.65	0126 6318 029	0126 6319 029		
	TORRO PREFIX CLIP 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.65	0126 6318 032	0126 6319 032		
	TORRO PREFIX CLIP 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.65	0126 6318 037	0126 6319 037		
	TORRO PREFIX CLIP 32-50/9	32-50	1 1/4-2	13.0	11.0	26.0	0.65	0126 6318 041	0126 6319 041		
	TORRO PREFIX CLIP 35-55/9	35-50	1 3/8-2	13.0	11.0	26.0	0.65	0126 6318 045	0126 6319 045		
	TORRO PREFIX CLIP 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0126 6318 050	0126 6319 050		
	TORRO PREFIX CLIP 45-65/9	45-65	1 3/4-2 9/16	13.0	11.0	26.0	0.65	0126 6318 055	0126 6319 055		
	TORRO PREFIX CLIP 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0126 6318 060	0126 6319 060		
	TORRO PREFIX CLIP 55-75/9	55-75	2 3/16-2 15/16	13.0	11.0	26.0	0.65	0126 6318 065	0126 6319 065		
	TORRO PREFIX CLIP 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0126 6318 070	0126 6319 070		
	TORRO PREFIX CLIP 65-85/9	65-85	2 9/16-3 3/8	13.0	11.0	26.0	0.65	0126 6318 075	0126 6319 075		
	TORRO PREFIX CLIP 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0126 6318 080	0126 6319 080		
TORRO PREFIX CLIP 75-95/9	75-95	2 15/16-3 3/4	13.0	11.0	26.0	0.65	0126 6318 085	0126 6319 085			
TORRO PREFIX CLIP 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0126 6318 090	0126 6319 090			
12	TORRO PREFIX CLIP 16-27/12	16-27	5/8-1 1/16	14.6	12.5	30.0	0.8	0136 6210 021	0136 6211 021		
	TORRO PREFIX CLIP 20-32/12	20-32	13/16-1 1/4	14.6	12.5	30.0	0.8	0136 6210 026	0136 6211 026		
	TORRO PREFIX CLIP 23-35/12	23-35	15/16-1 3/8	14.6	12.5	30.0	0.8	0136 6210 029	0136 6211 029		
	TORRO PREFIX CLIP 25-40/12	25-40	1-1 9/16	14.6	12.5	30.0	0.8	0136 6210 032	0136 6211 032		
	TORRO PREFIX CLIP 30-45/12	30-45	1 3/16-1 3/4	14.6	12.5	30.0	0.8	0136 6210 037	0136 6211 037		
	TORRO PREFIX CLIP 35-50/12	32-50	1 1/4-2	14.6	12.5	30.0	0.8	0136 6210 043	0136 6211 043	0136 0322 043	0136 0323 043
	TORRO PREFIX CLIP 40-55/12	35-55	1 3/8-2 3/16	14.6	12.5	30.0	0.8	0136 6210 048	0136 6211 048	0136 0322 048	0136 0323 048
	TORRO PREFIX CLIP 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	0136 6210 050	0136 6211 050	0136 0322 050	0136 0323 050
	TORRO PREFIX CLIP 45-65/12	45-65	1 3/4-2 9/16	14.6	12.5	30.0	0.8	0136 6210 055	0136 6211 055	0136 0322 055	0136 0323 055
	TORRO PREFIX CLIP 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	0136 6210 060	0136 6211 060	0136 0322 060	0136 0323 060
	TORRO PREFIX CLIP 55-75/12	55-75	2 3/16-2 15/16	14.6	12.5	30.0	0.8	0136 6210 065	0136 6211 065	0136 0322 065	0136 0323 065
	TORRO PREFIX CLIP 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	0136 6210 070	0136 6211 070	0136 0322 070	0136 0323 070
	TORRO PREFIX CLIP 65-85/12	65-85	2 9/16-3 3/8	14.6	12.5	30.0	0.8	0136 6210 075	0136 6211 075	0136 0322 075	0136 0323 075
	TORRO PREFIX CLIP 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	0136 6210 080	0136 6211 080	0136 0322 080	0136 0323 080
TORRO PREFIX CLIP 75-95/12	75-95	2 15/16-3 3/4	14.6	12.5	36.0	0.8	0136 6210 085	0136 6211 085	0136 0322 085	0136 0323 085	
TORRO PREFIX CLIP 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	0136 6210 090	0136 6211 090	0136 0322 090	0136 0323 090	



Refer to page 191.

**Tamperproof**



The NORMACLAMP® TORRO® Tamperproof can only be mounted and dismantled by using a special tool. The specially designed screw head has three radial grooves, which means it cannot be adjusted with any commercially available tools. Automated assembly using a torque gun is particularly effective, as the special shape of the screw head allows for minimal misalignment or offset.

**Advantages at a glance**

- Non-dismountable clamps protects against manipulation

**Materials**

- W3, W4

NORMACLAMP® TORRO® TAMPERPROOF									
Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.	W4 Product No.
		mm	inches						
9	TORRO TAMPERPROOF 8-12/9	8-12	5/16-1/2	13.0	11.0	21.0	0.65	0126 6468 010	0126 6469 010
	TORRO TAMPERPROOF 8-16/9	8-16	5/16-5/8	13.0	11.0	21.0	0.65	0126 6468 013	0126 6469 013
	TORRO TAMPERPROOF 12-20/9	12-20	1/2-13/16	13.0	11.0	24.0	0.65	0126 6468 016	0126 6469 016
	TORRO TAMPERPROOF 12-22/9	12-22	1/2-7/8	13.0	11.0	24.0	0.65	0126 6468 017	0126 6469 017
	TORRO TAMPERPROOF 16-25/9	16-25	5/8-1	13.0	11.0	24.0	0.65	0126 6468 020	0126 6469 020
	TORRO TAMPERPROOF 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.65	0126 6468 021	0126 6469 021
	TORRO TAMPERPROOF 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.65	0126 6468 026	0126 6469 026
	TORRO TAMPERPROOF 23-35/9	23-35	15/16-1 3/8	13.0	11.0	24.0	0.65	0126 6468 029	0126 6469 029
	TORRO TAMPERPROOF 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.65	0126 6468 032	0126 6469 032
	TORRO TAMPERPROOF 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.65	0126 6468 037	0126 6469 037
	TORRO TAMPERPROOF 32-50/9	32-50	1 1/4-2	13.0	11.0	26.0	0.65	0126 6468 041	0126 6469 041
	TORRO TAMPERPROOF 35-55/9	35-55	1 3/8-2 3/16	13.0	11.0	26.0	0.65	0126 6468 045	0126 6469 045
	TORRO TAMPERPROOF 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.65	0126 6468 050	0126 6469 050
	TORRO TAMPERPROOF 45-65/9	45-65	1 3/4-2 9/16	13.0	11.0	26.0	0.65	0126 6468 055	0126 6469 055
	TORRO TAMPERPROOF 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.65	0126 6468 060	0126 6469 060
	TORRO TAMPERPROOF 55-75/9	55-75	2 3/16-2 15/16	13.0	11.0	26.0	0.65	0126 6468 065	0126 6469 065
	TORRO TAMPERPROOF 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.65	0126 6468 070	0126 6469 070
	TORRO TAMPERPROOF 65-85/9	65-85	2 9/16-3 3/8	13.0	11.0	26.0	0.65	0126 6468 075	0126 6469 075
	TORRO TAMPER PROOF 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.65	0126 6468 080	0126 6469 080
	TORRO TAMPERPROOF 75-95/9	75-95	2 15/16-3 3/4	13.0	11.0	26.0	0.65	0126 6468 085	0126 6469 085
TORRO TAMPERPROOF 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.65	0126 6468 090	0126 6469 090	
TORRO TAMPERPROOF 90-110/9	90-110	3 9/16-4 5/16	13.0	11.0	26.0	0.65	0126 6468 100	0126 6469 100	
TORRO TAMPERPROOF 100-120/9	100-120	3 15/16-4 3/4	13.0	11.0	26.0	0.65	0126 6468 110	0126 6469 110	
TORRO TAMPERPROOF 110-130/9	110-130	4 5/16-5 1/8	13.0	11.0	26.0	0.65	0126 6468 120	0126 6469 120	
TORRO TAMPERPROOF 120-140/9	120-140	4 3/4-5 1/2	13.0	11.0	26.0	0.65	0126 6468 130	0126 6469 130	
TORRO TAMPERPROOF 130-150/9	130-150	5 1/8-5 15/16	13.0	11.0	26.0	0.65	0126 6468 140	0126 6469 140	
TORRO TAMPERPROOF 140-160/9	140-160	5 1/2-6 5/16	13.0	11.0	26.0	0.65	0126 6468 150	0126 6469 150	
12	TORRO TAMPERPROOF 16-27/12	16-27	5/8-1 1/16	14.6	12.5	30.0	0.8	0136 6358 021	0136 6359 021
	TORRO TAMPERPROOF 20-32/12	20-32	13/16-1 1/4	14.6	12.5	30.0	0.8	0136 6358 026	0136 6359 026
	TORRO TAMPERPROOF 23-35/12	23-35	15/16-1 3/8	14.6	12.5	30.0	0.8	0136 6358 029	0136 6359 029
	TORRO TAMPERPROOF 25-40/12	25-40	1-1 9/16	14.6	12.5	30.0	0.8	0136 6358 032	0136 6359 032
	TORRO TAMPERPROOF 30-45/12	30-45	1 3/16-1 3/4	14.6	12.5	30.0	0.8	0136 6358 037	0136 6359 037
	TORRO TAMPERPROOF 35-50/12	35-50	1 3/8-2	14.6	12.5	30.0	0.8	0136 6358 043	0136 6359 043
	TORRO TAMPERPROOF 40-55/12	40-55	1 9/16-2 3/16	14.6	12.5	30.0	0.8	0136 6358 048	0136 6359 048
	TORRO TAMPERPROOF 40-60/12	40-60	1 9/16-2 3/8	14.6	12.5	30.0	0.8	0136 6358 050	0136 6359 050
	TORRO TAMPERPROOF 45-65/12	45-65	1 3/4-2 9/16	14.6	12.5	30.0	0.8	0136 6358 055	0136 6359 055
	TORRO TAMPERPROOF 50-70/12	50-70	2-2 3/4	14.6	12.5	30.0	0.8	0136 6358 060	0136 6359 060
	TORRO TAMPERPROOF 55-75/12	55-75	2 3/16-2 15/16	14.6	12.5	30.0	0.8	0136 6358 065	0136 6359 065
	TORRO TAMPERPROOF 60-80/12	60-80	2 3/8-3 1/8	14.6	12.5	30.0	0.8	0136 6358 070	0136 6359 070
	TORRO TAMPERPROOF 65-85/12	65-85	2 9/16-3 3/8	14.6	12.5	30.0	0.8	0136 6358 075	0136 6359 075
	TORRO TAMPERPROOF 70-90/12	70-90	2 3/4-3 9/16	14.6	12.5	36.0	0.8	0136 6358 080	0136 6359 080
	TORRO TAMPERPROOF 75-95/12	75-95	2 15/16-3 3/4	14.6	12.5	36.0	0.8	0136 6358 085	0136 6359 085
	TORRO TAMPERPROOF 80-100/12	80-100	3 1/8-3 15/16	14.6	12.5	36.0	0.8	0136 6358 090	0136 6359 090
	TORRO TAMPERPROOF 90-110/12	90-110	3 9/16-4 5/16	14.6	12.5	36.0	0.8	0136 6358 100	0136 6359 100
	TORRO TAMPERPROOF 100-120/12	100-120	3 15/16-4 3/4	14.6	12.5	36.0	0.8	0136 6358 110	0136 6359 110
	TORRO TAMPERPROOF 110-130/12	110-130	4 5/16-5 1/8	14.6	12.5	36.0	0.8	0136 6358 120	0136 6359 120
	TORRO TAMPERPROOF 120-140/12	120-140	4 3/4-5 1/2	14.6	12.5	36.0	0.8	0136 6358 130	0136 6359 130
TORRO TAMPERPROOF 130-150/12	130-150	5 1/8-5 15/16	14.6	12.5	36.0	0.8	0136 6358 140	0136 6359 140	
TORRO TAMPERPROOF 140-160/12	140-160	5 1/2-6 5/16	14.6	12.5	36.0	0.8	0136 6358 150	0136 6359 150	

**Safety cap**



The NORMACLAMP® TORRO® safety cap is a small plastic cap which covers the end of the clamp band, thus stopping injuries from occurring and making a significant contribution to accident prevention measures.

**Advantages at a glance**

- Available for band widths 7.5 mm, 9 mm and 12 mm

**Materials**

- Plastic

**NORMACLAMP® TORRO® SAFETY CAP**

Width	Designation	For all Materials Product No.
7.5	THE SAFETY CAP 7.5	0045 8000 021
9	THE SAFETY CAP 9	0045 8000 022
12	THE SAFETY CAP 12	0045 8000 023

**Radial insert**



The Radial® Spring Clamp consists of a Standard riveted clamp with a stainless steel liner. This insert in the Radial acts as a spring. Inward radial pressure on the hose is made possible as the material between the cut-outs and the longitudinal beads acts as leaf springs.

**Advantages at a glance**

- Radial integrated element located on the inside of the clamp band
- High contact pressure due to the radially corrugated design
- There are also dynamic properties

**Materials**

- W1

**NORMACLAMP® TORRO® RADIAL INSERT**

Width	Designation	Clamping ranges		B	h	L	s	W1 Product No.
		in mm	in inches					
9	TORRO RADIAL INSERT 16-25/9	16-25	5/8-1	13.0	11.0	24.0	0.8	0127 6262 020
	TORRO RADIAL INSERT 16-27/9	16-27	5/8-1 1/16	13.0	11.0	24.0	0.8	0127 6262 021
	TORRO RADIAL INSERT 20-32/9	20-32	13/16-1 1/4	13.0	11.0	24.0	0.8	0127 6262 026
	TORRO RADIAL INSERT 23-35/9	23-35	1-1 3/8	13.0	11.0	24.0	0.8	0127 6262 029
	TORRO RADIAL INSERT 25-40/9	25-40	1-1 9/16	13.0	11.0	26.0	0.8	0127 6262 032
	TORRO RADIAL INSERT 30-45/9	30-45	1 3/16-1 3/4	13.0	11.0	26.0	0.8	0127 6262 037
	TORRO RADIAL INSERT 35-50/9	32-50	1 1/4-2	13.0	11.0	26.0	0.8	0127 6262 043
	TORRO RADIAL INSERT 35-55/9	35-50	1 3/8-2	13.0	11.0	26.0	0.8	0127 6262 045
	TORRO RADIAL INSERT 40-60/9	40-60	1 9/16-2 3/8	13.0	11.0	26.0	0.8	0127 6262 050
	TORRO RADIAL INSERT 45-65/9	45-65	1 3/4-2 9/16	13.0	11.0	26.0	0.8	0127 6262 055
	TORRO RADIAL INSERT 50-70/9	50-70	2-2 3/4	13.0	11.0	26.0	0.8	0127 6262 060
	TORRO RADIAL INSERT 55-75/9	55-75	2 3/16-2 15/16	13.0	11.0	26.0	0.8	0127 6262 065
	TORRO RADIAL INSERT 60-80/9	60-80	2 3/8-3 1/8	13.0	11.0	26.0	0.8	0127 6262 070
	TORRO RADIAL INSERT 65-85/9	65-85	2 9/16-3 3/8	13.0	11.0	26.0	0.8	0127 6262 075
	TORRO RADIAL INSERT 70-90/9	70-90	2 3/4-3 9/16	13.0	11.0	26.0	0.8	0127 6262 080
	TORRO RADIAL INSERT 75-95/9	75-95	2 15/16-3 3/4	13.0	11.0	26.0	0.8	0127 6262 085
TORRO RADIAL INSERT 80-100/9	80-100	3 1/8-3 15/16	13.0	11.0	26.0	0.8	0127 6262 090	
TORRO RADIAL INSERT 90-110/9	90-110	3 9/16-4 5/16	13.0	11.0	26.0	0.8	0127 6262 100	



Refer to page 191.

**Spiro**



The NORMACLAMP® TORRO® Spiro is the ideal clamp for industrial spiral hoses made of plastic material.

**Advantages at a glance**

- Band divided in two parts linked with a bridge for asymmetrical connection
- Two versions, left- and right-handed

**Materials**

- W1, W2 , W4



NORMACLAMP® TORRO® SPIRO									
Width	Designation	Clamping ranges		W1 Product No.		W2 Product No.		W4 Product No.	
		in mm	in inches	Right version	Left version	Right version	Left version	Right version	Left version
9	TORRO SPIRO 40-60/9	40-60	1 9/16-2 3/8	0126 7644 050	0126 7645 050	0126 7646 050	0126 7647 050	0126 7648 050	0126 7649 050
	TORRO SPIRO 50-70/9	50-70	2-2 3/4	0126 7644 060	0126 7645 060	0126 7646 060	0126 7647 060	0126 7648 060	0126 7649 060
	TORRO SPIRO 60-80/9	60-80	2 3/8-3 1/8	0126 7644 070	0126 7645 070	0126 7646 070	0126 7647 070	0126 7648 070	0126 7649 070
	TORRO SPIRO 70-90/9	70-90	2 3/4-3 9/16	0126 7644 080	0126 7645 080	0126 7646 080	0126 7647 080	0126 7648 080	0126 7649 080
	TORRO SPIRO 80-100/9	80-100	3 1/8-3 15/16	0126 7644 090	0126 7645 090	0126 7646 090	0126 7647 090	0126 7648 090	0126 7649 090
	TORRO SPIRO 90-110/9	90-110	3 9/16-4 5/16	0126 7644 100	0126 7645 100	0126 7646 100	0126 7647 100	0126 7648 100	0126 7649 100
	TORRO SPIRO 100-120/9	100-120	3 15/16-4 3/4	0126 7644 110	0126 7645 110				
	TORRO SPIRO 110-130/9	110-130	4 5/16-5 1/8	0126 7644 120	0126 7645 120				
	TORRO SPIRO 120-140/9	120-140	4 3/4-5 1/2	0126 7644 130	0126 7645 130				
	TORRO SPIRO 130-150/9	130-150	5 1/8-5 15/16	0126 7644 140	0126 7645 140				
TORRO SPIRO 140-160/9	140-160	5 1/2-6 5/16	0126 7644 150	0126 7645 150					
12	TORRO SPIRO 40-60/12	40-60	1 9/16-2 3/8	0136 7662 050	0136 7663 050	0136 7664 050	0136 7665 050	0136 7666 050	0136 7667 050
	TORRO SPIRO 50-70/12	50-70	2-2 3/4	0136 7662 060	0136 7663 060	0136 7664 060	0136 7665 060	0136 7666 060	0136 7667 060
	TORRO SPIRO 60-80/12	60-80	2 3/8-3 1/8	0136 7662 070	0136 7663 070	0136 7664 070	0136 7665 070	0136 7666 070	0136 7667 070
	TORRO SPIRO 70-90/12	70-90	2 3/4-3 9/16	0136 7662 080	0136 7663 080	0136 7664 080	0136 7665 080	0136 7666 080	0136 7667 080
	TORRO SPIRO 80-100/12	80-100	3 1/8-3 15/16	0136 7662 090	0136 7663 090	0136 7664 090	0136 7665 090	0136 7666 090	0136 7667 090
	TORRO SPIRO 90-110/12	90-110	3 9/16-4 5/16	0136 7662 100	0136 7663 100	0136 7664 100	0136 7665 100	0136 7666 100	0136 7667 100
	TORRO SPIRO 100-120/12	100-120	3 15/16-4 3/4	0136 7662 110	0136 7663 110	0136 7664 110	0136 7665 110	0136 7666 110	0136 7667 110
	TORRO SPIRO 110-130/12	110-130	4 5/16-5 1/8	0136 7662 120	0136 7663 120	0136 7664 120	0136 7665 120	0136 7666 120	0136 7667 120
	TORRO SPIRO 120-140/12	120-140	4 3/4-5 1/2	0136 7662 130	0136 7663 130	0136 7664 130	0136 7665 130	0136 7666 130	0136 7667 130
	TORRO SPIRO 130-150/12	130-150	5 1/8-5 15/16	0136 7662 140	0136 7663 140	0136 7664 140	0136 7665 140	0136 7666 140	0136 7667 140
TORRO SPIRO 140-160/12	140-160	5 1/2-6 5/16	0136 7662 150	0136 7663 150	0136 7664 150	0136 7665 150	0136 7666 150	0136 7667 150	



Refer to page 191.

**Safety collar**



The NORMACLAMP® TORRO® safety collar is a plastic ring that can be attached easily to the bolt head of the clamp. By preventing the screwdriver from slipping off the head, it makes the installation process considerably easier. The safety collar is available for bolts that correspond to wrench opening 7.

**Advantages at a glance**

- Screwdriver prevented from slipping during installation

**Materials**

- For all materials

NORMACLAMP® TORRO® SAFETY COLLAR		
Width	Designation	For all Materials Product No.
9/12	THE SAFETY COLLAR 9/12	0043 0000 364

**Gas clamp**



The NORMACLAMP® TORRO® Gas clamp has been designed for securing domestic gas and propane hoses. The screw of this clamp cuts itself at a predetermined torque level in order to comply exactly with the values of the standard. The break occurs at a torque of 1.2 Nm.

**Advantages at a glance**

- Designed in accordance with the standard NF XP D 36-110
- The screw cuts itself when the clamp is fixed on the tube so the tube is secured

**Materials**

- W3

NORMACLAMP® TORRO® GAS CLAMP				
Width	Designation	Clamping ranges		W3 Product No.
		in mm	in inches	
9	TORRO GAS CLAMP 8-16/9	8-16	5/16-5/8	0126 6221 013
	TORRO GAS CLAMP 16-27/9	16-27	5/8-1 1/16	0126 6221 021



Refer to page 191.