

FONDERA Limited  
 Unit 3, Tower Industrial Estate  
 Berinsfield  
 Wallingford  
 Oxon. OX10 7LN

MWO. 1



Tel: 01865 341 900  
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**PREMIUM GRADE VALVE SEAT INSERTS INDEXED BY OUTSIDE DIAMETER**

<u>W.T. NO</u>	<u>CUTTER SIZE</u>	<u>INSERT O.D. (D)</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W-5550		0.9450	0.7090		.276	45°
W-801B		1.0050	0.7500		.250	45°
W-5526		1.0986	0.7900		.282	
W-1149		1.1250	0.8750	7/8	1/4	45°
W-4284		1.1280	0.9500		.340	45°
W-4797+.005	1 1/8	1.1290	0.8780		.256	45°
W-4248	1 1/8	1.1300	0.6300		5/16	45°
W-771	1 1/8	1.1300	0.7500	3/4	1/4	45°
W-4095	1 1/8	1.1300	0.8268		.315	45°x.080
W-802	1 1/8	1.1300	0.8750	7/8	7/32	45°
W-803	1 1/8	1.1300	0.8750	7/8	5/16	45°
W-1848	1 1/8	1.1300	0.8750	7/8	1/4	45/R NTA
W-1181	1 1/8	1.1300	0.9375	15/16	1/4	45°
W-3198		1.1420	0.9060		.355	45°
W-2585		1.1460	0.8500		.285	45°
W-3712		1.1460	0.9000		.285	45°
W-3198+.030		1.1720	0.9060		.355	45°
W-1000+.005		1.1800	1.2000	1 1/2	1/4	
W-949	1 3/16	1.1920	0.9375	15/16	1/4	45°
W-1011	1 3/16	1.1920	1.0000	1.00	7/32	45°
W-4247	1 3/16	1.1930	0.6930		5/16	45°
W-868	1 3/16	1.1930	0.8750	7/8	1/4	45°
W-1792		1.1930	1.0000		1/4	
W-1746	1 3/16	1.1930	1.0313	1 1/32	3/16	45°
W-4256	1 3/16	1.1930	1.0625	1 1/16	1/4	45°
W-SPECF		1.1937/1.1932	1.0000			
W-3413		1.2090	0.9450 /1.06	15/16+	.276	45°
W-1974		1.2240	1.0160		.236	45°
W-2584		1.2330	1.0400		.285	45°
W-3713		1.2330	1.1000		.285	45°
W-5527		1.2350	1.0400		.282	
W-4283		1.2460	1.0660		.340	45°
W-3493	1 1/4	1.2550	0.7500	3/4	3/8	45°
W -628	1 1/4	1.2550	1.0000	1.00	1/4	45°
W -805	1 1/4	1.2550	1.0000	1.00	3/16	45°
W-1355	1 1/4	1.2550	1.0000	1.00	5/32	45°
W-2363	1 1/4	1.2550	1.0000		5/16	45°
W-1974B	1 1/4	1.2550	1.0160		.236	45°
W -628+.005		1.2600	1.0000	1.00	1/4	45°
W -805+.010		1.2650	1.0000		3/16	45°
W-4308		1.2650	1.0600		.272	45°x.060
W-4827		1.2700	0.8910		.160	45°
W-7000+.010		1.2720	0.9750		.250	30/R
W-1162+.020		1.2820	0.9750 /1.04		.250	30/R
W-3165		1.3050	1.0625	1 1/16	5/16	45°
W-3494	1 5/16	1.3170	0.8125	13/16	3/8	45°
W-4826	1 5/16	1.3170	0.9860		.160	45°
W -628A	1 5/16	1.3170	1.0000	1.00	1/4	45°
W-3526B	1 5/16	1.3170	1.0520		.354	45°
W-3165B	1 5/16	1.3170	1.0625	1 1/16	5/16	45°
W-2100B	1 5/16	1.3170	1.1250	1 1/8	1/4	45°
W-4096	1 5/16	1.3180	0.9646		.315	45°x.080



**PREMIUM GRADE VALVE SEAT INSERTS INDEXED BY OUTSIDE DIAMETER**

<u>W.T. NO</u>	<u>CUTTER</u> <u>SIZE</u>	<u>INSERT</u> <u>O.D. (D)</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W-1519	1 5/16	1.3180	1.0625	1 1/16	1/4	45°
W-1088B		1.3180	1.0938	1 3/32	1/4	45°
W-4309		1.3450	1.1400		.272	45°x.040
W-4239		1.3470	1.1200		.177	45°
W-1694		1.3520	1.0630 /1.13	1 1/16+	21/64	45/R
W-2360		1.3770	1.1250	1 1/8	.265	45°
W-4693 + .015		1.3780	0.9840		.394	
W-3495	1 3/8	1.3800	0.8750	7/8	3/8	45°
W-1010	1 3/8	1.3800	1.0000	1.00	.187	45°
W-1390	1 3/8	1.3800	1.0000		1/4	45/R
W-4026	1 3/8	1.3800	1.0000	1	5/16	45°
W -807	1 3/8	1.3800	1.0625	1 1/16	3/16	45°
W-3428	1 3/8	1.3800	1.0625	1 1/16	1/4	0°
W -550	1 3/8	1.3800	1.1250	1 1/8	3/16	45°
W-1714	1 3/8	1.3800	1.1250	1 1/8	1/4	45°
W-1759	1 3/8	1.3800	1.1563	1 5/32	1/4	45°
W-2400	1 3/8	1.3800	1.1875	1 3/16	1/4	45°
W-4794+.005		1.3950	1.1000 /1.240		.280	45°
W-4141		1.3980	1.1810		.236	45°
W-3709		1.4000	1.0880		5/16	45°
W-2318		1.4170	1.1800		.315	45°
W-3710		1.4250	1.1430		5/16	45°
W-2321		1.4380	1.0625	1 1/16	1/4	45°
W-2373	1 7/16	1.4420	1.0000		3/8	45°
W -538	1 7/16	1.4420	1.1875	1 3/16	1/4	45°
W-1089	1 7/16	1.4420	1.2500	1 1/4	7/32	45°
W-2412	1 7/16	1.4420	1.2500	1 1/4	1/4	45°
W -645	1 7/16	1.4430	1.1250	1 1/8	5/16	45°
W -798	1 7/16	1.4430	1.1250	1 1/8	7/32	45°
W -809	1 7/16	1.4430	1.1250	1 1/8	1/4	45°
W -560	1 7/16	1.4430	1.1875	1 3/16	7/32	45°
W-1302	1 7/16	1.4430	1.2188	1 7/32	11/32	45NTA CAT
W-1693		1.4690	1.1870 /1.25	1 3/16-1 1/4	5/16	45/R
W-3427		1.4960	1.1830		.356	45°
W-3352		1.4980	1.2190 /1.26	1 7/32+	.222	30/R*
W-3097		1.4985	1.2190 /1.26	1 7/32+	.222	45/R F YORK
W-3672		1.5000	1.1250	1 1/8	5/16	45°
W-5396		1.5010	1.1810		.315	45°
W-3427+.005		1.5010	1.1830		.356	45°
W-2378	1 1/2	1.5050	1.0000		5/16	45°
W-2380	1 1/2	1.5050	1.0000		3/8	45°
W-4155	1 1/2	1.5050	1.0240		.453	45°
W-3282B	1 1/2	1.5050	1.1030	1 7/64	.354	45°
W-1755	1 1/2	1.5050	1.1250 /1.25	1 1/8-1 1/4	1/4	45°/R
W-3458	1 1/2	1.5050	1.1250	1 1/8	1/4	45°
W -876	1 1/2	1.5050	1.1875	1 3/16	1/4	45°
W-1069	1 1/2	1.5050	1.1875	1 3/16	3/16	45°
W -626	1 1/2	1.5050	1.2500	1 1/4	3/16	45°
W-811	1 1/2	1.5050	1.2500	1 1/4	1/4	45°
W-1301	1 1/2	1.5050	1.2500 /1.30	1 1/4+	11/32	45/R*CAT
W-2416	1 1/2	1.5050	1.2500	1 1/4	5/16	45°
W-3918	1 1/2	1.5050	1.3000		.250	45°
W-4162	1 1/2	1.5050	1.3000		.472	45°

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**PREMIUM GRADE VALVE SEAT INSERTS INDEXED BY OUTSIDE DIAMETER**

<u>W.T. NO</u>	<u>CUTTER</u> <u>SIZE</u>	<u>INSERT</u> <u>O.D. (D)</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W-1148	1 1/2	1.5060	1.1875	1 3/16	5/16	45°
W-1148+.010		1.5150	1.1875	1 3/16	5/16	30°
W-3099		1.5185	1.2190 /1.26	1 7/32+	.242	45/R F YORK
W-2380+.020		1.5250	1.0000		5/16	45°
W-5357		1.5250	1.3000 /1.375		.260	45°
W-3352+.030		1.5290	1.2190 /1.26	1 7/32+	.222	30/R
W-4695+.014		1.5350	1.1810		.394	45°
W-3918+.030		1.5350	1.3000		.250	45°
W-3835		1.5550	1.2850		.281	45°x3/64
W-3942		1.5620	1.1870		.312	45°
W-4070		1.5630	1.1750		.400	45°
W-3496	1 9/16	1.5670	0.9375	15/16	3/8	45°
W-1886B	1 9/16	1.5670	1.1770 /1.28		.318	45/R*3A'
W-635	1 9/16	1.5670	1.2500	1 1/4	5/16	45°
W-2420	1 9/16	1.5670	1.2500	1 1/4	3/8	45°
W-989	1 9/16	1.5670	1.3750	1 3/8	1/4	45°
W-4025	1 9/16	1.5670	1.3750	1 3/8	.313	45°
W-4255	1 9/16	1.5680	1.1870		.305	45°
W-545	1 9/16	1.5680	1.1875	1 3/16	7/32	45°
W-502	1 9/16	1.5680	1.2500	1 1/4	1/4	45°
W-593	1 9/16	1.5680	1.2500	1 1/4	3/16	45°
W-1095	1 9/16	1.5680	1.3125	1 5/16	1/4	30°
W-1216	1 9/16	1.5680	1.3125	1 5/16	5/16	45°
W-4140		1.5940	1.3380		.295	45°
W-4761		1.6010	1.3385		.3175	45°
W-4073		1.6150	1.3900		5/16	45°
W-1655		1.6170	1.3750	1 3/8	5/16	45°
W-3426		1.6240	1.2970		.425	45°
W-585	1 5/8	1.6290	1.2800 /1.4	1 9/32+	5/16	45/R*
W-3497	1 5/8	1.6300	1.0000	1.00	3/8	45°
W-546	1 5/8	1.6300	1.2500	1 1/4	7/32	45°
W-964	1 5/8	1.6300	1.2500	1 1/4	1/4	45°
W-504	1 5/8	1.6300	1.3125	1 5/16	1/4	45°
W-1216A	1 5/8	1.6300	1.3125		.3125	45°
W-531	1 5/8	1.6300	1.3750	1 3/8	1/4	45°
W-4538	1 5/8	1.6300	1.3750	1 3/8	.250	30°x.050
W-2464	1 5/8	1.6300	1.4375	1 7/16	1/4	45°
W-2456	1 5/8	1.6303	1.3752	1 3/8	5/16	45°
W-3414	1 5/8	1.6310	1.2813	1 9/32	5/16	45°
W-2053		1.6350	1.3200		.350	45°
W-2317		1.6500	1.2600		3/8	45°
W-5330		1.6500	1.3500		.375	30/R
W-5468		1.6500	1.3500		.375	
W-1316		1.6560	1.3125 /1.3	1 5/16-1 1/2	.397	45/R
W-1699		1.6810	1.2031	1 13/64	5/16	45°
W-3430		1.6810	1.2880		.373	45°
W-4069		1.6850	1.3750		.475	45°
W-5839		1.6850	1.3750		.315	30/R
W-3430+.005		1.6860	1.2880		.373	45°
W-2482		1.6875	1.5000	1 1/2	.250	45°
W-1698	ACT	1.6900	1.2500	1 1/4	3/8	-/R*STEP
W-2423+.060	ACT	1.6900	1.2500	1 1/4	3/8	45°
W-3498	1 11/16	1.6920	1.0625	1 1/16	3/8	45°
W-1290	1 11/16	1.6920	1.3125	1 5/16	5/16	45°



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<u>W.T. NO</u>	<u>CUTTER</u> <u>SIZE</u>	<u>INSERT</u> <u>O.D. (D)</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W -684	1 11/16	1.6920	1.3750	1 3/8	1/4	30°
W-1084	1 11/16	1.6920	1.4375	1 7/16	5/16	45°
W-1017	1 11/16	1.6930	1.2500	1 1/4	1/4	45°
W-4151	1 11/16	1.6930	1.2600		.450	45°
W-1933	1 11/16	1.6930	1.3750 /1.5	1 3/8-1 1/2	3/8	45/R
W-4074	1 11/16	1.6930	1.4180		.354	45°
W -509	1 11/16	1.6930	1.4375	1 7/16	1/4	45°
W-1061	1 11/16	1.6930	1.4375 /1.5	1 7/16-1 1/2	3/8	45/R*CAT
W-1061+.010		1.7020	1.4375 /1.5	1 7/16-1 1/2	3/8	45°
W-2087		1.7060	1.3750 /1.47	1 3/8+	3/8	SPEC/R
W-1061+.020		1.7120	1.4375 /1.5	1 7/16-1 1/2	3/8	45/R
W-3836		1.7150	1.3750		.281	45°x3/64
W-1061+.030		1.7220	1.4375 /1.5	1 7/16-1 1/2	3/8	45/R
W-1937		1.7350	1.3440 /1.44	1 11/32+	3/8	45/R
W-3708		1.7400	1.4600		5/16	45°
W-4893		1.7500	1.3750		.400	45°
W-3499	1 3/4	1.7550	1.1250	1 1/8	3/8	45°
W-2427	1 3/4	1.7550	1.2500	1 1/4	7/32	45°
W-2428	1 3/4	1.7550	1.2500	1 1/4	5/16	45°
W-1290A	1 3/4	1.7550	1.3125	1 5/16	5/16	45°
W-3092	1 3/4	1.7550	1.3438	1 11/32	.395 NT	45/R VOLVO
W -611	1 3/4	1.7550	1.3750	1 3/8	1/4	45°
W -640	1 3/4	1.7550	1.3750	1 3/8	3/8	45°
W -701	1 3/4	1.7550	1.3750	1 3/8	1/4	30°
W -886	1 3/4	1.7550	1.4375	1 7/16	5/16	45°
W-1453	1 3/4	1.7550	1.4375 /1.5	1 7/16-1 1/2	3/16	45/R
W-1719A	1 3/4	1.7550	1.4375	1 7/16	3/8	45°
W-2470	1 3/4	1.7550	1.4375	1 7/16	7/16	45°
W -508	1 3/4	1.7550	1.4750	1 7/16	1/4	45°
W-1000	1 3/4	1.7550	1.5000	1 1/2	1/4	45°
W-2494	1 3/4	1.7550	1.5625	1 9/16	1/4	45°
W-1770B	1 3/4	1.7560	1.3750 /1.5	1 3/8-1 1/2	3/8	45/R
W-1148+.254		1.7590	1.1875	1 3/16	5/16	45°
W-3260B+.020		1.7750	1.3470		.272	45°
W-3711		1.7750	1.4100		5/16	45°
W-3436		1.7770	1.3440		.1919	45°
W-3448		1.7890	1.3528		.335	45°
W-3179		1.7926	1.5550		.256	45°
W-SPEC 2		1.8000	1.3600		.375	
W-SPEC FW063		1.8000	1.3700		.375	
W-5837		1.8000	1.5000		.375	45/R
W-3096		1.8040	1.4900 /1.58		.243	45/R F YORK
W-4755		1.8040	1.5000		.281	45°x.060
W -565		1.8125	1.5000		.250	45°
W-4755+.010		1.8140	1.5000		.281	45°x.060
W-3757	1 13/16	1.8170	1.2500	1 1/4	.375	45°
W-2447	1 13/16	1.8170	1.3438	1 11/32	1/4	45°
W-3359	1 13/16	1.8170	1.4840	1 31/64	1/4	45°
W-3179B	1 13/16	1.8170	1.5550		.256	0°
W-1657	1 13/16	1.8170	1.5938	1 19/32	5/16	45°
W-3425	1 13/16	1.8180	1.3125	1 5/16	5/16	45°
W-1166	1 13/16	1.8180	1.3750	1 3/8	1/4	45°
W -820	1 13/16	1.8180	1.4375	1 7/16	1/4	45°
W -513	1 13/16	1.8180	1.5625	1 9/16	1/4	45°
W-1060	1 13/16	1.8180	1.5630 /1.62	1 9/16+	3/8	45/R*CAT



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<u>W.T. NO</u>	<u>CUTTER</u> <u>SIZE</u>	<u>INSERT</u> <u>O.D. (D)</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W-SPECB		1.8200	1.2700		.315	15/R
W-5838		1.8200	1.5200		.315	45/R
W-3098		1.8240	1.4900 /1.26		.263	45/R F YORK
W-1060+.010		1.8270	1.5630 /1.62	1 9/16+	3/8	45/R
W-3091		1.8340	1.4760 /1.52		.263	30/R VOLVO
W-1060+.020		1.8370	1.5630 /1.62	1 9/16+	3/8	45/R
W-4502		1.8400	1.4500		.550	45°
W-1060+.030		1.8470	1.5630 /1.62	1 9/16+	3/8	45/R
W-3446		1.8490	1.4760		.243	45°
W-1769-.032		1.8490	1.5000 /1.563	1 1/2-1 9/16	3/8	45/R
W-2314		1.8620	1.5000 /1.7	1 1/2+	.368	/R*
W-3750		1.8750	1.2500	1 1/4	.375	45°
W-SPECG		1.8750	1.4700		.315	
W-5118		1.8750	1.5700		.315	30°x.040
W-4760		1.8770	1.5680		.3175	30°
W-1787	1 7/8	1.8800	1.4063	1 13/32	7/32	45/R NTA
W-2478	1 7/8	1.8800	1.4375	1 7/16	3/8	45°
W-2479	1 7/8	1.8800	1.4375	1 7/16	7/16	45°
W-1106A	1 7/8	1.8800	1.5000 /1.530	1 1/2+	3/8	30R
W-1769	1 7/8	1.8800	1.5000 /1.563	1 1/2-1 9/16	3/8	45°
W-3450	1 7/8	1.8800	1.5000	1 1/2	.320	45°
W -997	1 7/8	1.8800	1.5625	1 9/16	7/16	30/R*?CAT
W -885	1 7/8	1.8800	1.5938	1 19/32	5/16	45°
W -514	1 7/8	1.8800	1.6250	1 5/8	1/4	45°
W-3395	1 7/8	1.8803	1.5004	1 1/2	.320	45°
W-4409	1 7/8	1.8810	1.3390		.433	45°x.080
W-4829	1 7/8	1.8810	1.5680		.340	30°
W-4094		1.8900	1.1810		.590	45°
W4673		1.8920	1.5000		5/16	30/R
W4674		1.8920	1.5000		5/16	45/R
W-5065		1.8930	1.5000 /1.590		.315	45°x.060
W-SPECA		1.9000	1.4000		.375/R	
W-5329		1.9000	1.6400		.375	30/R
W-2190		1.9000	1.6500		.285	45°
W-3447		1.9100	1.4732		.177	45°
W-1769+.032		1.9130	1.5000 /1.563	1 1/2-1 9/16	3/8	45/R
W-3572		1.9210	1.6910		.310	20/30/R
W-3294		1.9300	1.5750		.354	45°
W-4072		1.9300	1.6900		5/16	45°
W-3572+.010		1.9310	1.6910		.310	20/30/R
W-3087		1.9320	1.5750 /1.69		.450	45/R VOLVO
W-2271		1.9330	1.5250 /1.643		.312	-/R* STEP
W-SPECI		1.9370	1.0000		.2845	
W -738	1 15/16	1.9420	1.5000	1 1/2	3/8	45°
W-1156	1 15/16	1.9420	1.6250	1 5/8	5/16	45°
W -655	1 15/16	1.9420	1.6875	1 11/16	1/4	45°
W-2313	1 15/16	1.9420	1.7188	1 23/32	1/4	45°
W-2544	1 15/16	1.9420	1.7500	1 3/4	1/4	45°
W-3088		1.9520	1.5750		.470	45/R VOLVO
W-4754		1.9720	1.6560		.250	30°x.060
W-3833*		1.9760	1.6900		7/16	45°
W-4754+.010		1.9820	1.6560		.251	30°x.060
W-2191		2.0010	1.6750		.286	30°
W -512	2	2.0060	1.5625	1 9/16	1/4	45°
W-2504	2	2.0060	1.5625	1 9/16	3/8	30°



**PREMIUM GRADE VALVE SEAT INSERTS INDEXED BY OUTSIDE DIAMETER**

<u>W.T. NO</u>	<u>CUTTER</u>	<u>INSERT</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W -948	2	2.0060	1.6250	1 5/8	5/16	45°
W-1194	2	2.0060	1.6880 /1.73	1 11/16+	7/16	30/R*CAT
W-1889		2.0120	1.5780 /1.68	1 37/64+	3/8	45/R VOLVO
W-3570		2.0130	1.5700 /1.66		.45827	45/R
W-3431		2.0190	1.5840		.281	45°
W-1194+.020		2.0260	1.6880 /1.73	1 11/16+	7/16	30/R
W-SPECH		2.0300	1.6500		.315	
W-5117		2.0300	1.7800		.315	45°x.040
W-3094		2.0320	1.5780 /1.26	1 37/64+	.395	45/R VOLVO
W-1194+.030		2.0360	1.6880 /1.73	1 11/16+	7/16	30/R
W-4704		2.0470	1.6140		.394	45°
W-4498		2.0580	1.7250		.320	45°
W-SPECJ		2.0590	1.6250		.320	45° x .028
W-SPECL		2.0590	1.6800		.320	45° x .028
W-SPECK		2.0590	1.6900		.320	45° x .028
W-4498+.001		2.0590	1.7250		.320	45°
W-1195	2 1/16	2.0680	1.5000	1 1/2	37/64	45°
W -988A	2 1/16	2.0680	1.6250	1 5/8	3/8	45°
W-5530		2.0680	1.6830		.320	
W-1159	2 1/16	2.0680	1.6875	1 11/16	1/4	45°
W -979	2 1/16	2.0680	1.7500	1 3/4	9/32	45°
W -988A+.010		2.0780	1.6250	1 5/8	3/8	45°
W -979+.010		2.0780	1.7500	1 3/4	9/32	45°
W-5528B		2.0800	1.7000		.315	
W-5528		2.0800	1.7800		.315	45°
W-SPECC		2.0840	1.6000		.315	
W-5383		2.0900	1.7350		.400	30°x .1
W-4901		2.0920	1.6900 /1.850		.392	45°x.090
W-4958		2.0920	1.6900		.360	45°x.090
W-1195+.030		2.0980	1.5000		37/64	
W-2315		2.1260	1.5750		.315	45°
W-5383+.040	2 1/8	2.1300	1.7350		.400	30°x.100
W-1892	2 1/8	2.1300	1.7500	1 3/4	17/64	30/RNTA VOLVO D
W-1042	2 1/8	2.1310	1.6300 /1.73	1 5/8+	5/16	45/R.13GMC
W-1157A	2 1/8	2.1310	1.6875	1 11/16	5/16	30°
W-1416	2 1/8	2.1310	1.8130 /1.86	1 13/16+	7/16	30/R*CAT
W-SPEC 1		2.1500	1.7400		.375	
W-3093		2.1500	1.7500	1 3/4	.285	NT 30/R VOLVO
W-SPECE		2.1500	1.7500	TAPERED		
W-1416+.020		2.1510	1.8130	1 13/16	7/16	30/R
W-1416+.030		2.1610	1.8130 /1.86	1 13/16+	7/16	30/R
W-3571		2.1630	1.8780	CHOKE 1.915 LID	.310	18/RAD
W-3571+.010		2.1730	1.8780	CHOKE 1.920 LID	.310	18/RAD
W-2561+.007		2.2000	1.8125	1 13/16	7/16	45°
W-3143		2.2050	1.6970		.339	NT 30/R 680 EX
W-SPECD		2.2050	1.8750		.313	30°
W-3764		2.2140	1.6950		.350	30°x1/16
W-2557	2 1/4	2.2560	1.7500	1 3/4	5/16	45°
W-1651	2 1/4	2.2560	1.8750	1 7/8	5/16	45°
W-SPEC		2.2560	1.8750		.375	
W-2267		2.2880	1.8130 /1.92	1 13/16+	.345	-/R '3A'
W -606	2 5/16	2.3180	1.7500	1 3/4	1/4	30°
W-2557+.062	2 5/16	2.3180	1.7500	1 3/4	5/16	45°
W-1163A	2 5/16	2.3180	1.8125	1 13/16	3/8	45°



**PREMIUM GRADE VALVE SEAT INSERTS INDEXED BY OUTSIDE DIAMETER**

<u>W.T. NO</u>	<u>CUTTER SIZE</u>	<u>INSERT O.D. (D)</u>	<u>I.D. (D)</u>	<u>I.D. (F)</u>	<u>DEPTH</u>	<u>ANGLE</u>
W-2305		2.3340	1.9060	/1.997	STEP	.275 20/R 680 INL
W-3765		2.3440	1.9000			.275 30/R
W -606+.030		2.3480	1.7500	1 3/4	1/4	30°
W-4892		2.3620	1.8750			.385 20°
W-4892B		2.3660	1.8750			.385 45°
W-4500		2.3750	1.6250			.400 45°
W -517	2 3/8	2.3810	1.6563	1 21/32	11/32	30°
W -516	2 3/8	2.3810	1.7812	1 25/32	11/32	30/RNT
W-5525		2.4060	1.9300			.350
W-3449	2 7/16	2.4430	2.0000	2		.312 45°
W -637	2 1/2	2.5060	2.0000	2	1/2	45°*CAT
W -794	2 1/2	2.5060	2.0600	/2.13 2 1/16+	1/2	45/R*CAT
W -977A	2 1/2	2.5060	2.1250	2 1/8	5/8	30°R
W -794+.010		2.5160	2.0600	/2.13 2 1/16+	1/2	45/R
W-4989		2.5210	1.8900			.335 45°x.040
W -637A	2 9/16	2.5680	2.0000	2	1/2	45°
W-1255	2 9/16	2.5680	2.1870	2 3/16	1/4	30°
W -978A	2 5/8	2.6310	2.2818	2 9/32	5/8	30°R
W-4249		2.7560	2.1250	2 1/8	3/8	45°
W-3815		2.8810	2.4370			.312 45°x.187
W-4891		2.8900	2.3400			.275 30°
W-2328		2.9140	2.4810			.315 45°
W -685	3	3.0050	2.5000	2 1/2	3/8	30°
W-1190	3	3.0060	2.3750	2 3/8	3/8	45°
W -651B	3 1/16	3.0680	2.3750	2 3/8	9/16	45°
W-3943	3 1/16	3.0680	2.3750	2 3/8	1/2	45°
W-3916	3 1/4	3.2550	2.7500	2 3/4	.375	45°
W-3814		3.4120	2.9370			.312 30°x.156
W -648		3.4390	2.8750	2 7/8	7/8	45/R*?
W-2599		3.5660	3.1250	3 1/8	3/8	45/R NTA
W-3944		3.5680	2.8750	2 7/8	1/2	45°
W -676A	3 3/4	3.7560	3.1250	3 1/8	7/16	45°
W-2603		3.8050	3.2280			.394 45/R
W-2604		3.8050	3.2280			.366 30/R
W-3488		5.2755	4.5280			.472 30/R?
W-3429		5.5300	4.3750	4 3/8	11/16	30/R NTA
W-3429+.030		5.5600	4.3750	4 3/8	11/16	30/R NTA
W-4156		5.6440	4.5280			.394 /R

x.187 or x 3/16" indicates seat width

/R = Inserts made to Original Specs frequently with throat

Premium grade inserts may be ordered in plus .005", .010", .015", .020", and .030".

Recommended for all critical engine applications such as propane, butane, natural gas, no-lead, low-lead, super charged diesels, high performance engines, engines with emission control devices, and light alloy cylinder heads.