

Valve Stem Seals Catalog

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Valve Stem Seals *by Engine Pro*

When ordering, add suffix "V" for Viton, or "P" for Polyacrylic to the base part #

Ordering Information: Look up part number by either application or size, then add the suffix to the part number by type of material required. **P= Polyacrylic, V= Fluoroviton**

UM = Umbrella Seal

RB = Rubber Seal w/ring & band

RS = Rubber Seal w/ring at skirt & spring at chimney

2R = Rubber Seal w/ring at skirt & ring at chimney of seal

AR = All Rubber Seal

VSW = Rubber Seal w/band at base & garter spring at chimney

VIV = Metal Body w/grooved rubber inside skirt for imperfect guide

VSΒ = Metal Body w/rubber inside skirt & garter spring at chimney

VSΒ-NG = Metal Body w/rubber inside skirt & no garter spring at chimney

VSΒ2 = Metal sw/o rubber inside skirt & spring at chimney

VSΒ5-1 = Metal Body Hat / Springpad seal (1 piece)

VSΒ5-2 = Metal Body Hat / Springpad seal (2 piece) has cartridge

Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
ACURA											
1.6L	97	1590	D16A1	1986-89	DOHC	L4	16V	INTEGRA	0.260	0.476	35-PT2
1.7L	102	1678	B17A1	1992-94	DOHC	L4	16V	INTEGRA GSR	0.217	0.436	35-592
1.8L	110	1797	B18C1	1994-01	DOHC	L4	16V	INTEGRA VTEC	0.217	0.436	35-592
1.8L	110	1797	B18C5	1997-01	DOHC	L4	16V	INTEGRA VTEC	0.217	0.436	35-592
1.8L	112	1834	B18A1,B18A1	1990-01	DOHC	L4	16V	INTEGRA	0.260	0.476	35-PT2
2.0L	122	1998	K20A3	2002-06	DOHC	L4	16V	RSX	0.217	0.436	35-592
2.2L	132	2156	F22B1	1997	SOHC	L4	16V	CL	0.217	0.436	35-592
2.3L	138	2254	F23A1	1998-99	SOHC	L4	16V	CL	0.217	0.436	35-592
2.3L	140	2300	K23A1	2007-09	DOHC	L4	16v	RDX	0.217	0.436	35-592
2.4L	146	2354	K24A2	2004-08	DOHC	L4	16v	TSX	0.217	0.436	35-592
2.5L	150	2451	G25A1	1992-94	SOHC	L5	20V	VIGOR	0.217	0.436	35-592
2.5L	150	2451	G25A4	1995-98	SOHC	L5	20V	TL	0.217	0.436	35-592
2.5L	152	2429	C25A1	1986-87	SOHC	V6	24V	LEGEND	0.260	0.475	35-454
2.7L	163	2675	C27A1	1987-90	SOHC	V6	24V	LEGEND	0.260	0.475	35-PT2
3.0L	182	2977	C30A1	1991-05	DOHC	V6	24V	NSX	0.217	0.435	35-592
3.0L	183	2997	J30A1	1997-99	SOHC	V6	24V	CL	0.217	0.436	35-592
3.2L	193	3165	6VD1 -VIN V	1996-97	SOHC	V6	24V	SLX	0.235	0.436	35-520
3.2L	196	3206	C32A1	1991-95	SOHC	V6	24V	LEGEND L, LS	0.217	0.436	35-592
3.2L	196	3206	C32A1	1994-95	SOHC	V6	24V	LEGEND GS	0.217	0.436	35-592
3.2L	196	3206	C32A6	1996-98	SOHC	V6	24V	TL	0.217	0.436	35-592
3.2L	196	3210	J32A1,J32A2	1999-03	SOHC	V6	24V	CL,TL	0.217	0.436	35-592
3.2L	195	3210	J32A3	2004-08	SOHC	V6	24v	TL	0.217	0.436	35-592
3.5L	212	3471	J35A3	2001-02	SOHC	V6	24V	MDX	0.217	0.436	35-592
3.5L	212	3471	J35A5	2003-06	SOHC	V6	24V	MDX	0.217	0.436	35-592
3.5L	212	3471	J35A8	2005-08	SOHC	V6	24V	RL,TL	0.217	0.436	35-592
3.5L	214	3474	C35A1	1996-04	SOHC	V6	24V	RL	0.217	0.436	35-592
3.5L	214	3494	6VE1, VIN X	1998-99	DOHC	V6	24V	SLX	0.236	0.436	35-520
3.7L		3664	J37A1	2007-09	SOHC	V6	24V	MDX	0.217	0.436	35-592
AUDI											
1.8L	108	1781	AEB,ATW, TURBO	1997-06	DOHC	L4	16V	A4,TT			35-654
2.0L		1984	BPY,BEV	2005-08	DOHC	L4	20v	A3,A4,TT			35-654
2.7L	163	2671	TURBO	2000-05	DOHC	L4	20v	A6,S4			35-654
2.8L		2771	VIN A,B, AAH,AFC	1994-98	SOHC	V6	30V	100,A4,A6,QUATTRO			35-651
2.8L		2771	AHA,ATQ	1998-01	DOHC	V6	30V	A4,A6,QUATTRO			35-654
3.0L		2976	VIN T, AVK,BVN	2002-06	DOHC	V6	30V	A4,A6,QUATTRO			35-654
3.1L		3123	BKH	2005-09	DOHC	V6	24V	A4,A6,QUATTRO			35-654

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
BMW											
1.8L		1796	M42	1992-95	DOHC	L4	16V	318I,IS,TI			35-654
1.9L		1895	M44	1996-99	DOHC	L4	16V	318I,IS,TI,Z3			35-BMW2
2.5L		2494	M20	1987-93	SOHC	L6	12V	325I,IS,IX,525I			35-651
2.5L		2494	M50	1993-95	SOHC	L6	24V	325I,IS,525I			35-BMW2
2.8L		2793	M52	1996-00	DOHC	L6	24V	328CI,I,IS,528I,Z3			35-654
CATERPILLAR											
			OE# 1026229N					L6 3126B 7.2L 18V, L6 3406B 24V	0.334	0.479	35-CAT2
								L6 3406C 24V, L6 C15 14.6L 24V			
								V8 3408C 32V, V8 3408E 32V			
								V12 3412C 48V, V12 3412E 48V			
			OE# 1193036					CAT 3116, 3126 LATE	0.296	0.435	35-CAT4
			OE# 1376856					CAT3500 V8,V12,V16	0.348	0.580	35-CAT5
			OE# 1478214					3406C, D6R, V12 C18, C9	0.348	0.580	35-CAT6
								300C, C27			
			OE# 1632478					3126B, 962G, 950G, D6N, D5N	0.334	0.487	35-CAT7
								938G, C7, 322C, 962G, 325D			
								332C, IT38D, IT38G			
			OE# 6N7174					3304, D330, 3306,1673, 3406			35-823
								8V OR 12V, NYLON UMBRELLA			
CHRYSLER (INCLUDES AMC, DODGE, JEEP, & PLYMOUTH)											
1.4L	86	1410	G12B, VIN 2	1979-84	SOHC	L4	8V	CHAMP,COLT	0.260	0.475	35-550
1.5L	89	1468	G15B, VIN K	1985-88	SOHC	L4	8V	COLT	0.260	0.475	35-550
1.5L	89	1468	4G15, VIN P,X	1988-90	SOHC	L4	8V	COLT	0.260	0.475	35-550
1.5L	89	1468	4G15, VIN A	1991-94	SOHC	L4	12V	COLT	0.260	0.475	35-550
1.5L	89	1468	4G15, VIN A, 3V	1991-94	SOHC	L4	12V	COLT	0.260	0.475	35-550
1.6L	97	1595	4G61, VIN F,Z,Y	1989-90	DOHC	L4	16V	COLT,SUMMIT	0.260	0.475	35-550
1.8L	107	1755	4G37, VINB,T	1990-94	SOHC	L4	8V	COLT,LASER,TALON	0.315	0.514	35-453
1.8L	111	1834	4G93, VIN C,D	1993-96	SOHC	L4	16V	COLT,SUMMIT	0.236	0.436	35-553
2.0L	122	1996	VIN C,F, ECB	2001-05	SOHC	L4	16V	BREEZE, NEON, STRATUS	0.236	0.436	35-20N
2.0L	122	1996	VIN C,F, ECB	1995-01	SOHC	L4	16V	BREEZE, NEON	0.236	0.436	35-20N
2.0L	121	1996	VIN Y	1995-99	DOHC	L4	16V	AVENGER, NEON	0.236	0.436	35-20N
2.0L	122	1997	G63B, VIN5,D	1983-88	SOHC	L4	12V	COLT, RAM 5	0.315	0.514	35-453
2.0L	122	1997	G63B, VIN V	1989-91	SOHC	L4	12V	COLT	0.315	0.514	35-453
2.0L	122	1997	4G63, VIN E,F,R,U,E	1990-94	DOHC	L4	16V	LASER,TALON	0.260	0.475	35-550
2.0L	122	1997	4G63, VIN F,U,EBG	1990-98	DOHC	L4	16V	LASER TURBO	0.260	0.475	35-550
2.2L	135	2213	VIN 8,B,C	1981-87	SOHC	L4	8V	PASSENGER	0.313	0.502	35-225
2.2L	135	2213	VIN A,C,E,P,R	1984-90	SOHC	L4	8V	PASSENGER	0.313	0.502	35-225
2.2L	135	2213	VIN D	1986-94	SOHC	L4	8V	PASSENGER	0.313	0.502	35-225
2.4L	143	2351	G64B, VIN G,W	1990-93	SOHC	L4	8V	COLT, RAM	0.313	0.512	35-453
2.4L	143	2351	4G64, VIN G	1993-96	SOHC	L4	16V	SUMMIT	0.236	0.436	35-553
2.4L	143	2351	4G64, VIN G	2001-05	SOHC	L4	16V	SEBRING, STRAUS	0.236	0.436	35-553
2.4L	148		VIN 1, JEEP	2002-06	DOHC	L4	16V	LIBERTY, WRANGLER	0.236	0.436	35-20N
2.4L	148	2429	VIN 9,B,J,X,EDZ	1995-06	DOHC	L4	16V	BREEZE, PT CRUISER	0.236	0.436	35-20N

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CHRYSLER (INCLUDES AMC, DODGE, JEEP, & PLYMOUTH) CONTINUED											
2.4L	148	2429	VIN 8, E,G,S-TURBO	2003-09	DOHC	L4	16v	NEON, PT CRUSIER	0.236	0.436	35-20N
2.5L	150		VIN E,H,P,U AMC	2000-02	OHV	L4	8V	CHEROKEE, WRANGLER,CJ	0.313	0.502	35-320
2.5L	150		VIN E,H,P,U AMC	1983-99	OHV	L4	8V	CHEROKEE, WRANGLER	0.313	0.502	35-320
2.5L	152	2497	6G73, VIN H, N	1995-00	SOHC	V6	24V	AVENGER,SEBRING, STRATUS	0.236	0.436	35-553
2.5L	153	2507	VIN K	1986-95	SOHC	L4	8V	CAR, VAN	0.313	0.502	35-320
2.5L	153	2507	VIN J, TURBO	1989-92	SOHC	L4	8V	CAR	0.313	0.502	35-225
2.6L	156	2555	G54B	1984-89	SOHC	L4	8V	ALL	0.315	0.514	35-453
2.7L	165		VIN 1,2,4 MERCEDES	2003-06	DOHC	L5	20v	SPRINTER 2500, 3500	0.276	0.495	35-ME3
2.7L	167	2700	VIN D,R,T,U	1998-09	DOHC	V6	24V	300,CHARGER,SEBRING	0.236	0.436	35-20N
3.0L	181	2972	6G72, VIN 3,H,S	1987-00	SOHC	V6	12V	ALL EXCEPT STEALTH	0.315	0.514	35-453
3.0L	181	2972	6G72 VIN B,J	1991-96	DOHC	V6	24V	STEALTH	0.260	0.475	35-550
3.0L	181	2972	6G72 TURBO, VIN C	1991-96	DOHC	V6	24V	STEALTH	0.260	0.475	35-550
3.0L	181	2972	6G72, VIN H	2001-05	SOHC	V6	24V	SEBRING,STRATUS	0.236	0.436	35-553
3.2L	197		VIN J	1998-01	SOHC	V6	24V	CONCORDE, INTREPID	0.275	0.455	35-800
3.3L	201		VIN 3,E,G,H,R,S,T,U	2001-09	OHV	V6	12V	PASS,VAN	0.276	0.493	35-226
3.3L	201		VIN 3,E,G,H,R,S,T,U	1990-00	OHV	V6	12V	PASS,VAN	0.314	0.493	35-225
3.5L	215		VIN 4,F,G,K,M,V	1993-09	SOHC	V6	24V	PASSENGER	0.275	0.454	35-800
3.7L	225		VIN 6,B,C,D,E,F,H,J,M	1960-87	OHV	L6	12V	PASS/TRUCK	0.374	0.502	35-222
3.7L	226		VIN K	2002-09	SOHC	V6	12V	COMMANDER,DAKOTA	0.276	0.472	35-C47
3.8L	232		VIN 1, L,P	2001-09	OHV	V6	12V	CAR, VAN	0.276	0.493	35-226
3.8L	232		VIN 1, L,P	2000	OHV	V6	12V	CAR, VAN	0.314	0.493	35-225
3.8L	232		VIN 1, L,P	1991-99	OHV	V6	12V	CAR, VAN	0.314	0.493	35-225
3.9L	239		VIN X	1992-03	OHV	V6	12V		0.313	0.531	35-802
3.9L	239		VIN X	1988-91	OHV	V6	12V		0.373	0.502	35-373
4.0L	241		VIN 6, X	2007-09	SOHC	V6	24V	CARAVAN, NITRO,PACIFICA	0.275		TBA
4.0L	242		VIN L,M,S JEEP	1999-06	OHV	L6	12V	CHEROKEE, COMANCHE	0.313	0.500	35-802
4.0L	242		VIN L,M,S JEEP	1987-98	OHV	L6	12V	CHEROKEE, COMANCHE	0.313	0.500	35-320
4.7L	287		VIN J,N,P	1999-09	SOHC	V8	16V	ASPEN, DAKOTA	0.273		35-C47
4.7L	287		VIN J,N,P -HIGH OUTPUT	2002-09	SOHC	V8	16V	ASPEN, DAKOTA	0.273		35-C47
5.2L	318		VIN Y	1992-03	OHV	V8	16V	CAR, TRUCK	0.313	0.531	35-802
5.2L	318		VIN Y	1988-91	OHV	V8	16V	CAR, TRUCK	0.374	0.640	35-803
5.7L	345		VIN 2,D,H,T HEMI	2003-09	OHV	V8	16V	CAR, TRUCK			35-HEMI
5.9L	359		VIN 8,C,D CUMMINS	1989-98	OHV	L6	12V	D250,D350	0.316	0.552	35-320
5.9L	359	ISB	VIN 6,7,C,D CUMMINS	2003-09	OHV	L6	24V	RAM 2500, 3500	0.277	0.484	35-C59L
5.9L	359	ISB	VIN 6,7,C,D CUMMINS	1998-02	OHV	L6	24V	RAM 2500, 3500	0.277	0.484	35-C59A
5.9L	359	ISB	VIN 6,7,C,D CUMMINS	2003-09	OHV	L6	24V	RAM 2500, 3500	0.277	0.484	35-C59L
5.9L	359	ISB	VIN 6,7,C,D CUMMINS	1998-02	OHV	L6	24V	RAM 2500, 3500	0.277	0.484	35-C59A,B
5.9L	360		VIN 7,N,P,AMC	75-91	OHV	V8	16V	CAR, TRUCK			35-296
5.9L	360		VIN 5, Z	1993-03	OHV	V8	16V	TRUCK	0.313	0.531	35-802
5.9L	360		VIN 5, Z	1990-92	OHV	V8	16V	TRUCK	0.374	0.640	35-803
6.7L	408	ISB	VIN A, L CUMMINS	2007-09	OHV		24V	RAM 2500, RAM 3500	0.277	0.484	35-C59L
8.0L	488		VIN E	1992-02	OHV	V10	20V	VIPER	0.313	0.531	35-802
8.0L	488		VIN W	1994-04	OHV	V10	20V	RAM 2500, 3500	0.313	0.531	35-802

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CUMMINS											
			OE# 4003966, 4003965, 3606766					ISX, L6 659CID, L6 671CID, L6 915CID	0.334	0.556	35-CUM965
			OE# 3064281					L6 855CID N14	0.358	0.615	35-CUM2
			OE# 3328781					L6 611CID , L10	0.363	0.577	35-CUM3
			OE# 3915707					6C 8.3L, 505CID 8.3L	0.352	0.628	35-CUM4
			OE# 3927642					UNIVERSAL 'HAT STYLE	0.354	0.624	35-CUM5
			OE# 3919038					UNIVERSAL	0.354	0.625	35-CUM6
			OE# 3948578,3943888					ISC 8.3L 505CID 24V TURBO	0.354	0.796	35-CUM78
DAEWOO											
1.6L	97	1588	VIN 6	1999-02	DOHC	L4	16V	LANOS	0.237	0.436	35-DW1
2.0L	121	1998	X20SE ISUZU	1999-02	DOHC	L4	16v	NUBIRA	0.237	0.347	35-BMW2
2.2L	134	2198	X22SE ISUZU	1999-02	DOHC	L4	16V	ALL	0.237	0.347	35-BMW2
DETROIT DIESEL											
			OE# 8921209					53 SERIES 4-VALVE	0.212	0.371	35-D53
			OE# 8921741					71 SERIES 4-VALVE, 92 SERIES	0.281	0.411	35-D71
			UNIVERSAL					71 SERIES	0.345	0.562	35-562R
			OE# 23523930, 8929072					60 SERIES	0.297	0.547	35-D502
FORD (INCLUDES TRUCK, DIESEL & MERCURY)											
1.3L	80	1324	VIN H, K MAZDA B3	1988-97	SOHC	L4	8V	ASPIRE, FESTIVA	0.276	0.474	35-435
1.6L	98	1598	VIN 6, Z	1991-94	DOHC	L4	16V	CAPRI, TRACER	0.237	0.435	35-438
1.6L	97	1598	VIN 5, MAZDA B6	1987-89	SOHC	L4	8V	TRACER	0.276	0.474	35-435
1.8L	112	1839	VIN 8, MAZDA BP	1991-96	DOHC	L4	16V	TRACER/ESCORT	0.237	0.436	35-438
1.9L	116		VIN9, J USA	1985-96	SOHC	L4	8V	CFI	0.317	0.472	35-423
1.9L	116		VIN9, J MEXICO	1985-96	SOHC	L4	8V	CFI	0.317	0.472	35-423
2.0L	121	1991	VIN A, MAZDA FS	1993-97	DOHC	L4	16V	PROBE	0.237	0.436	35-438
2.0L	121		VIN N, DURATEC	2005-09	DOHC	L4	16V	FOCUS	0.217	0.435	35-F23
2.0L	122	1998	VIN 3,B, Z ZETEC	1995-04	DOHC	L4	16V	AUTO,TRUCK	0.236	0.474	35-F20
2.0L	122		VIN P,	1997-04	SOHC	L4	8V	ESCORT, FOCUS	0.317	0.472	35-423
2.0L	122		VIN C	1983-88	SOHC	L4	8V	TRUCK	0.342	0.500	35-104
2.2L	133	2184	VIN C, L, MAZDA	1989-92	SOHC	L4	12V	PROBE, GT	0.276	0.476	35-435
2.3L	140		VIN Z, DURATEC	2004-09	DOHC	L4	16V	FOCUS,FUSION,MILAN	0.217	0.435	35-F23
2.3L	140		VIN D, Z, DURATEC	2001-09	DOHC	L4	16V	TRUCK	0.217	0.435	35-F23
2.5L	152	2497	VIN B, MAZDA KL	1993-97	DOHC	V6	12V	PROBE	0.237	0.436	35-438
2.5L	153		VIN C	1998-01	SOHC	L4	8V	TRUCK	0.276	0.495	35-309
2.5L	155		VIN G,L DURATEC	1995-02	DOHC	V6	24V	CONTOUR,COUGAR	0.236	0.495	35-F25
2.8L	171		VIN S	1983-86	OHV	V6	12V	PASS/TRUCK	0.317	0.502	35-408
2.9L	177		VIN T	1986-92	OHV	V6	12V	TRUCK	0.317	0.502	35-290
3.0L	182	2970	VIN 1,W NISSAN VG3	1993-98	SOHC	V6	12V	VILLAGER	0.276	0.434	35-503
3.0L	182		VIN 1,S DURATEC	2000-06	DOHC	V6	24V	LINCOLN VIN S	0.236	0.495	35-F25
3.0L	182		VIN 1, S DURATEC	1996-09	DOHC	V6	24V	PASS/VAN	0.236	0.495	35-F25
3.0L	182		VIN 1, G DURATEC	2001-09	DOHC	V6	24V	TRUCK	0.236	0.495	35-F25
3.0L	182		VIN 1,2,U	2000-08	OHV	V6	12V	AUTO,TRUCK	0.276	0.500	35-F30L
3.0L	182		VIN 1,2,U	1986-99	OHV	V6	12V	AUTO,TRUCK	0.315	0.530	35-F30

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
FORD (INCLUDES TRUCK, DIESEL & MERCURY) CONTINUED											
3.3L	199	3275	VIN T, NISSAN VG3	1999-02	SOHC	V6	12V	VAN,TRUCK	0.276	0.434	35-503L
3.3L	199	3275	VIN T, NISSAN VG3	1999-02	OHV	V6	12V	VAN,TRUCK	0.316	0.474	35-442
3.5L	213		VIN T,W DURATEC	2007-09	DOHC	V6	24V	SABLE, TAURUS, TRUCK			TBA
3.8L	232		VIN 3,4,R	2000-04	OHV	V6	12V	AUTO	0.276	0.495	35-F24
3.8L	232		VIN 4	1996-03	OHV	V6	12V	TRUCK	0.276	0.495	35-F24
3.8L	232		VIN 3,4,R	1996-99	OHV	V6	12V	AUTO	0.276	0.495	35-309
3.8L	232		VIN 3,4,R	1989-95	OHV	V6	12V	AUTO	0.344	0.499	35-108
3.8L	232		VIN 3,4,R	1984-88	OHV	V6	12V	AUTO	0.344	0.499	35-104
3.9L	238		VIN 6	2004-07	OHV	V6	12V	TRUCK	0.276	0.495	35-F24L
3.9L	242		VIN A	2000-06	DOHC	V8	32V	LINCOLN, T-BIRD	0.197		35-F39
4.0L	245		VIN N	2005-09	SOHC	V6	12V	MUSTANG	0.276	0.472	35-292
4.0L	244	4015	VIN X	1990-01	OHV	V6	12V	TRUCK	0.315	0.472	35-290
4.0L	244	4015	VIN E,K	1997-09	SOHC	V6	12V	TRUCK	0.276	0.472	35-292
4.2L	256		VIN 2	1999-08	OHV	V6	12V	TRUCK	0.276	0.495	35-F24L
4.2L	256		VIN 2	1997-98	OHV	V6	12V	TRUCK	0.276	0.495	35-309
4.6L	281		VIN 8, GAS ONLY	2006-09	SOHC	V8	24V	EXPLORER, MOUNTAINEER	0.237	0.436	35-F54
4.6L	281		VIN 6,9,V,W	1994-09	SOHC	V8	16V	AUTO,TRUCK	0.276	0.495	35-775
4.6L	281		VIN 6,9,V,W	1992-93	SOHC	V8	16V	AUTO	0.276	0.445	35-110
4.6L	281		VIN X	1996-04	SOHC	V8	16V	MUSTANG GT	0.276	0.495	35-775
4.6L	281		VIN R,V INTECH	1993-04	DOHC	V8	32V	AUTO	0.276	0.495	35-F46
4.6L	281		VIN H	2003-05	DOHC	V8	32V	AVIATOR	0.276	0.495	35-F46
4.6L	281		VIN H	2005-09	SOHC	V8	24V	MUSTANG,SHELBY	0.237	0.436	35-F54
4.9L	300		HEAVY DUTY	1965-79	OHV	L6	12V	TRUCK	0.344	0.502	35-304X
5.4L	330		VIN S SUPERCHARGED	2005-09	DOHC	V8	32V	MUSTANG SHELBY	0.276	0.495	35-775
5.4L	330		VIN L,M,Z TRITON	1997-09	SOHC	V8	16V	TRUCK	0.276	0.495	35-775
5.4L	330		VIN 5, V TRITON	2004-09	SOHC	V8	24V	ALL TRUCK-EXCEPT F150	0.237	0.436	35-F54
5.4L	330		VIN 5, V TRITON	2004-09	SOHC	V8	24V	F150- UNLEADED	0.237	0.436	35-F54
5.4L	330		VIN A,R INTECH	1999-04	DOHC	V8	32V	TRUCK	0.276	0.495	35-F46
6.0L	363		VIN P NAVISTAR	2003-09	OHV	V8	32V	DIESEL TRUCK	0.276	0.440	35-F60
6.6L	401		BRAZILIAN TURBO DIESEL	1986-94	OHV	L6	12V	TRUCK-DIRECT INJECTION	0.373	0.627	35-403
6.6L	401		BRAZILIAN TURBO DIESEL	1986-94	OHV	L6	12V	WITH ALL RUBBER SEAL	0.373	0.627	35-402
6.8L	415		VIN S, TRITON	1997-09	SOHC	V10	20V	TRUCK	0.276	0.495	35-775
6.8L	415		VIN Y, TRITON	2005-09	SOHC	V10	30V	HEAVY DUTY	0.237	0.436	35-F54
6.9L	421		VIN 1, NAVISTAR	1983-87	OHV	V8	16V	DIESEL TRUCK	0.374	0.627	35-690
7.0L	429		VIN 8, J MEDIUM DUTY	1991-98	OHV	V8	16V	LPG	0.344	0.562	35-305
7.0L	429		VIN C,K MEDIUM DUTY	1979-91	OHV	V8	16V	TRUCK	0.373	0.502	35-381
7.3L	445		VIN F. NAVISTAR	1994-03	OHV	V8	16V	DIRECT INJ./ POWERSTROKE	0.315	0.565	35-F73
7.3L	445		VIN C,K, NAVISTAR	1993-94	OHV	V8	16v	INDIRECT INJECTION	0.375	0.625	35-690
7.3L	445		VIN M, NAVISTAR	1988-95	OHV	V8	16V	TRUCK	0.375	0.625	35-690
7.5L	460		VIN A,J,L	1973-87	OHV	V8	16V	TRUCK	0.344	0.502	35-296
7.5L	460		VIN G	1992-97	OHV	V8	16V	TRUCK	0.343	0.562	35-305
7.5L	460		VIN G	1988-92	OHV	V8	16V	TRUCK	0.343	0.625	35-400
7.5L	460		VIN G	1988-97	OHV	V8	16V	TRUCK	0.344	0.502	35-400

When ordering, add suffix "V" for Viton, or "P" for Polyacrylic to the base part #



Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
FORD (INCLUDES TRUCK, DIESEL & MERCURY) CONTINUED											
7.8L	473		VIN A BRAZILIAN	1987-94	OHV	L6	12V	TRUCK	0.373	0.625	35-403
7.8L	473		VIN A BRAZILIAN	1987-94	OHV	L6	12V	ALL WITH RUBBER SEAL	0.373	0.625	35-402
GMC (INCLUDES GEO, GM CARS, SATURN, & GM TRUCK)											
1.0L	61	993	VIN 5,M, SUZUKI G10	1985-88	SOHC	L3	6V	SPRINT	0.275	0.476	35-700
1.0L	61	993	VIN 6, SUZUKI G10	1989-90	SOHC	L3	6V	METRO	0.217	0.436	35-701
1.3L	79	1295	VIN 9, SUZUKI G10	1995-97	SOHC	L4	16V	METRO	0.275	0.476	35-700
1.3L	79	1295	VIN 2, SUZUKI G10	1998-01	SOHC	L4	16V	METRO	0.217	0.436	35-701
1.5L	92	1471	VIN 7,K ISUZU 4XCI	1985-89	SOHC	L4	8V	SPECTRUM	0.275	0.455	35-456
1.6L	97	1588	VIN 4, TOYOTA 4ALC	1985-88	SOHC	L4	8V	NOVA	0.275	0.455	35-456
1.6L	97	1588	VIN 5, TOYOTA 4AGE	1988-92	DOHC	L4	16V	PRISM,NOVA	0.237	0.435	35-475
1.6L	98	1588	VIN 6, KOREAN	1988-93	SOHC	L4	8V	LEMANS	0.277	0.434	35-155
1.6L	98	1588	VIN 6, TOYOTA 4AFE	1989-97	DOHC	L4	16V	PRISM	0.237	0.436	35-475
1.6L	98	1588	VIN U, SUZUKI G16	1989-95	SOHC	L4	8V	TRACKER	0.275	0.476	35-700
1.6L	97	1588	VIN 6, SUZUKI G16	1994-00	SOHC	L4	16V	TRACKER -16	0.217	0.436	35-701
1.6L	98	1588	VIN 5, ISUZU 4XE	1990-91	DOHC	L4	16V	STORM	0.234	0.435	35-520
1.6L	98	1588	VIN 6, ISUZU 4XE	1990-93	SOHC	L4	12V	STORM	0.234	0.435	35-520
1.6L	98	1598	VIN 6,E, E-TEC	2004-08	DOHC	L4	16V	AVEO	0.236	0.435	35-DW1
1.8L	110	1788	VIN 8, ISUZU 4XF1	1992-93	DOHC	L4	16V	STORM	0.234	0.435	35-520
1.8L	110	1788	VIN 8, TOYOTA 7AFE	1993-97	DOHC	L4	16V	PRISM	0.237	0.436	35-475
1.8L	1794		VIN 8, TOYOTA 1ZZFE	1998-08	DOHC	L4	16V	PRISM, VIBE	0.216	0.410	T30I,E
1.8L	1795		VIN L, TOYOTA 2ZZGE	2003-06	DOHC	L4	16V	VIBE GT HIGH OUTPUT			TBA
1.9L	116		VIN 8,9 SATURN	1991-02	SOHC	L4	8V	SC1,SL,SL1,S	0.275	0.449	35-585
1.9L	116		VIN 7, SATURN	1999-02	DOHC	L4	16V	SC,SC2,SL2,	0.236	0.449	35-586
1.9L	116		VIN 7, SATURN	1991-98	DOHC	L4	16V	SC,SC2,SL2,	0.275	0.449	35-585
2.0L	122		VIN B,P ALUMINUM	1983-86	OHV	L4	8V	CAVALIER	0.315	0.502	35-320
2.0L	122		VIN B,P CAST IRON	1983-86	OHV	L4	8V	CAVALIER	0.315	0.502	35-320
2.0L	122		VIN 1, ALUMINUM	1987-89	OHV	L4	8V	BERETTA,CAVALIER	0.315	0.502	35-320
2.0L	122		VIN 1, CAST IRON	1987-89	OHV	L4	8V	BERETTA,CAVALIER	0.315	0.502	35-320
2.0L	122		VIN M, BRAZIL TURBO	1987-90	SOHC	L4	8V	GRAND AM,	0.277	0.434	35-155
2.0L	122		VIN K, BRAZIL	1987-91	SOHC	L4	8V	LEMANS, SUNBIRD	0.277	0.434	35-155
2.0L	122		VIN H, BRAZIL	1992-94	SOHC	L4	8V	SUNBIRD	0.277	0.434	35-155
2.0L	122		VIN P, ECOTEC TURBO	2004-07	DOHC	L4	16V	COBALT, ION	0.236	0.395	35-G20
2.0L	122		VIN X, ECOTEC TURBO	2007-09	DOHC	L4	16V	COBALT,HHR,	0.236	0.395	35-G20
2.0L	1995		VIN C, SUZUKI J20A	1999-04	DOHC	L4	6V	TRACKER	0.234	0.435	35-520
2.2L	134		VIN 4,5,G,H	1998-03	OHV	L4	8V	AUTO,TRUCK	0.315	0.513	35-G22
2.2L	134		VIN 4,5,G,H	1990-97	OHV	L4	8V	AUTO,TRUCK	0.315	0.502	35-320
2.2L	134		VIN B,D,F,H ECOTEC	2000-09	DOHC	L4	16V	AUTO	0.236	0.395	35-G20
2.2L	134		VIN D, ECOTEC	2002-07	DOHC	L4	16V	VUE	0.236	0.395	35-G20
2.3L	138		VIN D QUAD 4	1988-89	DOHC	L4	16V	AUTO	0.276	0.514	35-230
2.3L	138		VIN A	1990-95	SOHC	L4	8V	AUTO	0.276	0.514	35-230
2.4L	146		VIN T	1996-02	DOHC	L4	16V	AUTO	0.235	0.435	35-G24
2.4L	145		VIN 5,B,P,V,Z ECOTEC	2006-09	DOHC	L4	16V	AUTO,TRUCK	0.236	0.395	35-G20
2.5L	153	2494	VIN 4, SUZUKI H25A	2001-04	DOHC	V6	24V	TRACKER	0.234	0.435	35-520
2.8L	169		VIN 8	2004-06	DOHC	L4	16V	TRUCK	0.235	0.436	35-G35
2.8L	170		VIN T, CADILLAC	2006-07	DOHC	24V	cts				TBA

Valve Stem Seals *by Engine Pro*

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
GMC (INCLUDES GEO, GM CARS, SATURN, & GM TRUCK) CONTINUED											
2.9L	178		VIN 9	2007-09	DOHC	L4	16V	TRUCK			35-G29
3.0L	181		VIN B	2002-03	DOHC	V6	24V	TRUCK	0.235	0.347	35-BMW2
3.0L	181		VIN R, CATERA	1997-05	DOHC	V6	24V	CATERA, L30	0.235	0.347	35-BMW2
3.0L	181		VIN L	1985-88	OHV	V6	12V	AUTO	0.343	0.562	35-305
3.1L	181		VIN V, TURBO ALUMINUM	1989-90	OHV	V6	12V	AUTO	0.315	0.553	35-325
3.1L	181		VIN V, TURBO CAST IRON	1989-90	OHV	V6	12V	AUTO	0.315	0.553	35-325
3.1L	189		VIN T, ALUMINUM	1988-94	OHV	V6	12V	AUTO	0.315	0.553	35-325
3.1L	189		VIN T, CAST IRON	1988-94	OHV	V6	12V	AUTO	0.342	0.500	35-325
3.1L	189		VIN D	1990-95	OHV	V6	12V	LUMINA APV	0.315	0.553	35-325
3.1L	189		VIN W	1993	OHV	V6	12V	LUMINA	0.315	0.553	35-325
3.1L	189		VIN M	1994-99	OHV	V6	12V	AUTO	0.315	0.514	35-G31
3.1L	189		VIN J	2000-05	OHV	V6	12V	AUTO	0.315	0.553	35-G31L
3.2L	197		VIN N	2003-04	DOHC	V6	24V	CADILLAC	0.235	0.347	35-BMW2
3.3L	204		VIN N	1989-93		V6	12V	AUTO	0.344	0.502	35-F2TZ
3.4L	207		VIN X, QUAD 4	1991-97	DOHC	V6	24V	AUTO	0.275	0.512	35-230
3.4L	207		VIN S	1993-95	OHV	V6	12V	CAMARO, FIREBIRD	0.275	0.512	35-230
3.4L	207		VIN E	2000-09	OHV	V6	12V	AUTO, TRUCK	0.315	0.553	35-G31L
3.4L	207		VIN E	1998-99	OHV	V6	12V	AUTO	0.315	0.514	35-G31
3.4L	207		VIN E, F	1996-97	OHV	V6	12V	TRUCK	0.315	0.514	35-G31
3.5L	211		VIN 6, 5CYL	2004-06	DOHC	L5	20V	TRUCK	0.235	0.436	35-G35
3.5L	213		VIN 8, L, X	2004-07	OHV	V6	12V	AUTO	0.315	0.553	35-G31L
3.5L	213		VIN K, N	2006-09	OHV	V6	12V	AUTO, TRUCK	0.315	0.500	35-900
3.5L	214		VIN H	1999-02	DOHC	V6	24V	AURORA, INTRIGUE	0.235	0.436	35-G35
3.5L	216	3474	VIN 4, HONDA J35A3	2004-07	SOHC	V6	24V	VUE			TBA
3.6L	217		VIN 7, V	2004-09	DOHC	V6	24V	AUTO			35-G36
3.7L	223		VIN E	2007-09	DOHC	L5	20V	TRUCK			35-G29
3.8L	231		VIN 2,3,B,C,K,L	1996-09	OHV	V6	12V	AUTO, TRUCK	0.315	0.502	35-306
3.8L	231		VIN 2,3,B,C,K,L	1987-95	OHV	V6	12V	AUTO, TRUCK	0.342	0.502	35-305
3.8L	231		VIN 1,4 SUPERCHARGED	1996-07	OHV	V6	12V	AUTO	0.315	0.502	35-306
3.9L	239		VIN L, CUMMINS	1989-91	OHV	L4	8V	DIESEL TRUCK	0.315	0.500	35-320
3.9L	235		VIN 1,3,L,M,R	2006-09	OHV	V6	12V	AUTO, TRUCK	0.315	0.500	35-900
4.0L	244		VIN C NORTHSTAR	2001-03	DOHC	V8	32V	AURORA	0.235	0.436	35-G35
4.0L	244		VIN C NORTHSTAR	1995-00	DOHC	V8	32V	AURORA	0.233	0.433	35-G40
4.1L	252		VIN 7,8 CADILLAC	1986-88	OHV	V8	16V	CADILLAC	0.344	0.492	35-125
4.2L	256		VIN S, VORTEC	2006-08	DOHC	L6	24V	TRUCK			35-G29
4.2L	256		VIN S, VORTEC	2002-05	DOHC	L6	24V	TRUCK	0.235	0.436	35-G35
4.3L	262		VIN W, X, VORTEC	1996-09	OHV	V6	12V	TRUCK			35-371
4.3L	262		VIN Z	1985-95	OHV	V6	12V	AUTO, TRUCK	0.343	0.530	35-305
4.3L	265		VIN W, CHEVROLET	1994-96	OHV	V8	16V	CAPRICE HI-PERF	0.344	0.502	35-133
4.4L	267		VIN D SUPERCHARGED	2006-09	DOHC		32V	CADILLAC	0.235	0.436	35-G35
4.5L	273		VIN 3,5,8	1988-92	OHV	V8	16V	CADILLAC	0.344	0.502	35-125
4.6L	279		VIN 9,A,Y NORTHSTAR	2000-09	DOHC	V8	32V	AUTO, TRUCK	0.235	0.436	35-G35
4.6L	279		VIN A	2004-06	DOHC	V8	32V	SRX	0.235	0.436	35-G35
4.6L	279		VIN 9,A,Y NORTHSTAR	1993-99	DOHC	V8	32V	AUTO	0.233	0.433	35-G40
4.8L	294		VIN C, V, VORTEC	1999-09	OHV	V8	16V	TRUCK	0.315	0.500	35-900

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
GMC (INCLUDES GEO, GM CARS, SATURN, & GM TRUCK) CONTINUED											
4.8L	294		VIN C, V, VORTEC	1999-01	OHV	V8	16V	TRUCK	0.315	0.500	35-805
4.9L	300		VIN B, CADILLAC	1991-95	OHV	V8	16V	CADILLAC	0.344	0.492	35-125
5.0L	305		VIN H, M	1996-02	OHV	V8	16V	TRUCK	0.343	0.530	35-305
5.0L	305		VIN H, M	1998-02	OHV	V8	16V	TRUCK	0.342	0.552	35-371
5.3L	323		VIN C, HIGH OUTPUT	2009	OHV	V8	16V	AUTO,TRUCK,	0.315	0.500	35-900
5.3L	323		VIN C	2005-08	OHV	V8	16V	AUTO,TRUCK	0.315	0.500	35-900
5.3L	325		VIN 0,3,4,B,J,L,M,	2002-07	OHV	V8	16V	VORTEC TRUCK	0.315	0.500	35-900
5.3L	325		VIN 0,3,4,B,J,L,M,	1999-01	OHV	V8	16V	VORTEC TRUCK	0.315	0.500	35-805
5.7L	346		VIN G, LS1	2001-04	OHV	V8	16V		0.315	0.505	35-900
5.7L	346		VIN G, LS1	1997-01	OHV	V8	16V		0.315	0.505	35-805
5.7L	350		VIN S, LS6	2002-05	OHV	V8	16V	CORVETTE	0.315	0.505	35-900
5.7L	350		VIN S, LS6	2001	OHV	V8	16V	CORVETTE	0.315	0.505	35-805
5.7L	350		VIN K	1989-95	OHV	V8	16V	TRUCK	0.344	0.502	35-305
5.7L	350		VIN K	1989-95	OHV	V8	16V	TRUCK	0.373	0.502	35-348
5.7L	350		VIN R, VORTEC	1996-02	OHV	V8	16V	TRUCK	0.342	0.552	35-371
5.7L	350		VIN LT1 VORTEC	1994-97	OHV	V8	16V	AUTO	0.342	0.552	35-233
5.7L	350		VIN LT1 VORTEC	1992-93	OHV	V8	16V	AUTO	0.342	0.552	35-371
6.0L	364		VIN U,Y VORTEC	2005-09	OHV	V8	16V	CORVETTE,GTO	0.315	0.500	35-900
6.0L	364		VIN K, Y VORTEC:	2005-09	OHV	V8	16V	TRUCK	0.315	0.500	35-900
6.0L	364		VIN 5,H,N,U,	1991-01	OHV	V8	16V	TRUCK	0.313	0.500	35-805
6.0L	364		VIN 5,H,N,U,	2001-09	OHV	V8	16V	TRUCK	0.315	0.500	35-900
6.0L	366		VIN L	1984-98	OHV	V8	16V	MD TRUCK	0.342	0.530	35-270
6.2L	378		VIN 2,8, VORTEC	2007-09	OHV	V8	16V	TRUCK	0.315	0.500	35-900
6.2L	376		VIN W, LS3	2008-09	OHV	V8	16V	CORVETTE	0.315	0.500	35-900
6.2L	381		VIN J DIESEL	1984-87		V8	16V	TRUCK	0.342	0.500	35-296
6.2L	381		VIN C DIESEL	1982-93		V8	16V	TRUCK	0.342	0.500	35-304X
6.5L	395		VIN F,S, TURBO	1992-04		V8	16V	DIESEL	0.373	0.615	35-G65
6.5L	395		VIN P,Y DIESEL	1994-99		V8	16V	DIESEL	0.373	0.615	35-G65
6.6L	400		VIN 1,2,3,6 DURAMAX	2001-09		V8	32V	DIESEL	0.276	0.454	35-G66
7.0L	427		VIN E, ZO6	2006-09	OHV	V8	16V	CORVETTE	0.315	0.500	35-900
7.0L	427		MEDIUM DUTY	1968-97		V8	16V	TRUCKS	0.374	0.625	35-269
7.4L	454		TRUCK	1971-90	OHV	V8	16V	CHEV & TRUCK	0.374	0.625	35-269
7.4L	454		TRUCK	1987-00	OHV	V8	16V	CHEV & TRUCK	0.374	0.625	35-296
8.1L	496		VIN G, VORTEC	2001-07	OHV	V8	16V	TRUCK	0.373		35-G81
HONDA											
1.0L	61	995	ECA1-3VPC	2000-06	SOHC	L3	8V	INSIGHT, HYBRID	0.217	0.436	35-592
1.3L	82	1339	LDA-MF5	2003-08	SOHC	L4	8V	CIVIC HYBRID	0.217	0.436	35-592
1.3L		1342	EV1, D13A2	1984-87	DOHV	L4	16V	CIVIC	0.260	0.475	35-454
1.3L		1342	EW1, HIGH FUEL	1984-87	DOHV	L4	16V	CIVIC	0.260	0.475	35-454
1.5L		1487	EW1,	1984-87	SOHC	L4	12V	CIVIC,CRX	0.260	0.475	35-454
1.5L		1487	EW3,EW4	1985-87	SOHC	L4	12v	CIVIC,CRX	0.260	0.475	35-454
1.5L		1487	D15A2	1987	SOHC	L4	12V	CIVIC,CRX	0.260	0.475	35-454
1.5L		1487	D15A3	1987	SOHC	L4	12V	CIVIC,CRX	0.260	0.475	35-454
1.5L	91	1493	D15B1,D15B2,D15B6	1988-91	SOHC	L4	16V	CIVIC,CRX	0.217	0.436	35-592
1.5L		1493	D15B7	1992-95	SOHC	L4	16V	CIVIC,DEL SOL	0.217	0.436	35-592
1.5L		1493	D15B8	1992-95	SOHC	L4	16V	CIVIC	0.217	0.436	35-592

Valve Stem Seals *by Engine Pro*

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
HONDA CONTINUED											
1.5L		1493	D15Z1	1992-95	SOHC	L4	16V	CIVIC	0.217	0.436	35-592
1.5L		1497	L15A1	2007-08	SOHC	L4	16V	FIT	0.217	0.436	35-592
1.6L	97	1590	D16A6	1988-91	SOHC	L4	16V	CIVIC SI, CRX	0.217	0.436	35-592
1.6L		1590	D16Y5	1996-00	SOHC	L4	16V	CIVIC HX	0.217	0.436	35-592
1.6L		1590	D16Y7	1996-00	SOHC	L4	16V	CIVIC,DEL SOL	0.217	0.436	35-592
1.6L		1590	D16Y8	1996-00	SOHC	L4	16V	CIVIC EX, DE	0.217	0.436	35-592
1.6L		1590	D16Z6 VTEC	1992-95	SOHC	L4	16V	CIVIC,DEL SOL	0.217	0.436	35-592
1.6L		1595	B16A2	1996-00	DOHC	L4	16V	CIVIC,DEL SOL	0.217	0.436	35-592
1.6L	97	1595	B16A3	1994-97	DOHC	L4	16V	CIVIC DEL SOL	0.217	0.436	35-592
1.7L	102	1668	D17A1	2001-05	SOHC	L4	16V	CIVIC	0.217	0.436	35-592
1.7L		1668	D17A2, VTEC	2001-05	SOHC	L4	16V	CIVIC EX, VTEC	0.217	0.436	35-592
1.7L		1668	D17A6, VTEC-E	2001-05	SOHC	L4	16V	CIVIC HX, VTEC	0.217	0.436	35-592
1.7L		1668	D17A7, CNG	2001-05	SOHC	L4	16V	CIVIC, NATURAL GAS	0.217	0.436	35-592
1.8L		1799	R18A1	2006-09	SOHC	L4	16V	CIVIC	0.217	0.436	35-592
1.8L		1799	R18A4	2006-08	SOHC	L4	16V	CIVIC GX	0.217	0.436	35-592
1.8L	112	1829	ET2	1984-86	SOHC	L4	12V	PRELUDE	0.260	0.475	35-454
1.8L	112	1829	A18A1	1987	SOHC	L4	12V	PRELUDE	0.260	0.475	35-454
2.0L	119	1955	A20A1	1987-89	SOHC	L4	12V	ACCORD	0.260	0.475	35-454
2.0L	119	1955	A20A3	1987-89	SOHC	L4	12V	ACCORD	0.260	0.475	35-454
2.0L	119	1955	BS,BT	1986	SOHC	L4	12V	ACCORD	0.260	0.475	35-454
2.0L	119	1958	B20A3	1988-90	SOHC	L4	12v	PRELUDE	0.260	0.475	35-454
2.0L	119	1958	B20A5	1988-91	SOHC	L4	12v	PRELUDE	0.260	0.475	35-454
2.0L	121	1972	B20B4	1997-98	DOHC	L4	16V	CR-V	0.260	0.476	35-PT2
2.0L	121	1972	B20Z2	1999-01	DOHC	L4	16V	CR-V	0.260	0.476	35-PT2
2.0L		1997	F20C1, VTEC	2000-03	DOHC	L4	16V	S2000, VTEC	0.217	0.436	35-592
2.0L	122	1998	K20A3	2002-05	DOHC	L4	16V	CIVIC SI	0.217	0.436	35-592
2.1L	125	2056	B21A1	1990-91	DOHC	L4	16V	PRELUDE	0.260	0.476	35-PT2
2.2L	132	2156	F22A1,F22A4,F22A6	1990-96	SOHC	L4	16V	ACCORD,PRE	0.217	0.436	35-592
2.2L	132	2156	F22B1, VTEC	1994-97	SOHC	L4	16V	ACCORD, VTEC	0.217	0.436	35-592
2.2L	132	2156	F22B2	1994-97	SOHC	L4	16V	ACCORD	0.217	0.436	35-592
2.2L	132	2156	F22B6	1995-97	SOHC	L4	16V	ODYSSEY	0.217	0.436	35-592
2.2L	132	2156	H22A1, VTEC	1993-96	DOHC	L4	16V	PRELUDE, VTEC	0.217	0.436	35-592
2.2L	132	2156	H22A4, VTEC	1997-01	DOHC	L4	16V	PRELUDE, VTEC	0.217	0.436	35-592
2.2L	132	2156	F22C1	2004-08	DOHC	L4	16v	S2000	0.217	0.436	35-592
2.3L	138	2254	F23A1,A4,A5,A7	1998-02	SOHC	L4	16V	ACCORD, ODYESSY	0.217	0.436	35-592
2.3L	138	2259	H23A1	1992-96	DOHC	L4	16V	PRELUDE	0.260	0.476	35-PT2
2.4L	143	2354	K24A1	2002-08	DOHC	L4	16V	CR-V	0.217	0.436	35-592
2.4L	143	2354	K24A4	2003-08	DOHC	L4	16V	ELEMENT	0.217	0.436	35-592
2.4L	143	2354	K24A4	2003-05	DOHC	L4	16V	ACCORD	0.217	0.436	35-592
2.4L	143	2354	K24A8	2006-09	DOHC	L4	16V	ACCORD	0.217	0.436	35-592
2.6L	156	2559	ISUZU 4ZE1	1994-96	SOHC	L4	8V	PASSPORT	0.314	0.474	35-442
2.7L	163	2675	C27A4	1995-97	SOHC	V6	24V	ACCORD	0.260	0.476	35-PT2
3.0L	183	2997	J30A1, VTEC	1998-02	SOHC	V6	24V	ACCORD, VTEC	0.217	0.436	35-592
3.0L	183	2997	J30A4	2003-05	SOHC	V6	24V	ACCORD	0.217	0.436	35-592
3.0L	183	2997	J30A5	2006-08	SOHC	V6	24V	ACCORD	0.217	0.436	35-592
3.2L	193	3165	ISUZU 6VD1	1994-97	SOHC	V6	24V	PASSPORT	0.234	0.435	35-520

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
HONDA CONTINUED											
3.2L	193	3165	ISUZU 6VD1W	1998-02	DOHC	V6	24V	PASSPORT	0.234	0.435	35-520
3.5L	213	3474	J35A1	1999-01	SOHC	V6	24V	ODYSSEY	0.217	0.436	35-592
3.5L	213	3474	J35A4	2002-04	SOHC	V6	24V	ODYSSEY	0.217	0.436	35-592
HYUNDAI											
1.5L	89	1468	VIN J, G4AJ MITSU	1986-89	SOHC	L4	8V	EXCEL	0.260	0.475	35-550
1.5L	89	1468	VIN J, G4DJ MITSU	1990-94	SOHC	L4	8V	EXCEL,SCOUPE	0.260	0.475	35-550
1.5L	91	1495	VIN N, G4EK	1993-02	SOHC	L4	12V	ACCENT,SCOUPE	0.236	0.436	35-553
1.5L	91	1495	VIN N, G4EK	1996-98	DOHC	L4	16V	ACCENT	0.236	0.436	35-553
1.6L	97	1596	VIN R, MITSUBISHI	1992-95	DOHC	L4	16V	ELANTRA	0.260	0.475	35-550
1.6L	97	1596	VIN C,N, G4ED	2001-09	DOHC	L4	16V	ACCENT	0.260	0.475	35-550
1.6L	110	1796	VIN M, G4GM	1996-98	DOHC	L4	16V	ELANTRA,TIBURON	0.236	0.436	35-553
1.8L	97	1836	VIN M, G4CN, 4G	1993-95	DOHC	L4	16V	ELANTRA	0.260	0.475	35-550
2.0L	120	1975	VIN F, G4GF	1997-01	DOHC	L4	16V	ELANTRA 97-00	0.236	0.436	35-553
2.0L	120	1975	VIN B,D,E,F,G4GF	2001-09	DOHC	L4	16V	ELANTRA,TIBURON	0.236	0.436	35-553
2.0L	122	1997	VIN F,G4CP, 4G6	1992-98	DOHC	L4	16V	SONATA	0.260	0.475	35-550
2.4L	143	2350	VIN S, G4CS, 4G6	1989-91	SOHC	L4	8v	SONATA	0.315	0.514	35-453
2.4L	143	2350	VIN S, G4JS, 4G6	1999-05	DOHC	L4	16V	SANTA FE, SONATA	0.260	0.475	35-550
2.4L	143	2359	G4KC	2006-09	DOHC	L4	16V	SONATA			TBA
2.5L	152	2493	VIN V, G6BV	1999-01	DOHC	V6	24V	SONATA	0.236	0.436	35-553
2.7L	162	2657	VIN D,F, G6BA	2001-08	DOHC	V6	24V	SANTA FE,SONATA	0.236	0.436	35-553
2.7L	162	2657	VIN D, G6A5	2007-08	DOHC	V6	24V	SANTA FE	0.236	0.436	35-553
3.0L	181	2972	VIN T, G6AT 6G72	1990-98	SOHC	V6	12V	SONATA	0.315	0.514	35-453
3.0L	181	2972	G6AT	2001	SOHC	V6	24V	XG300	0.260	0.475	35-550
3.3L		3342	G6DB	2006-09	DOHC	V6	24V	AZERA,SANTA FE	0.260	0.475	35-550
3.5L	213	3467	VIN E, G6AU	2002-06	DOHC	V6	24V	SANTA FE, XG	0.260	0.475	35-550
3.8L		3778	G6DB LAMBDA	2006-09	DOHC	V6	24V	ENTOURAGE, VERACRUZ			TBA
INFINITY											
2.0L	122	1998	VIN C, NISSAN SR20D	1991-02	DOHC	L4	16V	G20	0.236	0.395	35-504
3.0L	181	2960	VIN A, NISSAN VG30	1993-97	DOHC	V6	24V	J30	0.236	0.395	35-504
3.0L	181	2988	VIN C, NISSAN VQ30	1998-01	DOHC	V6	24V	I30	0.236	0.395	35-504
3.3L	199	3275	VIN A, NISSAN VG33E	1997-00	SOHC	V6	12V	QX4	0.276	0.434	35-503L
3.3L	199	3275	VIN A, NISSAN VG33E	1997-00	SOHC	V6	12V	QX4	0.316	0.474	35-442
3.5L	213	3498	NISSAN VQ35DE	2001-08	DOHC	V6	24V	FX35,G35,I3	0.236	0.395	35-504
3.5L	213	3498	NISSAN VQ35HR	2007-09	DOHC	V6	24V	EX35,FX35,G	0.236	0.395	35-504
4.5L	274	4494	NISSAN VH45DE	1990-96	DOHC	V8	32V	Q45	0.276	0.434	35-503
4.5L	274	4494	NISSAN VH45DE	1990-96	DOHC	V8	32V	Q45	0.275	0.474	35-435
4.5L	274	4494	NISSAN VK45DE	2002-08	DOHC	V8	32V	FX45,M45,Q	0.236	0.395	35-504
5.6L		5552	NISSAN VK56DE	2005-08	DOHC	V8	32V	QX56	0.236	0.395	35-504
INTERNATIONAL											
			OE# 1815374C1					DT466 7.6L, B,D,& E	0.352	0.608	35-DT466
			OE# 1833432C1					DT466 4VPC 24V 2005 +	0.281	0.529	35-DT466-24
			OE# 1823925C1					L6 466, 530, 408 WITH 3/8 VALVE	0.342	0.608	35-DT530
			OE# 1822245C1					L6 466, 530, 408 WITH 5/16 VALVE	0.295	0.610	35-DT535
			OE# 1816179C91					** SEE FORD POWER STROKE **			35-F73

Valve Stem Seals *by Engine Pro*

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
INTERNATIONAL CONTINUED											
			(F4TZ6571AA)								
			OE# E7HZ6571A & B					** SEE FORD SECTION **			
			OE# F1HZ6571B					** SEE FORD SECTION **			
			OE# E3TZ6571A					** SEE FORD SECTION **			
ISUZU											
2.2L		2198	VIN D, X22SE	1998-03	DOHC	L4	16V	AMIGO, RODEO	0.236	0.347	35-BMW2
2.2L	134		VIN 4, GM ENGINE	1996-97	OHV	L4	8V	HOMBRE	0.276	0.500	35-322
2.2L	134		VIN 4, GM ENGINE	1998-00	OHV	L4	8V	HOMBRE	0.276	0.500	35-G22
2.2L	137		4BD1T,4BD2T, NPR					NPR DIESEL-INDUSTRIAL	0.354	0.552	35-4BD1
2.3L		2254	HONDA F23A7	1998-99	SOHC	L4	16V	OASIS	0.217	0.436	35-592
2.3L	138	2254	VIN L, 4ZD1	1986-95	SOHC	L4	8V	AMIGO, TRUCK	0.314	0.474	35-442
2.6L	156	2559	VIN E, 4ZE1	1993-97	SOHC	L4	8V	PICKUP, TROOPER	0.314	0.474	35-442
2.8L	169		VIN 8, GM VORTEC	2006	DOHC	L4	16V	I280	0.236	0.436	35-G35
2.9L	178		VIN 9, GM ENGINE	2007-08	DOHC	L4	16V	I290	0.236	0.436	35-G29
3.1L	191	3137	VIN Z, GM ENGINE	1991-94	OHV	V6	12V	PICKUP, TROOPER	0.315	0.500	35-325
3.2L	193	3165	6VD1	1992-95	SOHC	V6	24V	TROOPER	0.234	0.435	35-520
3.2L	193	3165	VIN V, 6VD1V	1992-97	DOHC	V6	24V	RODEO, TROOPER	0.234	0.435	35-520
3.2L	193	3165	VIN W, 6VD1W	1998-04	DOHC	V6	24V	AMIGO, RODEO	0.234	0.435	35-520
3.5L	193	3165	VIN X,Y, 6VE1	1998-04	DOHC	V6	24V	AXIOM, RODEO	0.234	0.435	35-520
3.5L	211		VIN 6, GM VORTEC	2006	DOHC	L5	20V	I350	0.236	0.436	35-G35
3.7L	223		VIN E, GM ENGINE	2007-09	DOHC	L5	20V	I370			35-G29
4.2L	256	4160	VIN S, GM VORTEC	2003-06	DOHC	L6	24V	ASCENDER	0.236	0.436	35-G35
4.2L	256	4160	VIN S, GM VORTEC	2007-09	DOHC	L6	24V	ASCENDER			35-G29
5.3L	323	5328	VIN M,P GM VORTEC	2003-06	OHV	V8	16V		0.315	0.500	35-900
JOHN DEERE											
			METAL BODIED UNIVERSAL					L3 135,164,180, 201, 227,340,341,404, 466	0.373	0.562	35-377
			POWER TECH DIESEL					2.9L, 3.9L, 4.9L, 5.9L, 179CID, 239CID, 276CID, 359CID, 414CID	0.312	0.502	35-325
			METAL BODIED UNIVERSAL					404A, 404T	0.375	0.626	35-403
KIA											
1.5L	91	1493	A5D,DC	2001-02	DOHC	L4	16V	RIO	0.217	0.376	35-53Y
1.6L		1594	A6D	2003-05	DOHC	L4	16V	RIO	0.217	0.376	35-53Y
1.6L	97	1597	VIN 1, MAZDA B6	1994-95	SOHC	L4	16V	SEPHIA	0.237	0.436	35-438
1.6L	97	1597	VIN 3,4, MAZDA B6Z	1996-97	DOHC	L4	16V	SEPHIA	0.237	0.436	35-438
1.6L	96	1599	VIN 3, HYUNDAI G4E	2006-09	DOHC	L4	16V	RIO	0.236	0.436	35-475
1.8L	109	1793	VIN 1, 5BP,FB	1998-04	DOHC	L4	16V	SEPHIA,SPECTRA	0.237	0.436	35-438
1.8L	112	1839	VIN 5, MAZDA BP	1995-97	DOHC	L4	16V	SEPHIA	0.237	0.436	35-438
2.0L	121	1975	VIN 1,2, HYUNDAI	2004-09	DOHC	L4	16V	SPECTRA, SPORTAGE	0.236	0.436	35-475
2.0L	122	1998	VIN 3, MAZDA FE	1995-96	SOHC	L4	8V	SPORTAGE	0.318	0.553	35-433
2.0L	122	1998	VIN 1, MAZDA FE	1995-02	DOHC	L4	16v	SPORTAGE	0.237	0.436	35-438
2.4L	143	2351	VIN 6, HYUNDAI G4JS	1999-06	DOHC	L4	16V	OPTIMA	0.260	0.475	35-550
2.4L		2359	HYUNDAI G4KC	2006-09	DOHC	L4	6V	OPTIMA,RONDO			TBA
2.5L	152	2493	HYUNDAI G6BV	2001	DOHC	V6	24V	OPTIMA	0.236	0.436	35-475

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
KIA CONTINUED											
2.7L	162	2657	VIN 8, HYUNDAI G6B	2002-07	DOHC	V6	24V	OPTIMA,SPORTAGE	0.236	0.436	35-475
2.7L	162	2657	VIN 4,6, HYUNDAI	2007-09	DOHC	V6	24V	OPTIMA,RONDO	0.236	0.436	35-475
3.5L	213	3497	VIN 1,4, HYUNDAI	2002-06	DOHC	V6	24V	AMANTI,SEDONA	0.260	0.475	35-550
LEXUS											
2.5L		2499	4GRFSE	2006-09	DOHC	V6	24V	IS250	0.216	0.407	35-T30I
2.5L	153	2507	VIN V, 2VZFE	1990-91	DOHC	V6	24V	ES250	0.237	0.435	35-475
3.0L	181	2958	VIN V, 3VZFE	1992-93	DOHC	V6	24V	ES300	0.237	0.435	35-475
3.0L	183	2994	3GRFSE	2006	DOHC	V6	24V	GS300	0.216	0.407	35-T30I
3.0L	183	2995	VIN F,G, 1MZFE	1994-03	DOHC	V6	24V	ES300,RX300	0.237	0.435	35-475
3.0L	183	2997	VIN D,J, 2JZGE	1992-05	DOHC	V6	24V	GS300,IS300	0.237	0.435	35-438
3.3L		3310	3MZFE	2004-09	DOHC	V6	24V	ES330,RX330,RX400	0.216	0.407	35-T30I
3.5L		3456	2GRFE	2007-09	DOHC	V6	24V	ES350,RX350	0.216	0.407	35-T30I
3.5L		3456	2GRFSE HYBRID	2006-08	DOHC	V6	24V	GS350,GS450	0.216	0.407	35-T30I
4.0L	242	3969	VIN H,U,1UZFE	1990-97	DOHC	V8	32V	GS400,LS400,SC400	0.237	0.435	35-475
4.0L	242	3969	VIN H,U,1UZFE	1998-00	DOHC	V8	32V	GS400,LS400,SC400	0.216	0.407	35-T30E
4.3L	262	4293	3UZFE	2001-09	DOHC	V8	32V	GS430,LS430	0.216	0.407	35-T30E
4.7L		4663	2UZFE	1998-09	DOHC	V8	32V	GX470,LX470	0.216	0.407	35-T30E
5.0L	284	4969	2URGSE	2008-09	DOHC	V8	32V	ISF	0.216	0.407	35-T30I
5.0L		4969	2URSFSE HYBRID	2008-09	DOHC	V8	32V	LS600H	0.216	0.407	35-T30I
5.7L		5663	3URFE	2008-09	DOHC	V8	32V	LX570	0.216	0.407	35-T30I
MACK											
			OE# 446GC296, 446GC328					672-E6 & 7	0.336	0.651	35-MACK3
			OE# 446GC332, 256331889					L6 672CID	0.373	0.585	35-MACK4
			OE# 446GC279					672,673,675, 6.0L 2-VALVE, LATE MODEL	0.482	0.654	35-545
MAZDA											
1.5L	90	1489	Z5-DE	1995-98	DOHC	L4	16V	PROTÉGÉ	0.217	0.436	35-592
1.5L	97	1590	ZM	1999-01	DOHC	L4	16V	PROTÉGÉ	0.237	0.435	35-438
1.6L	97	1597	B6	1986-94	SOHC	L4	8V	323	0.275	0.474	35-435
1.6L	97	1597	B6,TURBO	1988-89	DOHC	L4	16V	323 TURBO	0.237	0.435	35-438
1.6L	97	1597	B6ZE	1990-95	DOHC	L4	16V	MIATA,MX3	0.237	0.435	35-438
1.8L	112	1839	BP012	1990-94	SOHC	L4	16V	PROTÉGÉ	0.237	0.435	35-438
1.8L	112	1839	BP	1999-98	DOHC	L4	16V	MIATA,PROTEGÉ	0.237	0.436	35-438
1.8L	112	1839	BP	1998-02	DOHC	L4	16V	MIATA	0.237	0.436	35-438
1.8L	112	1839	FP	1998-00	DOHC	L4	16V	PROTÉGÉ	0.237	0.436	35-438
1.8L		1845	K8	1992-94	DOHC	V6	24V	MX3	0.237	0.436	35-438
2.0L	122	1991	FS	1993-03	DOHC	L4	16V	626,MX6,P	0.237	0.436	35-438
2.0L	121	1991	FORD ZETEC	2001-04	DOHC	L4	16V	TRIBUTE	0.236	0.474	35-F20
2.0L		1999	VIN F,G	2004-09	DOHC	L4	16V	3,MX5,MIATA	0.217	0.435	35-F23
2.2L	133	2184	F2	1987-93	SOHC	L4	8V	B2200	0.318	0.553	35-433
2.2L	133	2184	F2 TURBO	1988-92	SOHC	L4	12V	626,MX6, TURBO	0.276	0.476	35-435
2.2L	133	2184	F2	1988-92	SOHC	L4	12V	626,MX6, NON TURBO	0.276	0.476	35-435
2.3L		2254	KJ	1995-02	DOHC	V6	24V	MILLENNIA	0.237	0.436	35-438
2.3L		2261	VIN3,4,L	2003-09	DOHC	L4	16V	3,5,6,CX7	0.217	0.435	35-F23
2.3L		2295	VIN A, FORD	1994	SOHC	L4	8V	B2300	0.344	0.562	35-305

Valve Stem Seals *by Engine Pro*

When ordering, add suffix "V" for Viton, or "P" for Polyacrylic to the base part #

Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
MAZDA CONTINUED											
2.3L		2295	VIN A, FORD	1995-97	SOHC	L4	8V	B2300	0.276	0.495	35-309
2.3L		2300	VIN D,Z, DURATEC	2001-08	SOHC	L4	16V	B2300,TRIBUTE	0.217	0.435	35-F23
2.5L	152	2492	VIN C FORD	1998-01	SOHC	L4	8V	B2500	0.276	0.495	35-309
2.5L	153	2497	KL	1993-02	DOHC	V6	24V	626,MILLENNIA	0.237	0.436	35-438
2.6L	156	2555	MITSUBISHI G54B	1987-88	SOHC	L4	12V	B2600	0.315	0.514	35-453
2.6L	159	2606	G6	1989-94	SOHC	L4	12V	B2600, MPV	0.276	0.476	35-435
3.0L	180	2954	JE30,JE39	1988-98	SOHC	V6	18V	929,MPV	0.276	0.476	35-435
3.0L	180	2954	JE48,JE47	1992-95	DOHC	V6	24V	929	0.237	0.435	35-438
3.0L	180	2954	JE48,JE47	1990-91	DOHC	V6	24V	929	0.276	0.476	35-435
3.0L	183	2967	VIN U,V, FORD	1994-99	OHV	V6	12V	B3000	0.315	0.530	35-F30
3.0L	183	2967	VIN U,V, FORD	2000-07	OHV	V6	24V	B3000	0.276	0.500	35-F30L
3.0L	183	2967	VIN 1,AJ, FORD DURATEC	2001-08	DOHC	V6	24V	6,MPV,TRIBUTE	0.236	0.495	35-F25
4.0L	244	4016	VIN X, FORD	1991-00	OHV	V6	12V	B4000,NAVAJO	0.317	0.502	35-290
4.0L	244	4016	VIN E, FORD	2001-08	SOHC	V6	12V	B4000	0.276	0.472	35-292
MERCEDES BENZ — SEE SIZE & STYLE LISTINGS BEGINNING ON PAGE 21											
MERCURY MARINE — SEE SIZE & STYLE LISTINGS BEGINNING ON PAGE 21											
MITSUBISHI											
1.5L	89	1468	VIN A, 4G15	1991-02	SOHC	L4	12V	MIRAGE	0.260	0.475	35-550
1.5L	89	1468	VIN K, G15B	1985-88	SOHC	L4	8V	MIRAGE	0.260	0.475	35-550
1.5L	89	1468	VIN X,4G15	1989-90	SOHC	L4	8V	MIRAGE	0.260	0.475	35-550
1.5L	89	1468	VIN J, G4DJ	1990-94	SOHC	L4	8V	PRECIS	0.260	0.475	35-550
1.6L	97	1595	VIN Z, 4G61, TURBO	1989	DOHC	L4	16V	MIRAGE TURBO	0.260	0.475	35-550
1.6L	97	1595	VIN Y	1991-92	SOHC	L4	16V	MIRAGE	0.260	0.475	35-550
1.8L	107	1755	VIN B,T, 4G37	1990-94	SOHC	L4	8V	ECLIPSE	0.315	0.514	35-453
1.8L	110	1795	VIN G, G62B	1984-88	SOHC	L4	8V	CORDIA,TREDIA	0.315	0.514	35-453
1.8L	112	1834	CIN C,D,K, 4G93	1993-02	SOHC	L4	16V	EXPO, MIRAGE	0.235	0.436	35-553
2.0L	122	1997	VIN Y, 420A CHRY	1995-99	DOHC	L4	16V	ECLIPSE	0.236	0.436	35-20N
2.0L	122	1997	VIN 5, D G63B	1983-89	SOHC	L4	8V	CORDIA, MIGHTY	0.315	0.514	35-453
2.0L	122	1997	VIN V, 4G63	1989-92	SOHC	L4	8V	GALANT	0.315	0.514	35-453
2.0L	122	1997	VIN E,R, 4G63	1989-94	DOHC	L4	16V	ECLIPSE,GALANT	0.260	0.475	35-550
2.0L	122	1997	VIN F,U, 4G63, TURBO	1990-99	DOHC	L4	16V	ECLIPSE,GALANT	0.260	0.475	35-550
2.0L	122	1997	VIN C,D, 4G63	2003-06	DOHC	L4	16V	LANCER	0.235	0.436	35-553
2.0L	122	1999	VIN E, 4G94	2002-07	DOHC	L4	16V	LANCER	0.235	0.436	35-553
2.4L	143	2351	VIN L, G64B	1985-88	SOHC	L4	12V	GALANT	0.315	0.514	35-453
2.4L	143	2351	VIN G,W, 4G64	1989-94	SOHC	L4	8V	EXPO,MIGHTY	0.236	0.436	35-553
2.4L	143	2351	VIN G	1993-05	SOHC	L4	16V	ECLIPSE,EXPO	0.235	0.436	35-553
2.4L	143	2351	4G64	1994-95	DOHC	L4	16V	GALANT	0.236	0.436	35-553
2.4L		2378	VIN F, 4G69	2005-09	SOHC	L4	16V	ECLIPSE,GALANT	0.235	0.436	35-553
2.6L	156	2555	VIN 7,E, G54B	1985-89	SOHC	L4	8V	TRUCKS, VAN	0.315	0.514	35-453
2.6L	156	2555	VIN H,N G54B TURBO	1985-89	SOHC	L4	12V	STARION	0.315	0.514	35-453
3.0L	181	2972	VIN F,H,L,P, 6G72	1995-05	SOHC	V6	24V	ECLIPSE,GALANT	0.235	0.436	35-553
3.0L	181	2972	VIN H,S, 6G72	1988-99	SOHC	V6	12V	PASS, TRUCK	0.315	0.514	35-453
3.0L	181	2972	VIN B,J, 6G72	1991-99	DOHC	V6	24V	3000GT,DIAMANTE	0.260	0.475	35-550
3.0L	181	2972	VIN C,K, 6G72 TU	1991-99	DOHC	V6	24V	3000GT TURBO	0.260	0.475	35-550
3.5L	213	3497	VIN P, R, 6G74	1997-04	SOHC	V6	24V	DIAMANTE,	0.235	0.436	35-553

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
mitsubishi CONTINUED											
3.5L	213	3497	VIN M,DN, 6G74	1994-96	DOHC	V6	24V	MONTERO	0.260	0.475	35-550
3.8L	234	3828	VIN S,T, 6G75	2003-09	SOHC	V6	24V	AUTO,TRUCK	0.235	0.436	35-553
NISSAN											
1.6L		1597	E16,E16I	1983-88	SOHC	L4	8V	SENTRA,PULSAR	0.276	0.474	35-510
1.6L	98	1597	VIN A,E, GA16DE	1991-99	DOHC	L4	16V	200SX, SENTRA	0.217	0.376	35-53Y
1.8L	107	1769	QG18DE	2000-06	DOHC	L4	16V	SENTRA	0.217	0.376	35-53Y
1.8L		1798	MR18DE	2007-08	DOHC	L4	16V	VERSA			TBA
2.0L		1997	MR20DE	2007-08	DOHC	L4	16V	SENTRA			TBA
2.0L	122	1998	VIN B,G, SR20DE	1991-01	DOHC	L4	16V	200SX, SENTRA	0.236	0.395	35-504
2.4L	146	2389	VIN N,S, Z24	1983-89	SOHC	L4	8V	TRUCKS	0.315	0.474	35-442
2.4L	146	2389	VIN F,H,S, KA24E	1989-94	SOHC	L4	12V	PASS & TRUCK	0.276	0.435	35-503
2.4L	146	2389	VIN F,H,S, KA24E	1995-97	SOHC	L4	12V	PASS & TRUCK	0.315	0.474	35-503
2.4L	146	2389	VIN A,B,D,M, KA2	1995-98	DOHC	L4	16V	240SX	0.276	0.435	35-503L
2.4L	146	2389	VIN A,B,D,M, KA2	1991-97	DOHC	L4	16V	ALTIMA	0.276	0.435	35-503
2.4L	146	2389	VIN A,B,D,M, KA2	1998-01	DOHC	L4	16V	ALTIMA	0.276	0.435	35-503L
2.4L	146	2389	VIN A,B,D,M, KA2	1998-04	DOHC	L4	16V	FRONTIER,XTERRA	0.276	0.435	35-503L
2.5L	151	2488	QR25DE, HYBRID	2002-06	DOHC	L4	16V	ALTIMA,SENTRA	0.236	0.395	35-504
2.5L	151	2488	QR25DE, HYBRID	2005-07	DOHC	L4	16V	FRONTIER,ROGUE	0.236	0.395	35-504
2.5L	151	2488	QR25DE, HYBRID	2007-09	DOHC	L4	16V	ALTIMA,FRONTIER	0.236	0.395	35-504
3.0L	181	2960	VIN 1,H,W, VG30,	1984-98	SOHC	V6	12V	PASS & TRUCK	0.276	0.434	35-503
3.0L	181	2960	VIN R, VG30DE	1990-96	DOHC	V6	24V	300ZX	0.236	0.395	35-504
3.0L	181	2960	VIN C, VG30DET TURBO	1990-96	DOHC	V6	24V	300ZX TURBO	0.236	0.395	35-504
3.0L	181	2960	VIN C, VQ30DE	1995-01	DOHC	V6	24V	MAXIMA	0.236	0.395	35-504
3.0L	181	2960	VIN E, VE30DE	1992-94	DOHC	V6	24V	MAXIMA	0.236	0.395	35-504
3.3L	199	3275	VIN A, VG33E	1996-04	SOHC	V6	12V	FRONTIER,PATHFINDER	0.276	0.434	35-503L
3.3L	199	3275	VG33ER SUPERCHARGED	2001-04	SOHC	V6	12V	FRONTIER,XTERRA	0.276	0.434	35-503L
3.5L	213	3498	VIN A, VQ35DE	2001-09	DOHC	V6	24V	ALTIMA,MAXIMA	0.236	0.395	35-504
3.5L	213	3498	VQ35HR	2002-09	DOHC	V6	24V	350Z	0.236	0.395	35-504
4.0L		3954	VQ40DE	2005-09	DOHC	V8	24V	FRONTIER,PATHFINDER	0.236	0.395	35-504
5.6L		5552	VK56DE	2004-09	DOHC	V8	32V	ARMADA,PATHFINDER	0.236	0.395	35-504
OMC MARINE — SEE SIZE & STYLE LISTINGS BEGINNING ON PAGE 21											
OPEL -SEE GMC											
PERKINS											
			UNIVERSAL METAL BODIED					152,203,305	0.313	0.500	35-805
			UNIVERSAL RING/ BAND					152,203,305	0.313	0.530	35-F30
			UNIVERSAL METAL BODIED					235 A4, 236	0.373	0.562	35-377
			UNIVERSAL UMBRELLA					11/32	0.306	0.672	35-233
SAAB											
2.0L		1985	VIN Y, B207L,R	2003-09	DOHC		16V	9-3		0.395	35-G20
2.5L		2498	VIN V, B258L ECOTEC	1994-97	DOHC		24V	900		0.347	35-BMW2
3.0L		2961	VIN W, B308I	1995-97	DOHC		24V	9000		0.347	35-BMW2
3.0L		2961	VIN Z, B308E, TURBO	1999-03	DOHC		24V	9-5 TURBO		0.347	35-BMW2
4.2L		256	VIN S, GM VORTEC	2006-09	DOHC		24V	9-7X		0.436	35-G29

Valve Stem Seals *by Engine Pro*

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
SAAB CONTINUED											
5.3L		325	VIN M, GM VORTEC	2006-09	OHV		16V	9-7X		0.500	35-900
6.0L		364	VIN H, GM VORTEC	2008-09	OHV		16V	9-7X		0.500	35-900
SUBARU											
1.8L	111	1820	EJ18E	1993-97	OHC	H4	16V	IMPREZA	0.235	0.436	35-475
2.2L	135	2212	EJ22T, TURBO	1991-94	SOHC	H4	16V	LEGACY TURBO	0.235	0.436	35-475
2.2L	135	2212	EJ22E	1990-98	SOHC	H4	16V	LEGACY,IMPREZA	0.235	0.436	35-475
2.2L	135	2212	VIN 3,4,6, EJ22E,	1999-01	SOHC	H4	16V	LEGACY,IMPREZA	0.235	0.436	35-475
2.5L	150	2457	VIN 6, EJ25	1999-09	SOHC	H4	16V	FORESTER,IMPREZA	0.235	0.436	35-475
2.5L	150	2457	VIN 6, EJ25D	1997-98	SOHC	H4	16V	FORESTER,IMPREZA	0.235	0.436	35-475
2.5L	150	2457	VIN 6, EJ25D	1999	SOHC	H4	16V	LEGACY	0.235	0.436	35-475
2.5L	150	2457	EJ25E TURBO	2004-09	SOHC	H4	16V	BAJA,FORESTER	0.235	0.436	35-475
3.3L	202	3318	VIN 3,8 EG33D	1992-97	DOHC	H6	24V	SVX	0.235	0.436	35-475
SUZUKI											
1.3L	79	1298	G13K	1989-94	D	L4	16V	SWIFT GTI	0.217	0.436	35-701
1.3L	79	1298	G13BA	1990-95	SOHC	L4	8V	SAMARAI	0.275	0.476	35-700
1.3L	79	1298	G13BA	1995-97	SOHC	L4	8V	SWIFT	0.275	0.476	35-700
1.3L	79	1298	G13BB	1998-01	SOHC	L4	16V	SWIFT	0.217	0.476	35-701
1.3L	79	1298	G13A	1986-97	SOHC	L4	8V	SAMARAI,SWIFT	0.275	0.476	35-700
1.6L	97	1590	G16KC	1989-95	SOHC	L4	8V	SIDEKICK	0.275	0.476	35-700
1.6L	97	1590	VIN 0,1,3, G16KV	1992-98	SOHC	L4	16V	ESTEEM,SIDEKICK	0.217	0.436	35-701
1.6L	97	1590	G16B	1995-01	S	L4	16V	ESTEEM,SIDEKICK	0.217	0.436	35-701
1.8L	110	1840	VIN 2,4, J18A,G18K	1996-02	DOHC	L4	16V	ESTEEM,SIDEKICK	0.235	0.436	35-475
2.0L	122	1995	J20A	1999-03	DOHC	L4	16V	AERIO,VITARI	0.235	0.436	TBA
2.0L	122	1998	L34, ETEC	2004-08	DOHC	L4	16V	FORENZA,REN	0.236	0.347	35-BMW2
2.3L		2290	G23,J23A	2004-07	DOHC	L4	16V	AERIO	0.235	0.436	35-475
2.5L		2492	XK6	2004-07		i-6	24V	VERONA			TBA
2.5L	152	2494	H25A	1999-05	DOHC	V6	24V	VITARI	0.235	0.436	35-475
2.7L	167	2737	H27A	2001-08	DOHC	V6	24V	VITARI,XL7	0.235	0.436	35-475
TOYOTA											
1.5L	89	1456	3EE, 2 INTAKE VAL	1990-94	SOHC	L4	12V	TERCEL	0.237	0.436	35-475
1.5L	92	1497	VIN C,E, 5EFE:	92-99	DOHC	L4	16V	PASEO,TERCEL	0.237	0.436	35-537
1.5L	91	1497	1NZFE	2000-09	DOHC	L4	16v	ECHO,PRIUS	5.0m		TBA
1.6L	96	1587	4AFE	1990-97	DOHC	L4	16V	CELICA,COROLLA	0.237	0.435	35-475
1.7L	107	1762	7AFE	1993-97	DOHC	L4	16V	CELICA,COROLLA	0.237	0.435	35-475
1.8L	109	1794	1ZZFE	1998-99	DOHC	L4	16V	COROLLA	0.216	0.410	35-T30I
1.8L	109	1794	1ZZFE	2000-09	DOHC	L4	16V	COROLLA,MATRIX	0.216	0.410	35-T30I
1.8L	109	1794	1ZZFE	2000-05	DOHC	L4	16V	CELICA,MR2	0.216	0.410	35-T30I
1.8L	109	1796	2ZZGE	2000-06	DOHC	L4	16V	CELICA,COROLLA	0.216	0.410	35-T30I
2.0L	122	1998	VIN S, 3SGTE TURBO	1990-95	DOHC	L4	16V	CELICA, MR2	0.237	0.435	35-475
2.0L	122	1998	VIN P, 3SFE	1996-00	DOHC	L4	16V	RAV4	0.237	0.435	35-475
2.0L	122	1998	1AZFE	2001-03	DOHC	L4	16V	RAV4	0.216	0.410	35-T30I
2.2L	132	2164	5SFE	1992-01	DOHC	L4	16v	CAMRY, CELICA	0.237	0.435	35-475
2.4L	144	2362	2AZFE	2001-09	DOHC	L4	16V	CAMRY, COROLLA	0.216	0.410	35-T30I
2.4L	144	2362	2AZFE,HYBRID	2007-09	DOHC	L4	16V	CAMRY HYBRID	0.216	0.410	35-T30I
2.4L	144	2366	22R,22RE,22REC	1985-95	SOHC	L4	8V	CELICA, PICK-UP	0.316	0.514	35-458
2.4L	146	2438	2TZFE	1990-97	DOHC	L4	16V	PREVIA	0.237	0.435	35-475

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Liter	CID	CC	Engine	Years	Head	Cyl	# Valves	Model	Stem	G/OD	Base Part#
TOYOTA CONTINUED											
2.4L	146	2438	2RZFE	1995-04	DOHC	L4	16V	TACOMA	0.237	0.435	35-475
2.7L	164	2693	3RZFE	1994-04	DOHC	L4	16V	TACOMA, T100	0.237	0.435	35-475
2.7L	164	2694	2TRFE	2005-09	DOHC	L4	16V	TACOMA	0.216	0.410	35-T30I
3.0L	181	2958	3VZE	1988-95	SOHC	V6	12V	4RUNNER,PICK-UP	0.315	0.514	35-453
3.0L	183	2995	1MZFE	1994-06	DOHC	V6	24V	AVALON, CAMRY,SIENNA	0.216	0.410	35-T30I
3.0L	183	2997	2JZGE,2JZGTE	1993-98	DOHC	L6	24V	SUPRA	0.237	0.435	35-475
3.0L		3310	3MZFE	2004-09	DOHC	V6	24V	CAMRY, HIGHLANDER	0.216	0.410	35-T30I
3.4L	206	3378	5VZFE	1995-04	DOHC	V6	24V	4RUNNER,TACOMA	0.237	0.435	35-475
3.5L		3456	2GRFE	2005-09	DOHC	V6	24V	AVALON, CAMRY	0.216	0.410	35-T30I
4.0L		3956	1GRFE	2003-09	DOHC	V6	24V	4RUNNER,FJ CRUISER	0.216	0.410	35-T30I
4.7L	284	4663	2UZFE	1998-09	DOHC	V8	32V	4RUNNER, LANDCRUISER	0.216	0.410	35-T30I
5.7L		5663	3URFE	2007-09	DOHC	V8	32V	LANDCRUISER, SEQUOIA	0.216	0.410	35-T30I
VOLKSWAGEN											
1.8L	109	1781	VIN AEB,AWD	1998-06	DOHC	L4	20V	BEETLE,GOLF, JETTA,PASSAT			35-654
1.9L	115	1896	VIN G, AHU,AAZ, DIESEL	1998-06	SOHC	L4	8V	BEETLE,GOLF, JETTA,DIESELS			35-651
2.0L	121	1984	VIN B,C, 9A	1990-93	DOHC	L4	16V	GOLF,JETTA, PASSAT			35-651
2.0L	121	1984	VIN A,B,C,ABA	1993-02	SOHC	L4	8V	CABRIO,GOLF, JETTA,PASSAT			35-651
2.0L	121	1984	VIN B, AEG	1998-06	SOHC	L4	8V	BEETLE,GOLF,JETTA			35-651
2.8L		2771	VIN A,D, AHA,AMX	1998-05	DOHC	V6	30V	PASSAT			35-654
2.8L	170	2792	VIN D,E, AAA	1992-02	DOHC	V6	12V	GOLF,JETTA,PASSAT			35-651
3.2L		3189	BAA,BMX	2004-08	DOHC	V6	24V	EOS,GOLF,TOUAREG			35-651
VOLVO											
2.3L	141	2316	VIN 8, B230F	1985-95	SOHC	L4	8V	240, 740, 940			35-441
2.3L	141	2316	VIN 8, B230FT	1991-95	SOHC	L4	8V	740, 940			35-441

Popular "Positive Seals" HIGH PERFORMANCE -STEEL-VSB, VSB2, VIV, TEFLONS

FITS STEM DIAM.	FITS GUIDE O.D.	METAL BODY W/RUBBER INSIDE SKIRT G/SPRING AT CHIMNEY	METAL BODY W/ NO RUBBER INSIDE SKIRT G/SPRING AT CHIMNEY	STEEL GRIP RUBBER WIPER NO GARTER	RUBBER W/TEFLON INSERT IN CHIMNEY NO GARTER	ALL TEFLON BAND AT SKIRT RING AT CHIMNEY
.236=6.0m	.476		35-6476			
.276=7.0m	.432	35-7433				
.276	.476		35-435			
.311= 5/16	.415			35-1411		35-9010
.311	.428	35-650				
.311	.475			35-1417		
.311	.500	35-805	35-31500	35-1401		
.311	.502	35-804	35-31530			
.311	.531	35-802		35-1404		35-1710
.312	.472	35-485	35-8476			
.315=8.0m	.476		35-8476			
.342=11/32	.476	35-472				
.342	.500	35-108 (.502)	35-11500	35-1402	35-424A	35-1611
.342	.530	35-529	35-11530			
.342	.531	35-529		35-1405	35-425	35-1711
.342	.562	35-562		35-1407	35-426	35-1811
.342	.562	35-562R				
.342	.625			35-1415		
.373=3/8	.500	35-373				35-1612
.373	.531	35-375		35-1406		35-1712
.373	.562	35-377		35-1408	35-427	
.373	.625	35-403			35-429A	
	.625	35-6RB1				

**NOTE: THESE PERFORMANCE SEALS DESIGNED TO FIT INSIDE TRIPLE SPRINGS, NO MACHINING REQUIRED
35-11500, 35-11530, 35-31500, 35-31530**

ACTUAL SIZES OF SEALS BELOW -UNLOADED (INFO FOR V/SPRING AREAS)

PART #	V/STEM DIAM.	GUIDE O. D.	HEIGHT X WIDTH
35-107	.302	.482	.530 X .635
35-108	.303	.494	.524 x .620
35-11500	.304	.497	.498 x .546
35-11530	.304	.527	.498 x .575
35-31500	.275	.497	.498 x .546
35-31530	.275	.527	.498 x .575
35-373	.340	.488	.530 x .623
35-375	.338	.516	.520 x .677
35-377	.343	.553	.516 x .661
35-403	.335	.617	.530 x .741
35-435	.235	.470	.517 x .562
35-472	.315	.463	.435 x .677
35-485	.312	.472	.494 x .582
35-529	.303	.517	.527 x .675
35-530	Disc.		
35-562	.303	.553	.513 x .660
35-562R	.308	.544	.582 x .705
35-6476	.205	.470	.517 x .562
35-650	.274	.408	.412 x .566
35-802	.272	.519	.516 x .677
35-804	.275	.491	.531 x .623
35-805	.280	.491	.502 x .608
35-809	.274	.494	.512 x .615
35-6000	.335	.518	.530 x .637
NEW - 11/32 X.530 SPECIAL DESIGN			
35-1611	.316	.464	.510 x .596
35-1710	.289	.498	.506 x .626
35-1711	.315	.502	.500 x .630
35-1712	.343	.500	.502 x .626
35-1811	.312	.521	.514 x .654
35-1812	.343	.527	.518 x .650
35-9010	.288	.380	.510 x .506
35-1401	.235	.480	.410 x .629
35-1402	.268	.480	.410 x .629
35-1404	.240	.508	.408 x .629
35-1405	.267	.508	.395 x .629
35-1407	.270	.539	.405 x .659
35-1411	.225	.403	.408 x .552
35-7433	.232	.423	.365 x .566
35-8476	.280	.470	.517 x .562



ENGINE PRO - VALVE STEM SEALS - UMBRELLAS

FITS VALVE STEM	MEASURED : (ACTUAL SIZES) OF SEALS- UNLOADED				GLASS RESIN NYLON PART#	RUBBERS			GLASS NYLON W/VITON STEM PART#	POPULAR FIT
						NBR	POLY- ACRYLIC	FKM FLUORO- ELASTOMER		
	STEM DIAM	GUIDE O.D.	TOTAL HEIGHT	WIDTH		PART#	PART#	PART#		PART#
.276-7m	.245	.732	.680	.876			35-317P	35-317V		UNIVERSAL 7mm
5/16-8m	.271	.662	.690	.866		35-221	35-221P			FORD 144, 170
11/32	.300	.805	.827	.900		35-163				CHRY 340, 440
11/32	.304	.580	.760	.767		35-383	35-383P			FORD 351C, M
11/32	.306	.672	.569	.764		35-232	35-232P	35-233V		GM S.B.
11/32	.307	.764	.713	.870		35-381	35-381P	35-381V		FORD 351W
11/32	.310	.810	.863	.892		35-269	35-269P	35-270V		GM B.B.
11/32	.311	.811	.577	.902			35-363P			FORD 292, 300
11/32	.313	.750	.675	.888		35-137	35-137P	35-137V		CHRY 318, 360
11/32	.318	.618	.461	.712					35-273RV	GM S.B. (IN)
11/32	.335	.740	.700	.880	35-449					FORD 302, 351W
11/32	.336	.743	.633	.882	35-448					FORD 302, 351W
11/32	.337	.686	.433	.820	35-273					GM S.B. (IN)
11/32	.338	.755	.575	.893	35-429					FORD 351W
11/32	.339	.610	.450	.715	35-347					GM 350
11/32	.339	.690	.364	.837	35-274					GM S.B. (EX)
3/8	.310	.810	.863	.892		35-269	35-269P	35-270V		GM B.B.
3/8	.313	.750	.675	.888		35-137	35-137P	35-137V		CHRY 318, 360
3/8	.332	.757	.795	.883		35-267	35-267P			FORD 360, 390
3/8	.354	.760	.810	.880					35-270RV	GM B.B.
3/8	.367	.607	.450	.717	35-348				35-348RV	GM S.B. (EX)
3/8	.370	.810	.715	.900	35-424					AMC 258, 304, 360



type/ style abbreviations

• **vsw** = rubber seal - ring or band at skirt, garter spring at chimney • **vsw-ng** = rubber seal - ring at skirt, no garter spring / ring at seal chimney • **rb** = rubber seal - metal band at skirt, ring at top of seal • **rs** = rubber seal - ring at skirt, garter spring at chimney, similar to vsw • **2r** = rubber seal - ring at skirt and chimney of seal • **ar** = all rubber positive seal





RUBBER POSITIVE SEALS - (VSW) RING & BAND (RB) / 2RING (2R) / ALL RUBBER (AR)

FITS STEM DIAM.	FITS GUIDE O.D.	ACTUAL SIZES OF SEALS UNLOADED				LISTED BY PROGRESSIVE VALVE STEM DIAMETER - ACTUAL SIZES - UNLOADED				
		STEM DIAM	GUIDE O.D.	TOTAL HEIGHT	SEAL WIDTH	NBR PART #	POLY PART #	FKM PART #	TYPE	POPULAR FIT
.177=4.5m		.133	.250	.327				35-M325	VSW-NG	SMALL VALVE
.177		.137	.276	.325	.346			35-KA1308	VSW-NG	SMALL VALVE
.177		.140	.280	.318	NA			35-HOKT7	VSW-NG	SMALL VALVE
		.156	.290	.316	.420			35-Y31WG	VSW-NG	SMALL VALVE
		.162	.288	.333	.410			35-H02MLO	VSW-NG	SMALL VALVE
		.164	.291	.350	.395			35-SZ05011	VSW	SMALL VALVE
		.164	.300	.316	.425			35-H1V	VSW-NG	SMALL VALVE
		.170	.294	.407	.333			35-916V	VSW-NG	SMALL VALVE
.197=5m		.172	.293	.335	.406			35-920V	VSW	SMALL VALVE
		.175	.299	.317	.430			35-701MV	VSW-NG	SMALL VALVE
		.187	.293	.331	.422			35-H0333	VSW-NG	SMALL VALVE
		.193	.308	.320	.430			35-HOKL4	VSW	SMALL VALVE
.260	.472	.233	.407	.353	.529		35-454P	35-454V	VSW	HONDA
		.234	.364	.310	.476		35-569AP	35-569AV	VSW-NG	HONDA
		.235	.365	.322	NA		35-570AP	35-570AV	VSW-NG	HONDA
		.240	.400	.374	.556			35-KA016	VSW	SMALL VALVE
.276=7m	.500	.240	.450	.484	.668		35-322P	35-322V	RB	GM 2.2L
.276	.500	.255	.485	.491	.679		35-F30LP	35-F30LV	RB	FORD 3.0L LATE
.276	.493	.257	.430	.546	.653			35-226V	AR	CHRY 3.3,3.8L 2000-ON
		.260	.417	.513	.630		35-443P	35-443V	RS	MITS.,NISS, ISUZU
.315=8m	.465	.266	.463	.365	.718	35-408	35-408P	35-409V	AR	FORD 1.9L
		.275	.416	.498	.627		35-446P	35-446V	AR	MITS.,NISS, ISUZU
		.275	.445	.514	.658		35-445P	35-445V	AR	MITS.,NISS, ISUZU
.315	.472	.275	.433	.569	.657		35-442P	35-442V	RS	NISSAN Z24
.315		.278	.534	.634	.702		35-C87P	35-C87V	RS	NISSAN C8700
.318		.283	.447	.371	.612		35-V01P	35-V03V	RB	VOLVO
.313	.493	.285	.430	.549	.648		35-225P	35-225V	AR	CHRYSLER-2.2, 2.5L
.313	.500	.286	.465	.490	.668		35-320P	35-320V	RB	GM 2.0, 2.2L, CUMMINS
.315	.530	.286	.497	.480	.663		35-F30P	35-F30V	RB	FORD 3.0L
.315		.287	.442	.443	.715			35-ME2V	VSW-NG	MERCEDES
.315	.514	.290	.472	.542	.663		35-707P	35-707V	2R	UNIVERSAL
.315	.500	.292	.460	.475	.633		35-325P	35-325V	RB	GM 3.1, JOHN DEERE
.313	.480	.295	.455	.443	.614		35-306P	35-306V	RB	GM 151
.342	.590	.297	.537	.557	.703	35-117	35-117P		2R	CHEVY 283
.342	.500	.302	.433	.557	.628		35-104P	35-104V	RB	FORD 3.8L
.343	.531	.303	.498	.488	.695	35-408A	35-408AP	35-408AV	2R	FORD 122,140
		.305	.460	.345	.600		35-V03P	35-V03V	RB	VOLVO
		.307	.485	.480	.680		35-303P	35-303V	RS	UNIVERSAL
.343	.562	.307	.485	.484	.692	35-304	35-304P	35-305V	RB	GM S.B. LATE
.343	.625	.310	.590	.489	.783		35-400P	35-400V	RB	FORD TRUCK EARLY
.343	.500	.314	.466	.462	.685	35-304X	35-304XP	35-304XV	2R	GM S.B.
.343	.562	.323	.510	.488	.689			35-F2TZV	RB	FORD 429.460 LATE
.373	.640	.329	.569	.493	.740			35-690V	VSW	FORD 6.9, 7.3L
.354=9m		.330	.438	.419	.700			35-ME1EV	VSW-NG	MERCEDES
.354		.330	.438	.436	.625			35-ME5V	VSW-NG	MERCEDES
		.334	.471	.471	.660			35-K04	VSW	KOMATSU 6D140
.373	.625	.342	.546	.562	.784	35-222	35-222P	35-222V	AR	CHRYSLER 318,360
.373	.625	.345	.590	.457	.752		35-296P		2R	PONTIAC 350
.373	.625	.349	.590	.489	.795			35-402V	RB	FORD TRUCK 6.6, 7.8L

VSB5 / TOPHAT/ INTEGRAL VALVE SEAL LISTING

"UNLOADED"		ACTUAL SIZE OF SEAL			SIZE AT		*NOTE: SOME NUMBERS BELOW MAY BE SPECIAL ORDER ONLY		
STEM INCH	STEM DEC	STEM AREA I.D.	GUIDE AREA O.D.	SEAL TOTAL HEIGHT	BASE OF SHELL O.D.	FLANGE WIDTH O.D.	SPRING, RING		POPULAR FIT
							PART #	STYLE	
.197=5.0m	.162	.390	.642	.697	1.062		35-F39	VSB5-1	FORD 3.9L
		.172	.420	.653	.716	1.105	35-R20	VSB5-1	NISSAN 1598cc 16V PLATINA K45 ENGINE
		.172	.420	.653	.716	1.105	35-R20	VSB5-1	OPEL & RENAULT 1998cc W/RENAULT F4R ENGINE
		.195	.425	.634	.598	.904	35-F16	VSB5-1	FORD 1.6L 1596cc FOCUS, PUMA, FIESTA
.236=6.0m	.195	.397	.738	.690	1.082		35-G46	VSB5-2	GM 4.0, 4.6L LATE
		.195	.425	.634	.598	.904	35-F16	VSB5-1	MAZDA 2 1596cc C6 ENGINE
.236		.198	.424	.560	.772	1.125	35-F15	VSB5-VSB	FORD 3.2-4.0L - EUROPE
		.198	.457	.816	.662	.943	35-F19	VSB5-VSB	MONDEO EARLY
.236		.198	.468	.820	.690	.945	35-F20L	VSB5-1	FORD 2.0L 98-2002
.236	.449	.198	.437	.517	.650	1.040	35-586	VSB5-1	GM SATURN
		.205	.364	.675	.542	1.025	35-860	vsb5-1	
		.205	.415	.718	.719	1.065	35-F10	vsb5-1	FORD 1.0,1.3,1.6L
		.205	.410	.725	.658	1.060	35-F54	VSB5-1	FORD 5.4L 2003-ON
.236	.433	.205	.418	.575	.688	1.100	35-G40	VSB5-VSB	GM 4.0, 4.6L
.236	.435	.206	.430	.725	.670	1.064	35-20N	VSB5-1	CHRYSLER 2.0, 2.4L
.236		.207	.419	.615	.712	1.043	35-DW1	VSB5-1	DAEWOO NUBIRA
.236	.463	.210	.460	.802	.678	.944	35-F20	VSB5-1	FORD 2.0L 95-97
.236		.210	.390	.625	.674	.983	35-G20	VSB5-1	GM 2.2L SATURN, OPEL ENG# Z22SE
		.210	.370	.382	.703	.985	35-LR1	VSB5-1	KIA 2497cc KRV6 ENG CARNIVAL, SEDONA
		.210	.370	.382	.703	.985	35-LR1	VSB5-1	LANDROVER, FREELANDER 1796cc
.236		.210	.390	.625	.674	.983	35-G20	VSB5-1	OPEL 2.2L, ASTRA, SPEEDSTER # Z22SE
.236	.494	.212	.486	.732	.605	1.000	35-F25	VSB5-1	FORD 2.5L
		.223	.370	.657	.770	1.153	35-PE1	VSB5-VSB	PEUGOT 1998cc XU10J4R
.272	.453	.229	.443	.673	.697	1.097	35-800	VSB5-1	CHRYSLER 3.5L
.276	.445	.234	.468	.804	.723	1.110	35-110	VSB5-1	FORD 4.6, 5.4L
.276	.449	.234	.438	.570	.798	1.218	35-585	VSB5-1	GM SATURN 1.9L
.275=7.0m	.238	.460	.733	.715	1.227		35-C47	VSB5-1	CHRYSLER 4.7L VIN "N"
.275	.500	.242	.496	.799	.815	1.250	35-G22	VSB5-1	GM 2.2L
		.259	.459	.630	.910	1.340	35-5861	VSB5-1	FORD GRANADA
.275	.472	.243	.465	.656	.792	1.219	35-292	VSB5-1	FORD 4.0L LATE
.275	.495	.243	.488	.804	.676	1.108	35-775	VSB5-1	FORD 4.6, 5.4L
.275	.495	.246	.466	.646	.697	1.106	35-F46	VSB5-2	FORD 4.6L DOHC (NEW DESIGN)
		.246	.554	.974	.970	1.457	35-HA1	VSB5-1	HARLEY TWIN CAM 2002-ON
.275		.248	.482	.838	.874	1.370	35-F24L	VSB5-1	FORD 4.2L LATE
.275		.248	.485	.840	.839	1.258	35-F24	VSB5-1	FORD 4.2L EARLY
		.249	.489	.642	.640	1.122	35-C59LE	VSB5-1	CHRYSLER 5.9L CUMMINS LATE
.275		.250	.562	1.023	.615	1.000	35-F60	VSB5-2	FORD 6.0L DIESEL DIMPLED SHELL
.315=8.0m	.260	.555	.922	.655	1.382		35-T3F	VSB5-1RL	TOYOTA 2F, 3F
.315		.265	.567	.775	.678	1.500	35-H20	VSB5-1RL	NISSAN H20
.315		.265	.515	.678	.598	.908	35-340	VSB5-1	TOYOTA 2.6, 2.8L CRESSIDA
		.270	.457	.630	.911	1.342	35-F13	VSB5-1	FORD



VSB5 / TOPHAT/ INTEGRAL VALVE SEAL LISTING *continued*

"UNLOADED"		ACTUAL SIZE OF SEAL			SIZE AT		*NOTE: SOME NUMBERS BELOW MAY BE SPECIAL ORDER ONLY		
STEM INCH	STEM DEC	STEM AREA I.D.	GUIDE AREA O.D.	SEAL TOTAL HEIGHT	BASE OF SHELL O.D.	FLANGE WIDTH O.D.	SPRING, RING		POPULAR FIT
							PART #	STYLE	
.315		.274	.553	.832	.675	.975	35-J16	VSB5-1	NISSAN J16
.315		.275	.553	.820	.670	.982	35-J18	VSB5-1	NISSAN J18
.315	.472	.280	.465	.722	.898	1.273	35-423	VSB5-1	FORD 1.9, 2.0L
.313	.515	.280	.515	.903	.890	1.337	35-G31	VSB5-2	GM 3.1, 3.4L - DIMPLED SHELL
.313	.552	.280	.552	.903	.890	1.337	35-G31L	VSB5-1	GM 3.1, 3.4L - DIMPLED SHELL
.313		.282	.490	.884	.792	1.185	35-901	VSB5-1	GM 4.8, 5.3, 6.0L
		.282	.552	.862	.830	1.333	35-TL	VSB5-1	TOYOTA L, 2L EARLY CONE SHELL
		.284	.531	1.043	.732	1.374	35-HEMI	VSB5-1	CHRYSLER 345ci, 5.7L HEMI
.313		.286	.492	.887	.791	1.187	35-900	VSB5-1	GM 4.8, 5.3, 6.0L
.311=5/16	.288	.558	1.116	1.017	1.492		35-DT535	VSB5-2	INTERNATIONAL 5/16 VALVE
.343		.293	.461	1.120	.700	1.100	35-CAT4	VSB5-2	CATERPILLAR 3116, 3126 LATE
.315	.565	.293	.552	1.096	.874	1.390	35-F73	VSB5-2	FORD 7.3L LATE
		.300	.575	.915	.797	1.150	35-F22	VSB5-1	FORD
.343		.308	.552	1.096	.874	1.390	35-F73+.15	VSB5-2	FORD 7.3L LATE .105 O.S.
.373=3/8	.342	.608	1.124	1.013	1.487		35-DT530	VSB5-2	INTERNATIONAL 3/8 VALVE
.373		.348	.580	1.240	1.280	1.770	35-CAT5	VSB5-2	CATERPILLAR 3500 V8, V12, V16
.373		.352	.608	1.300	1.016	1.474	35-DT466	VSB5-2	INTERNATIONAL DT466
.373		.354	.624	1.080	.913	1.553	35-CUM5	VSB5-2	CUMMINS 4B, 6B, 6C, 6CTA
.373		.358	.615	1.485	.955	1.398	35-CUM2	VSB5-2	CUMMINS N14, 855 CI SERIES
		.390	.703	1.000	.853	1.500	35-K03	VSB5-1RL	KOMATSU 6D155

style abbreviations

- vsb5-1.....top hat metal clad seal..... one piece seal
- vsb5-2.....top hat metal clad seal..... two piece seal housing and cartridge
- vsb5-vsBtop hat metal clad seal..... WITH vsb seal inside top hat housing
- vsb5-1rLtop hat metal clad seal..... spring pad with a reverse lip to top of seal

HI-TEMP VALVE STEM SEALS- METAL CLAD (VSB,VIV) PROGRESSIVE VALVE STEM DIAM (ACTUAL SEAL SIZE - UNLOADED)

"UNLOADED"		ACTUAL SIZE				METAL CLAD CHIMNEY HAS SPRING, RING			METAL POSITIVE VALVE SEAL
FITS STEM DIAM	FITS GUIDE O.D.	STEM DIAM	GUIDE O.D.	TOTAL HEIGHT	SEAL WIDTH		PART #	STYLE	TYPE
.177=4.5m		.143	.278	.315	.354	35-YA4T	VSB		YAMAHA - SMALL ENGINE
.177		.152	.296	.315	.434	35-919	VSB		MEXICO ASTRA
.197		.156	.290	.302	.376	35-555A	VSB-NG		MITSUBISHI JET SEAL
.197=5.0m		.163	.328	.307	.433	35-KA1218	VSB-NG		KAWASAK I -SMALL ENGINE
.197		.165	.315	.320	.402	35-Y14S	VSB-NG		YAMAHA - SMALL ENGINE
.216	.376	.170	.368	.453	.476	35-53Y	VSB		NISSAN GA16DE
.216=5.5m		.178	.400	.405	.493	35-T30i	VSB		TOYOTA 3.0L 1MZFE
.216		.178	.427	.400	.538	35-439	VSB		MAZDA Z5
.216	.347	.180	.334	.369	.480	35-655	VIV		VW LATE #036-109-675B
.216		.182	.329	.330	.418	35-KA1062	VSB		KAWASAK I- SMALL ENGINE
.216	.436	.183	.349	.372	.453	35-701	VSB		SUZUKI
.216	.433	.187	.429	.393	.507	35-592	VSB		HONDA VTEC
.216		.191	.401	.393	.505	35-T30E	VSB		TOYOTA 3.0L 1MZFE
.236	.435	.193	.419	.435	.530	35-537	VSB		TOYOTA 3VZ DOHC
.236	.435	.194	.430	.372	.529	35-475	VSB		TOYOTA 4A, 7A
.235	.347	.195	.334	.395	.480	35-654	VIV		OPEL 16 VALVE
.236		.195	.371	.363	.478	35-Y25HO	VSB		YAMAHA - SMALL ENGINE
.236=6.0m	.395	.195	.388	.463	.495	35-504	VSB		NISSAN
.236	.435	.195	.429	.409	.531	35-438	VSB		MAZDA B6E ,K8 ,BP, KL
.236	.436	.197	.429	.390	.531	35-520	VSB		ISUZU 3.2L
.235	.347	.198	.335	.395	.480	35-BMW2	VIV		EUROPE
.236	.436	.202	.426	.465	.546	35-553	VSB		MITSUBISHI 4G93
.236	.433	.203	.426	.321	.521	35-625	VSB		SUBARU 13211-00030/50
.236	.435	.205	.427	.395	.521	35-T100	VSB		TOYOTA 2R, 3R, 5V
.236	.476	.205	.470	.517	.562	35-6476	VSB2		PERFORMANCE
.235	.435	.206	.424	.405	.552	35-G24	VSB-RG		OLDS QUAD 2.4L
.236	.435	.207	.427	.405	.520	35-535	VSB		TOYOTA 3VZFE
.250	.385	.212	.371	.452	.455	35-D53	VSB2		DETROIT 53 4V
.260	.417	.220	.410	.460	.520	35-518	VSB		NISSAN 1.6L EXHAUST
.260=6.6m	.472	.225	.465	.480	.582	35-550	VSB		MITSUBISHI 2.0
		.227	.461	.363	.574	35-DAH2	VSB		DAIHATSU
.275=7.0m	.385	.230	.374	.402	.520	35-651	VIV		EUROPE
.275	.435	.230	.424	.455	.553	35-503L	VSB		NISSAN LATE
.275	.435	.230	.425	.517	.550	35-503	VSB		NISSAN EARLY
.262	.435	.232	.423	.365	.566	35-7433	VIV		RENAULT
.275	.455	.232	.450	.388	.550	35-456	VSB		TOYOTA 3A
.275	.434	.235	.414	.400	.629	35-155	VIV		GM 2.0L BRAZIL
		.235	.469	.591	.556	35-DAH1	VSB2		DAIHATSU
.275	.476	.235	.470	.517	.562	35-435	VSB		MAZDA B6, G6, JE
.275	.475	.236	.463	.478	.545	35-565	VSB		HONDA EK
.260	.472	.237	.470	.410	.541	35-PT2	VSB		HONDA PT2



HI-TEMP VALVE STEM SEALS- METAL CLAD (VSB,VIV) PROGRESSIVE VALVE STEM DIAM (ACTUAL SEAL SIZE - UNLOADED) *continued*

"UNLOADED"		ACTUAL SIZE				METAL CLAD CHIMNEY HAS SPRING, RING			METAL POSITIVE VALVE SEAL
FITS STEM DIAM	FITS GUIDE O.D.	STEM DIAM	GUIDE O.D.	TOTAL HEIGHT	SEAL WIDTH		PART #	STYLE	TYPE
		.238	.417	.355	.531	35-YA1JY	VSB		YAMAHA
.275	.472	.238	.465	.428	.593	35-SUB2	VSB		SUBARU
.276	.514	.238	.497	.512	.620	35-230	VSB		OLDS 2.3L QUAD4
.275	.476	.239	.461	.380	.574	35-700	VSB		SUZUKI
.275	.472	.240	.465	.509	.596	35-SUB1	VSB		SUBARU
.276	.495	.241	.485	.578	.600	35-309	VSB		FORD 3.8, 4.2L LATE
.276		.244	.484	.549	.636	35-C59B	VSB		CUMMINS 5.9L LATE
.276		.245	.434	.381	.573	35-G66	VSB		GMC DURAMAX
.275	.474	.247	.465	.606	.574	35-510	VSB		NISSAN E16
.276		.248	.375	.342	.532	35-ME3	VIV		MERCEDES
.276		.254	.486	.565	.539	35-C59A	VSB		CUMMINS 5.9L LATE
.315	.472	.266	.454	.367	.610	35-290	VIV		FORD 4.0L
.315	.514	.271	.508	.432	.568	35-459	VSB		TOYOTA 4M
.315	.554	.271	.548	.514	.606	35-433	VSB2		MAZDA FE, F2
.315		.272	.488	.636	.608	35-C240	VSB	660329	ISUZU C240
.313	.531	.272	.519	.516	.677	35-802	VSB		CHRYSLER SMALL BLOCK
		.273	.455	.417	.610	35-362	VIV		MERCEDES
.315	.425	.274	.408	.412	.566	35-650	VIV		EUROPE ENGINE

HI-TEMP VALVE STEM SEALS- METAL CLAD (VSB,VIV) PROGRESSIVE VALVE STEM DIAM (ACTUAL SEAL SIZE - UNLOADED) *continued*

"UNLOADED"		ACTUAL SIZE				METAL CLAD CHIMNEY HAS SPRING, RING			METAL POSITIVE VALVE SEAL
FITS STEM DIAM	FITS GUIDE O.D.	STEM DIAM	GUIDE O.D.	TOTAL HEIGHT	SEAL WIDTH		PART #	STYLE	TYPE
.313	.502	.275	.491	.531	.623	35-804	VSB		UNIVERSAL
.313	.502	.275	.494	.512	.615	35-809	VSB		UNIVERSAL
.315=8.0m		.276	.411	.354	.571	35-ME4	VIV		MERCEDES
.315		.276	.413	.413	.560	35-YUG01	VIV		YUGO / RENAULT
.315	.474	.276	.470	.542	.570	35-441	VSB2	VSB2	NISSAN A14
		.276	.549	.429	.610	35-MAR2	VSB2		MAZDA R2
.313	.418	.277	.412	.465	.500	35-D71	VSB2		DETROIT 71 SERIES
.315	.514	.279	.503	.398	.610	35-458L	VSB	GROOVE	TOYOTA LATE
.315	.476	.280	.470	.517	.562	35-8746	VSB2		HI PERFORMANCE
.313	.500	.280	.491	.502	.608	35-805	VSB		GM SMALL BLOCK LATE
.313	.500	.280	.491	.560	.608	35-806	VSB		GM SMALL BLOCK LATE
.315	.554	.280	.492	.518	.610	35-432	VSB		MAZDA UC, NA
.315	.514	.280	.503	.398	.610	35-458	VSB		TOYOTA 22R
.315	.514	.280	.505	.515	.609	35-453	VSB		MINI COOPER
		.280	.580	.602	.710	35-SD33	VSB	660046	NISSAN SD33
.315		.283	.497	.536		35-G38	VSB		GM 3.8L
.311	.472	.289	.467	.415	.663	35-154	VIV		FORD / GM 1.8L BRAZIL
.342	.552	.295	.543	.593	.678	35-371	VSB		GM 350 VORTEC
.345	.563	.297	.547	.459	.690	35-D502	VSB		DETROIT 60 SERIES
.343	.500	.300	.482	.530	.635	35-107	VSB		UNIVERSAL
.343	.502	.303	.494	.524	.620	35-108	VSB		FORD 3.8L / UNIVERSAL
.343	.530	.303	.517	.527	.675	35-529	VSB		UNIVERSAL
.343	.530	.303	.523	.527	.674	use 35-529	VSB		UNIVERSAL
		.305	.589	.531	.636	35-4D30	VSB2	660033	MINI COOPER
.342	.562	.307	.550	.518	.661	35-562	VSB		UNIVERSAL
.342	.562	.308	.544	.582	.705	35-562R	VSB		FORD S.B. / UNIVERSAL
		.308	.548	.590	.642	35-915	VSB2	660906	TOYOTA 2B
		.309	.587	.520	.705	35-413	VSB2-L	660413	ASIAN MARKET
		.313	.537	.676	.690	35-6BB1	VSB2		ISUZU 6BB1
		.313	.544	.577	.644	35-132	VSB2		
	.552	.314	.539	.676	.687	35-4BD1	VSB		ISUZU 4BD1, 6BD1
		.314	.580	.535	.675	35-414	VSB		CHINA MARKET
.342	.472	.315	.463	.435	.677	35-472			MINI COOPER
.343	.492	.315	.478	.397	.628	35-125	VIV		CADILLAC 4.1-4.9L
		.318	.456	.418	.610	35-BENZ280	VIV		MERCEDES-ORIGINAL ALL RUBBER
		.318	.544	.575	.673	35-ED33	VSB	660023	NISSAN / TOYOTA
		.318	.548	.532	.532	35-913	VSB2	50006	UNIVERSAL
		.320	.505	.570	.632	35-EH700	VSB	660080	HINO EH700
.373	.640	.325	.629	.690	.798	35-803	VSB		CHRYSLER SMALL BLOCK
		.329	.544	.577	.670	35-144	VSB	660051	TOYOTA 90913-02044
.373		.333	.665	.690	.796	35-MACK2	VSB-NG		MACK E7 4V



HI-TEMP VALVE STEM SEALS- METAL CLAD (VSB,VIV) PROGRESSIVE VALVE STEM DIAM (ACTUAL SEAL SIZE - UNLOADED) *continued*

"UNLOADED"		ACTUAL SIZE				METAL CLAD CHIMNEY HAS SPRING, RING			METAL POSITIVE VALVE SEAL
FITS STEM DIAM	FITS GUIDE O.D.	STEM DIAM	GUIDE O.D.	TOTAL HEIGHT	SEAL WIDTH	PART #	STYLE	TYPE	POPULAR FIT
		.334	.479	.392	.637				
.373	.625	.334	.615	.530	.742	35-403	VSB		UNIVERSAL
.373	.625	.335	.617	.530	.741	35-403	VSB		FORD 7.8L DIESEL TRUCK
.373		.336	.651	.704	.802	35-MACK3	VSB-RG		MACK E7 4V
.373	.530	.338	.516	.520	.677	35-375	VSB		UNIVERSAL
.373		.339	.590	.409	.725	35-G65	VIV		GM 6.5L
.373	.500	.340	.488	.530	.623	35-373	VSB		UNIVERSAL
.373	.562	.343	.553	.516	.661	35-377	VSB		UNIVERSAL
		.343	.583	.560	.712	35-RD8A1	VSB	660100	NISSAN INTAKE
		.350	.620	.596	.723	35-M10C	VSB		M10C DIESEL
		.353	.600	.519	.750	35-G81	VSB		GMC 8.1L VORTEC
		.355	.689	.670	.855	35-MIT6	VSB		MITSUBISHI 33504-10300
		.356	.535	.596	.647	35-10PA	VSB	660036	ISUZU 10PA DIESEL
		.363	.577	.627	.639	35-CUM3	VSB2		CUMMINS L10, M11, K19
		.403	.615	.577	.750	35-6RB1	VSB	660334	ISUZU 6RB1
		.418	.663	.570	.789	35-RD8B	VSB	660035	NISSAN EXHAUST
		.425	.667	.564	.750	35-SD22	VSB2	660050	MITSUBISHI 6D22
		.426	.620	.575	.749	35-EK100	VSB	660991, 660037	HINO EK100
		.430	.630	.620	.748	35-6QA	VSB	660355	ISUZU 6QA
.500	.688	.486	.656	.494	.774	35-545	VSB		MACK 1/2 VALVE

style abbreviations

- vsb..... metal clad seal rubber inside seal skirt , garter spring at chimney
- vsb-ng..... metal clad seal rubber inside seal skirt , no garter spring at chimney
- vsb2..... metal clad seal no rubber inside seal skirt, garter spring at chimney
- vsb2-L..... metal clad sea no rubber inside seal skirt, garter spring at chimney
- vsb2-L..... metal clad sea has small flat lip at base of seal
- vsb5-1..... top hat metal clad seal one piece seal
- vsb5-2..... top hat metal clad seal two piece seal housing & cartridge,
- vsb5-2..... note: . we are changing some of our seals to one piece
- viv metal clad seal rubber inside seal skirt, garter spring at chimney
- viv metal clad seal note:.. rubber inside skirt is grooved for imperfect guides

VSB



VSBNG



VSB2



VSB5-1



VSB5



VIV



VSW





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