



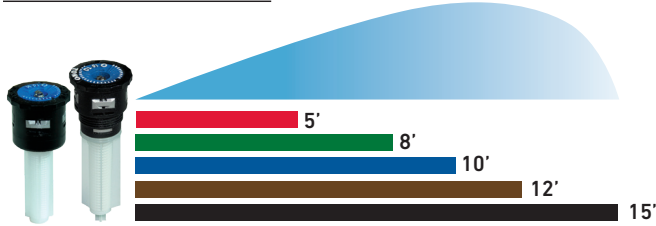
# PRECISION™ SERIES SPRAY NOZZLES



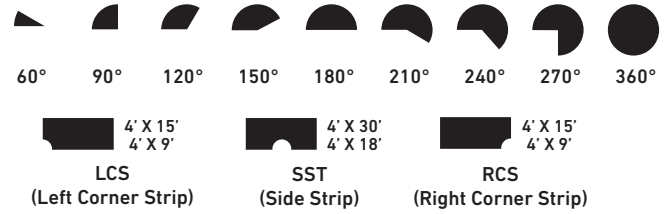
## PERFORMANCE DATA PRESSURE COMPENSATING – PRECISION™ SERIES SPRAY NOZZLES

Arc	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
60°	5-60P	40	0.07	6.0	1.2	1.4	8-60P	40	0.11	7.5	1.1	1.3	10-60P	40	0.16	9.5	1.0	1.2
		50	0.07	5.5	1.3	1.5		50	0.11	7.5	1.2	1.3		50	0.18	10.5	1.0	1.1
		60	0.07	6.0	1.0	1.2		60	0.12	7.5	1.3	1.4		60	0.20	11.0	1.0	1.1
		70	0.08	6.5	1.0	1.2		70	0.14	8.0	1.2	1.4		70	0.22	11.0	1.1	1.2
90°	5-QP	40	0.06	4.6	1.0	1.2	8-QP	40	0.14	7.0	1.1	1.3	10-QP	40	0.26	9.5	1.0	1.1
		50	0.08	5.1	1.2	1.4		50	0.17	7.7	1.2	1.3		50	0.28	10.0	1.1	1.2
		60	0.09	5.6	1.3	1.5		60	0.20	8.4	1.2	1.4		60	0.29	10.5	1.1	1.3
		70	0.11	6.2	1.5	1.7		70	0.23	9.1	1.3	1.4		70	0.31	11.1	1.2	1.4
120°	5-TP	40	0.07	4.4	1.0	1.1	8-TP	40	0.20	7.6	1.0	1.2	10-TP	40	0.31	9.5	1.0	1.1
		50	0.11	4.9	1.3	1.5		50	0.24	8.0	1.1	1.3		50	0.36	10.0	1.1	1.2
		60	0.15	5.5	1.7	2.0		60	0.27	8.5	1.2	1.4		60	0.41	10.5	1.2	1.4
		70	0.19	6.0	2.0	2.4		70	0.31	8.9	1.3	1.5		70	0.46	11.0	1.3	1.5
150°	5-150P	40	0.10	4.9	0.96	1.11	8-150P	40	0.32	8.0	1.1	1.3	10-150P	40	0.47	9.5	1.2	1.4
		50	0.12	5.2	1.03	1.18		50	0.32	8.5	1.0	1.2		50	0.49	10.0	1.1	1.3
		60	0.13	5.4	1.03	1.19		60	0.32	8.0	1.1	1.3		60	0.51	10.0	1.2	1.4
		70	0.14	5.8	0.96	1.11		70	0.32	8.0	1.1	1.3		70	0.53	10.5	1.1	1.3
180°	5-HP	40	0.10	4.4	1.0	1.2	8-HP	40	0.26	7.0	1.0	1.2	10-HP	40	0.48	9.7	1.0	1.1
		50	0.13	4.9	1.1	1.3		50	0.33	7.6	1.1	1.3		50	0.53	10.1	1.1	1.2
		60	0.16	5.4	1.3	1.5		60	0.39	8.1	1.2	1.4		60	0.57	10.4	1.1	1.3
		70	0.19	6.0	1.4	1.6		70	0.46	8.7	1.3	1.5		70	0.62	10.8	1.2	1.4
210°	5-210P	40	0.16	5.0	1.1	1.2	8-210P	40	0.34	8.0	0.9	1.0	10-210P	40	0.57	9.5	1.1	1.2
		50	0.18	5.5	1.0	1.1		50	0.38	8.0	1.0	1.1		50	0.64	10.0	1.1	1.2
		60	0.20	6.0	0.9	1.1		60	0.42	8.0	1.1	1.3		60	0.70	10.0	1.2	1.3
		70	0.21	6.0	1.0	1.1		70	0.45	8.0	1.2	1.3		70	0.75	10.0	1.2	1.4
240°	5-TTP	40	0.14	4.3	1.1	1.3	8-TTP	40	0.34	7.0	1.0	1.1	10-TTP	40	0.63	9.6	1.0	1.1
		50	0.20	4.9	1.3	1.5		50	0.43	7.8	1.1	1.2		50	0.70	9.9	1.1	1.2
		60	0.25	5.4	1.4	1.7		60	0.52	8.5	1.2	1.4		60	0.77	10.3	1.1	1.3
		70	0.31	6.0	1.6	1.8		70	0.61	9.3	1.3	1.5		70	0.84	10.6	1.2	1.4
270°	5-TQP	40	0.15	4.3	1.0	1.2	8-TQP	40	0.41	7.2	1.0	1.1	10-TQP	40	0.71	9.5	1.0	1.1
		50	0.21	4.9	1.2	1.4		50	0.48	7.9	1.1	1.2		50	0.77	9.9	1.0	1.2
		60	0.26	5.6	1.4	1.6		60	0.55	8.6	1.2	1.4		60	0.82	10.3	1.1	1.2
		70	0.32	6.2	1.5	1.7		70	0.62	9.3	1.3	1.5		70	0.88	10.7	1.1	1.3
360°	5-FP	40	0.17	4.0	1.0	1.2	8-FP	40	0.55	7.0	1.1	1.2	10-FP	40	0.95	9.6	1.0	1.1
		50	0.24	4.8	1.1	1.3		50	0.65	7.5	1.1	1.2		50	1.06	10.0	1.1	1.2
		60	0.31	5.5	1.2	1.4		60	0.74	8.0	1.1	1.3		60	1.16	10.5	1.1	1.3
		70	0.38	6.3	1.3	1.5		70	0.84	8.5	1.1	1.3		70	1.27	10.9	1.2	1.4

**Five Radii Available in Toro  
(Male) & Female Threads**



**Nine Arcs, Plus Side and Center Strips Available**



**PERFORMANCE DATA PRESSURE COMPENSATING – PRECISION™ SERIES SPRAY NOZZLES**

Arc	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	Arc	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
60°	12-60P	40	0.30	13.0	1.0	1.2	15-60P	40	0.36	14.0	1.1	1.2	4X30 SSTP	40	0.62	4x30	1.0	1.1
		50	0.30	13.0	1.0	1.2		50	0.41	15.0	1.0	1.2		50	0.65	4x30	1.0	1.2
		60	0.30	13.0	1.0	1.2		60	0.45	15.0	1.1	1.3		60	0.67	4x30	1.1	1.3
		70	0.30	13.0	1.0	1.2		70	0.48	15.0	1.2	1.4		70	0.70	4x30	1.1	1.3
90°	12-QP	40	0.34	12.0	1.0	1.2	15-QP	40	0.53	14.2	1.0	1.2	4X15 LCSP	40	0.32	4x15	1.0	1.2
		50	0.39	12.2	1.1	1.3		50	0.59	14.5	1.1	1.2		50	0.33	4x15	1.1	1.2
		60	0.43	12.5	1.2	1.3		60	0.64	14.8	1.1	1.3		60	0.34	4x15	1.1	1.3
		70	0.48	12.7	1.2	1.4		70	0.70	15.1	1.2	1.3		70	0.35	4x15	1.2	1.3
120°	12-TP	40	0.46	11.5	1.0	1.2	15-TP	40	0.72	14.3	1.0	1.2	4X15 RCSP	40	0.32	4x15	1.0	1.2
		50	0.50	11.8	1.0	1.2		50	0.77	14.8	1.0	1.2		50	0.33	4x15	1.1	1.2
		60	0.54	12.0	1.1	1.3		60	0.82	15.2	1.1	1.2		60	0.34	4x15	1.1	1.3
		70	0.58	12.3	1.1	1.3		70	0.87	15.7	1.1	1.2		70	0.35	4x15	1.2	1.3
150°	12-150P	40	0.59	12.0	1.0	1.1	15-150P	40	0.93	14.0	1.1	1.3	4X18 SSTP	40	0.36	4x18	1.0	1.1
		50	0.66	11.5	1.2	1.3		50	1.04	14.5	1.2	1.3		50	0.37	4x18	1.0	1.2
		60	0.72	12.0	1.2	1.3		60	1.14	14.5	1.3	1.5		60	0.38	4x18	1.0	1.2
		70	0.78	12.0	1.3	1.5		70	1.23	14.5	1.4	1.6		70	0.39	4x18	1.0	1.2
180°	12-HP	40	0.70	11.5	1.0	1.2	15-HP	40	1.10	14.5	1.0	1.2	4X9 LCSP	40	0.18	4x9	1.0	1.1
		50	0.75	11.8	1.0	1.2		50	1.20	14.3	1.1	1.2		50	0.19	4x9	1.1	1.2
		60	0.80	12.2	1.1	1.2		60	1.29	14.0	1.1	1.3		60	0.20	4x9	1.1	1.2
		70	0.85	12.5	1.1	1.2		70	1.39	13.8	1.2	1.3		70	0.21	4x9	1.2	1.3
210°	12-210P	40	0.86	11.0	1.2	1.4	15-210P	40	1.23	14.0	1.0	1.2	4X9 RCSP	40	0.18	4x9	1.0	1.2
		50	0.96	11.5	1.2	1.4		50	1.44	14.0	1.2	1.4		50	0.19	4x9	1.1	1.2
		60	1.05	12.0	1.2	1.4		60	1.56	14.0	1.3	1.5		60	0.20	4x9	1.1	1.2
		70	1.13	12.0	1.3	1.5		70	1.70	15.0	1.2	1.4		70	0.20	4x9	1.1	1.2
240°	12-TTP	40	0.90	11.4	1.0	1.2	15-TTP	40	1.45	14.5	1.0	1.2	4X9 RCSP	40	0.18	4x9	1.0	1.2
		50	1.03	11.5	1.1	1.3		50	1.57	14.8	1.0	1.2		50	0.19	4x9	1.1	1.2
		60	1.16	11.5	1.2	1.3		60	1.68	15.0	1.1	1.2		60	0.20	4x9	1.1	1.2
		70	1.29	11.6	1.2	1.4		70	1.80	15.3	1.1	1.3		70	0.21	4x9	1.2	1.3
270°	12-TQP	40	1.05	11.4	1.0	1.2	15-TQP	40	1.60	14.0	0.9	1.0	4X9 RCSP	40	0.18	4x9	1.0	1.2
		50	1.14	11.7	1.0	1.2		50	1.70	14.4	1.0	1.1		50	0.19	4x9	1.1	1.2
		60	1.23	12.0	1.1	1.3		60	1.80	14.8	1.0	1.2		60	0.20	4x9	1.1	1.2
		70	1.32	12.3	1.1	1.3		70	1.90	15.1	1.1	1.2		70	0.20	4x9	1.1	1.2
360°	12-FP	40	1.35	11.5	1.0	1.1	15-FP	40	2.20	14.5	1.0	1.2	4X9 RCSP	40	0.18	4x9	1.0	1.2
		50	1.49	11.8	1.0	1.2		50	2.36	14.8	1.0	1.2		50	0.19	4x9	1.1	1.2
		60	1.63	12.2	1.1	1.3		60	2.52	15.1	1.1	1.2		60	0.20	4x9	1.1	1.2
		70	1.77	12.5	1.1	1.3		70	2.68	15.4	1.1	1.3		70	0.21	4x9	1.2	1.3



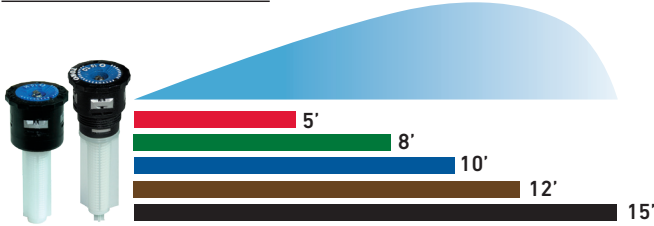
# PRECISION™ SERIES SPRAY NOZZLES



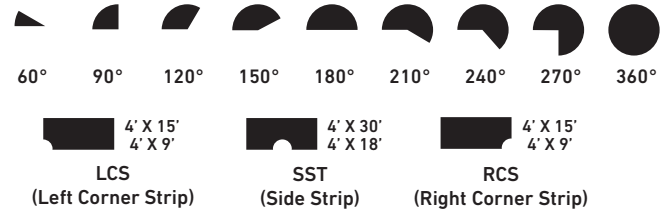
## PERFORMANCE DATA – PRECISION™ SERIES SPRAY NOZZLES

Arc	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
60°	5-60	20	0.04	4.7	1.0	1.2	8-60	20	0.10	7.6	1.0	1.2	10-60	20	0.16	9.5	1.0	1.2
		30	0.04	5.0	1.0	1.2		30	0.11	8.0	1.0	1.1		30	0.17	10.0	1.0	1.1
		40	0.04	5.0	1.0	1.2		40	0.12	8.1	1.1	1.2		40	0.18	10.0	1.0	1.2
		50	0.05	5.3	1.0	1.1		50	0.13	8.3	1.1	1.3		50	0.19	10.0	1.1	1.3
90°	5-Q	20	0.06	4.6	1.0	1.2	8-Q	20	0.14	7.0	1.1	1.3	10-Q	20	0.26	9.5	1.0	1.1
		30	0.06	5.0	1.0	1.1		30	0.17	8.0	1.0	1.1		30	0.23	10.0	1.0	1.2
		40	0.07	5.0	1.0	1.2		40	0.18	8.2	1.0	1.2		40	0.28	10.2	1.0	1.2
120°	5-T	50	0.07	5.0	1.0	1.2	8-T	50	0.18	8.4	1.0	1.1	10-T	50	0.28	10.3	1.0	1.2
		20	0.07	4.4	1.0	1.2		20	0.20	7.6	1.0	1.2		20	0.31	9.5	1.0	1.1
		30	0.09	5.0	1.0	1.2			30	0.22	8.0	1.0			1.1	30	0.34	10.0
150°	5-150	40	0.09	5.2	1.0	1.2	8-150	40	0.23	8.2	1.0	1.1	10-150	40	0.36	10.0	1.0	1.2
		50	0.10	5.4	1.0	1.1		50	0.24	8.3	1.0	1.1		50	0.37	10.0	1.1	1.2
		20	0.07	4.0	1.0	1.2			20	0.25	7.5	1.0			1.2	20	0.41	9.8
180°	5-H	30	0.11	5.0	1.0	1.2	8-H	30	0.27	8.0	1.0	1.1	10-H	30	0.43	10.0	1.0	1.1
		40	0.12	5.2	1.0	1.2		40	0.28	8.1	1.0	1.1		40	0.44	10.2	1.0	1.1
		50	0.13	5.4	1.0	1.2			50	0.29	8.2	1.0			1.2	50	0.46	10.4
210°	5-210	20	0.10	4.4	1.0	1.2	8-210	20	0.26	7.0	1.0	1.2	10-210	20	0.48	9.7	1.0	1.1
		30	0.13	5.0	1.0	1.2		30	0.33	8.0	1.0	1.1		30	0.51	10.0	1.0	1.1
		40	0.14	5.1	1.0	1.2			40	0.34	8.0	1.0			1.2	40	0.55	10.3
240°	5-TT	50	0.14	5.2	1.0	1.1	8-TT	50	0.34	8.0	1.0	1.2	10-TT	50	0.56	10.4	1.0	1.2
		20	0.10	4.4	1.0	1.2		20	0.33	7.6	1.1	1.3		20	0.56	9.8	1.1	1.3
		30	0.15	5.2	1.1	1.2			30	0.36	8.0	1.1			1.3	30	0.58	10.0
270°	5-TQ	40	0.16	5.3	1.1	1.3	8-TQ	40	0.37	8.1	1.1	1.3	10-TQ	40	0.60	10.4	1.1	1.2
		50	0.17	5.5	1.1	1.3		50	0.38	8.2	1.1	1.3		50	0.62	10.5	1.1	1.3
		20	0.14	4.3	1.1	1.3			20	0.34	7.0	1.0			1.2	20	0.63	9.6
360°	5-F	30	0.17	5.0	1.0	1.1	8-F	30		0.44	8.0	1.0	1.1	10-F	30		0.69	10.0
		40	0.19	5.0	1.1	1.2		40	0.46	8.0	1.0	1.2	40		0.73	10.3	1.0	1.1
		50	0.19	5.0	1.1	1.3			50	0.46	8.0	1.0			1.2	50	0.74	10.4
		20	0.15	4.3	1.0	1.2		20		0.41	7.2	1.0	1.1		20		0.71	9.5
30	0.20	5.0	1.0	1.2	30	0.49	8.0		1.1	1.1	30	0.79	10.0	1.0		1.1		
40	0.21	5.0	1.1	1.2		40	0.54	8.0	1.1	1.2		40	0.84	10.3	1.0	1.1		
50	0.22	5.0	1.1	1.3	50		0.55	8.0	1.1	1.2	50		0.86	10.4	1.0	1.1		
20	0.17	4.0	1.0	1.2		20	0.55	7.0	1.1	1.2		20	0.95	9.6	1.0	1.1		
30	0.26	5.0	1.0	1.2	30		0.66	8.0	1.0	1.1	30		1.03	10.0	1.0	1.1		
40	0.26	5.0	1.0	1.2			40	0.68	8.0	1.0			1.2	40	1.08	10.3	1.0	1.1
50	0.26	5.0	1.0	1.2	50			0.71	8.0	1.1	1.2		50		1.12	10.4	1.0	1.2

**Five Radii Available in Toro  
(Male) & Female Threads**



**Nine Arcs, Plus Side and Center Strips Available**



**PERFORMANCE DATA – PRECISION™ SERIES SPRAY NOZZLES**

Arc	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	model # (O-XX-XX)	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)	Arc	psi	gpm	Radius	Precip. Rate ■ (in./hr.)	Precip. Rate ▲ (in./hr.)
60°	12-60	20	0.24	11.5	1.0	1.2	15-60	20	0.35	14.0	1.0	1.2	4X30 SST	20	0.62	4x28	1.0	1.1
		30	0.25	12.0	1.0	1.2		30	0.39	15.0	1.0	1.2		30	0.66	4x30	1.1	1.2
		40	0.26	12.1	1.0	1.2		40	0.40	15.1	1.0	1.2		40	0.67	4x30	1.1	1.2
		50	0.28	12.2	1.1	1.3		50	0.42	15.3	1.0	1.2		50	0.68	4x30	1.1	1.3
90°	12-Q	20	0.34	12.0	1.0	1.2	15-Q	20	0.53	14.2	1.0	1.2	4X15 LCS	20	0.32	4x15	1.0	1.2
		30	0.37	12.1	1.0	1.1		30	0.58	15.0	1.0	1.1		30	0.33	4x15	1.1	1.2
		40	0.39	11.4	1.0	1.2		40	0.60	15.1	1.0	1.2		40	0.34	4x15	1.1	1.2
		50	0.39	12.0	1.0	1.1		50	0.61	15.3	1.0	1.2		50	0.34	4x15	1.1	1.3
120°	12-T	20	0.46	11.5	1.0	1.2	15-T	20	0.72	14.3	1.0	1.2	4X15 RCS	20	0.32	4x15	1.0	1.2
		30	0.49	12.0	1.0	1.1		30	0.77	15.0	1.0	1.1		30	0.33	4x15	1.1	1.2
		40	0.51	12.2	1.0	1.1		40	0.81	15.3	1.0	1.2		40	0.34	4x15	1.1	1.3
		50	0.52	12.3	1.0	1.1		50	0.82	15.4	1.0	1.2		50	0.34	4x15	1.1	1.3
150°	12-150	20	0.60	11.6	1.0	1.2	15-150	20	0.92	14.7	1.0	1.2	4X18 SST	20	0.36	4x18	1.0	1.1
		30	0.62	12.0	1.0	1.1		30	0.96	15.0	1.0	1.2		30	0.37	4x18	1.0	1.1
		40	0.63	12.2	1.0	1.1		40	1.00	15.2	1.0	1.2		40	0.38	4x18	1.0	1.2
		50	0.64	12.3	1.0	1.1		50	1.10	15.3	1.1	1.3		50	0.38	4x18	1.0	1.2
180°	12-H	20	0.70	11.5	1.0	1.2	15-H	20	1.10	14.5	1.0	1.2	4X9 LCS	20	0.18	4x9	1.0	1.2
		30	0.74	12.0	1.0	1.1		30	1.16	15.0	1.0	1.1		30	0.19	4x9	1.0	1.2
		40	0.79	12.3	1.0	1.2		40	1.25	15.4	1.0	1.2		40	0.2	4x9	1.1	1.2
		50	0.80	12.4	1.0	1.2		50	1.28	15.5	1.0	1.2		50	0.2	4x9	1.1	1.1
210°	12-210	20	0.76	11.6	1.1	1.3	15-210	20	1.15	14.5	1.1	1.2	4X9 RCS	20	0.18	4x9	1.0	1.2
		30	0.82	12.0	1.1	1.3		30	1.20	15.0	1.0	1.2		30	0.19	4x9	1.0	1.2
		40	0.84	12.3	1.1	1.2		40	1.30	15.5	1.0	1.2		40	0.2	4x9	1.1	1.2
		50	0.85	12.4	1.1	1.2		50	1.40	15.6	1.1	1.3		50	0.2	4x9	1.1	1.2
240°	12-TT	20	0.90	11.4	1.0	1.2	15-TT	20	1.45	14.5	1.0	1.2	4X9 RCS	20	0.18	4x9	1.0	1.2
		30	0.99	12.0	1.0	1.1		30	1.54	15.0	1.0	1.1		30	0.19	4x9	1.0	1.2
		40	1.04	12.3	1.0	1.1		40	1.58	15.2	1.0	1.1		40	0.2	4x9	1.1	1.2
		50	1.05	12.4	1.0	1.1		50	1.61	15.3	1.0	1.1		50	0.2	4x9	1.1	1.2
270°	12-TQ	20	1.05	11.4	1.0	1.2	15-TQ	20	1.72	14.5	1.0	1.2	4X9 RCS	20	0.18	4x9	1.0	1.2
		30	1.15	12.0	1.0	1.2		30	1.78	15.0	1.0	1.1		30	0.19	4x9	1.0	1.2
		40	1.19	12.2	1.0	1.2		40	1.82	15.0	1.0	1.2		40	0.2	4x9	1.1	1.2
		50	1.22	12.3	1.0	1.2		50	1.90	15.3	1.0	1.2		50	0.2	4x9	1.1	1.2
360°	12-F	20	1.35	11.5	1.0	1.1	15-F	20	2.20	14.5	1.0	1.2	4X9 RCS	20	0.18	4x9	1.0	1.2
		30	1.48	12.0	1.0	1.1		30	2.31	15.0	1.0	1.1		30	0.19	4x9	1.0	1.2
		40	1.59	12.4	1.0	1.1		40	2.35	15.2	1.0	1.1		40	0.2	4x9	1.1	1.2
		50	1.60	12.5	1.0	1.1		50	2.40	15.3	1.0	1.1		50	0.2	4x9	1.1	1.2