

U.S. SEAL MFG.

VALUE GUARD INCH



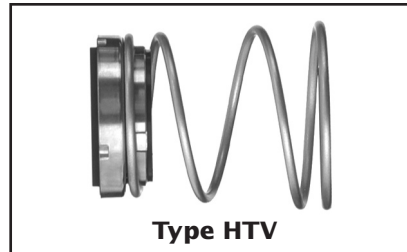
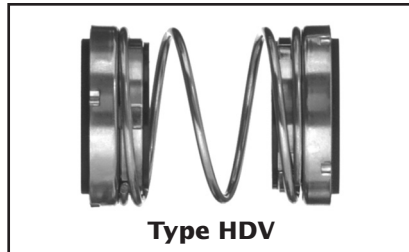
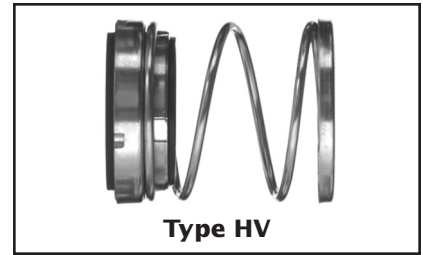
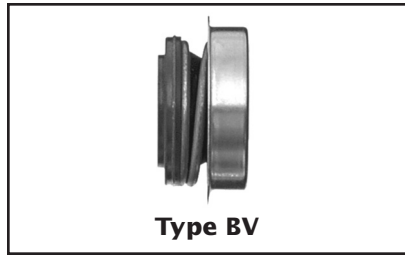
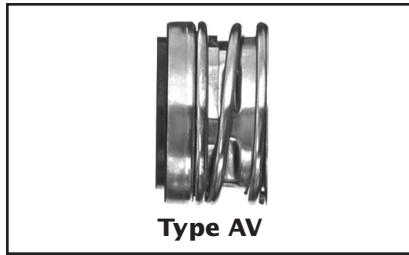
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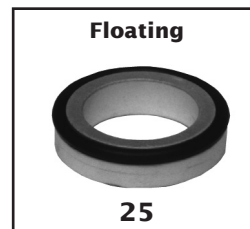
DEMAND QUALITY . . .

DEMAND U.S. SEAL MFG.

HEAD TYPES

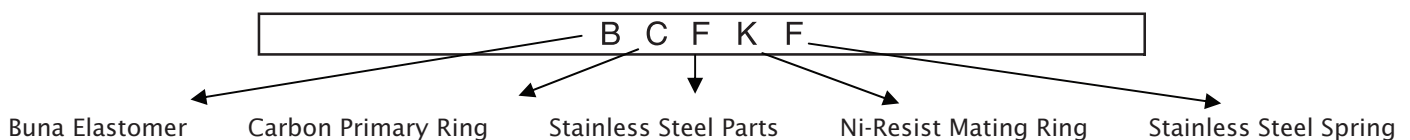


MATING RING DESIGNS



MATERIAL CODE

SECONDARY SEALS	PRIMARY RINGS	METAL PARTS	MATING RINGS	SPRINGS
B. Buna	C. Carbon	F. Stainless Steel	J. Ceramic	F. Stainless Steel
Q. EPR	L. Silicon Carbide		K. Ni-Resist	
V. Viton®	M. Molded Plastic		L. Silicon Carbide	
X. AFLAS®				



See Pages 168-177 for the Value Guard Metric Line.

INCH

SEAL HEAD			MATING RING			Material Code	NOTES	Value Guard Part No.
Fig.	OD	Oper Hgt.	Fig.	Bore	Thick			
.500 (1/2")								
AV	.928	.656	1	1.000	.312	BMFJF		VG-162
BV	1.125	.537	—	—	—	BMF-F		VG-150
BV	1.125	.537	1	1.000	.218	BMFJF		VG-142
BV	1.125	.537	1	1.000	.312	BMFJF		VG-163
HV	.898	.718	1	.938	.225	BCFJF		VG-392
HV	.898	.718	1	.938	.225	VCFJF		VG-392V
HV	.898	.812	1	1.000	.312	BCFJF		VG-1002
HV	.898	.812	1	1.000	.312	BCFKF		VG-106
HV	.898	812	1	1.000	.312	VLFLF		VG-30750
HV	.937	.625	1	.938	.225	QLFLF		VG-3920
Special	.945	.812	1	1.000	.312	BLFLF		VG-3909
.625 (5/8")								
AV	1.200	.718	Special	—	—	BMFJ/MF	G	VG-2131
AV	1.200	.718	1	1.084	.175	BMFJF		VG-21084
AV	1.200	.718	1	1.187	.288	BMFJF		VG-702
AV	1.200	.718	1	1.187	.288	BMFKF		VG-701
AV	1.200	.718	1	1.187	.343	BMFJF		VG-100
AV	1.200	.718	1	1.187	.343	VCFJF		VG-100V-CMS
AV	1.200	.718	3	1.187	.343	VCFJF		VG-100V
AV	1.200	.718	1	1.250	.406	BCFJF		VG-516
AV	1.200	.718	1	1.250	.406	BMFJF		VG-200
AV	1.200	.718	1	1.250	.406	BMFJF		VG-300
AV	1.200	.718	1	1.250	.406	VCFJF		VG-200V-CMS
AV	1.200	.718	3	1.250	.406	VCFJF		VG-200V
AV	1.200	.718	1	1.375	.562	BMFJF		VG-528
AV	1.200	.718	3	1.437	.312	BMFJF		VG-2014
AV	1.200	.718	14	.815	.312	BMFKF		VG-293
AV	1.200	.812	1	1.250	.406	BMFJF		VG-501
AV	1.200	.812	3	1.250	.406	VCFJF		VG-501V
AV	1.200	.875	3	1.250	.406	BMFJF		VG-637
BV	1.437	.615	1	1.187	.288	BMFJF		VG-700
BV	1.437	.615	1	1.187	.343	BMFJF		VG-600
BV	1.437	.615	1	1.187	.343	VMFJF		VG-600V
BV	1.437	.615	1	1.250	.406	BCFJF		VG-961
BV	1.437	.615	1	1.250	.406	BMFJF		VG-1000
BV	1.437	.615	1	1.250	.406	VCFLF*	316SS	VG-9596
BV	1.437	.615	8	—	.215	BCFJF	A	VG-447
BV	1.437	.615	8	—	.215	VCFJF	A	VG-447V
BV	1.437	.615	11	—	.487	BMFJF	A	VG-411
BV	1.437	.615	11	—	.487	VMFJF	A	VG-411V
HTV	1.055	.875	1	1.250	.406	BCFJF	B	VG-508
HTV	1.055	.875	1	1.250	.406	BCFKF	B	VG-102
HV	1.055	.718	1	1.250	.406	BCFJF		VG-2160
HV	1.055	.844	1	1.187	.343	BCFJF		VG-118
HV	1.055	.844	1	1.250	.406	BCFJF		VG-290
HV	1.055	.844	1	1.250	.406	VCFJF		VG-290V
HV	1.055	.875	1	1.187	.288	BCFKF		VG-493
HV	1.055	.875	1	1.250	.406	BCFJF		VG-359
HV	1.055	.875	1	1.250	.406	BCFKF		VG-633
HV	1.055	.875	1	1.250	.406	VCFJF		VG-359V-CMS
HV	1.055	.875	3	1.250	.406	BCFJF		VG-552
HV	1.055	.875	3	1.250	.406	VCFJF		VG-359V
HV	1.055	.875	3	1.250	.406	VCFKF		VG-633V
HV	1.055	1.187	1	1.156	.312	BCFJF		VG-800
HV	1.055	1.312	1	1.250	.406	BCFJF		VG-274
HV	1.055	1.312	1	1.250	.406	BCFKF		VG-487
HV	1.062	.875	1	1.250	.406	VLFLF		VG-30760
HV	1.062	1.312	1	1.250	.406	VLFLF		VG-30810
Special	1.303	1.200	25	1.060	.406	QCFLF		VG-9661
Special	1.303	1.200	25	1.060	.406	QLFLF		VG-9622
Special	1.303	1.200	25	1.060	.406	VCFLF		VG-9660
Special	1.303	1.200	25	1.060	.406	VLFLF		VG-9662
.750 (3/4")								
AV	1.295	.718	1	1.375	.406	BMFJF		VG-201
AV	1.295	.718	1	1.375	.406	QMFJF		VG-201E-CMS

NOTE: A. MOUNTS ON SHAFT
 B. TAPERED SPRING
 G. MOUNTS IN PLASTIC
 * GRAPHITE LOADED SILICON CARBIDE

INCH

SEAL HEAD			MATING RING			Material Code	NOTES	Value Guard Part No.
Fig.	OD	Oper Hgt.	Fig.	Bore	Thick			
.750 (3/4") (continued)								
AV	1.295	.718	1	1.375	.406	VCFJF		VG-201V-CMS
AV	1.295	.718	3	1.375	.406	VCFJF		VG-201V
AV	1.295	.718	1	1.437	.406	BMFJF		VG-101
BV	1.575	.615	1	1.375	.406	BMFJF		VG-601
BV	1.575	.615	3	1.375	.406	VCFJF		VG-601V
BV	1.575	.615	9	—	.281	BMFKF	A	VG-902
HTV	1.161	.843	1	1.375	.406	BCFJF	B	VG-128
HV	1.161	.718	1	1.375	.406	BCFJF		VG-877
HV	1.161	.718	1	1.375	.406	VCFJF		VG-877V-CMS
HV	1.161	.875	1	1.275	.281	BCFJF		VG-437
HV	1.161	.875	1	1.275	.281	VCFJF		VG-437V
HV	1.161	.875	1	1.375	.406	BCFJF		VG-358
HV	1.161	.875	1	1.375	.406	BCFKF		VG-112
HV	1.161	.875	1	1.375	.406	VCFJF		VG-358V-CMS
HV	1.161	.875	1	1.375	.406	VLFLF		VG-3018
HV	1.161	.875	1	1.375	.406	VLFLF		VG-30780
HV	1.161	.875	3	1.375	.406	VCFJF		VG-358V
HV	1.161	.875	3	1.375	.406	VCFKF		VG-112V
.875 (7/8")								
HDV	1.323	1.625	1	1.500	.406	BCFJF		VG-428
HV	1.323	.812	1	1.437	.265	BCFJF		VG-790
HV	1.323	.812	1	1.437	.265	VCFJF		VG-790V-CMS
HV	1.323	.937	1	1.500	.406	BCFJF		VG-309
HV	1.323	.937	1	1.500	.406	BCFKF		VG-687
HV	1.323	.937	1	1.500	.406	VCFJF		VG-309V
HV	1.323	.937	3	1.500	.406	BCFJF		VG-774
HV	1.323	.937	3	1.500	.406	BCFKF		VG-617
HV	1.323	1.375	1	1.500	.406	BCFJF		VG-188
HV	1.323	1.375	1	1.500	.406	BCFKF		VG-935
HV	1.323	1.375	3	1.500	.406	BCFJF		VG-776
HV	1.323	1.375	3	1.500	.406	BCFKF		VG-229
1.000 (1")								
AV	1.552	.812	1	1.625	.437	BMFJF		VG-360
AV	1.552	.812	25	1.625	.625	BMFJF		VG-405
HDV	1.539	1.625	1	1.625	.437	BCFJF		VG-879
HDV	1.539	1.625	1	1.625	.437	BCFKF		VG-891
HDV	1.539	1.875	1	1.625	.437	BCFJF		VG-429
HDV	1.539	1.875	1	1.625	.437	BCFKF		VG-430
HDV	1.539	1.875	1	1.625	.437	VLFLF		VG-879V-SC-SC-CMS
HTV	1.539	1.000	1	1.625	.437	BCFJF	B	VG-245
HTV	1.539	1.000	1	1.625	.437	VCFJF	B	VG-245V-CMS
HTV	1.539	1.000	25	1.625	.625	BCFLF	B	VG-413
HV	1.539	1.000	1	1.625	.437	BCFJF		VG-235
HV	1.539	1.000	1	1.625	.437	BCFKF		VG-357
HV	1.539	1.000	1	1.625	.437	VCFJF		VG-235V-CMS
HV	1.539	1.000	1	1.625	.437	VLFLF		VG-30790
HV	1.539	1.000	3	1.625	.312	BCFKF		VG-1630
HV	1.539	1.000	3	1.625	.437	BCFJF		VG-548
HV	1.539	1.000	3	1.625	.437	BCFKF		VG-499
HV	1.539	1.000	3	1.625	.437	VCFJF		VG-548V
HV	1.539	1.562	1	1.625	.437	BCFJF		VG-754
HV	1.539	1.562	1	1.625	.437	BCFKF		VG-236
HV	1.539	1.562	1	1.625	.437	VLFLF		VG-30820
HV	1.539	1.562	3	1.625	.437	BCFJF		VG-557
HV	1.539	1.562	3	1.625	.437	BCFKF		VG-791
1.062 (1-1/16")								
Special	1.625	1.593	3	1.750	.437	BCFJF		VG-798
Special	1.625	1.593	3	1.750	.437	VCFJF		VG-798V
HV	1.673	1.157	3	1.750	.345	VCFLF		VG-110608V
1.125 (1-1/8")								
HV	1.673	1.062	1	1.750	.437	BCFJF		VG-356
HV	1.673	1.062	1	1.750	.437	BCFKF		VG-355
HV	1.673	1.062	1	1.750	.437	VCFJF		VG-356V-CMS

INCH

SEAL HEAD			MATING RING			Material Code	NOTES	Value Guard Part No.
Fig.	OD	Oper Hgt.	Fig.	Bore	Thick			
1.125 (1-1/8") (continued)								
HV	1.673	1.062	1	1.750	.437	VCFKF		VG-355V
HV	1.673	1.062	1	1.750	.437	VLFLF		VG-3029
HV	1.673	1.062	3	1.750	.437	BCFJF		VG-801
HV	1.673	1.062	3	1.750	.437	BCFKF		VG-529
HV	1.673	1.062	3	1.750	.437	VCFJF		VG-356V
HV	1.673	1.625	1	1.750	.437	BCFJF		VG-204
HV	1.673	1.625	1	1.750	.437	BCFKF		VG-384
HV	1.673	1.625	1	1.750	.437	VCFJF		VG-204V-CMS
HV	1.673	1.625	3	1.750	.437	BCFJF		VG-866
HV	1.673	1.625	3	1.750	.437	BCFKF		VG-867
1.250 (1-1/4")								
HTV	1.795	1.062	1	1.765	.365	BCFJF	B	VG-978
HTV	1.795	1.062	1	1.765	.365	BCFKF	B	VG-979
HTV	1.795	1.062	1	1.765	.365	VCFJF	B	VG-978V
HTV	1.795	1.062	1	1.875	.437	BCFJF	B	VG-246
HTV	1.795	1.062	1	1.875	.437	BCFKF	B	VG-249
HTV	1.795	1.062	1	1.875	.437	VCFJF	B	VG-246V-CMS
HTV	1.795	1.062	25	2.250	.625	BCFJF	B	VG-416A
HV	1.795	1.062	1	1.875	.437	BCFJF		VG-185
HV	1.795	1.062	1	1.875	.437	BCFKF		VG-756
HV	1.795	1.062	1	1.875	.437	VCFJF		VG-185V-CMS
HV	1.795	1.062	1	1.875	.437	VCFKF		VG-756V-CMS
HV	1.795	1.062	1	1.875	.437	VLFLF		VG-3017
HV	1.795	1.062	1	1.875	.437	VLFLF		VG-30800
HV	1.795	1.062	1	1.875	.437	XCFLF		VG-4103
HV	1.795	1.062	3	1.875	.437	BCFKF		VG-598
HV	1.795	1.062	3	1.875	.437	VCFJF		VG-185V
HV	1.795	1.062	3	1.875	.437	VCFKF		VG-756V
HV	1.795	1.062	1	2.000	.437	BCFJF		VG-466
HV	1.795	1.062	1	2.000	.437	VCFJF		VG-466V-CMS
HV	1.795	1.062	3	2.000	.437	BCFJF		VG-2230
HV	1.795	1.062	3	2.000	.437	BCFKF		VG-1018
HV	1.795	1.625	1	1.875	.437	BCFJF		VG-361
HV	1.795	1.625	1	1.875	.437	BCFJF		VG-2122
HV	1.795	1.625	1	1.875	.437	BCFKF		VG-137
HV	1.795	1.625	1	1.875	.437	VCFJF		VG-2122V
HV	1.795	1.625	1	1.875	.437	VLFLF		VG-30830
HV	1.795	1.625	3	1.875	.437	BCFJF		VG-546
HV	1.795	1.625	3	1.875	.437	BCFKF		VG-1109
1.375 (1-3/8")								
HDV	1.929	1.875	1	2.140	.437	BCFJF		VG-1104
HTV	1.929	.900	25	2.000	.500	BCFLF	B	VG-929
HV	1.929	1.125	1	2.000	.437	BCFJF		VG-177
HV	1.929	1.125	1	2.000	.437	BCFKF		VG-210
HV	1.929	1.125	1	2.000	.437	VLFLF		VG-177V-SC-SC-CMS
HV	1.929	1.125	3	2.000	.437	BCFJF		VG-805
HV	1.929	1.125	3	2.000	.437	BCFKF		VG-547
HV	1.929	1.687	1	2.000	.437	BCFJF		VG-354
HV	1.929	1.687	1	2.000	.437	BCFKF		VG-677
HV	1.929	1.687	3	2.000	.437	BCFJF		VG-864
HV	1.929	1.687	3	2.000	.437	BCFKF		VG-865
1.500 (1-1/2")								
HTV	2.047	1.125	1	2.125	.437	BCFJF	B	VG-347
HV	2.047	1.125	1	2.125	.437	BCFJF		VG-758
HV	2.047	1.125	1	2.125	.437	BCFKF		VG-659
HV	2.047	1.125	1	2.125	.437	VCFJF		VG-758V-CMS
HV	2.047	1.125	1	2.125	.437	VCFKF		VG-659V-CMS
HV	2.047	1.125	1	2.125	.437	VLFLF		VG-30770
HV	2.047	1.125	3	2.125	.437	BCFJF		VG-816
HV	2.047	1.125	3	2.125	.437	BCFKF		VG-553
HV	2.047	1.125	3	2.125	.437	VCFJF		VG-758V
HV	2.047	1.125	3	2.125	.437	VCFKF		VG-659V
HV	2.047	1.688	1	2.125	.437	BCFJF		VG-305

NOTE: B. TAPERED SPRING

INCH

SEAL HEAD			MATING RING			Material Code	NOTES	Value Guard Part No.
Fig.	OD	Oper Hgt.	Fig.	Bore	Thick			
1.500 (1-1/2") (continued)								
HV	2.047	1.688	1	2.125	.437	BCFKF		VG-374
HV	2.047	1.688	1	2.125	.437	VLFLF		VG-30840
HV	2.047	1.688	3	2.125	.437	BCFJF		VG-395
HV	2.047	1.688	3	2.125	.437	BCFKF		VG-1110
HV	2.047	1.688	3	2.312	.437	VCFKF		VG-1648
1.625 (1-5/8")								
HTV	2.252	1.312	25	2.5	.812	BCFLF	B	VG-7497
HTV	2.252	1.375	1	2.375	.500	BCFJF	B	VG-514
HV	2.252	1.375	1	2.375	.500	BCFJF		VG-238
HV	2.252	1.375	1	2.375	.500	BCFKF		VG-239
HV	2.252	1.375	1	2.375	.500	VCFJF		VG-238V-CMS
HV	2.252	1.375	1	2.375	.500	VLFLF		VG-30850
HV	2.252	1.375	3	2.625	.500	BCFKF		VG-1019
HV	2.252	2.000	1	2.375	.500	BCFJF		VG-745
HV	2.252	2.000	1	2.375	.500	BCFKF		VG-744
HV	2.252	2.000	3	2.375	.500	BCFJF		VG-1683
HV	2.252	2.000	3	2.375	.500	BCFKF		VG-822
HV	2.300	1.375	3	2.375	.500	BCFJF		VG-818
1.750 (1-3/4")								
HV	2.394	1.375	1	2.625	.500	BCFJF		VG-7252
HV	2.394	1.375	1	2.500	.500	BCFJF		VG-446
HV	2.394	1.375	1	2.500	.500	BCFKF		VG-448
HV	2.394	1.375	1	2.500	.500	VCFJF		VG-446V-CMS
HV	2.394	1.375	3	2.500	.500	BCFJF		VG-550
HV	2.394	1.375	3	2.500	.500	BCFKF		VG-436
HV	2.394	1.375	3	2.500	.500	VCFJF		VG-550V
HV	2.394	1.375	3	2.500	.500	VLFZF		VG-4361
HV	2.394	2.000	1	2.500	.500	BCFJF		VG-205
HV	2.394	2.000	1	2.500	.500	BCFKF		VG-366
HV	2.394	2.000	3	2.500	.500	BCFJF		VG-535
HV	2.394	2.000	3	2.500	.500	BCFKF		VG-262
1.875 (1-7/8")								
HDV	2.516	2.000	1	2.640	.406	BCFJF		VG-1105
HV	2.516	1.500	1	2.625	.500	BCFJF		VG-340
HV	2.516	1.500	1	2.625	.500	BCFKF		VG-1608
HV	2.516	1.500	1	2.625	.500	VCFJF		VG-340V
HV	2.516	1.500	3	2.625	.500	BCFJF		VG-2114
HV	2.516	1.500	3	2.625	.500	BCFKF		VG-593
HV	2.516	2.125	1	2.625	.500	BCFJF		VG-523
HV	2.516	2.125	1	2.625	.500	BCFKF		VG-513
HV	2.516	2.125	3	2.625	.500	BCFJF		VG-2071
HV	2.516	2.125	3	2.625	.500	BCFKF		VG-2072
1.937 (1-15/16")								
HDV	2.583	2.125	—	—	—	VCF-F		VG-1937
2.000 (2")								
AV	2.913	1.375	2	2.750	.375	VCFLF		VG-3004V
HV	2.583	1.500	1	2.750	.500	BCFJF		VG-267
HV	2.583	1.500	1	2.750	.500	BCFKF		VG-842
HV	2.583	1.500	3	2.750	.500	BCFJF		VG-532
HV	2.583	1.500	3	2.750	.500	BCFKF		VG-332
HV	2.583	2.125	1	2.750	.500	BCFJF		VG-479
HV	2.583	2.125	1	2.750	.500	BCFKF		VG-843
HV	2.583	2.125	1	2.750	.500	VCFJF		VG-479V
HV	2.583	2.125	3	2.750	.500	BCFJF		VG-530
HV	2.583	2.125	3	2.750	.500	BCFKF		VG-477
2.125 (2-1/8")								
HDV	2.819	2.250	1	3.187	.562	BCFJF		VG-1107
HV	2.819	1.687	1	3.000	.562	BCFJF		VG-844
HV	2.819	1.687	1	3.000	.562	BCFKF		VG-543
HV	2.819	1.687	3	3.000	.562	BCFJF		VG-338
HV	2.819	1.687	3	3.000	.562	VLFZF		VG-4360
HV	2.819	2.375	1	3.000	.562	BCFJF		VG-537

INCH

SEAL HEAD			MATING RING			Material Code	NOTES	Value Guard Part No.
Fig.	OD	Oper Hgt.	Fig.	Bore	Thick			
2.250 (2-1/4")								
HV	2.819	2.375	1	3.000	.562	BCFKF		VG-353
HV	2.819	2.375	3	3.000	.562	BCFJF		VG-327
HV	2.819	2.375	3	3.000	.562	BCFKF		VG-2086
HV	3.027	1.688	1	3.125	.562	BCFJF		VG-1679
HV	3.027	1.688	1	3.125	.562	BCFKF		VG-1680
HV	3.027	1.688	1	3.125	.562	VCFJF		VG-1679V
HV	3.027	1.688	1	3.125	.562	VCFKF		VG-1680V
HV	3.027	1.688	3	3.125	.562	BCFJF		VG-1678
HV	3.027	1.688	3	3.125	.562	BCFKF		VG-1676
HV	3.027	2.375	1	3.125	.562	BCFJF		VG-323
HV	3.027	2.375	1	3.125	.562	BCFKF		VG-351
HV	3.027	2.375	3	3.125	.562	BCFJF		VG-848
HV	3.027	2.375	3	3.125	.562	BCFKF		VG-849
2.375 (2-3/8")								
HV	3.087	1.813	1	3.250	.562	BCFJF		VG-268-CMS
HV	3.087	1.813	1	3.250	.562	BCFKF		VG-492-CMS
HV	3.087	1.813	3	3.250	.562	BCFJF		VG-268
HV	3.087	1.813	3	3.250	.562	BCFKF		VG-492
HV	3.087	2.500	1	3.250	.562	BCFJF		VG-2097-CMS
HV	3.087	2.500	1	3.250	.562	BCFKF		VG-350-CMS
HV	3.087	2.500	3	3.250	.562	BCFJF		VG-2097
HV	3.087	2.500	3	3.250	.562	BCFKF		VG-350
2.500 (2-1/2")								
HV	3.197	1.813	3	3.375	.562	BCFJF		VG-269
HV	3.197	1.813	3	3.375	.562	BCFKF		VG-853
HV	3.197	2.500	3	3.375	.562	BCFJF		VG-279
HV	3.197	2.500	3	3.375	.562	BCFKF		VG-349
Spec	3.268	1.811	25	3.375	.562	QCFLF		VG-3804
2.625 (2-5/8")								
HV	3.327	1.937	3	3.375	.625	BCFJF		VG-7909
HV	3.327	2.750	3	3.375	.625	BCFJF		VG-328
HV	3.327	2.750	3	3.375	.625	BCFKF		VG-542
2.750 (2-3/4")								
HV	3.528	1.937	3	3.500	.625	BCFJF		VG-836
HV	3.528	1.937	3	3.500	.625	BCFKF		VG-483
HV	3.528	2.750	3	3.500	.625	BCFJF		VG-838
HV	3.528	2.750	3	3.500	.625	BCFKF		VG-321
HV	3.528	3.750	1	3.500	.625	BCFKF		VG-322-CMS
HV	3.528	3.750	3	3.500	.625	BCFKF		VG-322
3.000 (3")								
HV	2.386	2.000	1	2.500	.500	VLFLF		VG-30860
HV	3.803	2.062	3	3.875	.625	BCFJF		VG-761
HV	3.803	2.062	3	3.875	.625	BCFKF		VG-465
HV	3.803	2.813	3	3.875	.625	BCFJF		VG-324
HV	3.803	2.813	3	3.875	.625	BCFKF		VG-475