



The TORRO® WF clamp is fitted with a wave spring which automatically re-tensions to ensure optimal radial clamping force. The TORRO® WF is the ideal choice for applications under extreme temperature changes (e.g. charged air), under extremely low temperatures 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® TORRO® WF

Width	Designation	Clamping ranges		B	h	L	s	W3 Product No.	W4 Product No.
		in mm	in inches						
9	TORRO WF 10-16/9	10-16	3/8 - 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	

Available in W2 on request



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Table of torques

TORRO 7.5 W2-W3

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
TT	max 1.5	max 1.5	max 1.5	max 1.5	max 1.5					
FRT max										

TORRO 9 W1

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
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

Diameter	50-70	60-80	70-90	80-100	90-110	100-120	110-130	120-140	130-150	140-160
TT	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	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

TORRO 9 W2

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
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

Diameter	50-70	60-80	70-90	80-100	90-110	100-120	110-130	120-140	130-150	140-160
TT	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	3 +0.5
FRT max	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

TORRO 9 W3-W5

Diameter	8-12	10-16	12-18	12-22	16-27	20-32	25-40	30-45	35-50	40-60
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

Diameter	50-70	60-80	70-90	80-100	90-110	100-120	110-130	120-140	130-150	140-160
TT	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	3 +0.5
FRT max	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

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

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

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

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

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

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 = Tightening Torque

FRT = Free Running Torque