

GROUP A — PLAIN ROUND

S I Z E S E C T I O N

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.250" (1/4") SHAFT					
.499	.505	.187	S	343104	34
.750	.758	.250	S	350435	35
.312" (5/16") SHAFT					
.500	.506	.125	S	340826	34
.625	.635	.175	S	240698	24
.750	.756	.250	S	350364	35
.999	1.003	.375	S	470195	47
.375" (3/8") SHAFT					
.687	.691	.156	S	311189	31
.749	.754	.250	S	330385	33
.749	.756	.250	S	340385	34
.836	.840	.187	N	474279N	47
.874	.878	.250	S	473096	47
.999	1.003	.230	S	471103	47
.437" (7/16") SHAFT					
.624	.630	.125	S	343101	34
.836	.840	.187	S	444258	44
.875	.880	.250	S	472810	47
.999	1.007	.250	S	6863S	35
1.124	1.128	.250	S	474277	47
.468" (15/32") SHAFT					
1.124	1.126	.375	S	470004	47
.500" (1/2") SHAFT					
.687	.693	.093	S	342805	34
.750	.756	.125	S	340847	34
.843	.847	.250	S	312196	31
.875	.879	.187	S	330699	33
.875	.881	.125	S	342613	34
.999	1.003	.250	S	471442	47
.999	1.003	.250	V	471442V	47
1.124	1.128	.250	S	471526	47
1.250	1.254	.250	S	471472	47
1.375	1.379	.250	S	471549	47
.531" (17/32") (14,00mm) SHAFT					
1.124	1.128	.312	S	471530	47
.562" (9/16") SHAFT					
.875	.879	.187	S	314259	31
1.000	1.004	.250	S	472705	47
1.124	1.128	.250	S	471281	47
1.250	1.254	.250	S	471535	47
1.375	1.379	.250	S	471551	47
.593" (19/32") SHAFT					
1.124	1.128	.312	S	471532	47
1.250	1.254	.312	S	473405	47
1.375	1.379	.312	S	471558	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.625" (5/8") SHAFT					
.812	.818	.093	S	340387	34
.875	.879	.125	S	253747	25
.875	.881	.093	S	340849	34
.937	.945	.187	S	7399S	24
.999	1.003	.250	S	7188S	33
1.000	1.004	.125	N	314267N	31
1.124	1.128	.250	S	471466	47
1.124	1.128	.250	V	471466V	47
1.124	1.135	.175	S	240009	24
1.250	1.254	.250	S	471264	47
1.375	1.379	.250	S	471255	47
1.375	1.379	.250	V	471255V	47
1.499	1.503	.250	S	471564	47
1.575	1.579	.312	S	471612	47
1.624	1.628	.312	S	471653	47
.656" (21/32") SHAFT					
1.124	1.128	.250	S	481528	48
1.250	1.254	.250	S	481537	48
1.375	1.379	.250	S	481073	48
1.575	1.579	.250	S	481397	48
.669" (17,00mm) SHAFT					
1.187	1.191	.185	S	481481	48
.687" (11/16") SHAFT					
1.124	1.128	.250	S	471529	47
1.187	1.191	.187	S	474261	47
1.250	1.254	.250	S	471538	47
1.375	1.379	.250	S	471553	47
1.499	1.503	.312	S	471579	47
1.624	1.628	.250	S	471642	47
.690" SHAFT					
.997	1.003	.295	S	3667	#
.718" SHAFT					
1.250	1.254	.375	S	470506	47
.750" (3/4") SHAFT					
1.000	1.004	.125	S	312518	31
1.124	1.128	.187	S	254270	25
1.125	1.131	.156	S	343185	34
1.250	1.254	.250	S	470954	47
1.250	1.254	.250	V	470954V	47
1.312	1.316	.250	S	480821	48
1.375	1.379	.250	S	471554	47
1.375	1.379	.250	V	471554V	47
1.499	1.503	.250	S	471567	47
1.561	1.565	.375	S	450340	45
1.575	1.579	.312	S	471498	47
1.624	1.628	.250	S	471643	47
1.752	1.756	.250	S	471684	47
1.874	1.878	.250	S	470390	47
2.047	2.051	.312	S	472649	47
2.127	2.131	.250	S	472538	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.781" (25/32") SHAFT					
1.250	1.254	.250	S	470601	47
1.375	1.379	.250	S	481443	48
1.499	1.503	.250	S	481568	48
1.624	1.628	.250	S	481644	48
1.828	1.832	.250	S	474273	47
.812" (13/16") SHAFT					
1.250	1.254	.250	S	471539	47
1.312	1.316	.250	S	480889	48
1.375	1.379	.312	S	471231	47
1.499	1.503	.250	S	474253	47
1.575	1.579	.375	S	450588	45
1.624	1.628	.250	S	471645	47
1.624	1.628	.250	V	471645V	47
2.441	2.445	.375	S	472950	47
.843" SHAFT					
1.374	1.378	.312	S	472452	47
1.828	1.832	.312	S	473415	47
.875" (7/8") SHAFT					
1.124	1.135	.125	S	240733	24
1.250	1.254	.250	S	254287	25
1.308	1.316	.250	S	340413	34
1.375	1.379	.187	S	440131	44
1.375	1.379	.250	S	471267	47
1.375	1.379	.250	V	471267V	47
1.499	1.503	.250	S	471570	47
1.499	1.503	.250	V	471570V	47
1.577	1.581	.250	S	471633	47
1.624	1.628	.250	S	471646	47
1.752	1.756	.250	S	470590	47
1.828	1.832	.375	S	471137	47
1.874	1.878	.250	S	471730	47
.906" (29/32") SHAFT					
1.499	1.503	.390	S	470207	47
.937" (15/16") SHAFT					
1.375	1.379	.312	S	471015	47
1.375	1.383	.250	S	340787	34
1.499	1.503	.250	S	471571	47
1.499	1.503	.250	V	471571V	47
1.624	1.628	.250	S	471647	47
1.750	1.754	.250	S	474252	47
1.828	1.832	.437	S	450039	45
.968" (31/32") SHAFT					
1.499	1.503	.312	S	451583	45
1.624	1.628	.250	S	471648	47
1.752	1.756	.250	S	471688	47
1.828	1.832	.437	S	450040	45
1.850	1.854	.375	S	482309	48
1.874	1.878	.437	S	451082	45
2.048	2.052	.375	S	482310	48
2.062	2.066	.437	S	450339	45
2.440	2.445	.375	S	472238	47
.984" (25,00mm) SHAFT					
1.499	1.503	.250	S	472324E	47
1.499	1.503	.250	V	472324V	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
.984" (25,00mm) SHAFT—CONT'D					
2.062	2.066	.437	S	450693	45
1.000" SHAFT					
1.250	1.260	.125	S	240731	24
1.312	1.318	.125	S	342517	34
1.375	1.379	.187	S	441130	44
1.375	1.379	.250	S	252277	25
1.437	1.441	.250	S	472311	47
1.437	1.441	.250	V	472311V	47
1.499	1.503	.250	S	471224	47
1.499	1.503	.250	V	471224V	47
1.499	1.507	.250	S	340120	34
1.561	1.565	.250	S	471270	47
1.575	1.579	.250	S	473380	47
1.624	1.628	.250	S	471649	47
1.624	1.628	.250	V	471649V	47
1.686	1.690	.250	S	474250	47
1.752	1.756	.250	S	40230S	4
1.752	1.756	.250	S	471689	47
1.752	1.756	.250	V	471689V	47
1.780	1.785	.468	S	204005	204
1.828	1.832	.296	S	450593	45
1.874	1.878	.250	S	471733	47
1.983	1.987	.250	S	471744	47
2.000	2.004	.250	S	471760	47
2.000	2.004	.250	V	471760V	47
2.047	2.051	.312	S	472138	47
2.062	2.066	.250	S	471619	47
2.441	2.445	.375	S	471516	47
2.533	2.537	.250	S	472539	47
1.031" (1-1/32") SHAFT					
1.575	1.579	.312	S	471076	47
1.575	1.579	.312	V	471076V	47
1.062" (1-1/16") SHAFT					
1.499	1.503	.312	S	480210	48
1.561	1.565	.375	S	450188	45
1.624	1.628	.250	S	471651	47
1.686	1.690	.375	S	470606	47
1.752	1.756	.312	S	471705	47
1.828	1.832	.375	S	473419	47
1.874	1.878	.250	S	471735	47
1.983	1.987	.437	S	450342	45
2.000	2.004	.250	S	471762	47
2.062	2.066	.375	S	473420	47
2.835	2.839	.375	S	472953	47
1.125" (1-1/8") SHAFT					
1.375	1.381	.125	S	340835	34
1.494	1.505	.250	S	340815	34
1.561	1.565	.250	S	472560N	47
1.624	1.628	.250	S	471652	47
1.624	1.628	.250	V	471652V	47
1.752	1.756	.250	S	471692	47
1.780	1.784	.250	S	204505	204
1.828	1.832	.312	S	476838	47
1.850	1.859	.312	S	350974	35
1.851	1.855	.437	S	453166	45
1.874	1.878	.250	S	470712	47
1.874	1.878	.250	V	470712V	47
1.983	1.987	.250	S	471747	47
2.000	2.004	.250	S	471763	47
2.000	2.004	.250	V	471763V	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.125" (1-1/8") SHAFT—CONT'D					
2.047	2.051	.312	S	472644	47
2.062	2.066	.250	S	471785	47
2.125	2.129	.250	S	481792	48
2.250	2.254	.500	S	450604	45
2.437	2.441	.468	S	450332	45
2.441	2.445	.250	S	473259	47
2.533	2.537	.250	S	472535	47
2.835	2.839	.375	S	472954	47
1.156" (1-5/32") SHAFT					
1.686	1.690	.250	S	474260	47
1.874	1.878	.250	S	471736	47
2.000	2.004	.250	S	471764	47
2.062	2.066	.375	S	473427	47
2.125	2.129	.437	S	450362	45
2.834	2.839	.375	S	472239	47
1.170" SHAFT					
2.031	2.035	.375	S	451182	45
1.187" (1-3/16") SHAFT					
1.687	1.691	.250	S	481213	48
1.752	1.756	.250	S	473203	47
1.828	1.832	.375	S	473425	47
1.874	1.878	.250	S	472475	47
1.983	1.987	.375	S	473426	47
2.000	2.004	.250	S	471765	47
2.062	2.066	.250	S	471354	47
2.125	2.129	.250	S	473205	47
2.165	2.169	.250	S	472350	47
2.250	2.254	.250	S	474255	47
2.437	2.441	.250	S	474254	47
2.441	2.445	.250	S	474256	47
2.686	2.690	.500	S	470946	47
1.218" SHAFT					
1.979	1.983	.406	S	203025	203
1.983	1.987	.437	S	450048	45
2.000	2.004	.437	S	450173	45
1.250" (1-1/4") SHAFT					
1.499	1.505	.125	S	343186	34
1.625	1.629	.250	S	251511	25
1.686	1.690	.250	S	474278	47
1.686	1.691	.250	V	473135V	47
1.686	1.697	.187	S	240356	24
1.750	1.754	.250	S	7412S@	48
1.752	1.756	.250	S	40140S	4
1.752	1.756	.250	S	471413	47
1.752	1.756	.250	V	471413V	47
1.874	1.878	.250	S	471737	47
1.979	1.983	.250	S	204507	204
1.979	1.983	.406	S	203029	203
1.983	1.987	.250	S	7781S	203
1.983	1.987	.250	S	471750	47
1.983	1.987	.250	V	471750V	47
2.000	2.004	.250	S	471766	47
2.000	2.004	.250	V	471766V	47
2.000	2.004	.290	S	200338	200
2.047	2.051	.375	S	473551	47
2.062	2.066	.250	S	471787	47
2.125	2.129	.250	S	471795	47
2.252	2.256	.375	S	471801	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.250" (1-1/4") SHAFT—CONT'D					
2.374	2.378	.375	S	471808	47
2.437	2.441	.375	S	471818	47
2.441	2.445	.375	S	471407	47
2.502	2.506	.375	S	471833	47
2.561	2.565	.500	S	451845	45
2.713	2.717	.468	S	450341	45
2.835	2.839	.468	S	470806	47
2.877	2.881	.250	S	472536	47
3.155	3.160	.500	S	453279	45
1.281" (1-9/32") SHAFT					
2.000	2.004	.375	S	473424	47
1.301" SHAFT					
2.000	2.004	.437	S	471193	47
1.312" (1-5/16") SHAFT					
1.874	1.878	.375	S	473423	47
1.983	1.987	.375	S	473422	47
2.000	2.004	.312	S	473210	47
2.062	2.066	.312	S	472826	47
2.106	2.110	.375	S	473421	47
2.125	2.129	.312	S	473211	47
2.250	2.254	.312	S	473212	47
2.374	2.378	.312	S	473213	47
2.835	2.839	.468	S	471904	47
1.322" SHAFT					
2.227	2.231	.375	S	484058	48
1.326" SHAFT					
2.061	2.065	.375	S	484054	48
1.375" (1-3/8") SHAFT					
1.750	1.756	.187	S	340853	34
1.828	1.834	.250	S	323138	32
1.874	1.878	.250	S	40395S	45S
1.874	1.878	.250	S	472354	47
1.874	1.879	.240	V	484156V	48
1.983	1.987	.312	N	482163N	48
2.000	2.004	.250	S	40522S	4
2.000	2.004	.312	S	472258	47
2.000	2.004	.312	V	472258V	47
2.062	2.066	.375	S	470774	47
2.106	2.110	.312	S	472287	47
2.125	2.129	.312	S	471192	47
2.250	2.254	.312	S	473214	47
2.374	2.378	.312	S	473215	47
2.437	2.441	.250	S	6241S	48
2.441	2.445	.375	S	471276	47
2.502	2.506	.375	S	471835	47
2.561	2.565	.375	S	473258	47
2.623	2.627	.375	S	472843	47
2.686	2.690	.500	S	450776	45
2.716	2.720	.468	S	450456	45
2.835	2.839	.312	S	473197	47
2.875	2.879	.468	S	471105	47
3.150	3.154	.375	S	471379	47
3.350	3.355	.468	S	450492	45

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.399" SHAFT					
2.292	2.296	.460	S	8660S@	48
1.437" (1-7/16") SHAFT					
2.061	2.066	.312	S	3395	47
2.125	2.129	.312	S	473224	47
2.250	2.254	.312	S	473016	47
2.312	2.316	.375	S	472655	47
2.374	2.378	.312	S	473225	47
2.437	2.441	.312	S	474264	47
2.502	2.506	.312	S	473226	47
2.686	2.690	.375	S	471862	47
3.000	3.005	.500	S	471405	47
1.468" (1-15/32") SHAFT					
2.375	2.378	.375	S	473438	47
2.437	2.441	.375	S	473439	47
1.500" (1-1/2") SHAFT					
1.874	1.878	.250	S	473099	47
1.874	1.880	.250	S	343099	34
1.983	1.987	.187	S	443018	44
1.983	1.987	.250	S	474276	47
1.989	1.993	.285	S	3677	#
2.000	2.004	.312	S	481163	48
2.000	2.010	.187	S	240319	24
2.048	2.052	.375	S	472466	47
2.062	2.066	.250	S	480630	48
2.125	2.129	.312	S	473227	47
2.222	2.226	.312	S	480844	48
2.250	2.254	.312	S	470625	47
2.250	2.254	.312	V	470625V	47
2.250	2.258	.250	S	340136	34
2.254	2.258	.312	S	453065	45
2.327	2.332	.406	S	203013	203
2.327	2.332	.406	S	204013	204
2.374	2.378	.250	S	40059S	4
2.375	2.378	.312	S	470380	47
2.375	2.378	.312	V	470380V	47
2.377	2.381	.470	S	9613S	#
2.437	2.441	.250	S	40063S	4
2.437	2.441	.375	S	471820	47
2.441	2.445	.375	S	471344	47
2.502	2.506	.312	S	473228	47
2.561	2.565	.500	S	410190	41
2.623	2.627	.250	S	41461S	4
2.623	2.627	.500	S	451857	45
2.686	2.690	.500	N	470487N	47
2.716	2.720	.468	S	450984	45
2.750	2.754	.312	S	473440	47
2.758	2.762	.312	S	474281	47
2.875	2.879	.468	S	450523	45
2.996	3.001	.500	S	450326	45
3.000	3.005	.375	S	471958	47
3.150	3.155	.500	S	472446	47
1.531" (1-17/32") SHAFT					
2.374	2.378	.375	S	452222	45
1.562" (1-9/16") SHAFT					
2.062	2.066	.250	S	8421S	33
2.125	2.129	.375	S	473517	47
2.250	2.254	.312	S	472213	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.562" (1-9/16") SHAFT—CONT'D					
2.374	2.378	.312	S	472299	47
2.437	2.441	.375	S	471821	47
2.441	2.445	.375	S	471827	47
2.502	2.506	.312	S	473229	47
2.561	2.565	.500	S	450143	45
2.623	2.627	.312	S	470682	47
2.686	2.690	.375	S	471316	47
2.750	2.754	.375	S	473441	47
2.758	2.762	.500	S	450273	45
2.875	2.879	.375	S	473442	47
3.150	3.155	.312	S	473490	47
1.578" SHAFT					
2.408	2.412	.500	S	450666	45
1.593" (1-19/32") SHAFT					
2.125	2.129	.250	S	481384	48
2.437	2.441	.468	S	450065	45
2.502	2.506	.250	S	482253	48
1.618" SHAFT					
2.575	2.579	.500	S	8835S@	33
1.625" (1-5/8") SHAFT					
2.000	2.004	.250	S	473694	47
2.116	2.120	.312	S	472419	47
2.125	2.129	.250	S	481181	48
2.250	2.254	.312	S	473230	47
2.327	2.332	.406	S	204017	204
2.374	2.378	.312	S	473231	47
2.437	2.441	.312	S	473367	47
2.441	2.445	.375	S	471829	47
2.502	2.506	.312	S	473010	47
2.562	2.566	.250	S	204500	204
2.562	2.566	.437	S	4763S	#
2.623	2.627	.312	S	473232	47
2.625	2.629	.250	S	40568S	4
2.686	2.690	.375	S	481864	48
2.750	2.754	.312	S	474274	47
2.835	2.839	.468	S	450819	45
2.875	2.879	.375	S	473444	47
3.000	3.004	.312	S	414268	41
1.656" (1-21/32") SHAFT					
2.937	2.941	.375	S	472660	47
1.687" (1-11/16") SHAFT					
2.328	2.332	.312	S	473317	47
2.374	2.378	.312	S	473233	47
2.437	2.441	.312	S	473445	47
2.502	2.506	.312	S	473234	47
2.561	2.565	.500	S	470460	47
2.623	2.627	.312	S	473235	47
2.650	2.650	.290	S	200886%	200
2.686	2.690	.312	S	474265	47
2.716	2.720	.468	S	450765	45
2.750	2.754	.312	S	473236	47
2.835	2.839	.468	S	470596	47
2.875	2.879	.375	S	473446	47
3.000	3.005	.375	S	471981	47
3.125	3.130	.500	S	470687	47

For Illustration and Material Data see Technical Section
 #—Special Construction-Details furnished on request @—Hydrodynamic Lip Design

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.718" (1-23/32") SHAFT					
2.561	2.565	.500	S	442251	44
2.623	2.627	.500	S	450068	45
1.750" (1-3/4") SHAFT					
2.250	2.254	.359	S	450400	45
2.250	2.258	.187	S	6703S	35
2.250	2.258	.250	S	340400	34
2.374	2.378	.250	S	204503	204
2.374	2.378	.312	S	473237	47
2.374	2.378	.312	V	473237V	47
2.437	2.441	.312	S	471504	47
2.441	2.445	.375	S	471831	47
2.449	2.453	.312	S	473157	47
2.502	2.506	.250	S	40494S	4
2.502	2.506	.312	S	472164	47
2.502	2.506	.312	V	472164V	47
2.561	2.565	.250	S	204502	204
2.561	2.566	.312	S	472193	47
2.565	2.569	.312	S	473796	47
2.623	2.627	.312	S	472185	47
2.686	2.690	.375	S	470334	47
2.716	2.721	.359	S	204038	204
2.718	2.722	.359	S	200354%	#
2.750	2.754	.312	S	472179	47
2.758	2.762	.375	S	473447	47
2.875	2.879	.375	S	471141	47
2.996	3.001	.375	S	473448	47
3.000	3.004	.250	S	204501	204
3.000	3.005	.375	S	471984	47
3.061	3.066	.375	S	473313	47
3.189	3.194	.437	S	470088	47
3.543	3.548	.500	S	455536	45
1.762" SHAFT					
2.409	2.416	.375	V	9845@	#
1.781" (1-25/32") SHAFT					
2.502	2.506	.312	S	452742	45
1.812" (1-13/16") SHAFT					
2.437	2.441	.468	S	451817	45
2.623	2.627	.375	S	472070	47
2.686	2.690	.375	S	471866	47
2.750	2.754	.375	S	473449	47
2.875	2.879	.375	S	473450	47
3.189	3.194	.437	S	450090	45
1.843" (1-27/32") SHAFT					
2.750	2.754	.375	S	473452	47
1.875" (1-7/8") SHAFT					
2.397	2.403	.250	S	353120	35
2.470	2.475	.437	S	472747	47
2.502	2.506	.312	S	473454	47
2.502	2.511	.250	S	340823	34
2.561	2.571	.312	S	350936	35
2.623	2.627	.312	S	472439	47
2.686	2.690	.375	S	471868	47
2.750	2.754	.250	S	42421S	4
2.750	2.754	.312	S	472572	47
2.758	2.762	.375	S	473179	47

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
1.875" (1-7/8") SHAFT—CONT'D					
2.782	2.786	.500	S	414045	41
2.835	2.839	.375	S	473455	47
2.875	2.879	.312	S	473238	47
2.996	3.001	.500	S	450084	45
3.000	3.005	.312	S	473239	47
3.061	3.066	.375	S	473457	47
3.125	3.130	.312	S	473240	47
3.189	3.194	.375	S	473458	47
3.251	3.256	.500	S	451078	45
3.371	3.376	.468	S	410524	41
1.937" (1-15/16") SHAFT					
2.412	2.416	.468	S	470409	47
2.437	2.441	.250	S	474269	47
2.502	2.506	.375	S	471195	47
2.561	2.565	.500	S	471854	47
2.623	2.627	.312	S	472319	47
2.686	2.690	.312	S	473459	47
2.750	2.754	.312	S	473241	47
2.758	2.762	.500	S	450279	45
2.875	2.879	.312	S	472144	47
2.996	3.001	.375	S	473460	47
3.000	3.005	.312	S	472394	47
3.061	3.066	.375	S	473461	47
3.125	3.130	.375	S	471391	47
3.189	3.194	.375	S	473462	47
3.543	3.548	.375	S	417474	41
1.940" SHAFT					
2.502	2.505	.250	S	6815	#
2.622	2.626	.580	S	5121@	#
1.968" (1-31/32") (50,00mm) SHAFT					
2.686	2.690	.500	S	450472	45
2.742	2.746	.500	N	450911N	45
2.875	2.879	.468	S	450474	45
2.000" SHAFT					
2.502	2.508	.250	S	352541	35
2.562	2.566	.220	S	8871	#
2.623	2.627	.260	S	4148	#
2.623	2.627	.312	S	471424	47
2.623	2.627	.312	V	471424V	47
2.686	2.690	.375	S	471870	47
2.713	2.717	.468	S	450446	45
2.716	2.720	.375	S	474272	47
2.746	2.750	.375	H	331107N	33
2.750	2.754	.312	S	472492	47
2.835	2.839	.375	S	472653	47
2.875	2.879	.312	S	472924	47
2.880	2.884	.375	S	472082	47
2.996	3.001	.375	S	470530	47
3.000	3.005	.312	S	472397	47
3.062	3.066	.250	S	204508	204
3.062	3.066	.375	S	473463	47
3.125	3.130	.312	S	473242	47
3.150	3.155	.375	S	412725	41
3.189	3.194	.375	S	473464	47
3.251	3.256	.437	S	412027	41
3.350	3.355	.468	S	412028	41
3.370	3.376	.468	S	410102	41
3.500	3.505	.500	S	415627	41
3.543	3.548	.500	S	455253	45
3.623	3.627	.250	S	204506	204

For Illustration and Material Data see Technical Section
 #—Special Construction-Details furnished on request @—Hydrodynamic Lip Design %—External Bore

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.062" (2-1/16") SHAFT					
2.875	2.879	.437	S	451948	45
2.996	3.001	.375	S	473466	47
3.000	3.005	.375	S	472012	47
3.061	3.066	.500	S	450307	45
3.190	3.194	.437	S	416738	41
3.623	3.628	.468	S	455260	45
2.125" (2-1/8") (54.00mm) SHAFT					
2.750	2.754	.375	S	473204	47
2.758	2.762	.437	S	471950	47
2.835	2.839	.468	S	450639	45
2.875	2.879	.250	S	40566S	4
2.875	2.879	.375	H	6879H	33
2.875	2.879	.375	S	470898	47
2.996	3.001	.375	S	473467	47
3.000	3.005	.312	S	8430S	#
3.000	3.005	.375	S	472015	47
3.061	3.066	.500	S	410308	41
3.125	3.130	.375	S	472016	47
3.189	3.194	.375	S	472409	47
3.251	3.256	.375	S	473243	47
3.350	3.355	.375	S	413469	41
3.371	3.376	.375	S	413470	41
3.500	3.505	.375	S	416267	41
3.543	3.548	.500	S	415349	41
3.623	3.628	.468	S	455080	45
2.156" (2-5/32") SHAFT					
3.189	3.194	.437	S	450621	45
2.180" SHAFT					
3.000	3.005	.495	S	8974S	49
2.187" (2-3/16") SHAFT					
2.835	2.839	.468	S	471952	47
2.875	2.879	.375	S	473244	47
2.996	3.001	.375	S	472234	47
3.000	3.005	.375	S	472018	47
3.062	3.066	.375	S	473471	47
3.189	3.194	.437	S	470354	47
3.251	3.256	.375	S	473245	47
3.350	3.355	.375	S	412943	41
3.371	3.376	.375	S	413472	41
3.500	3.505	.375	S	416268	41
3.623	3.628	.468	S	415350	41
2.250" (2-1/4") SHAFT					
2.875	2.879	.250	S	43034S	4
2.996	3.001	.437	S	471341	47
3.000	3.005	.250	S	40520S	4
3.000	3.005	.375	S	471272	47
3.061	3.066	.375	S	473473	47
3.125	3.130	.375	S	471138	47
3.189	3.194	.437	S	410737	41
3.251	3.256	.375	S	472636	47
3.350	3.355	.375	S	411253	41
3.371	3.376	.375	S	412920	41
3.371	3.376	.375	V	412920V	41
3.371	3.376	.375	S	442109	44
3.443	3.447	.250	S	41075S	4
3.500	3.505	.375	S	411376	41
3.543	3.548	.500	S	416270	41
3.623	3.628	.468	S	415234	41

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.250" (2-1/4") SHAFT—CONT'D					
3.751	3.756	.500	S	415259	41
4.003	4.008	.468	S	415254	41
2.296" SHAFT					
3.148	3.153	.359	S	204035	204
2.312" (2-5/16") SHAFT					
3.125	3.130	.375	S	472150	47
3.251	3.256	.375	S	411394	41
3.350	3.355	.375	S	410694	41
3.371	3.376	.468	S	450133	45
3.500	3.505	.375	S	416444	41
2.330" SHAFT					
2.997	3.001	.312	S	49363Z	49
2.375" (2-3/8") SHAFT					
2.996	3.000	.500	S	470764	47
3.000	3.005	.375	S	473573	47
3.061	3.066	.375	S	473474	47
3.125	3.130	.375	S	470565	47
3.189	3.194	.375	S	473475	47
3.251	3.255	.375	N	413246N	41
3.350	3.355	.250	S	44250Z	44
3.350	3.355	.375	S	412119	41
3.371	3.376	.375	S	413247	41
3.481	3.486	.437	S	410987	41
3.500	3.505	.375	S	416271	41
3.543	3.548	.375	S	412861	41
3.601	3.605	.437	S	415857	41
3.623	3.628	.375	S	410825	41
3.751	3.756	.500	S	416071	41
3.876	3.881	.375	S	417480	41
2.437" (2-7/16") SHAFT					
3.125	3.130	.375	S	471887	47
3.251	3.256	.437	S	412040	41
3.350	3.355	.375	S	411500	41
3.371	3.376	.375	S	413478	41
3.500	3.505	.375	S	411245	41
3.543	3.548	.375	S	417073	41
2.500" (2-1/2") SHAFT					
3.000	3.004	.250	S	40555S	4S
3.189	3.194	.375	S	472029	47
3.247	3.252	.500	S	410752	41
3.251	3.256	.375	S	471271	47
3.251	3.256	.375	V	471271V	47
3.303	3.307	.465	S	4250@	#
3.350	3.355	.468	S	410496	41
3.371	3.376	.375	S	470605	47
3.428	3.433	.375	S	473274	47
3.500	3.505	.250	S	444042	44
3.500	3.505	.375	S	415449	41
3.500	3.505	.375	V	415449V	41
3.543	3.548	.500	S	415001	41
3.623	3.628	.375	S	416273	41
3.751	3.756	.500	S	455079	45
3.876	3.881	.468	S	415082	41
4.003	4.008	.468	S	455655	45

For Illustration and Material Data see Technical Section

#—Special Construction—Details furnished on request @—Hydrodynamic Lip Design

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.556" SHAFT					
3.937	3.942	.375	S	476514	47
2.562" (2-9/16") SHAFT					
3.500	3.505	.375	S	415302	41
3.623	3.628	.375	S	415988	41
3.750	3.756	.375	S	417481	41
3.876	3.881	.468	S	455280	45
2.598" SHAFT					
3.481	3.486	.500	N	411330N	41
4.000	4.005	.500	S	477069	47
2.625" (2-5/8") SHAFT					
3.250	3.256	.437	S	451143	45
3.350	3.355	.375	S	412871	41
3.371	3.376	.375	S	413248	41
3.374	3.379	.468	S	410708	41
3.481	3.486	.500	S	450412	45
3.500	3.505	.375	S	415483	41
3.543	3.548	.375	S	417079	41
3.623	3.628	.375	S	415458	41
3.623	3.628	.375	V	415458V	41
3.751	3.756	.375	S	417343	41
3.876	3.881	.468	S	415007	41
4.003	4.008	.375	S	417082	41
4.249	4.254	.468	S	416278	41
4.437	4.441	.437	S	418027	41
4.564	4.568	.718	N	9773	#
2.687" (2-11/16") SHAFT					
3.500	3.505	.500	S	455434	45
3.751	3.756	.500	S	455151	45
3.876	3.881	.468	S	455008	45
2.750" (2-3/4") SHAFT					
3.481	3.486	.500	S	480491	48
3.500	3.505	.375	S	416664	41
3.538	3.543	.437	S	457291	45
3.543	3.547	.375	N	417484N	41
3.623	3.628	.375	S	415984	41
3.751	3.756	.375	S	417316	41
3.876	3.881	.375	S	415960	41
4.003	4.008	.375	S	416706	41
4.249	4.254	.468	S	416282	41
2.812" (2-13/16") SHAFT					
3.751	3.756	.500	S	455005	45
3.876	3.881	.437	S	417485	41
4.003	4.008	.468	S	475384	47
4.249	4.253	.468	S	411348	41
2.843" (2-27/32") SHAFT					
3.939	3.944	.495	S	2081@	41
2.875" (2-7/8") SHAFT					
3.623	3.628	.375	S	415303	41
3.751	3.756	.375	S	417344	41
3.875	3.880	.515	S	9864S&@	#
3.876	3.881	.375	S	417158	41
4.003	4.008	.375	S	416921	41
4.125	4.130	.375	S	417134	41

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/ Illus.
2.875" (2-7/8") SHAFT—CONT'D					
4.249	4.254	.500	S	416285	41
4.499	4.504	.468	S	455144	45
2.937" (2-15/16") SHAFT					
3.751	3.756	.375	S	416956	41
3.876	3.881	.375	S	417159	41
3.937	3.942	.500	S	416500	41
4.003	4.008	.375	S	416654	41
4.125	4.130	.375	S	417486	41
4.499	4.504	.468	S	455356	45
3.000" SHAFT					
3.751	3.756	.437	S	417349	41
3.876	3.881	.437	S	417350	41
3.999	4.004	.437	S	453182	45
4.003	4.008	.375	S	415995	41
4.003	4.008	.375	V	415995V	41
4.125	4.130	.437	S	417351	41
4.249	4.254	.437	S	417487	41
4.331	4.336	.500	S	415962	41
4.376	4.381	.500	S	417488	41
4.499	4.504	.468	S	415088	41
4.751	4.756	.625	S	416370	41
4.999	5.004	.468	S	455019	45
3.125" (3-1/8") (79,37mm) SHAFT					
4.003	4.008	.375	S	416404	41
4.125	4.129	.375	S	417621	41
4.249	4.254	.500	S	416288	41
4.375	4.381	.500	S	417171	41
4.500	4.506	.500	S	417172	41
4.626	4.631	.437	S	416297	41
4.751	4.756	.500	S	416024	41
4.999	5.004	.468	S	415021	41
5.251	5.256	.468	S	415394	41
3.187" (3-3/16") SHAFT					
4.249	4.254	.468	S	456105	45
4.499	4.504	.468	S	455336	45
3.250" (3-1/4") SHAFT					
4.003	4.007	.375	S	417433	41
4.125	4.130	.562	S	455566	45
4.249	4.254	.375	S	476470	47
4.376	4.381	.500	S	417181	41
4.500	4.504	.375	S	418028	41
4.626	4.632	.500	S	417353	41
4.723	4.729	.468	S	415577	41
4.751	4.756	.484	S	456305	45
4.999	5.004	.468	S	415023	41
3.312" (3-5/16") SHAFT					
4.125	4.130	.562	S	455500	45
4.249	4.254	.500	S	416292	41
4.376	4.381	.500	S	417491	41
4.499	4.504	.468	S	415085	41
4.751	4.756	.500	S	416313	41
3.375" (3-3/8") SHAFT					
4.125	4.129	.375	S	415442	41
4.249	4.254	.500	S	416294	41
4.376	4.380	.375	S	412473	41

For Illustration and Material Data see Technical Section

#—Special Construction-Details furnished on request @—Hydrodynamic Lip Design &—Flanged O.D.

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
3.375" (3-3/8") SHAFT—CONT'D					
4.500	4.506	.500	S	417191	41
4.626	4.632	.500	S	417354	41
4.688	4.693	.500	S	455249	45
4.999	5.004	.468	S	415025	41
3.437" SHAFT					
4.249	4.253	.375	S	418029	41
4.501	4.506	.375	S	417492	41
4.626	4.631	.500	S	417493	41
4.756	4.761	.562	S	455858	45
4.999	5.004	.468	S	455026	45
5.250	5.256	.468	S	455471	45
3.500" (3-1/2") SHAFT					
4.376	4.381	.500	S	416624	41
4.499	4.508	.250	S	345146	34
4.501	4.506	.468	S	415991	41
4.625	4.631	.500	S	417196	41
4.751	4.756	.500	S	415437	41
4.875	4.881	.500	S	417198	41
4.999	5.004	.468	S	415027	41
5.126	5.131	.500	S	417495	41
5.251	5.256	.468	S	415559	41
5.500	5.505	.500	S	417496	41
5.751	5.756	.562	S	455396	45
3.562" (3-9/16") SHAFT					
4.499	4.504	.468	S	415498	41
4.625	4.631	.500	S	415711	41
3.625" (3-5/8") SHAFT					
4.376	4.381	.375	S	417698	41
4.499	4.504	.468	S	415389	41
4.625	4.631	.437	S	416332	41
4.751	4.756	.500	S	415937	41
4.875	4.881	.500	S	417355	41
4.999	5.004	.500	S	416125	41
5.251	5.256	.437	S	417499	41
3.687" (3-11/16") SHAFT					
4.501	4.506	.500	N	416919N	41
4.750	4.756	.500	S	417501	41
3.750" (3-3/4") SHAFT					
4.499	4.506	.468	N	415983N	41
4.751	4.756	.500	S	415379	41
4.875	4.881	.500	S	417205	41
4.999	5.004	.500	S	416339	41
5.251	5.256	.468	S	415150	41
5.376	5.381	.500	S	416127	41
3.812" (3-13/16") SHAFT					
4.876	4.881	.500	S	417504	41
4.999	5.004	.468	S	455032	45
5.251	5.256	.468	S	455189	45
3.875" (3-7/8") SHAFT					
4.751	4.756	.375	S	417210	41
4.875	4.881	.500	S	417211	41
4.999	5.004	.500	S	416345	41
5.125	5.131	.500	S	415697	41

Hsg. Bore	Seal O.D.	Seal Width	Lip Mat'l	Part No.	Type/Illus.
3.875" (3-7/8") SHAFT—CONT'D					
5.250	5.256	.500	S	417366	41
5.376	5.381	.500	S	415958	41
5.501	5.506	.500	S	417505	41
3.937" (3-15/16") (100,00mm) SHAFT					
4.876	4.881	.625	S	455186	45
4.999	5.004	.468	S	415034	41
5.251	5.256	.468	S	455191	45
5.376	5.381	.500	S	415263	41
5.501	5.506	.500	S	417506	41
4.000" (101,60mm) SHAFT					
4.876	4.881	.625	S	415187	41
4.999	5.004	.468	S	415035	41
5.125	5.131	.500	S	417356	41
5.250	5.256	.500	S	417357	41
5.376	5.381	.500	S	416130	41
5.501	5.506	.562	S	415036	41
5.626	5.632	.375	S	417507	41
5.751	5.756	.562	S	415041	41
5.999	6.005	.500	S	417509	41
6.250	6.256	.500	S	417223	41
4.125" (4-1/8") SHAFT					
4.999	5.005	.468	S	455134	45
5.126	5.132	.500	S	417511	41
5.251	5.256	.468	S	415142	41
5.501	5.506	.500	S	417512	41
5.751	5.756	.562	S	415043	41
4.187" (4-3/16") SHAFT					
4.999	5.004	.468	S	415295	41
5.251	5.256	.468	S	455194	45
5.751	5.756	.500	S	417514	41
4.250" (4-1/4") SHAFT					
5.251	5.256	.375	S	472157	47
5.376	5.381	.500	S	415196	41
5.500	5.506	.500	S	416891	41
5.626	5.631	.500	S	416135	41
5.751	5.756	.562	S	415045	41
5.999	6.005	.500	S	416137	41
6.126	6.133	.500	S	417518	41
6.250	6.256	.562	S	415058	41
4.312" (4-5/16") SHAFT					
5.376	5.381	.500	S	456141	45
5.751	5.756	.500	S	417520	41
6.250	6.256	.500	S	417238	41
4.375" (4-3/8") SHAFT					
5.373	5.373	.570	N	7354N%	8
5.500	5.506	.500	S	416380	41
5.751	5.756	.562	S	415047	41
5.999	6.005	.500	S	416149	41
4.437" (4-7/16") SHAFT					
5.500	5.506	.562	S	457295	45
5.751	5.756	.500	S	417525	41

METRIC SECTION

Shaft Size	Hsg. Bore	Seal O.D.	Seal Width	Grp.	Part No.	Lip Mat'l	Type/ Illus.	Shaft Size	Hsg. Bore	Seal O.D.	Seal Width	Grp.	Part No.	Lip Mat'l	Type/ Illus.
6,00	16,00	16,28	7,00	A	6X16X7	S	35	19,00	40,00	—	10,00	A	19X40X10	S	35
6,00	22,00	—	7,00	A	6X22X7	S	35	20,00	30,00	30,28	7,00	A	20X30X7	S	35
7,00	16,00	16,28	7,00	A	7X16X7	S	32	20,00	32,00	32,23	7,00	A	20X32X7	S	35
7,00	22,00	—	7,00	A	7X22X7	S	35	20,00	35,00	35,23	7,00	A	20X35X7	S	35
8,00	16,00	16,23	7,00	A	8X16X7	S	35	20,00	37,00	—	8,00	A	20X37X8	S	35
8,00	22,00	—	7,00	A	8X22X7	S	35	20,00	37,00	37,20	10,00	A	20X37X10+	S	35
8,00	24,00	—	7,00	A	8X24X7	S	35	20,00	40,00	40,23	7,00	A	20X40X7	S	35
9,00	22,00	22,20	7,00	A	9X22X7	S	35	20,00	40,00	40,23	10,00	A	20X40X10	S	35
9,00	24,00	—	7,00	A	9X24X7	S	35	20,00	47,00	47,22	7,00	A	20X47X7	S	35
9,00	26,00	—	7,00	A	9X26X7	S	35	20,00	52,00	52,20	7,00	A	20X52X7	S	35
10,00	19,00	19,20	7,00	A	10X19X7	S	35	20,00	52,00	52,20	10,00	A	20X52X10+	S	35
10,00	22,00	—	7,00	A	10X22X7	S	35	22,00	32,00	32,23	7,00	A	22X32X7	S	35
10,00	24,00	24,23	7,00	A	10X24X7	S	35	22,00	35,00	35,23	7,00	A	22X35X7	S	35
10,00	26,00	26,23	7,00	A	10X26X7	S	32	22,00	37,00	37,23	7,00	A	22X37X7	S	35
11,00	17,00	—	4,00	A	11X17X4	S	35	22,00	40,00	40,15	10,00	A	22X40X10+	S	35
11,00	22,00	—	7,00	A	11X22X7	S	35	22,00	40,00	40,23	7,00	A	22X40X7	S	35
11,00	26,00	—	7,00	A	11X26X7	S	35	22,00	42,00	42,20	10,00	A	22X42X10+	S	35
12,00	20,00	—	5,00	A	12X20X5	S	35	22,00	45,00	45,23	7,00	A	22X45X7	S	35
12,00	22,00	22,25	7,00	A	12X22X7	S	35	22,00	47,00	47,23	7,00	A	22X47X7	S	35
12,00	24,00	24,23	7,00	A	12X24X7	S	32	24,00	35,00	35,23	7,00	A	24X35X7	S	35
12,00	28,00	28,20	7,00	A	12X28X7	S	35	24,00	37,00	37,23	7,00	A	24X37X7	S	35
12,00	30,00	30,20	7,00	A	12X30X7	S	35	24,00	40,00	40,23	7,00	A	24X40X7	S	35
12,00	32,00	—	7,00	A	12X32X7	S	35	24,00	42,00	—	8,00	A	24X42X8	S	35
12,00	32,00	32,23	8,00	A	12X32X8+	S	35	24,00	47,00	47,23	7,00	A	24X47X7	S	35
13,00	26,00	26,20	7,00	A	13X26X7	S	35	25,00	35,00	35,25	7,00	A	25X35X7	S	35
13,00	30,00	30,23	10,00	A	13X30X10+	S	35	25,00	36,00	36,23	7,00	A	25X36X7	S	35
14,00	24,00	24,23	7,00	A	14X24X7	S	35	25,00	38,00	38,23	7,00	A	25X38X7	S	35
14,00	25,00	—	5,00	A	14X25X5	S	35	25,00	40,00	40,22	7,00	A	25X40X7	S	35
14,00	26,00	26,23	7,00	A	14X26X7+	S	35	25,00	42,00	42,28	10,00	A	25X42X10	S	35
14,00	28,00	28,23	6,00	A	14X28X6	S	35	25,00	45,00	45,23	8,00	A	25X45X8	S	35
14,00	30,00	30,20	7,00	A	14X30X7	S	35	25,00	47,00	47,23	7,00	A	25X47X7	S	35
14,00	35,00	35,22	7,00	A	14X35X7	S	35	25,00	50,00	50,28	10,00	A	25X50X10	S	35
15,00	24,00	24,23	7,00	A	15X24X7	S	35	25,00	52,00	52,27	7,00	A	25X52X7	S	35
15,00	26,00	26,23	7,00	A	15X26X7	S	35	25,00	52,00	52,30	10,00	A	25X52X10+	S	35
15,00	30,00	30,23	7,00	A	15X30X7	S	35	25,00	62,00	62,28	10,00	A	25X62X10	S	35
15,00	32,00	32,22	8,00	A	15X32X8	S	35	26,00	37,00	37,30	7,00	A	26X37X7+	S	35
15,00	35,00	35,23	7,00	A	15X35X7	S	35	26,00	42,00	42,23	10,00	A	26X42X10	S	35
16,00	24,00	24,20	7,00	A	16X24X7	S	35	26,00	47,00	47,23	7,00	A	26X47X7	S	35
16,00	26,00	26,28	7,00	A	16X26X7+	S	35	26,00	48,00	48,23	7,00	A	26X48X7	S	32
16,00	28,00	28,23	7,00	A	16X28X7	S	35	27,00	—	47,00	10,00	A	*27X47X10	S	35
16,00	30,00	30,23	7,00	A	16X30X7	S	35	27,00	37,00	37,15	7,00	A	27X37X7	S	35
16,00	30,00	30,32	10,00	A	16X30X10+	S	35	27,00	42,00	42,23	10,00	A	27X42X10	S	35
16,00	32,00	32,28	7,00	A	16X32X7	S	35	27,00	45,00	45,25	8,00	A	27X45X8	S	35
16,00	35,00	35,20	10,00	A	16X35X10+	S	35	27,00	47,00	47,23	8,00	A	27X47X8	S	35
16,00	35,00	35,23	7,00	A	16X35X7	S	35	28,00	38,00	38,23	7,00	A	28X38X7	S	35
16,00	40,00	—	10,00	A	16X40X10+	S	32	28,00	40,00	40,26	7,00	A	28X40X7	S	35
17,00	28,00	28,23	7,00	A	17X28X7	S	35	28,00	42,00	42,23	8,00	A	28X42X8	S	35
17,00	30,00	30,23	7,00	A	17X30X7	S	35	28,00	44,00	—	6,00	A	28X44X6	S	32
17,00	30,00	30,23	10,00	A	17X30X10+	S	35	28,00	47,00	47,10	7,00	A	28X47X7	S	35
17,00	30,00	30,28	10,00	A	18X30X10+	S	35	28,00	47,00	47,10	8,00	A	28X47X8	S	33
17,00	32,00	32,22	7,00	A	17X32X7	S	35	28,00	52,00	52,23	7,00	A	28X52X7	S	35
17,00	35,00	35,18	7,00	A	17X35X7	S	35	30,00	40,00	40,23	7,00	A	30X40X7	S	35
17,00	40,00	40,23	7,00	A	17X40X7	S	35	30,00	42,00	42,20	7,00	A	30X42X7	S	35
18,00	28,00	28,28	6,00	A	18X28X6	S	35	30,00	44,00	44,28	7,00	A	30X44X7	S	32
18,00	30,00	30,23	7,00	A	18X30X7	S	35	30,00	45,00	45,22	5,00	A	30X45X5	S	32
18,00	32,00	32,22	8,00	A	18X32X8	S	35	30,00	47,00	47,25	7,00	A	30X47X7	S	35
18,00	35,00	35,18	7,00	A	18X35X7	S	35	30,00	48,00	48,28	8,00	A	30X48X8	S	35
18,00	40,00	40,22	7,00	A	18X40X7	S	35	30,00	50,00	50,23	7,00	A	30X50X7	S	35
19,00	32,00	32,20	7,00	A	19X32X7	S	35	30,00	52,00	—	7,00	A	30X52X7	S	35
19,00	35,00	35,23	10,00	A	19X35X10	S	35	30,00	55,00	55,28	10,00	A	30X55X10	S	35

For Illustration and Material Data see Technical Section

*—Not necessarily a stock item +—Planned Stock Addition

Shaft Size	Hsg. Bore	Seal O.D.	Seal Width	Grp.	Part No.	Lip Mat'l	Type/ Illus.	Shaft Size	Hsg. Bore	Seal O.D.	Seal Width	Grp.	Part No.	Lip Mat'l	Type/ Illus.
30,00	62,00	62,28	7,00	A	30X62X7	S	35	42,00	68,00	—	10,00	A	42X68X10	S	35
30,00	72,00	72,27	10,00	A	30X72X10	S	35	42,00	72,00	72,27	10,00	A	42X72X10	S	32
32,00	45,00	45,23	7,00	A	32X45X7	S	32	43,00	60,00	60,28	10,00	A	43X60X10+	S	35
32,00	46,00	46,23	6,00	A	32X46X6	S	32	44,00	60,00	60,20	10,00	A	44X60X10	S	35
32,00	47,00	47,23	7,00	A	32X47X7	S	35	44,00	62,00	—	8,00	A	44X62X8	S	48
32,00	48,00	48,20	8,00	A	32X48X8	S	35	44,00	65,00	—	10,00	A	44X65X10	S	35
32,00	50,00	50,23	8,00	A	32X50X8	S	35								
32,00	52,00	52,28	7,00	A	32X52X7	S	35	44,00	72,00	72,11	10,00	A	44X72X10	S	35
32,00	54,00	—	10,00	A	32X54X10	S	32	45,00	55,00	55,33	7,00	A	45X55X7+	S	35
32,00	55,00	55,28	10,00	A	32X55X10	S	35	45,00	58,00	—	7,00	A	45X58X7	S	35
								45,00	60,00	60,25	10,00	A	45X60X10	S	35
32,00	56,00	56,28	10,00	A	32X56X10	S	35	45,00	62,00	62,30	8,00	A	45X62X8	S	35
33,00	50,00	50,25	12,00	A	33X50X12	S	32	45,00	65,00	—	8,00	A	45X65X8	S	35
33,00	52,00	—	8,50	A	33X52X8.5	S	35	45,00	68,00	68,28	7,00	A	45X68X7	S	32
34,00	46,00	—	8,00	A	34X46X8	S	32	45,00	70,00	70,18	10,00	A	45X70X10+	S	32
34,00	52,00	52,28	8,00	A	34X52X8	S	35	45,00	72,00	—	12,00	A	45X72X12	S	35
34,00	58,00	58,28	13,00	A	34X58X13	S	35	45,00	72,00	72,28	7,00	A	45X72X7	S	35
34,00	62,00	62,18	10,00	A	34X62X10	S	35								
35,00	45,00	45,15	7,00	A	35X45X7	S	35	45,00	80,00	80,28	10,00	A	45X80X10	S	35
35,00	47,00	47,23	7,00	A	35X47X7	S	35	45,00	85,00	85,23	10,00	A	45X85X10	S	35
35,00	50,00	50,25	8,00	A	35X50X8	S	35	46,00	65,00	65,28	10,00	A	46X65X10+	S	35
								47,00	68,00	68,27	10,00	A	47X68X10	S	32
35,00	52,00	52,13	8,80	A	35X52X8	S	35	48,00	62,00	62,10	8,00	A	48X62X8	S	35
35,00	55,00	55,23	11,00	A	35X55X11	S	32	48,00	63,00	63,09	9,00	A	48X63X9	S	47
35,00	56,00	56,27	10,00	A	35X56X10	S	32	48,00	65,00	65,30	10,00	A	48X65X10	S	32
35,00	58,00	58,28	10,00	A	35X58X10	S	35	48,00	68,00	68,27	10,00	A	48X68X10	S	32
35,00	60,00	—	10,00	A	35X60X10	S	35	48,00	70,00	70,28	9,00	A	48X70X9	S	35
35,00	62,00	62,28	7,00	A	35X62X7	S	35	48,00	72,00	72,31	7,00	A	48X72X7	S	32
35,00	64,00	64,13	8,00	A	35X64X8	S	35								
35,00	68,00	—	10,00	A	35X68X10	S	35	50,00	62,00	62,28	7,00	A	50X62X7	S	35
35,00	72,00	72,28	10,00	A	35X72X10	S	35	50,00	65,00	65,28	8,00	A	50X65X8	S	32
36,00	47,00	47,20	7,00	A	36X47X7	S	35	50,00	68,00	68,28	8,00	A	50X68X8	S	35
								50,00	72,00	72,28	8,00	A	50X72X8	S	35
36,00	50,00	50,08	7,00	A	36X50X7	S	47	50,00	75,00	75,23	10,00	A	50X75X10	S	35
36,00	52,00	52,20	7,00	A	36X52X7	S	35	50,00	80,00	80,02	8,00	A	50X80X8	S	35
36,00	56,00	—	10,00	A	36X56X10	S	35	50,00	85,00	—	10,00	A	50X85X10	S	35
36,00	58,00	—	12,00	A	36X58X12	S	35	50,00	90,00	—	10,00	A	50X90X10	S	35
36,00	62,00	62,28	7,00	A	36X62X7	S	35	50,00	90,00	90,28	13,00	A	50X90X13+	S	35
36,00	68,00	68,28	10,00	A	36X68X10+	S	35	51,00	65,00	65,10	7,00	A	51X65X7	S	47
37,00	52,00	52,28	8,00	A	37X52X8	S	35								
38,00	52,00	52,25	8,50	A	38X52X8.5	S	32	52,00	65,00	65,30	9,00	A	52X65X9	S	35
38,00	54,00	54,18	7,00	A	38X54X7	S	48	52,00	68,00	68,30	8,00	A	52X68X8	S	35
38,00	54,00	54,18	10,00	A	*38X54X10	S	35	52,00	69,00	69,28	10,00	A	52X69X10	S	35
								52,00	70,00	70,20	10,00	A	52X70X10+	S	35
38,00	55,00	—	7,00	A	38X55X7	S	35	52,00	72,00	72,20	8,00	A	52X72X8	S	35
38,00	56,00	56,28	10,00	A	38X56X10	S	35	52,00	75,00	75,28	12,00	A	52X75X12	S	35
38,00	58,00	58,11	8,00	A	38X58X8	S	47	52,00	80,00	80,28	10,00	A	52X80X10	S	35
38,00	60,00	60,35	10,00	A	38X60X10	S	35	53,00	68,00	68,28	10,00	A	53X68X10	S	35
38,00	62,00	62,28	7,00	A	38X62X7	S	35	54,00	72,00	72,25	10,00	A	54X72X10	S	32
40,00	52,00	52,27	7,00	A	40X52X7	S	35	54,00	80,00	80,28	13,00	A	54X80X13+	S	35
40,00	55,00	55,28	8,00	A	40X55X8	S	35								
40,00	55,00	55,33	12,00	A	40X55X12+	S	35	54,00	82,00	82,35	10,00	A	54X82X10	S	32
40,00	58,00	58,28	10,00	A	40X58X10	S	32	54,00	85,00	—	10,00	A	54X85X10	S	32
40,00	60,00	60,20	10,00	A	40X60X10	S	35	55,00	68,00	—	8,00	A	55X68X8	S	32
								55,00	70,00	70,28	8,00	A	55X70X8	S	35
40,00	62,00	62,27	12,00	A	40X62X12	S	35	55,00	72,00	72,25	8,00	A	55X72X8	S	35
40,00	65,00	65,28	10,00	A	40X65X10	S	35	55,00	75,00	75,35	10,00	A	55X75X10	S	35
40,00	68,00	68,25	12,00	A	40X68X12	S	35	55,00	78,00	—	10,00	A	55X78X10	S	35
40,00	72,00	72,35	7,00	A	40X72X7	S	35	55,00	80,00	80,28	8,00	A	55X80X8	S	35
40,00	80,00	80,28	10,00	A	40X80X10	S	35	55,00	82,00	82,30	12,00	A	55X82X12	S	35
40,00	90,00	90,28	12,00	A	40X90X12+	S	32	55,00	85,00	85,31	10,00	A	55X85X10	S	35
41,00	55,00	55,29	7,00	A	41X55X7	S	32								
41,00	56,00	56,25	7,00	A	41X56X7	S	35	55,00	90,00	90,28	13,00	A	55X90X13	S	35
42,00	55,00	55,28	8,00	A	42X55X8	S	35	56,00	72,00	72,40	11,50	A	56X72X11.5	S	35
42,00	56,00	56,13	7,00	A	42X56X7	S	35	56,00	80,00	80,28	8,00	A	56X80X8	S	35
								56,00	85,00	—	8,00	A	56X85X8	S	35
42,00	58,00	—	7,00	A	42X58X7	S	48	57,00	72,00	72,20	10,00	A	57X72X10+	S	32
42,00	60,00	60,22	7,00	A	42X60X7	S	32	57,00	90,00	90,30	13,00	A	57X90X13+	S	35
42,00	62,00	62,27	8,00	A	42X62X8	S	35	58,00	72,00	72,28	8,00	A	58X72X8	S	35
42,00	65,00	65,15	10,00	A	42X65X10	S	47	58,00	75,00	75,28	11,00	A	58X75X11	S	35

For Illustration and Material Data see Technical Section
 *—Not necessarily a stock item +—Planned Stock Addition

Metric List Sizes & Type

NATIONAL®



Shaft Size	Hsg. Bore	Seal O.D.	Seal Width	Grp.	Part No.	Lip Mat'l	Type/ Illus.	Shaft Size	Hsg. Bore	Seal O.D.	Seal Width	Grp.	Part No.	Lip Mat'l	Type/ Illus.
58,00	80,00	80,28	8,00	A	58X80X8	S	35	95,00	125,00	—	12,00	A	95X125X12	S	35
58,00	85,00	—	10,00	A	58X85X10	S	35	95,00	130,00	130,28	12,00	A	95X130X12	S	35
58,00	90,00	—	10,00	A	58X90X10	S	35	98,00	120,00	120,20	13,00	A	98X120X13	S	35
60,00	72,00	—	8,00	A	60X72X8	S	35	100,00	115,00	—	9,00	A	100X115X9	S	35
60,00	75,00	75,28	8,00	A	60X75X8	S	35	100,00	120,00	120,28	12,00	A	100X120X12	S	35
60,00	80,00	80,20	8,00	A	60X80X8	S	35	100,00	125,00	125,28	12,00	A	100X125X12	S	35
60,00	82,00	82,30	12,00	A	60X82X12	S	32	100,00	130,00	130,28	12,00	A	100X130X12	S	35
60,00	85,00	85,28	8,00	A	60X85X8	S	35	100,00	140,00	140,23	13,00	A	100X140X13	S	35
60,00	90,00	90,27	10,00	A	60X90X10	S	35	102,00	130,00	—	13,00	A	102X130X13	S	35
60,00	95,00	95,28	13,00	A	60X95X13	S	35	104,00	125,00	—	10,00	A	104X125X10+	S	32
62,00	75,00	75,33	8,00	A	62X75X8+	S	35	105,00	125,00	—	13,00	A	105X125X13+	S	32
62,00	80,00	80,28	10,00	A	62X80X10	S	35	105,00	130,00	130,28	12,00	A	105X130X12	S	35
62,00	85,00	85,13	8,00	A	62X85X8	S	41	105,00	140,00	140,28	12,00	A	105X140X12	S	35
62,00	90,00	90,28	10,00	A	62X90X10	S	35	107,00	130,00	130,28	13,00	A	107X130X13+	S	35
63,00	85,00	85,28	10,00	A	63X85X10	S	35	108,00	130,00	130,25	13,00	A	108X130X13+	S	32
63,00	90,00	—	10,00	A	63X90X10	S	35	110,00	130,00	130,28	12,00	A	110X130X12	S	35
64,00	80,00	—	8,00	A	64X80X8	S	35	110,00	140,00	140,23	13,00	A	110X140X13	S	45
64,00	90,00	—	13,00	A	64X90X13	S	32	110,00	150,00	—	15,00	A	110X150X15+	S	32
65,00	80,00	80,28	8,00	A	65X80X8	S	35	112,00	140,00	140,32	13,00	A	112X140X13+	S	35
65,00	85,00	85,27	10,00	A	65X85X10	S	35	114,00	140,00	140,28	13,00	A	114X140X13	S	35
65,00	90,00	90,28	10,00	A	65X90X10	S	35	115,00	135,00	—	13,00	A	115X135X13+	S	32
65,00	100,00	100,28	10,00	A	65X100X10	S	35	115,00	140,00	140,28	12,00	A	115X140X12	S	35
68,00	90,00	90,32	10,00	A	68X90X10	S	35	115,00	150,00	150,28	12,00	A	115X150X12	S	35
68,00	100,00	100,28	13,00	A	68X100X13	S	35	120,00	140,00	140,28	13,00	A	120X140X13	S	35
70,00	85,00	85,28	8,00	A	70X85X8	S	35	120,00	145,00	145,28	12,00	A	120X145X12	S	35
70,00	88,00	88,25	8,00	A	70X88X8	S	48	120,00	150,00	150,28	12,00	A	120X150X12	S	35
70,00	90,00	90,32	10,00	A	70X90X10	S	35	120,00	160,00	160,28	12,00	A	120X160X12	S	35
70,00	95,00	95,28	13,00	A	70X95X13	S	35	125,00	150,00	150,28	12,00	A	125X150X12	S	35
70,00	100,00	100,28	13,00	A	70X100X13	S	35	125,00	160,00	160,28	12,00	A	125X160X12	S	35
70,00	105,00	105,20	13,00	A	70X105X13	S	35	128,00	150,00	150,28	15,00	A	128X150X15	S	35
72,00	95,00	95,28	10,00	A	72X95X10	S	35	130,00	160,00	160,27	12,00	A	130X160X12	S	35
72,00	100,00	100,31	12,00	A	72X100X12	S	35	130,00	170,00	170,28	15,00	A	130X170X15	S	35
74,00	100,00	—	13,00	A	74X100X13+	S	32	132,00	160,00	160,28	15,00	A	132X160X15+	S	35
75,00	90,00	—	10,00	A	75X90X10	S	35	135,00	160,00	—	12,00	A	135X160X12	S	35
75,00	95,00	95,28	10,00	A	75X95X10	S	35	135,00	170,00	170,38	12,00	A	135X170X12	S	35
75,00	100,00	100,27	12,00	A	75X100X12	S	32	135,00	175,00	175,38	15,00	A	135X175X15+	S	35
75,00	105,00	105,27	13,00	A	75X105X13	S	35	140,00	160,00	160,27	13,00	A	140X160X13	S	35
75,00	110,00	—	12,00	A	75X110X12	S	35	140,00	165,00	—	12,00	A	140X165X12+	S	32
75,00	115,00	—	13,00	A	75X115X13+	S	32	140,00	170,00	170,43	15,00	A	140X170X15	S	35
78,00	100,00	100,27	10,00	A	78X100X10	S	35	140,00	180,00	—	18,00	A	140X180X18	S	32
80,00	—	110,00	12,00	A	80X110X12	S	35	144,00	160,00	160,25	12,00	A	144X160X12	S	35
80,00	100,00	100,20	10,00	A	80X100X10	S	35	145,00	165,00	165,15	13,00	A	145X165X13+	S	32
80,00	105,00	105,27	13,00	A	80X105X13	S	32	145,00	170,00	170,45	12,00	A	145X170X12	S	35
80,00	105,00	105,27	14,00	A	80X105X14	S	32	145,00	175,00	175,38	15,00	A	145X175X15	S	35
80,00	110,00	110,28	10,00	A	80X110X10	S	35	145,00	180,00	—	12,00	A	145X180X12	S	35
80,00	120,00	—	13,00	A	80X120X13	S	35	148,00	170,00	—	15,00	A	148X170X15	S	35
82,00	105,00	—	12,00	A	82X105X12	S	35	150,00	170,00	—	15,00	A	150X170X15+	S	32
85,00	100,00	—	13,00	A	85X100X13+	S	32	150,00	180,00	180,35	12,00	A	150X180X12	S	35
85,00	105,00	—	10,00	A	85X105X10	S	35	155,00	180,00	180,23	15,00	A	155X180X15+	S	32
85,00	105,00	105,28	13,00	A	85X105X13	S	35	155,00	190,00	—	15,00	A	155X190X15	S	35
85,00	110,00	110,28	12,00	A	85X110X12	S	35	160,00	180,00	180,28	13,00	A	160X180X13+	S	35
85,00	115,00	115,32	13,00	A	85X115X13	S	35	160,00	185,00	185,35	10,00	A	160X185X10	S	35
85,00	120,00	120,28	12,00	A	85X120X12	S	35	160,00	190,00	—	15,00	A	160X190X15	S	35
88,00	110,00	—	12,00	A	88X110X12	S	35	165,00	—	190,00	13,00	A	*165X190X13	S	35
88,00	120,00	120,20	13,00	A	88X120X13+	S	32	170,00	190,00	—	15,00	A	170X190X15+	S	32
90,00	110,00	110,31	13,00	A	90X110X13	S	35	170,00	200,00	200,35	15,00	A	170X200X15	S	35
90,00	120,00	120,28	12,00	A	90X120X12	S	35	175,00	200,00	—	15,00	A	175X200X15	S	35
90,00	120,00	120,28	13,00	A	90X120X13+	S	35	180,00	200,00	—	15,00	A	180X200X15	S	35
90,00	125,00	125,28	13,00	A	90X125X13+	S	35	180,00	200,00	—	16,00	A	180X215X16+	S	32
92,00	120,00	120,24	13,00	A	92X120X13	S	35	180,00	210,00	210,35	15,00	A	180X210X15	S	35
95,00	—	115,00	13,00	A	*95X115X13	S	35	185,00	210,00	210,35	13,00	A	185X210X13	S	35
95,00	115,00	—	12,00	A	95X115X12	S	35	185,00	215,00	215,22	16,00	A	185X215X16+	S	32
95,00	120,00	120,28	12,00	A	95X120X12	S	35	190,00	220,00	220,35	16,00	A	190X220X16	S	35
								190,00	230,00	—	13,00	A	190X230X13	S	32

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