

Part Number	PG	Length		Diameter		Rate		N/mm	Block Height		Travel		Block Load		Weight	
		inch	mm	inch	mm	lbs/inch	kg/mm		inch	mm	inch	mm	lbs	N	lbs	kgs
0400.250.0300	ERS	4.00	102	2.50 I.D.	64 I.D.	300	5.36	53	1.44	37	2.56	65	768	3,417	0.88	0.40
0400.250.0400	ERS	4.00	102	2.50 I.D.	64 I.D.	400	7.14	70	1.57	40	2.43	62	973	4,330	1.10	0.50
0400.250.0500	ERS	4.00	102	2.50 I.D.	64 I.D.	500	8.94	88	1.65	42	2.35	60	1,175	5,225	1.10	0.50
0400.250.0600	ERS	4.00	102	2.50 I.D.	64 I.D.	600	10.71	105	1.74	44	2.26	58	1,359	6,044	1.32	0.60
0400.250.0700	ERS	4.00	102	2.50 I.D.	64 I.D.	700	12.50	123	1.82	46	2.18	55	1,526	6,787	1.32	0.60
0600.250.0275	ERS	6.00	152	2.50 I.D.	64 I.D.	275	4.91	48	2.19	56	3.81	97	1,048	4,661	1.80	0.82
0600.250.0350	ERS	6.00	152	2.50 I.D.	64 I.D.	348	6.22	61	2.20	56	3.78	96	1,328	5,908	1.61	0.73
0600.250.0400	ERS	6.00	152	2.50 I.D.	64 I.D.	400	7.14	70	2.40	61	3.60	91	1,439	6,401	1.85	0.84
0600.250.0450	ERS	6.00	152	2.50 I.D.	64 I.D.	450	8.05	79	2.39	61	3.61	92	1,624	7,224	1.90	0.86
0600.250.0500	ERS	6.00	152	2.50 I.D.	64 I.D.	500	8.94	88	2.38	60	3.62	92	1,809	8,047	1.92	0.87
0600.250.0550	ERS	6.00	152	2.50 I.D.	64 I.D.	550	9.84	96	2.44	62	3.56	90	1,960	8,718	2.03	0.92
0600.250.0600	ERS	6.00	152	2.50 I.D.	64 I.D.	600	10.71	105	2.68	68	3.32	84	1,990	8,852	2.35	1.07
0600.250.0650	ERS	6.00	152	2.50 I.D.	64 I.D.	650	11.61	114	2.69	68	3.31	84	2,149	9,559	2.42	1.10
0600.250.0700	ERS	6.00	152	2.50 I.D.	64 I.D.	700	12.50	123	2.57	65	3.43	87	2,397	10,662	2.29	1.04
0600.250.0725	ERS	6.00	152	2.50 I.D.	64 I.D.	725	12.94	127	2.50	64	3.50	89	2,534	11,273	2.04	1.01
0600.250.0750	ERS	6.00	152	2.50 I.D.	64 I.D.	750	13.39	131	2.65	67	3.35	85	2,510	11,165	2.42	1.10
0600.250.0800	ERS	6.00	152	2.50 I.D.	64 I.D.	800	14.28	140	2.71	69	3.29	84	2,634	11,717	2.53	1.15
0600.250.0850	ERS	6.00	152	2.50 I.D.	64 I.D.	850	15.17	149	2.79	71	3.21	82	2,732	12,152	2.67	1.21
0600.250.0900	ERS	6.00	152	2.50 I.D.	64 I.D.	900	16.07	158	2.87	73	3.13	80	2,820	12,544	2.82	1.28
0600.250.0950	ERS	6.00	152	2.50 I.D.	64 I.D.	950	16.96	166	2.92	74	3.08	78	2,924	13,007	2.93	1.33
0600.250.1000	ERS	6.00	152	2.50 I.D.	64 I.D.	1,000	17.85	175	2.92	74	3.08	78	3,076	13,683	3.00	1.36
0600.250.1100	ERS	6.00	152	2.50 I.D.	64 I.D.	1,100	19.64	193	3.00	76	3.00	76	3,295	14,657	3.15	1.43
0600.250.1150	ERS	6.00	152	2.50 I.D.	64 I.D.	1,150	20.53	201	3.11	79	2.89	73	3,318	14,759	3.35	1.52
0600.250.1200	ERS	6.00	152	2.50 I.D.	64 I.D.	1,200	21.42	210	3.03	77	2.97	75	3,562	15,844	3.24	1.47
0600.250.1300	ERS	6.00	152	2.50 I.D.	64 I.D.	1,300	23.22	228	3.19	81	2.81	71	3,634	16,165	3.57	1.62
0600.250.1450	ERS	6.00	152	2.50 I.D.	64 I.D.	1,450	25.89	254	3.16	80	2.84	72	4,110	18,282	3.59	1.63
0700.250.0100	ERS	7.00	178	2.50 I.D.	64 I.D.	100	1.78	18	1.97	50	5.04	128	505	2,247	1.10	0.50
0700.250.0250	ERS	7.00	178	2.50 I.D.	64 I.D.	250	4.46	44	2.50	64	4.43	113	1,107	4,924	1.85	0.84
0700.250.0250S	ERS	7.00	178	2.50 I.D.	64 I.D.	250	4.46	44	2.50	64	4.43	113	1,107	4,924	1.85	0.84

0700.250.0275	ERS	7.00	178	2.50 I.D.	64 I.D.	275	4.91	48	2.54	65	4.46	113	1,226	5,453	1.95	0.88
0700.250.0300	ERS	7.00	178	2.50 I.D.	64 I.D.	300	5.36	53	2.48	63	4.52	115	1,356	6,032	1.83	0.83
0700.250.0300S	ERS	7.00	178	2.50 I.D.	64 I.D.	300	5.36	53	2.48	63	4.52	115	1,356	6,032	1.83	0.83
0700.250.0325	ERS	7.00	178	2.50 I.D.	64 I.D.	325	5.80	57	2.54	65	4.46	113	1,449	6,445	1.92	0.87
0700.250.0325S	ERS	7.00	178	2.50 I.D.	64 I.D.	325	5.80	57	2.54	65	4.46	113	1,449	6,445	1.92	0.87
0700.250.0350	ERS	7.00	178	2.50 I.D.	64 I.D.	350	6.25	61	2.65	67	4.35	110	1,525	6,784	2.06	0.93
0700.250.0375	ERS	7.00	178	2.50 I.D.	64 I.D.	375	6.70	66	2.71	69	4.29	109	1,609	7,157	2.17	0.98
0700.250.0400	ERS	7.00	178	2.50 I.D.	64 I.D.	400	7.14	70	2.81	71	4.19	106	1,675	7,451	2.32	1.05
0700.250.0450	ERS	7.00	178	2.50 I.D.	64 I.D.	450	8.05	79	2.81	71	4.19	106	1,884	8,380	2.36	1.07
0700.250.0500	ERS	7.00	178	2.50 I.D.	64 I.D.	500	8.94	88	2.81	71	4.19	106	2,096	9,323	2.42	1.10
0700.250.0550	ERS	7.00	178	2.50 I.D.	64 I.D.	550	9.84	96	3.07	78	3.93	100	2,161	9,613	2.79	1.27
0700.250.0600	ERS	7.00	178	2.50 I.D.	64 I.D.	600	10.71	105	3.09	78	3.91	99	2,348	10,444	2.87	1.30
0700.250.0650	ERS	7.00	178	2.50 I.D.	64 I.D.	650	11.61	114	3.15	80	3.85	98	2,504	11,138	3.00	1.36
0700.250.0700	ERS	7.00	178	2.50 I.D.	64 I.D.	700	12.50	123	3.20	81	3.80	97	2,660	11,834	2.93	1.33
0700.250.0750	ERS	7.00	178	2.50 I.D.	64 I.D.	750	13.39	131	3.23	82	3.78	96	2,813	12,511	3.24	1.47
0700.250.0800	ERS	7.00	178	2.50 I.D.	64 I.D.	800	14.28	140	3.35	85	3.65	93	2,918	12,978	3.22	1.46
0700.250.0900	ERS	7.00	178	2.50 I.D.	64 I.D.	900	16.07	158	3.51	89	3.49	89	3,142	13,978	3.53	1.60
0700.250.1000	ERS	7.00	178	2.50 I.D.	64 I.D.	1,000	17.85	175	3.52	89	3.48	88	3,481	15,484	3.62	1.64
0700.250.1100	ERS	7.00	178	2.50 I.D.	64 I.D.	1,100	19.64	193	3.70	94	3.30	84	3,626	16,131	3.97	1.80
0800.250.0100	ERS	8.00	203	2.50 I.D.	64 I.D.	100	1.78	18	2.12	54	5.88	149	588	2,615	1.17	0.53
0800.250.0125	ERS	8.00	203	2.50 I.D.	64 I.D.	125	2.23	22	2.26	57	5.74	146	718	3,192	1.34	0.61
0800.250.0150	ERS	8.00	203	2.50 I.D.	64 I.D.	150	2.68	26	2.55	65	5.45	138	817	3,634	1.63	0.74
0800.250.0150S	ERS	8.00	203	2.50 I.D.	64 I.D.	150	2.68	26	2.55	65	5.45	138	817	3,634	1.63	0.74
0800.250.0175	ERS	8.00	203	2.50 I.D.	64 I.D.	175	3.13	31	2.68	68	5.32	135	931	4,141	1.90	0.86
0800.250.0200	ERS	8.00	203	2.50 I.D.	64 I.D.	200	3.57	35	2.67	68	5.33	135	1,065	4,737	1.95	0.88
0800.250.0200S	ERS	8.00	203	2.50 I.D.	64 I.D.	200	3.57	35	2.67	68	5.33	135	1,065	4,737	1.94	0.88
0800.250.0225	ERS	8.00	203	2.50 I.D.	64 I.D.	225	4.02	39	2.71	69	5.29	134	1,191	5,298	2.03	0.92
0800.250.0250	ERS	8.00	203	2.50 I.D.	64 I.D.	250	4.46	44	2.83	72	5.17	131	1,291	5,743	2.12	0.96
0800.250.0250S	ERS	8.00	203	2.50 I.D.	64 I.D.	250	4.46	44	2.83	72	5.17	131	1,291	5,743	2.12	0.96
0800.250.0275	ERS	8.00	203	2.50 I.D.	64 I.D.	275	4.91	48	2.89	73	5.11	130	1,406	6,254	2.21	1.00
0800.250.0300	ERS	8.00	203	2.50 I.D.	64 I.D.	300	5.36	53	2.96	75	5.04	128	1,513	6,730	2.33	1.06

0800.250.0300S	ERS	8.00	203	2.50 I.D.	64 I.D.	300	5.36	53	2.96	75	5.04	128	1,513	6,730	2.34	1.06
0800.250.0325	ERS	8.00	203	2.50 I.D.	64 I.D.	325	5.80	57	3.05	77	4.95	126	1,609	7,157	2.46	1.12
0800.250.0350	ERS	8.00	203	2.50 I.D.	64 I.D.	350	6.25	61	3.12	79	4.88	124	1,709	7,602	2.59	1.17
0800.250.0350S	ERS	8.00	203	2.50 I.D.	64 I.D.	350	6.25	61	3.12	79	4.88	124	1,709	7,602	2.58	1.17
0800.250.0375	ERS	8.00	203	2.50 I.D.	64 I.D.	375	6.70	66	3.23	82	4.77	121	1,787	7,949	2.76	1.25
0800.250.0400	ERS	8.00	203	2.50 I.D.	64 I.D.	400	7.14	70	3.08	78	4.92	125	1,968	8,754	2.61	1.18
0800.250.0400S	ERS	8.00	203	2.50 I.D.	64 I.D.	400	7.14	70	3.08	78	4.92	125	1,968	8,754	2.62	1.19
0800.250.0425	ERS	8.00	203	2.50 I.D.	64 I.D.	425	7.59	74	3.17	81	4.83	123	2,053	9,132	2.76	1.25
0800.250.0450	ERS	8.00	203	2.50 I.D.	64 I.D.	450	8.05	79	3.28	83	4.72	120	2,122	9,439	2.94	1.33
0800.250.0475	ERS	8.00	203	2.50 I.D.	64 I.D.	475	8.50	83	3.40	86	4.60	117	2,184	9,715	3.12	1.42
0800.250.0500	ERS	8.00	203	2.50 I.D.	64 I.D.	500	8.94	88	3.28	83	4.72	120	2,358	10,489	3.00	1.36
0800.250.0500S	ERS	8.00	203	2.50 I.D.	64 I.D.	500	8.94	88	3.28	83	4.72	120	2,358	10,489	3.00	1.36
0800.250.0525	ERS	8.00	203	2.50 I.D.	64 I.D.	525	9.39	92	3.42	87	4.58	116	2,402	10,685	3.22	1.46
0800.250.0550	ERS	8.00	203	2.50 I.D.	64 I.D.	550	9.84	96	3.57	91	4.43	113	2,437	10,840	3.44	1.56
0800.250.0550S	ERS	8.00	203	2.50 I.D.	64 I.D.	550	9.84	96	3.57	91	4.43	113	2,437	10,840	3.44	1.56
0800.250.0600	ERS	8.00	203	2.50 I.D.	64 I.D.	600	10.71	105	3.59	91	4.41	112	2,646	11,770	3.53	1.60
0800.250.0600S	ERS	8.00	203	2.50 I.D.	64 I.D.	600	10.71	105	3.59	91	4.41	112	2,646	11,770	3.53	1.60
0800.250.0650	ERS	8.00	203	2.50 I.D.	64 I.D.	650	11.61	114	3.63	92	4.37	111	2,838	12,624	3.66	1.66
0800.250.0700	ERS	8.00	203	2.50 I.D.	64 I.D.	700	12.50	123	3.65	93	4.35	110	3,043	13,536	3.75	1.70
0800.250.0750	ERS	8.00	203	2.50 I.D.	64 I.D.	750	13.39	131	3.72	94	4.28	109	3,209	14,274	3.90	1.77
0800.250.0800	ERS	8.00	203	2.50 I.D.	64 I.D.	800	14.28	140	3.79	96	4.21	107	3,368	14,982	4.06	1.84
0800.250.0850	ERS	8.00	203	2.50 I.D.	64 I.D.	850	15.17	149	3.86	98	4.14	105	3,520	15,658	4.23	1.92
0800.250.0900	ERS	8.00	203	2.50 I.D.	64 I.D.	900	16.07	158	3.93	100	4.07	103	3,665	16,303	4.39	1.99
0800.250.0950	ERS	8.00	203	2.50 I.D.	64 I.D.	950	16.96	166	4.02	102	3.98	101	3,776	16,796	4.61	2.09
0800.250.1000	ERS	8.00	203	2.50 I.D.	64 I.D.	1,000	17.85	175	4.12	105	3.88	99	3,877	17,246	4.80	2.18
0800.250.1025	ERS	8.00	203	2.50 I.D.	64 I.D.	1,027	18.34	180	4.06	103	3.94	100	4,033	17,940	4.74	2.15
0800.250.1050	ERS	8.00	203	2.50 I.D.	64 I.D.	1,050	18.75	184	4.22	107	3.78	96	3,966	17,641	5.03	2.28
0800.250.1100	ERS	8.00	203	2.50 I.D.	64 I.D.	1,100	19.64	193	4.07	103	3.93	100	4,317	19,203	4.85	2.20
0800.250.1200	ERS	8.00	203	2.50 I.D.	64 I.D.	1,200	21.42	210	4.30	109	3.70	94	4,437	19,737	5.33	2.42
0800.250.1300	ERS	8.00	203	2.50 I.D.	64 I.D.	1,300	23.22	228	4.53	115	3.47	88	4,503	20,031	5.73	2.60
0800.250.1400	ERS	8.00	203	2.50 I.D.	64 I.D.	1,400	25.00	245	4.53	115	3.47	88	4,840	21,529	5.95	2.70

0800.250.1500	ERS	8.00	203	2.50 I.D.	64 I.D.	1,500	26.79	263	6.10	155	1.90	48	5,178	23,034	5.95	2.70
1000.250.0100	ERS	10.00	254	2.50 I.D.	64 I.D.	100	1.78	18	3.28	83	6.72	171	671	2,985	2.11	0.96
1000.250.0100S	ERS	10.00	254	2.50 I.D.	64 I.D.	100	1.78	18	3.28	83	6.72	171	671	2,985	2.12	0.96
1000.250.0125S	ERS	10.00	254	2.50 I.D.	64 I.D.	125	2.23	22	TBD	TBD	10.00	254	TBD	TBD	TBD	TBD
1000.250.0150	ERS	10.00	254	2.50 I.D.	64 I.D.	150	2.68	26	3.52	89	6.48	165	972	4,324	2.51	1.14
1000.250.0150S	ERS	10.00	254	2.50 I.D.	64 I.D.	150	2.68	26	3.52	89	6.48	165	972	4,324	2.51	1.14
1000.250.0162	ERS	10.00	254	2.50 I.D.	64 I.D.	162	2.89	28	3.61	92	6.39	162	1,035	4,604	2.67	1.21
1000.250.0175	ERS	10.00	254	2.50 I.D.	64 I.D.	175	3.13	31	3.32	84	6.68	170	1,169	5,200	2.51	1.14
1000.250.0175S	ERS	10.00	254	2.50 I.D.	64 I.D.	175	3.13	31	3.32	84	6.68	170	1,169	5,200	2.51	1.14
1000.250.0200	ERS	10.00	254	2.50 I.D.	64 I.D.	200	3.57	35	3.39	86	6.61	168	1,323	5,885	2.53	1.15
1000.250.0200S	ERS	10.00	254	2.50 I.D.	64 I.D.	200	3.57	35	3.39	86	6.61	168	1,323	5,885	2.53	1.15
1000.250.0225	ERS	10.00	254	2.50 I.D.	64 I.D.	225	4.02	39	3.39	86	6.61	168	1,487	6,614	2.62	1.19
1000.250.0225S	ERS	10.00	254	2.50 I.D.	64 I.D.	225	4.02	39	3.39	86	6.61	168	1,487	6,614	2.62	1.19
1000.250.0250	ERS	10.00	254	2.50 I.D.	64 I.D.	250	4.46	44	3.72	94	6.28	160	1,569	6,979	3.06	1.39
1000.250.0250S	ERS	10.00	254	2.50 I.D.	64 I.D.	250	4.46	44	3.72	94	6.28	160	1,569	6,979	3.06	1.39
1000.250.0250-0425	ERS	10.00	254	2.50 I.D.	64 I.D.	250-425	4.47-7.60	44-74	5.31	135	4.69	119	1,813	8,069	4.71	2.20
1000.250.0275	ERS	10.00	254	2.50 I.D.	64 I.D.	275	4.91	48	3.77	96	6.23	158	1,715	7,629	3.17	1.44
1000.250.0275S	ERS	10.00	254	2.50 I.D.	64 I.D.	275	4.91	48	3.77	96	6.23	158	1,715	7,629	3.17	1.44
1000.250.0300	ERS	10.00	254	2.50 I.D.	64 I.D.	300	5.36	53	3.85	98	6.15	156	1,844	8,202	3.33	1.51
1000.250.0300S	ERS	10.00	254	2.50 I.D.	64 I.D.	300	5.36	53	3.85	98	6.15	156	1,844	8,202	3.33	1.51
1000.250.0325	ERS	10.00	254	2.50 I.D.	64 I.D.	325	5.80	57	3.94	100	6.06	154	1,971	8,767	3.49	1.58
1000.250.0325S	ERS	10.00	254	2.50 I.D.	64 I.D.	325	5.80	57	3.94	100	6.06	154	1,971	8,767	3.48	1.58
1000.250.0350	ERS	10.00	254	2.50 I.D.	64 I.D.	350	6.25	61	4.02	102	5.98	152	2,092	9,306	3.66	1.66
1000.250.0350S	ERS	10.00	254	2.50 I.D.	64 I.D.	350	6.25	61	4.02	102	5.98	152	2,092	9,306	3.66	1.66
1000.250.0375	ERS	10.00	254	2.50 I.D.	64 I.D.	375	6.70	66	4.11	104	5.89	150	2,208	9,822	3.83	1.74
1000.250.0375S	ERS	10.00	254	2.50 I.D.	64 I.D.	375	6.70	66	4.11	104	5.89	150	2,208	9,822	3.83	1.74
1000.250.0400	ERS	10.00	254	2.50 I.D.	64 I.D.	400	7.14	70	4.24	108	5.76	146	2,302	10,240	4.05	1.84
1000.250.0400S	ERS	10.00	254	2.50 I.D.	64 I.D.	400	7.14	70	4.24	108	5.76	146	2,302	10,240	4.06	1.84
1000.250.0425	ERS	10.00	254	2.50 I.D.	64 I.D.	425	7.59	74	4.36	111	5.64	143	2,399	10,671	4.25	1.93
1000.250.0425S	ERS	10.00	254	2.50 I.D.	64 I.D.	425	7.59	74	4.36	111	5.64	143	2,399	10,671	4.25	1.93
1000.250.0450	ERS	10.00	254	2.50 I.D.	64 I.D.	450	8.05	79	4.16	106	5.84	148	2,630	11,699	4.03	1.83

1000.250.0450S	ERS	10.00	254	2.50 I.D.	64 I.D.	450	8.05	79	4.16	106	5.84	148	2,630	11,699	4.03	1.83
1000.250.0475	ERS	10.00	254	2.50 I.D.	64 I.D.	475	8.50	83	4.29	109	4.53	115	2,711	12,060	4.27	1.94
1000.250.0500	ERS	10.00	254	2.50 I.D.	64 I.D.	500	8.94	88	4.43	113	5.57	141	2,786	12,393	4.52	2.05
1000.250.0500S	ERS	10.00	254	2.50 I.D.	64 I.D.	500	8.94	88	4.43	113	5.57	141	2,786	12,393	4.52	2.05
1000.250.0525	ERS	10.00	254	2.50 I.D.	64 I.D.	525	9.39	92	4.59	117	5.41	137	2,840	12,633	4.80	2.18
1000.250.0550	ERS	10.00	254	2.50 I.D.	64 I.D.	550	9.84	96	4.43	113	5.57	141	3,061	13,616	4.63	2.10
1000.250.0550S	ERS	10.00	254	2.50 I.D.	64 I.D.	550	9.84	96	4.43	113	5.57	141	3,061	13,616	4.63	2.10
1000.250.0575	ERS	10.00	254	2.50 I.D.	64 I.D.	575	10.28	101	4.57	116	5.43	138	3,121	13,883	4.87	2.21
1000.250.0600	ERS	10.00	254	2.50 I.D.	64 I.D.	600	10.71	105	4.74	120	5.26	134	3,158	14,047	5.18	2.35
1000.250.0600S	ERS	10.00	254	2.50 I.D.	64 I.D.	600	10.71	105	4.74	120	5.26	134	3,158	14,047	5.18	2.35
1000.250.0650	ERS	10.00	254	2.50 I.D.	64 I.D.	650	11.61	114	4.77	121	5.23	133	3,401	15,128	5.31	2.41
1000.250.0700	ERS	10.00	254	2.50 I.D.	64 I.D.	700	12.50	123	4.80	122	5.20	132	3,644	16,209	5.44	2.47
1000.250.0700S	ERS	10.00	254	2.50 I.D.	64 I.D.	700	12.50	123	4.80	122	5.20	132	3,644	16,209	5.44	2.47
1000.250.0750	ERS	10.00	254	2.50 I.D.	64 I.D.	750	13.39	131	4.85	123	5.15	131	3,860	17,170	5.62	2.55
1000.250.0750S	ERS	10.00	254	2.50 I.D.	64 I.D.	750	13.39	131	4.85	123	5.15	131	3,860	17,170	5.62	2.55
1000.250.0800	ERS	10.00	254	2.50 I.D.	64 I.D.	800	14.28	140	4.91	125	5.09	129	4,074	18,122	5.80	2.63
1000.250.0800S	ERS	10.00	254	2.50 I.D.	64 I.D.	800	14.28	140	4.91	125	5.09	129	4,074	18,122	5.80	2.63
1200.250.0080	ERS	12.00	305	2.50 I.D.	64 I.D.	80	1.43	14	3.58	91	8.43	214	674	2,999	2.25	1.02
1200.250.0090	ERS	12.00	305	2.50 I.D.	64 I.D.	90	1.61	16	3.82	97	8.18	208	736	3,274	2.51	1.14
1200.250.0100	ERS	12.00	305	2.50 I.D.	64 I.D.	100	1.78	18	3.51	89	8.49	216	849	3,777	2.31	1.05
1200.250.0100S	ERS	12.00	305	2.50 I.D.	64 I.D.	100	1.78	18	3.51	89	8.49	216	849	3,777	2.31	1.05
1200.250.0110	ERS	12.00	305	2.50 I.D.	64 I.D.	110	1.96	19	3.53	90	8.47	215	932	4,146	2.45	1.11
1200.250.0120	ERS	12.00	305	2.50 I.D.	64 I.D.	120	2.14	21	3.66	93	8.34	212	1,001	4,453	2.62	1.19
1200.250.0125	ERS	12.00	305	2.50 I.D.	64 I.D.	125	2.23	22	3.95	100	8.05	204	1,007	4,479	2.92	1.32
1200.250.0125S	ERS	12.00	305	2.50 I.D.	64 I.D.	125	2.23	22	3.95	100	8.05	204	1,007	4,479	2.91	1.32
1200.250.0130	ERS	12.00	305	2.50 I.D.	64 I.D.	130	2.32	23	4.38	111	7.62	194	991	4,408	3.26	1.48
1200.250.0140	ERS	12.00	305	2.50 I.D.	64 I.D.	140	2.50	25	4.01	102	7.99	203	1,118	4,973	3.05	1.38
1200.250.0150	ERS	12.00	305	2.50 I.D.	64 I.D.	150	2.68	26	4.19	106	7.81	198	1,171	5,209	3.29	1.49
1200.250.0150S	ERS	12.00	305	2.50 I.D.	64 I.D.	150	2.68	26	4.19	106	7.81	198	1,171	5,209	3.28	1.49
1200.250.0165	ERS	12.00	305	2.50 I.D.	64 I.D.	165	2.95	29	3.94	100	8.06	205	1,330	5,916	3.00	1.36
1200.250.0175	ERS	12.00	305	2.50 I.D.	64 I.D.	175	3.13	31	4.16	106	7.84	199	1,372	6,103	3.26	1.48

1200.250.0175S	ERS	12.00	305	2.50 I.D.	64 I.D.	175	3.13	31	4.16	106	7.84	199	1,372	6,103	3.26	1.48
1200.250.0185	ERS	12.00	305	2.50 I.D.	64 I.D.	185	3.30	32	3.95	100	8.05	204	1,488	6,619	3.11	1.41
1200.250.0200	ERS	12.00	305	2.50 I.D.	64 I.D.	200	3.57	35	4.07	103	7.93	201	1,585	7,050	3.28	1.49
1200.250.0200S	ERS	12.00	305	2.50 I.D.	64 I.D.	200	3.57	35	4.07	103	7.93	201	1,585	7,050	3.28	1.49
1200.250.0225	ERS	12.00	305	2.50 I.D.	64 I.D.	225	4.02	39	4.46	113	7.54	192	1,696	7,544	3.80	1.72
1200.250.0225S	ERS	12.00	305	2.50 I.D.	64 I.D.	225	4.02	39	4.46	113	7.54	192	1,696	7,544	3.79	1.72
1200.250.0250	ERS	12.00	305	2.50 I.D.	64 I.D.	250	4.46	44	4.43	113	7.57	192	1,893	8,420	3.86	1.75
1200.250.0250S	ERS	12.00	305	2.50 I.D.	64 I.D.	250	4.46	44	4.43	113	7.57	192	1,893	8,420	3.86	1.75
1200.250.0275	ERS	12.00	305	2.50 I.D.	64 I.D.	275	4.91	48	4.48	114	7.52	191	2,067	9,194	4.01	1.82
1200.250.0275S	ERS	12.00	305	2.50 I.D.	64 I.D.	275	4.91	48	4.48	114	7.52	191	2,067	9,194	4.01	1.82
1200.250.0300	ERS	12.00	305	2.50 I.D.	64 I.D.	300	5.36	53	4.96	126	7.04	179	2,112	9,395	4.67	2.12
1200.250.0300S	ERS	12.00	305	2.50 I.D.	64 I.D.	300	5.36	53	4.96	126	7.04	179	2,112	9,395	4.67	2.12
1200.250.0325	ERS	12.00	305	2.50 I.D.	64 I.D.	325	5.80	57	5.02	128	6.98	177	2,270	10,097	4.84	2.20
1200.250.0325S	ERS	12.00	305	2.50 I.D.	64 I.D.	325	5.80	57	5.02	128	6.98	177	2,270	10,097	4.83	2.19
1200.250.0350	ERS	12.00	305	2.50 I.D.	64 I.D.	350	6.25	61	5.12	130	6.88	175	2,408	10,711	5.05	2.29
1200.250.0350S	ERS	12.00	305	2.50 I.D.	64 I.D.	350	6.25	61	5.12	130	6.88	175	2,408	10,711	5.05	2.29
1200.250.0375	ERS	12.00	305	2.50 I.D.	64 I.D.	375	6.70	66	5.22	133	6.78	172	2,542	11,307	5.27	2.39
1200.250.0375S	ERS	12.00	305	2.50 I.D.	64 I.D.	375	6.70	66	5.22	133	6.78	172	2,542	11,307	5.27	2.39
1200.250.0400	ERS	12.00	305	2.50 I.D.	64 I.D.	400	7.14	70	5.32	135	6.68	170	2,670	11,877	5.51	2.50
1200.250.0400S	ERS	12.00	305	2.50 I.D.	64 I.D.	400	7.14	70	5.32	135	6.68	170	2,670	11,877	5.51	2.50
1200.250.0425	ERS	12.00	305	2.50 I.D.	64 I.D.	425	7.59	74	5.43	138	6.57	167	2,794	12,428	5.73	2.60
1200.250.0425S	ERS	12.00	305	2.50 I.D.	64 I.D.	425	7.59	74	5.43	138	6.57	167	2,794	12,428	5.73	2.60
1200.250.0450	ERS	12.00	305	2.50 I.D.	64 I.D.	450	8.05	79	5.22	133	6.78	172	3,052	13,576	5.51	2.50
1200.250.0450S	ERS	12.00	305	2.50 I.D.	64 I.D.	450	8.05	79	5.22	133	6.78	172	3,052	13,576	5.51	2.50
1200.250.0475	ERS	12.00	305	2.50 I.D.	64 I.D.	475	8.50	83	5.34	136	6.66	169	3,162	14,065	5.75	2.61
1200.250.0475S	ERS	12.00	305	2.50 I.D.	64 I.D.	475	8.50	83	5.34	136	6.66	169	3,162	14,065	5.75	2.61
1200.250.0500S	ERS	12.00	305	2.50 I.D.	64 I.D.	500	8.94	88	5.49	139	6.51	165	3,252	14,466	6.06	2.75
1200.250.0525	ERS	12.00	305	2.50 I.D.	64 I.D.	525	9.39	92	5.65	144	6.35	161	3,334	14,830	6.37	2.89
1200.250.0525S	ERS	12.00	305	2.50 I.D.	64 I.D.	525	9.39	92	5.65	144	6.35	161	3,334	14,830	6.37	2.89
1200.250.0550S	ERS	12.00	305	2.50 I.D.	64 I.D.	550	9.84	96	5.83	148	6.17	157	3,390	15,079	6.72	3.05
1200.250.0600S	ERS	12.00	305	2.50 I.D.	64 I.D.	600	10.71	105	5.82	148	6.18	157	3,706	16,485	6.83	3.10

1200.250.0625	ERS	12.00	305	2.50 I.D.	64 I.D.	625	11.16	109	5.62	143	6.38	162	3,985	17,726	6.59	2.99
1200.250.0650S	ERS	12.00	305	2.50 I.D.	64 I.D.	650	11.61	114	5.81	148	6.19	157	4,025	17,904	6.94	3.15
1200.250.0700S	ERS	12.00	305	2.50 I.D.	64 I.D.	700	12.50	123	5.85	149	6.15	156	4,307	19,158	7.12	3.23
1200.250.0750S	ERS	12.00	305	2.50 I.D.	64 I.D.	750	13.39	131	5.88	149	6.12	155	4,586	20,399	7.32	3.32
1200.250.0800S	ERS	12.00	305	2.50 I.D.	64 I.D.	800	14.28	140	5.92	150	6.08	154	4,864	21,636	7.49	3.40
1200.250.0900S	ERS	12.00	305	2.50 I.D.	64 I.D.	900	16.07	158	6.40	163	5.60	142	5,041	22,423	8.60	3.90
1400.250.0080	ERS	14.00	356	2.50 I.D.	64 I.D.	80	1.43	14	3.93	100	10.07	256	806	3,585	2.56	1.16
1400.250.0090	ERS	14.00	356	2.50 I.D.	64 I.D.	90	1.61	16	4.81	122	9.19	233	827	3,679	3.39	1.54
1400.250.0095	ERS	14.00	356	2.50 I.D.	64 I.D.	95	1.70	17	4.59	117	9.41	239	894	3,977	3.24	1.47
1400.250.0100	ERS	14.00	356	2.50 I.D.	64 I.D.	100	1.78	18	4.39	112	9.61	244	961	4,275	3.09	1.40
1400.250.0100S	ERS	14.00	356	2.50 I.D.	64 I.D.	100	1.78	18	4.39	112	9.61	244	961	4,275	3.09	1.40
1400.250.0110	ERS	14.00	356	2.50 I.D.	64 I.D.	110	1.96	19	5.03	128	8.97	228	987	4,390	3.77	1.71
1400.250.0120	ERS	14.00	356	2.50 I.D.	64 I.D.	120	2.14	21	4.55	116	9.45	240	1,134	5,044	3.48	1.58
1400.250.0125S	ERS	14.00	356	2.50 I.D.	64 I.D.	125	2.23	22	5.00	127	9.00	229	1,125	5,004	3.86	1.75
1400.250.0130	ERS	14.00	356	2.50 I.D.	64 I.D.	130	2.32	23	4.84	123	9.16	233	1,190	5,293	3.72	1.69
1400.250.0130S	ERS	14.00	356	2.50 I.D.	64 I.D.	130	2.32	23	4.84	123	9.16	233	1,190	5,293	3.72	1.69
1400.250.0140	ERS	14.00	356	2.50 I.D.	64 I.D.	140	2.50	25	4.53	115	9.47	241	1,326	5,898	3.48	1.58
1400.250.0150	ERS	14.00	356	2.50 I.D.	64 I.D.	150	2.68	26	4.72	120	9.28	236	1,391	6,187	3.72	1.69
1400.250.0150S	ERS	14.00	356	2.50 I.D.	64 I.D.	150	2.68	26	4.72	120	9.28	236	1,391	6,187	3.72	1.69
1400.250.0165	ERS	14.00	356	2.50 I.D.	64 I.D.	165	2.95	29	4.80	122	9.20	234	1,518	6,752	3.90	1.77
1400.250.0165S	ERS	14.00	356	2.50 I.D.	64 I.D.	165	2.95	29	4.80	122	9.20	234	1,518	6,752	3.90	1.77
1400.250.0175	ERS	14.00	356	2.50 I.D.	64 I.D.	175	3.13	31	5.04	128	8.96	228	1,568	6,975	4.21	1.91
1400.250.0175S	ERS	14.00	356	2.50 I.D.	64 I.D.	175	3.13	31	5.04	128	8.96	228	1,568	6,975	4.21	1.91
1400.250.0185	ERS	14.00	356	2.50 I.D.	64 I.D.	185	3.30	32	4.76	121	9.24	235	1,709	7,602	3.99	1.81
1400.250.0200	ERS	14.00	356	2.50 I.D.	64 I.D.	200	3.57	35	4.92	118	9.35	238	1,873	8,331	4.21	1.91
1400.250.0200S	ERS	14.00	356	2.50 I.D.	64 I.D.	200	3.57	35	4.65	118	9.35	238	1,873	8,331	4.21	1.91
1400.250.0225	ERS	14.00	356	2.50 I.D.	64 I.D.	225	4.02	39	5.32	135	8.68	220	1,953	8,687	4.80	2.18
1400.250.0225S	ERS	14.00	356	2.50 I.D.	64 I.D.	225	4.02	39	5.32	135	8.68	220	1,953	8,687	4.80	2.18
1400.250.0250	ERS	14.00	356	2.50 I.D.	64 I.D.	250	4.46	44	5.32	135	8.68	220	2,170	9,653	4.91	2.23
1400.250.0250S	ERS	14.00	356	2.50 I.D.	64 I.D.	250	4.46	44	5.32	135	8.68	220	2,170	9,653	4.91	2.23
1400.250.0275	ERS	14.00	356	2.50 I.D.	64 I.D.	275	4.91	48	5.79	147	8.21	209	2,258	10,044	5.62	2.55

1400.250.0275S	ERS	14.00	356	2.50 I.D.	64 I.D.	275	4.91	48	5.79	147	8.21	209	2,258	10,044	5.62	2.55
1400.250.0300	ERS	14.00	356	2.50 I.D.	64 I.D.	300	5.36	53	5.81	148	8.19	208	2,458	10,934	5.77	2.62
1400.250.0300S	ERS	14.00	356	2.50 I.D.	64 I.D.	300	5.36	53	5.81	148	8.19	208	2,458	10,934	5.77	2.62
1400.250.0325	ERS	14.00	356	2.50 I.D.	64 I.D.	325	5.80	57	5.90	150	8.10	206	2,633	11,712	5.99	2.72
1400.250.0350	ERS	14.00	356	2.50 I.D.	64 I.D.	350	6.25	61	5.96	151	8.04	204	2,812	12,508	6.19	2.81
1400.250.0350S	ERS	14.00	356	2.50 I.D.	64 I.D.	350	6.25	61	5.96	151	8.04	204	2,812	12,508	6.19	2.81
1400.250.0400	ERS	14.00	356	2.50 I.D.	64 I.D.	400	7.14	70	6.19	157	7.81	198	3,123	13,892	6.72	3.05
1400.250.0400S	ERS	14.00	356	2.50 I.D.	64 I.D.	400	7.14	70	6.19	157	7.81	198	3,123	13,892	6.72	3.05
1400.250.0450	ERS	14.00	356	2.50 I.D.	64 I.D.	450	8.05	79	6.48	165	7.52	191	3,385	15,057	7.34	3.33
1400.250.0450S	ERS	14.00	356	2.50 I.D.	64 I.D.	450	8.05	79	6.48	165	7.52	191	3,385	15,057	7.34	3.33
1400.250.0500S	ERS	14.00	356	2.50 I.D.	64 I.D.	500	8.94	88	6.34	161	7.66	195	3,830	17,037	7.34	3.33
1400.250.0550S	ERS	14.00	356	2.50 I.D.	64 I.D.	550	9.84	96	6.68	170	7.32	186	4,026	17,908	8.04	3.65
1400.250.0600S	ERS	14.00	356	2.50 I.D.	64 I.D.	600	10.71	105	6.64	169	7.36	187	4,413	19,630	8.15	3.70
1400.250.0650S	ERS	14.00	356	2.50 I.D.	64 I.D.	650	11.61	114	7.02	178	6.98	177	4,538	20,186	8.97	4.07
1400.250.0700S	ERS	14.00	356	2.50 I.D.	64 I.D.	700	12.50	123	7.20	183	6.81	173	4,764	21,192	9.38	4.26
1600.250.0080S	ERS	16.00	406	2.50 I.D.	64 I.D.	80	1.43	14	5.31	135	10.67	271	848	3,800	3.74	1.70
1600.250.0100S	ERS	16.00	406	2.50 I.D.	64 I.D.	100	1.78	18	4.88	124	11.10	282	1,110	4,937	3.57	1.62
1600.250.0125S	ERS	16.00	406	2.50 I.D.	64 I.D.	125	2.23	22	5.53	140	10.47	266	1,310	5,825	4.38	1.99
1600.250.0150S	ERS	16.00	406	2.50 I.D.	64 I.D.	150	2.68	26	5.75	146	10.24	260	1,537	6,835	4.85	2.20
1600.250.0175S	ERS	16.00	406	2.50 I.D.	64 I.D.	175	3.13	31	6.04	153	9.96	253	1,743	7,751	5.28	2.40
1600.250.0200S	ERS	16.00	406	2.50 I.D.	64 I.D.	200	3.57	35	6.30	160	9.68	246	2,023	8,999	5.33	2.42
1600.250.0225S	ERS	16.00	406	2.50 I.D.	64 I.D.	225	4.03	39	6.34	161	9.66	245	2,175	9,677	5.78	2.70
1600.250.0250S	ERS	16.00	406	2.50 I.D.	64 I.D.	250	4.46	44	6.27	159	9.73	247	2,433	10,822	6.11	2.77
1600.250.0300S	ERS	16.00	406	2.50 I.D.	64 I.D.	300	5.36	53	6.81	173	9.19	233	2,757	12,264	7.12	3.23
1600.250.0350S	ERS	16.00	406	2.50 I.D.	64 I.D.	350	6.25	61	6.94	176	9.06	230	3,173	14,114	7.58	3.44
1600.250.0400S	ERS	16.00	406	2.50 I.D.	64 I.D.	400	7.14	70	7.17	182	8.83	224	3,533	15,715	8.18	3.71
1600.250.0450S	ERS	16.00	406	2.50 I.D.	64 I.D.	450	8.05	79	7.42	188	8.58	218	3,861	17,175	8.82	4.00
1600.250.0500S	ERS	16.00	406	2.50 I.D.	64 I.D.	500	8.94	88	7.77	197	8.23	209	4,117	18,313	9.61	4.36
1600.250.0550S	ERS	16.00	406	2.50 I.D.	64 I.D.	550	9.84	96	8.09	205	7.91	201	4,353	19,363	10.40	4.72
1600.250.0600S	ERS	16.00	406	2.50 I.D.	64 I.D.	600	10.71	105	8.06	205	7.94	202	4,763	21,187	10.58	4.80
1600.250.0650S	ERS	16.00	406	2.50 I.D.	64 I.D.	650	11.61	114	8.00	203	8.00	203	5,200	23,131	10.67	4.84

1600.250.0700S	ERS	16.00	406	2.50 I.D.	64 I.D.	700	12.50	123	8.44	214	7.56	192	5,289	23,527	11.70	5.31
1600.250.0750S	ERS	16.00	406	2.50 I.D.	64 I.D.	750	13.39	131	8.44	214	7.56	192	5,669	25,217	11.90	5.40
1800.250.0100S	ERS	18.00	457	2.50 I.D.	64 I.D.	100	1.78	18	6.06	154	11.94	303	1,194	5,309	4.63	2.10
1800.250.0125S	ERS	18.00	457	2.50 I.D.	64 I.D.	125	2.23	22	6.69	170	11.30	287	1,413	6,290	5.75	2.60
1800.250.0150S	ERS	18.00	457	2.50 I.D.	64 I.D.	150	2.68	26	6.91	176	11.09	282	1,664	7,400	6.17	2.80
1800.250.0175S	ERS	18.00	457	2.50 I.D.	64 I.D.	175	3.13	31	7.22	183	10.78	274	1,887	8,392	6.83	3.10
1800.250.0200S	ERS	18.00	457	2.50 I.D.	64 I.D.	200	3.58	35	7.01	178	10.99	279	2,200	9,792	6.42	3.00
1800.250.0225S	ERS	18.00	457	2.50 I.D.	64 I.D.	225	4.02	39	7.28	185	10.72	272	2,411	10,725	7.27	3.30
Tender springs																
0175.250.0150	ERT	2.64	67	2.50 I.D.	64 I.D.	150	2.68	26	0.79	20	1.85	47	275	1,222	0.77	0.35
0175.250.0200	ERT	3.07	78	2.50 I.D.	64 I.D.	200	3.57	35	1.30	33	1.77	45	350	1,558	1.48	0.67
0175.250.0250	ERT	2.80	71	2.50 I.D.	64 I.D.	250	4.46	44	1.02	26	1.75	44	440	1,958	1.26	0.57
0175.250.0300	ERT	3.15	80	2.50 I.D.	64 I.D.	300	5.36	53	1.38	35	1.75	44	525	2,335	1.57	0.71
0225.250.0150	ERT	3.90	99	2.50 I.D.	64 I.D.	150	2.68	26	1.65	42	2.25	57	334	1,486	1.92	0.87
0225.250.0200	ERT	3.55	90	2.50 I.D.	64 I.D.	200	3.57	35	1.30	33	2.25	57	450	2,000	1.48	0.67
0225.250.0250	ERT	3.94	100	2.50 I.D.	64 I.D.	250	4.46	44	1.61	41	2.36	60	587	2,614	1.96	0.89
0225.250.0300	ERT	3.82	97	2.50 I.D.	64 I.D.	300	5.36	53	1.46	37	2.36	60	709	3,156	1.57	0.71
0350.250.0025	ERT	5.00	127	2.50 I.D.	64 I.D.	25	0.45	4	1.26	32	3.74	95	94	416	1.04	0.47
0350.250.0050	ERT	5.00	127	2.50 I.D.	64 I.D.	50	0.89	9	1.38	35	3.62	92	182	809	1.17	0.53
0350.250.0075	ERT	5.00	127	2.50 I.D.	64 I.D.	77	1.37	13	1.38	35	3.62	92	272	1,210	1.56	0.71
0350.250.0100	ERT	4.72	120	2.50 I.D.	64 I.D.	100	1.78	18	1.17	30	3.56	90	355	1,580	1.23	0.56
Progressive tender springs																
0175.250.600-1300	ERP	3.55	90	2.50 I.D.	64 I.D.	600 / 1300	10.7 / 23.2	105 / 228	1.84	47	1.70	43	1,513	6,731	1.90	0.86
0200.250.1300	ERP	2.01	51	2.50 I.D.	64 I.D.	1,300	23.22	228	1.22	31	0.79	20	947	4,212	0.81	0.37
0200.250.175-550	ERP	4.25	108	2.50 I.D.	64 I.D.	175 / 550	3.13 / 9.82	31 / 96	2.20	56	2.05	52	739	3,287	2.42	1.10
0200.250.175-650	ERP	4.25	108	2.50 I.D.	64 I.D.	175 / 650	3.13 / 11.61	31 / 114	2.20	56	2.05	52	846	3,763	2.42	1.10
0200.250.250-550	ERP	3.46	88	2.50 I.D.	64 I.D.	250 / 550	4.46 / 9.82	44 / 95	1.50	38	1.97	50	877	3,900	1.81	0.82
0200.250.250-650	ERP	4.84	123	2.50 I.D.	64 I.D.	250 / 650	4.46 / 11.61	44 / 114	2.80	71	2.05	52	924	4,112	3.09	1.40