

# THERMAL VACUUM VALVES (TVV) PORTED VACUUM SWITCHES

## WHAT THEY DO

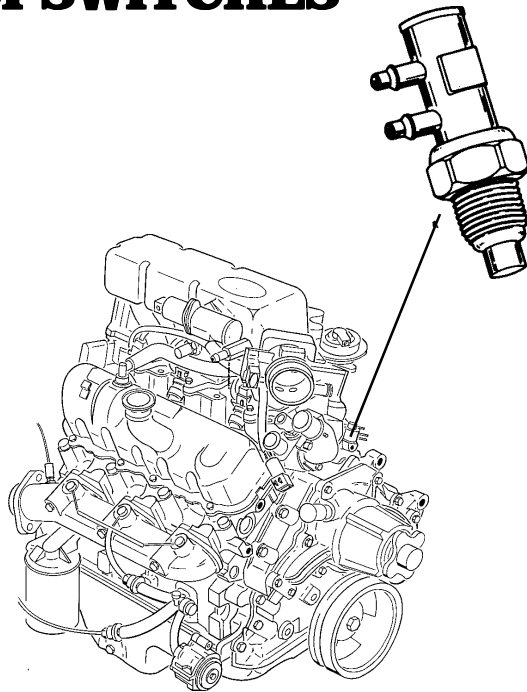
Temperature-sensitive devices which control various vacuum actuated components.

## FAILURE SYMPTOMS

Poor performance and economy.  
Surging, chugging and engine knock.

## MAINTENANCE/SERVICE

Inspect for damage every 6,000 to 8,000 miles. Check for cracked or broken vacuum ports. Function test if engine overheats.



YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>AMC</b>					
<b>4 cyl.</b>					
1979-77	2.0L (G) 121"	All	2	3225912,3228288	13206
1987-84	2.5L (4) 151"	All (4WD)	3	J3237457	13018
1986-83	2.5L (B) 151"	All	5	3238932	13004
1984	2.5L (B) 151"	All	3	3235917	13303
1980	2.5L (B) 151"	All	5	3238932	13004
<b>6 cyl.</b>					
1988-84	4.2L (C) 258"	Eagle (4WD)	3	J3237457	13018
1987-84	4.2L (C) 258"	All (4WD, Exc. Cal, Can)	4	14031356	13224
1986-84	4.2L (C) 258"	All (Incl. Cal)	5	3238932	13004
1983-75	4.2L (C) 258"	All	2	3225912,3228288	13206
1982-80	4.2L (C) 258"	All	3	3235917	13303
1978-75	4.2L (C) 258"	All	2	3226361,3228894	13311
1978-73	4.2L (C) 258"	All	3	3216448	13303
<b>8 cyl.</b>					
1979	5.0L (H) 304"	All	2	3225912,3558288	13206
1978-76	5.0L (H) 304"	All	2	3226361,3228894	13311
1978-76	5.0L (H) 304"	All	2	3225912,3228288	13206
1973-72	5.0L (H) 304"	Gremlin, Javelin (w/Transmission Controlled Spark)	3	3216448	13303
1978-76	5.9L (N,P) 360"	All	2	3225912,3228288	13206

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>AMC 8 cyl (Contd)</b>					
1978-76	5.9L (N,P) 360"	All	2	3226361,3228894	13311
1974-73	5.9L (N,P) 360"	All	3	3218940	13305
1973-72	5.9L (N,R) 360"	Gremlin, Javelin (w/Transmission Controlled Spark)	3	3216448	13303
1970	5.9L (N,R) 360"	All	3	3210853	13312
1970	6.4L (S,X) 390"	All	3	3210853	13312
1978-76	6.6L (Z) 401"	All	2	3226361,3228894	13311
1977-75	6.6L (Z) 401"	All	2	3225912,3228288	13206
1974-73	6.6L (Z) 401"	All	3	3218940	13305
1973-72	6.6L (Z) 401"	Gremlin, Javelin (w/Transmission Controlled Spark)	3	3216448	13303

## BUICK

### 4 cyl.

1983-82	1.8L (O) 112"	Skyhawk	2	373510	13206
1982	1.8L (G) 112"	Skyhawk	2	3031549,355961	13202
1982	1.8L (O,G) 112"	Skyhawk	2	25041304	13237
1983	2.0L (P) 121"	Skyhawk (Can)	4	14031356	13224
1983-82	2.0L (B,P) 122"	Skyhawk	2	373510	13206
1982	2.0L (B,P) 122"	Skyhawk	2	3031549,355961	13202
1983-82	2.5L (5,R) 151"	Century, Skylark (Incl.Exp,Can)	2	546895	13240
1983-82	2.5L (5,R) 151"	Century, Skylark	2	10022316	13218
1982	2.5L (5,R) 151"	Century, Skylark	3	3039246	13220
1981-80	2.5L (5) 151"	Skylark	2	3046782	13214
1980	2.5L (5) 151"	Skylark	2	499047,3033397	13201
1980	2.5L (5) 151"	Skylark	3	3039246	13220

### 6 cyl.

1986-84	2.8L (X,W) 173"	Century, Skylark	3	25040738,3035810	13210
1986-82	2.8L (X) 173"	Century "T" Type, Skylark (Incl.Exp)	2	373510	13206
1986-82	2.8L (X) 173"	Century "T" Type (Incl.Exp)	2	14003932	13204
1985-82	2.8L (X) 173"	All	4	10012226,25040054	13222
1983-82	2.8L (X,L) 173"	Century, Skylark	3	10012353	13213
1981-80	2.8L (X,7) 173"	Skylark (Incl.Exp,Can)	4	14003934	13205
1981-80	2.8L (X,7) 173"	Skylark	4	10012226,25040054	13222
1981-80	2.8L (X,7) 173"	Skylark	2	14003930	13026
1985-82	3.0L (E) 181"	Century, Electra	2	3051170	13218
1979	3.2L (C) 196"	Regal	4	3040827	13231
1979-78	3.2L (C) 196"	Century, Regal	4	3040827	13231
1979-78	3.2L (C) 196"	All	2	3031518	13221
1987	3.8L (A) 231"	Regal (Can)	4	14015575	13234
1987-86	3.8L (A) 231"	Regal	2	3039583	13218
1985-84	3.8L (A) 231"	LeSabre, Regal	2	3039583	13218
1983	3.8L (A,8) 231"	Century, Riviera, Skylark	2	22536551	13235
1983-82	3.8L (A,3) 231"	Riviera	2	22514776	13212
1982-81	3.8L (A,3) 231"	Turbo Regal, Riviera	2	22536551	13235
1981	3.8L (A,3) 231"	Riviera (Incl.Can)	2	3046782	13214
1981-80	3.8L (A,3) 231"	All	2	3039583	13218
1981-79	3.8L (A,3) 231"	Century, Electra, LeSabre, Regal	4	3040827	13231
1980	3.8L (A,3) 231"	Turbo Century, LeSabre, Regal, Riviera	4	3040943	13231
1980-79	3.8L (A) 231"	All (Exc.Cal)	3	3042272	13011
1980-77	3.8L (A,G,2,3) 231"	All	4	3033795	13217
1979	3.8L (A,3) 231"	Century, LeSabre, Regal (w/Closed Loop)	3	3035810,25040738	13210
1979-77	3.8L (A,G,2,3) 231"	All	2	3031518	13221
1978	3.8L (A,G,2,3) 231"	Turbo Century, LeSabre, Regal	4	3040943	13231
1978	3.8L (A,G,2,3) 231"	Century, LeSabre, Regal, Skyhawk, Skylark	4	3040827	13231

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>BUICK 6 cyl (Contd)</b>					
1977	3.8L (C) 231"	Apollo, Century, Electra, LeSabre, Skyhawk	4	3040827	13231
1976	3.8L (C) 231"	Apollo, Century, Skyhawk	5	3031427	13238
1982-80	4.1L (4) 250"	All	2	3039583	13218
1980	4.1L (4) 250"	Electra, LeSabre	4	3040827	13231
1975-74	4.1L (D) 250"	Apollo, Skylark	2	370721,3030200,3030951	13201
1976	4.3L (F) 260"	Apollo	4	303152	13232
1975	All	All	5	3031427	13238
<b>8 cyl.</b>					
1981-80	4.3L (S) 265"	All	4	10012226,25040054	13222
1985-77	4.4L (J) 267"	All	2	373510	13206
1981-78	4.9L (W) 301"	All	4	3040871	13009
1980-79	4.9L (W) 301"	All	2	499047,3033397	13201
1990-83	5.0L (Y) 307"	Electra, Estate Wagon, LeSabre, Riviera (w/ Closed Loop)	2	3055550,22522527	13239
1987-86	5.0L (Y) 307"	Estate Wagon, Regal	2	22536551	13235
1987-86	5.0L (H) 305"	LeSabre, Regal	2	3031386	13209
1987-82	5.0L (Y) 307"	LeSabre, Regal	3	22505266	13213
1986-82	5.0L (Y) 307"	Electra, LeSabre, Regal, Riviera, Skylark	2	22514776	13212
1985	5.0L (Y) 307"	Electra, Electra Wagon, LeSabre, Riviera	2	22536551	13235
1985-82	5.0L (H) 305"	LeSabre, Regal	2	3030951	13201
1983	5.0L (Y) 307"	LaSabre Wagon	2	3048786	13012
1983-81	5.0L (Y) 307"	Electra, LeSabre, Riviera	2	22536551	13235
1981	5.0L (H) 305"	Century, Regal	2	3031386	13209
1980	5.0L (H) 305"	Century, Regal	2	3043015,14007803	13208
1980	5.0L (Y) 307"	Riviera	2	22506162	13036
1980-79	5.0L (H) 305"	All (Incl.Cal)	2	3031549	13202
1980-77	5.0L (H) 305"	Apollo, Century, Regal (Cal)	2	3031385	13206
1980-77	5.0L (Y) 301"	All (w/AT,A/C)	2	546895	13240
1979	5.0L (G,H) 305"	Century, Regal, Skylark	2	3041857	13223
1978-77	5.0L (H,U) 305"	All	2	3031386	13209
1978-77	5.0L (Y) 301"	All	2	3031386	13209
1981-80	5.7L (X) 350"	All	2	3039583	13218
1980	5.7L (R,X) 350"	Electra, LeSabre	4	3040827	13231
1980	5.7L (R) 350"	Electra, LaSabre, Riviera (Exc.Cal)	3	22506187	13025
1980	5.7L (R) 350"	Riviera	2	22506162	13036
1980-79	5.7L (L,R,X) 350"	All	2	3031549	13202
1979	5.7L (L,R,X) 350"	Century, Regal, Skylark	2	3041857	13223
1979-78	5.7L (L,R,X) 350"	Electra, Estate Wagon, LeSabre, Riviera	2	3033753	13230
1978-77	5.7L (L,R,X) 350"	All	2	3031386	13209
1977	5.7L (L) 350"	All	2	3031385	13206
1977	5.7L (H,J,L,R) 350"	All	2	3033753	13230
1977	5.7L (H,J,L,R) 350"	Century, Electra, LeSabre, Riviera	3	3035810,25040738	13210
1977	5.7L (H,J,L,R) 350"	Century, Electra, LeSabre, Riviera	2	3033753	13230
1976	5.7L (H,J) 350"	Apollo, Electra, LeSabre	5	3031427	13238
1976-68	5.7L (H,J,K) 350"	All	3	1238524,3029763	13200
1980-77	6.6L (K) 403"	All (w/AT,A/C)	2	546895	13240
1979	6.6L (K) 403"	Electra, LeSabre, Riviera	3	3039246	13220
1979-78	6.6L (K) 403"	Electra, LeState Wagon, LeSabre, Riviera	2	3033750	13230
1977	6.6L (K) 403"	Century, Electra, LeSabre, Riviera (Incl.Cal & All 4Bbl.)	3	3035810,25040738	13210
1969-68	6.6L 400"	All	3	1238524,3029763	13200
1969-68	7.0L 430"	All	3	1238524,3029763	13200
1976	7.5L (T) 455"	Electra, Le Sabre, Riviera	5	3031427	13238
1976-68	7.5L (T,U,V,W) 455"	All	3	1238524,3029763	13200
1975	All	All	5	3031427	13238

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
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## CADILLAC

### 4 cyl.

1983-82	1.8L (G) 112"	Cimarron (Incl.Exp,Can)	2	373510	13206
1982	1.8L (G) 112"	Cimarron (w/AT)	2	3031549	13202
1982	1.8L (G) 112"	Cimarron	2	25041304	13237

### 6 cyl.

1985-82	4.1L (8) 250"	All	5	3049626	13006
1980	4.1L (8) 250"	DeVille, Fleetwood	4	3040827	13231
1982-81	All	All	2	3039583	13218

### 8 cyl.

1990-86	5.0L (9,Y) 307"	Brougham	2	3055550	13239
1987-86	5.0L (9,Y) 307"	Fleetwood	2	22514776	13212
1980-79	5.7L (8) 350"	Eldorado, Seville (w/EFI)	3	3029763,3030975	13200
1979	5.7L (B) 350"	Eldorado, Seville (w/EFI)	2	3033753	13230
1979	5.7L (B) 350"	Eldorado, Seville (w/EFI)	3	3039246	13220
1977-76	5.7L (R) 350"	Seville	3	419591	13200
1984	6.0L (6,9) 368"	DeVille, Fleetwood	2	3041857	13223
1984-82	6.0L (6,9) 368"	Limo	3	3035810,25040738	13210
1984-82	6.0L (6,9) 368"	Commercial	5	3035807	13007
1984-82	6.0L (6,9) 368"	Limo	5	3035807	13007
1983	6.0L (9) 368"	Fleetwood	2	3041857	13223
1981	6.0L (9) 368"	Commercial, DeVille, Eldorado, Limo, Seville	2	3041857	13223
1980	6.0L (6,9) 368"	All (Incl.Cal)	4	10012226,25040054	13222
1980	6.0L (6,9) 368"	DeVille, Eldorado, Fleetwood, Seville	5	3035807	13007
1980-78	6.0L (6,9) 368"	All	3	3035810	13210
1980-78	7.0L (S) 425"	All	3	3035810	13210
1980-78	7.0L (S) 425"	Commercial, DeVille, Fleetwood (Exc.Cal)	3	1613499	13027
1979-78	7.0L (S) 425"	All	2	546895	13240
1979-77	7.0L (S) 425"	Commercial	5	3035807	13007
1979-77	7.0L (S) 425"	All	5	3035807	13007
1978	7.0L (S) 425"	DeVille, Fleetwood	3	3029763,3030975	13200
1967	7.0L (7) 429"	All	3	3029763,3030975	13200
1974-67	7.7L (R) 472"	All	3	3029763,3030975	13200
1971-69	7.7L (R) 472"	All	4	3015636	13228
1976-67	8.2L (S) 500"	All	3	3030975	13200
1974	8.2L (S) 500"	All	4	3015636	13228

## CHEVROLET

### 4 cyl.

1980-75	1.4L (I) 85"	All	2	3030951	13201
1987-84	1.6L (C,4) 98"	Chevette	2	25041304	13237
1987-82	1.6L (C,4) 98"	Chevette	5	14037782	13215
1984-83	1.6L (C,4) 98"	Chevette (w/MT)	2	3030951	13201
1982	1.6L (C) 98"	Chevette (w/MT)	2	14003932	13204
1980-75	1.6L (E) 98"	All	2	3030951	13201
1983-82	1.8L (D,G) 112"	Cavalier	2	373510	13206
1982	1.8L (D,G) 112"	Cavalier	2	25041304	13237
1982	1.8L (D,G) 112"	Cavalier (w/AT)	2	3031549	13202
1983	2.0L (B,P) 121"	Cavalier	2	373510	13206
1983	2.0L (P) 121"	Cavalier (w/AT)	2	3031549	13202
1980-75	2.3L 140"	All	2	3030951	13201
1983-82	2.5L (R,2) 151"	Celebrity, Citation	2	10022316	13218
1983-82	2.5L (R,2) 151"	Camaro, Celebrity, Citation	2	546895	13240

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>CHEVROLET 4 cyl (Contd)</b>					
1982	2.5L (R,2) 151"	Citation	2	499047	13201
1982	2.5L (R,2) 151"	Camaro, Celebrity, Citation	3	3039246	13220
1982	2.5L (R,2) 151"	Cavalier (w/AT)	2	3031549	13202
1981-80	2.5L (V,5) 151"	Citation	2	3046782	13214
1980	2.5L (V,5) 151"	Citation	3	3039246	13220
1980-79	2.5L (V,5) 151"	Monza	3	3039246	13220
1979-78	2.5L (V,5) 151"	All	2	546895	13240
1978	2.5L (V,5) 151"	All	3	3039246	13220
<b>6 cyl.</b>					
1987-85	2.8L (X) 173"	Celebrity, Citation (Can)	2	373510	13206
1987-80	2.8L (S,W,X,Z) 173"	Celebrity, Citation (Incl.Can)	2	14003932	13204
1986-82	2.8L (S,W) 173"	Camaro, Celebrity, Citation	3	3035810,25040738	13210
1983-80	2.8L (S,W,X,Z) 173"	Citation	3	3041017,10012353	13213
1982	2.8L (S,W,X,Z) 173"	Camaro	2	3033753	13230
1981-80	2.8L (X,Z,7) 173"	Citation	4	14003934	13205
1980	2.8L (X,7) 173"	Citation	2	14003930	13026
1990	3.1L (D) 191"	Lumina APV	2	10137025	13206
1979-78	3.2L (C) 196"	Monza	4	3040827	13231
1979-78	3.2L (C) 196"	All	2	3039583	13218
1979-78	3.3L (M) 200"	All	2	373510	13206
1979-78	3.3L (M) 200"	All	2	3031549	13202
1978	3.3L (M) 200"	All	2	3031386	13209
1987-85	3.8L (A) 231"	Elcamino, Monte Carlo (Can)	4	14045575	13234
1984-82	3.8L (K,9) 229"	Malibu, Monte Carlo	2	10055876	13212
1984-82	3.8L (9) 229"	Malibu, Monte Carlo	2	3043015	13208
1984-82	3.8L (A) 231"	All	2	3039583	13218
1981	3.8L (A,3) 231"	Malibu	4	3040827	13231
1981	3.8L (3) 231"	Monte Carlo (Incl.Turbo)	2	22536551	13235
1981-80	3.8L (A,3) 231"	All	2	3039583	13218
1981-80	3.8L (A,3) 231"	Caprice, Camaro, Monte Carlo, Monza (Incl. Turbo)	4	3040943	13231
1980	3.8L (K) 229"	Caprice, Malibu, Monte Carlo	3	25040055	13213
1980-79	3.8L (K) 229"	All	2	373510,3036912	13206
1980-79	3.8L (A) 231"	All (Exc.Cal)	3	3042272	13011
1980-77	3.8L (A,3) 231"	All	4	3033795	13217
1979-78	3.8L (A,3) 231"	All	4	3040827	13231
1979-78	3.8L (A,3) 231"	All	2	3039583	13218
1980-79	4.1L (D) 250"	All	2	373510,3036912	13206
1979-78	4.1L (D) 250"	All	2	3031549	13202
1977-74	4.1L (D) 250"	All	2	3030951	13201
1987-85	4.3L (Z) 262"	Caprice, El Camino, Impala, Monte Carlo	2	3043015	13208
<b>8 cyl.</b>					
1977-76	4.3L (G) 262"	All	2	3031385	13206
1976-75	4.3L (G) 262"	All (Incl.4Bbl.)	2	3031386	13209
1975	4.3L (G) 262"	Monza (w/2Bbl.)	2	3031549	13202
1987-82	4.4L (J) 267"	All	2	3030951	13201
1985-77	4.4L (J) 267"	All	2	373510	13206
1982	4.4L (J) 267"	All	2	14037796	13212
1982-81	4.4L (J) 267"	Camaro, Malibu, Monte Carlo	2	3043015	13208
1982-77	4.4L (J) 267"	All	2	3031549	13202
1981-80	4.4L (J) 267"	All	2	3043015	13208
1980	4.4L (J) 267"	All	3	25040055	13213
1979	4.4L (J) 267"	Malibu, Monte Carlo	2	3041857	13223
1990-86	5.0L (Y) 307"	Caprice	2	3055550	13239
1988-86	5.0L (F,G,H) 305"	Camaro, Caprice, Monte Carlo	2	3031385	13206
1988-81	5.0L (G,H) 305"	Camaro, Malibu, Monte Carlo	2	3043015	13208

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YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>CHEVROLET 8 cyl (Contd)</b>					
1988-80	5.0L (G,H) 305"	All	2	3031386,3041769	13209
1987	5.0L (Y) 307"	Caprice	2	22536551	13235
1987-82	5.0L (H) 305"	All	2	3030951	13201
1985-83	5.0L (7) 305"	All	2	10055876	13212
1985-83	5.0L (G,H) 305"	All	2	14037796	13212
1985-82	5.0L (G,H) 305"	Camaro (w/Closed Loop)	2	14037796	13212
1985-77	5.0L (G,H) 305"	All	2	373510	13206
1982	5.0L (G,H) 305"	Malibu	2	3031386	13209
1982	5.0L (H) 305"	All	2	10055876	13212
1982-77	5.0L (G,H) 305"	All	2	3031549	13202
1981-80	5.0L (G,H) 305"	All	2	3043015	13208
1980	5.0L (G,H) 305"	All	2	3031385	13206
1979	5.0L (G,H) 305"	All	2	3041857	13223
1978-77	5.0L (U) 305"	All	2	3031386	13209
1977-76	5.0L (U) 305"	All	2	3031385	13206
1976-75	5.0L (U) 305"	All	2	3031386	13209
1985-80	5.7L (L,6,8) 350"	All	2	3031386,3041769	13209
1985-77	5.7L (H,J,L,T,V,X,4,6,8) 350"	All	2	373510	13206
1982-77	5.7L (L,6,8) 350"	All	2	3031549	13202
1981-80	5.7L (L,6,8) 350"	All	2	3043015	13208
1980	5.7L (L,6,8) 350"	All	3	25040055	13213
1980-77	5.7L (L,X,4,6,8) 350"	All	4	3033795	13217
1979	5.7L (L,4,8) 350"	All	2	3041851	13223
1978-75	5.7L (L,V,X) 350"	All	2	3031386	13209
1977-76	5.7L (L,X) 350"	All	2	3031385	13206
1975	5.7L (H) 350"	Monza (w/2Bbl.)	2	3031549	13202
1975-74	5.7L (H,J,K,L,T) 350"	All	2	3030951	13201
1977-75	6.6L (U) 400"	All	2	3031385	13206
1975	6.6L (U) 400"	Monza	2	3031549	13202
1975-74	6.6L (U) 400"	All	2	3030951	13201
1977-76	7.4L (S) 454"	All	2	3031385	13206
1975-74	7.4L (S) 454"	All	2	3030951	13201

## CHEVROLET TRUCK

### 4 cyl.

1984-83	2.0L (Y) 121"	All	5	25040736	13236
1984-83	2.0L (Y) 121"	S Series (w/AT)	4	14058773	13035
1984-82	2.0L (Y) 121"	S-10, S-15 Pickup	4	14003934,14069093	13205

### 6 cyl.

1993-90	2.8L (R) 173"	S-10 (w/MT)	2	10137025	13206
1989-86	2.8L (R) 173"	S-10,15	2	10137025	13206
1987-84	2.8L (B,R) 173"	All	4	14064249	13216
1986-79	2.8L (B,R) 173"	Blazer, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385,14025249	13206
1985	2.8L (B) 173"	S, T-1 (Incl. Hi-Alt, w/MT)	3	25040055	13213
1985-82	2.8L (B) 173"	S, T-1	3	10012353	13213
1990	3.1L (D) 191"	Lumina APV	2	10137025	13206
1986-79	3.8L (K) 229"	Blazer, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385,14025249	13206
1984-82	3.8L (K) 229"	El Camino	2	3043015	13208
1984-82	3.8L (9) 229"	El Camino	2	14037796	13212
1984-81	3.8L (K) 229"	All	5	25040736	13236
1981-80	3.8L (K) 229"	El Camino	4	3039144	13227
1980	3.8L (K) 229"	El Camino	4	3040827	13231
1980	3.8L (K) 229"	El Camino	3	25040055	13213
1987-84	4.1L (D) 250"	All	4	14064249	13216
1986-79	4.1L (D) 250"	Blazer, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385,14025249	13206

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>CHEVROLET TRUCK 6 cyl (Contd)</b>					
1984	4.1L (D) 250"	C, G, K Series	4	14072798	13033
1984-83	4.1L (D) 250"	All	2	14057273	13401
1984-81	4.1L (D) 250"	All	5	25040736	13236
1981	4.1L (D) 250"	All	3	25040735	13233
1981	4.1L (D) 250"	C, G, K Series (w/MT)	4	14072798	13033
1980-78	4.1L (D) 250"	All	2	3031549	13202
1977-74	4.1L (D) 250"	C, G, K-10, Blazer	2	370721, 3030951	13201
1986-85	4.3L (N,Z) 262"	All	4	14031356	13224
1986-85	4.3L (N,Z) 262"	El Camino	2	3043015	13208
1986-85	4.3L (N,Z) 262"	All	3	25040735	13233
1989-88	4.8L (T) 292"	All	4	14031356	13224
1989-84	4.8L (T) 292"	All	4	14031356	13224
1986-84	4.8L (T) 292"	All	4	14031356	13224
1986-79	4.8L (T) 292"	Blazer, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385, 14025249	13206
1980-78	4.8L (T) 292"	All	2	3031549	13202
<b>8 cyl.</b>					
1982-81	4.4L (J) 267"	El Camino	2	3043015	13208
1981-82	4.4L (J) 267"	El Camino	2	14037796	13212
1979	4.4L (J) 267"	El Camino	2	3041857	13223
1987-81	5.0L (F,G,H) 305"	All	4	14031356	13224
1986-85	5.0L (H) 305"	All	2	373510	13206
1986-85	5.0L (H) 305"	All	4	14015575	13234
1986-84	5.0L (F,H) 305"	All	3	25040735	13233
1986-83	5.0L (F,G,H) 305"	C, G, K (Cal)	2	3053249	13016
1986-81	5.0L (H) 305"	All	4	3053331, 3055378	13219
1986-80	5.0L (F,G,H) 305"	C, G, K 1/2 & 3/4 Ton	4	14015575	13234
1986-76	5.0L (F,G,H) 305"	All	2	3031385, 14025249	13206
1985	5.0L (F,H) 305"	C, G, K-1, 2 (w/MT)	3	25040055	13213
1985-84	5.0L (F,G,H) 305"	C, G, K-1, 2, 3	3	25040055	13213
1985-81	5.0L (F,G,H) 305"	El Camino	2	3043015	13208
1984-81	5.0L (H) 305"	El Camino	2	14037796	13212
1983-81	5.0L (F,G,H) 305"	All	5	25040736	13236
1981-78	5.0L (F,G,H) 305"	All	2	373510	13206
1980	5.0L (F,G,H) 305"	All	2	3043766	13225
1980-79	5.0L (F,G,H) 305"	Blazer, El Camino, C, G, K-2, 3, P-3	2	3041273	13214
1980-79	5.0L (F,G,H) 305"	All	4	3039144	13227
1978	5.0L (U) 305"	C, G, K-1, 2, 3, Blazer	2	3031386	13209
1978	5.0L (U) 305"	C, G, K1, 2	2	3031385	13206
1978-75	5.0L (U) 305"	All	2	3031386	13209
1978-73	5.0L (U) 305"	All	2	3030951	13201
1977-76	5.0L (Q) 305"	All	3	364708	13200
1990-87	5.7L (K,M) 350"	All	4	3053331, 3055378	13219
1988	5.7L (W) 350"	All	2	14057273	13401
1988-85	5.7L (M) 350"	All	2	14057273	13401
1988-84	5.7L (K,L,M) 350"	All	3	25040737	13242
1988-84	5.7L (M) 350"	C, K Series	4	14075682	13034
1987-83	5.7L (M) 350"	All	2	14031351	13206
1987-81	5.7L (K,L,M,P) 350"	All	2	14031351	13010
1987-81	5.7L (K,L,M,P) 350"	All	4	14031356	13224
1986-84	5.7L (K,L,M,P) 350"	All	3	25040735	13233
1986-83	5.7L (K,L,M,P) 350"	C, G, K (Cal)	2	3053249	13016
1986-81	5.7L (L,M) 350"	All	4	3053331, 3055378	13219
1986-80	5.7L (K,L,M,P) 350"	C, G, K 1/2 & 3/4 ton	4	14015575	13234
1986-76	5.7L (K,L,M,P) 350"	All	2	3031385, 14025249	13206
1985-84	5.7L (K,L,M,P) 350"	C, G, K-1, 2, 3	3	25040055	13213
1985-82	5.7L (L,M,P) 350"	C, G, K Series	4	14050293	13028
1983	5.7L (K,L,M,P) 350"	All	5	25040736	13236

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>CHEVROLET TRUCK 8 cyl (Contd)</b>					
1983-79	5.7L (K,L,M,P) 350"	C, G, K, P-2, 3	2	3041769	13209
1982-81	5.7L (L,M,P) 350"	All	3	25040737	13242
1982-80	5.7L (K,L,M,P) 350"	All	4	14015575	13234
1981	5.7L (K,L,M,P) 350"	All	5	25040736	13236
1981-78	5.7L (L,M,P) 350"	All	2	373510	13206
1980	5.7L (L,M,P) 350"	All	2	3043766	13225
1980-79	5.7L (L) 350"	C, K-2, 3, G-3	2	3041769	13209
1980-79	5.7L (L,M,P) 350"	Blazer, ElCamino, C, G, K-2, 3, P-3	2	3041273	13214
1980-79	5.7L (L,M,P) 350"	All	4	3039144	13227
1980-77	5.7L (L,M,P) 350"	All	4	3033795	13217
1978	5.7L (L) 350"	All	2	3031549	13202
1978	5.7L (L) 350"	C, G, K-1, 2	2	3031385	13206
1978-75	5.7L (L) 350"	All	2	3031386	13209
1978-75	5.7L (L,Y) 350"	All	3	364708	13200
1978-73	5.7L (L) 350"	All	2	3030951	13201
1975	5.7L (L) 350"	All	2	3031549	13202
1981-78	6.6L (X,R) 400"	All	2	373510	13206
1980	6.6L (X) 400"	All	2	3043766	13225
1980-79	6.6L (X,R) 400"	Blazer, ElCamino, C, G, K-2, 3, P-3	2	3041273	13214
1980-79	6.6L (X,R) 400"	C, K-2, 3, G-3	2	3041769	13209
1980-79	6.6L (X,R) 400"	All	4	3039144	13227
1978	6.6L (R) 400"	C, G, K-1, 2	2	3031385	13206
1978	6.6L (R) 400"	All	2	3031549	13202
1978-75	6.6L (R,U) 400"	All	2	3031386	13209
1977-75	6.6L (M,U) 400"	All	3	364708	13200
1990-88	7.4L (N) 454"	All	2	14057273	13401
1990-81	7.4L (N,W) 454"	All	4	3053331,3055378	13219
1989-86	7.4L (N,W) 454"	All	3	25040737	13242
1987-85	7.4L (W) 454"	All	2	14057273	13401
1985-79	7.4L (N,W,S) 454"	C, K, P-2, 3	2	14007803	13208
1985-79	7.4L (N,W,S,Y) 454"	All	2	3033753	13230
1982-81	7.4L (W) 454"	All	3	25040737	13242
1981-80	7.4L (N,W,S,Y) 454"	C, K, P-1	2	3043015	13208
1981-78	7.4L (N,W,S,Y) 454"	All	2	373510	13206
1980	7.4L (N,W,S,Y) 454"	All	2	3043766	13225
1980-79	7.4L (N,W,S,Y) 454"	All	4	3039144	13227
1978-75	7.4L (N,W,S,Y) 454"	All	2	3031386	13209
1978-73	7.4L (N,W,S,Y) 454"	All	2	3030951	13201

## CHRYSLER

### 4 cyl.

1989-74	2.2L (A,C,D,E,F) 135"	All	2	4030351,4049277	13002
1987	2.2L (D,E) 135"	All	2	4049208	13003
1987-82	2.2L (B,C,D,E,F) 135"	All	2	3870549,3879736	13001
1987-82	2.2L (B,C,D,E,F) 135"	All	2	4095231,3830429	13311
1987-80	2.2L (B,C,D,E,F) 135"	All	2	3879707	13005
1986-84	2.2L (C,D,E,F) 135"	All	2	4049208	13003
1983	2.2L (C) 135"	All	2	3870528,4049276	13000
1982-81	2.2L (B) 135"	All	2	4049208	13003

### 6 cyl.

1983-77	3.7L (C,D,E,F,H,J) 225"	All	2	4030351,4049277	13002
1983-77	3.7L (C,D,E,F,H,J) 225"	All	2	3879736	13001
1982-81	3.7L (E,F) 225"	All (1Bbl.)	2	4049276	13000
1982-80	3.7L (C,E,F) 225"	LeBaron (w/o A/C)	2	4095231,3830429	13311
1982-79	3.7L (C,D,E,F,H,J) 225"	All	2	3879707	13005



# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>CHRYSLER 6 cyl (Contd)</b>					
1982-79	3.7L (C,D,E,F,H,J) 225"	All	2	4049208	13003
1978-77	3.7L (D) 225"	All (Incl.Cal)	2	3837622	13000
<b>8 cyl.</b>					
1989-85	5.2L (P,4) 318"	All	2	4049277	13002
1987-85	5.2L (P,4) 318"	All (2Bbl.)	2	4095231,3830429	13311
1987-85	5.2L (P,4) 318"	All (4Bbl.)	2	3879736	13001
1987-77	5.2L (G,J,K,L,M,N) 318"	All (2Bbl.)	2	4095231	13311
1987-77	5.2L (G,J,K,L,M,N) 318"	All (4Bbl.)	2	3879736	13001
1984-74	5.2L (G,J,K,L,M,N) 318"	All (2 & 4Bbl.)	2	3837622	13000
1981-75	5.2L (G) 318"	All	3	3614023,3780126	13312
1980	5.2L (G) 318"	All	2	3879707	13005
1978-77	5.2L (G) 318"	All (Exc.Cal)	2	4095231,3830429	13311
1978-77	5.2L (G) 318"	All	2	3879707	13005
1975	5.2L (G) 318"	All	2	3879707	13005
1981-71	5.9L (J,K) 360"	All	3	3614023,3780126	13312
1980-75	5.9L (J,K) 360"	All (2 & 4Bbl.)	2	3837622	13000
1980-75	5.9L (J,K) 360"	All	2	3879707	13005
1978-77	5.9L (K) 360"	All	2	3879736	13001
1978-77	5.9L (K) 360"	All	2	3879707	13005
1977	5.9L (K) 360"	All	2	4049208	13003
1971	6.2L (L,N) 383"	All	3	3614023,3780126	13312
1978-77	6.6L (N) 400"	All	2	3879736	13001
1978-72	6.6L (M,N,P) 400"	All	3	3614023,3780126	13312
1975	6.6L (M,N,P) 400"	All	2	3879707	13005
1978-77	7.2L (T) 440"	All (4Bbl.)	2	4095231,3830429	13311
1978-77	7.2L (T) 440"	All	2	3879736	13001
1978-75	7.2L (T) 440"	All	2	3879707	13005
1978-71	7.2L (T) 440"	All	3	3614023,3780126	13312
1989-77	All	All	2	4030351,4049277	13002
1976-75	All	All Engine mounted	2	3879736	13001
1976-74	All	All Radiator mounted	2	3837622	13000

## DODGE

### 4 cyl.

1987-78	1.6L (A,B,F,K,3) 97"	Omni	2	3879736	13001
1986-83	1.6L (A,B,F) 97"	All	2	4049208	13003
1983	1.7L (A,B) 105"	All	2	4049208	13003
1983-78	1.7L (A,B) 105"	Omni	2	3879736	13001
1987	2.2L (C,D,E) 135"	All	2	4049208	13003
1987-81	2.2L (B,C,D,E,8) 135"	All	2	4095231,3830429	13311
1987-80	2.2L (B,C,D,E,8) 135"	All	2	3879707	13005
1987-78	2.2L (B,C,D,E,8) 135"	Omni	2	3879736	13001
1986-84	2.2L (C,D,E,8) 135"	All	2	4049208	13003
1982	2.2L (B) 135"	All	2	4049276	13000
1982-81	2.2L (B) 135"	All	2	4049208	13003
1982-77	2.2L (B) 135"	All	2	4030351,4049277	13002

### 6 cyl.

1983-75	3.7L (C,D,E,F,G,H,J) 225"	All (1Bbl.)	2	3879736	13001
1982-79	3.7L (C,D,E,F,G,H) 225"	All	2	3879707	13005
1982-79	3.7L (C,D,E,F,G,H) 225"	All	2	4049208	13003
1982-77	3.7L (C,D,E,F,G,H) 225"	All	2	4095231,3830429	13311
1982-77	3.7L (C,D,E,F,G,H) 225"	All	2	4030351,4049277	13002
1978-74	3.7L (C,D) 225"	All (Incl.Cal,Hi-Alt)	2	3837622	13000
1975	3.7L (C) 225"	All	2	3879707	13005

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>DODGE (Contd)</b>					
<b>8 cyl.</b>					
1989-85	5.2L (P,R,S,4) 318"	All	2	4049277	13002
1989-85	5.2L (P,R,S,4) 318"	All	2	3879736	13001
1984-74	5.2L (G,K,L,M,N,P,R) 318"	All (Incl.Radiator mounted)	2	3837622	13000
1981-72	5.2L (G,K,L,M,N) 318"	All	3	3780126	13312
1980	5.2L (G) 318"	All	2	3879707	13005
1980-75	5.2L (G) 318"	All	2	3879707	13005
1978-77	5.2L (G) 318"	All	2	3879707	13005
1978-75	5.2L (G) 318"	All	2	4095231,3830429	13311
1978-75	5.2L (G) 318"	All (Incl.Cal,Engine mounted)	2	3879736	13001
1978-75	5.2L (G) 318"	All	2	4030351,4049277	13002
1975	5.2L (G) 318"	All	2	3879707	13005
1973-70	5.6L (H) 340"	All	3	3780126	13312
1981-74	5.9L (K,L) 360"	All (Incl.Radiator mounted)	2	3837622	13000
1980-75	5.9L (K,L) 360"	All	2	3879707	13005
1980-72	5.9L (K,L) 360"	All	3	3780126	13312
1978-75	5.9L (K,L) 360"	All	2	4095231,3830429	13311
1978-75	5.9L (K,L) 360"	All (Incl.Engine mounted)	2	3879736	13001
1978-75	5.9L (K,L) 360"	All	2	4030351,4049277	13002
1977	5.9L (K,L) 360"	All	2	4049208	13003
1978-75	6.6L (M,N,P) 400"	All	2	4095231,3830429	13311
1978-75	6.6L (M,N,P) 400"	All (Incl.Engine mounted)	2	3879736	13001
1978-75	6.6L (M,N,P) 400"	All	2	4030351,4049277	13002
1978-74	6.6L (M,N,P) 400"	All (Incl.Radiator mounted)	2	3837622	13000
1978-72	6.6L (M,N,P) 400"	All	3	3780126	13312
1978-75	7.2L (T,U) 440"	All	2	3879707	13005
1978-75	7.2L (T,U) 440"	All	2	4095231,3830429	13311
1978-75	7.2L (T,U) 440"	All (Incl.Engine mounted)	2	3879736	13001
1978-75	7.2L (T,U) 440"	All	2	4030351,4049277	13002
1978-72	7.2L (T,U) 440"	All	3	3780126	13312

## DODGE TRUCK

<b>4 cyl.</b>					
1984-82	1.6L (A,B,3) 97"	Rampage	2	3879736	13001
1984-82	1.7L (A,B) 105"	Rampage	2	3879736	13001
1988-86	2.2L (C) 135"	Dakota	2	3879736,3870549	13001
1988-86	2.2L (C) 135"	Light Duty	2	4049208	13003
1984-82	2.2L (C,D,8) 135"	Rampage	2	4049208	13003
<b>6 cyl.</b>					
1987-78	3.7L (B,E,H,M,N) 225"	All	2	3870549,3879736	13001
1985-78	3.7L (B,E,H,M,N) 225"	Light Duty	3	4041235	13305
1981-78	3.7L (B,E) 225"	All	2	3837622,3870652	13000
1981-78	3.7L (B,E) 225"	All	2	4030351,4049277	13002
1988	3.9L (X) 239"	Dakota	5	4307895	13017
<b>8 cyl.</b>					
1987-85	5.2L (T) 318"	B, D Series	2	4268711	13031
1987-78	5.2L (E,P,R,S,T,U) 318"	All	2	3870549,3879736	13001
1987-74	5.2L (E,P,R,S,T,U) 318"	All	2	3830429,4095231	13311
1987-74	5.2L (E,P,R,S,T,U) 318"	All	2	4030351,4049277	13002
1984-78	5.2L (E,P,R,T,U) 318"	All (w/MT)	3	4041235	13305
1984-78	5.2L (E,P,R,S,T,U) 318"	Light Duty	3	4041235,4268707	13303
1981-74	5.2L (E,P,R,S,T,U) 318"	All	2	3837622,3870652,4049276	13000
1988-87	5.9L (W,Z) 360"	All	5	4307895	13017

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>DODGE TRUCK 8 cyl (Contd)</b>					
1988-87	5.9L (W) 360"	W Series (Cal)	3	4268716	13032
1988-87	5.9L (W) 360"	B, D Series, Ramcharger	3	4268716	13032
1988-87	5.9L (W) 360"	All (over 8500 GVW)	3	4268716	13032
1987-85	5.9L (S,T,U,V,W) 360"	B, D Series (Exc.Cal)	2	4306319	13008
1987-78	5.9L (S,T,U,V,W) 360"	All	2	3870549,3879736	13001
1987-74	5.9L (S,T,U,V,W) 360"	All	2	3830429,4095231	13311
1987-74	5.9L (S,T,U,V,W) 360"	All	2	4030351,4049277	13002
1986-85	5.9L (W) 360"	B, D, W Series	2	4268711	13031
1986-84	5.9L (S,T,U,V,W) 360"	All	3	4268707	13303
1984	5.9L (S,T,U,V,W) 360"	All	2	3879707	13005
1983-78	5.9L (S,T,U,V,W) 360"	Light Duty	3	4268707	13303
1983-78	5.9L (S,T,U,V) 360"	Light Duty	3	4041235	13303
1981-74	5.9L (S,T,U,V,W) 360"	All	2	3837622,3870652,4049276	13000
1977-74	6.6L (J) 400"	All	2	3830429,4095231	13311
1977-74	6.6L (J) 400"	All	2	4030351,4049277	13002
1977-74	6.6L (J) 400"	All	2	3837622,3870652,4049276	13000
1980-78	7.2L (A,D) 440"	All	2	3879707	13005
1980-74	7.2L (A,D) 440"	All	2	3830429,4095231	13311
1980-74	7.2L (A,D) 440"	All	2	4030351,4049277	13002
1980-74	7.2L (A,D) 440"	All	2	3837622,3870652,4049276	13000

## FORD

### 4 cyl.

1992-80	1.6L (2,4,5,7,8) 98"	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-80	1.6L (2,4,5,7,8) 98"	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1992-80	1.6L (2,4,5,7,8) 98"	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1986-76	1.6L (2,4,5,7,8) 98"	Escort, EXP (Incl.Cal,Turbo)	2	D30Z-9D473A,D7BZ-A	13310
1985-80	1.6L (2,4,5,7,8) 98"	Escort, EXP, Fairmont, LTD, Mustang, Pinto	4	D8BE-9D473A1A,A2A, D8BZ-A, D8TE-B1A,B2A	13306
1985-75	1.6L (2,4,5,7,8) 98"	All	2	D5FZ-9D473A	13311
1992-86	1.9L (J,9) 116"	Escort, EXP, Fairmont, LTD, Mustang, Pinto	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1987-84	1.9L (J,9) 116"	Escort, Tempo	2	D7ZE-9D473A1A,A2A,E1SE-A1A, A2A	13301
1974-73	2.0L (X) 122"	Mustang, Pinto	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1992-80	2.3L (A,M,R,S,T,W,X) 140"	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-80	2.3L (A,M,R,S,T,W,X) 140"	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1992-80	2.3L (A,M,R,S,T,W,X) 140"	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1992-80	2.3L (A,M,R,S,T,W,X) 140"	Escort, EXP, Fairmont, LTD, Mustang, Pinto	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1987-84	2.3L (A,M,R,S,T,W,X) 140"	Escort, Tempo	2	D7ZE-9D473A1A,A2A,E1SE-A1A, A2A	13301
1986-76	2.3L (A,M,R,S,T,W,X) 140"	Escort, EXP (Incl.Cal,Turbo)	2	D30Z-9D473A,D7BZ-A	13310
1985-75	2.3L (A,M,R,S,T,W,X) 140"	All	2	D5FZ-9D473A	13311
1981-78	2.3L (A,M,R,S,T,W,X) 140"	All	2	D5VY-9D473A	13310
1980-78	2.3L (T,W,Y) 140"	Fiesta	2	D3TZ-9D473A	13301
1979	2.3L (W,Y) 140"	Mustang (w/Turbocharger,Incl.Cal)	2	D3TZ-9D473A	13301
1977-71	2.3L (Y) 140"	Mustang, Pinto	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1974	2.3L (Y) 140"	Mustang, Pinto	2	D3TZ-9D473A	13301
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-74	All	125	3	D5ZE-8A564A2A,D5ZZ-4A	13305
1996-74	All	95	3	D5OZ-8A564A,E1AZ-D	13304
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>FORD (Contd)</b>					
<b>6 cyl.</b>					
1979	2.8L (Z) 171"	All (incl. CA)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1979-76	2.8L (Z) 171"	All (Incl.Can)	2	D5FZ-9D473A, E1TE-A1A,A2A	13311
1979-76	2.8L (Z) 171"	Fairmont, Granada, Mustang, Pinto	2	D30Z-9D473A, D3TZ-A	13310
1979-73	2.8L (Z) 171"	Fairmont, Granada, LTD, Maverick, Mustang, Pinto, Thunderbird	2	D3TZ-9D473A	13301
1979-68	2.8L (U,Z) 171"	All	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1983-76	3.3L (B,T,X) 200"	All (Incl.Can)	2	D5FZ-9473A,E1TE-A1A,A2A	13311
1983-73	3.3L (B,T,X) 200"	Fairmont, Granada, LTD, Maverick, Mustang, Pinto, Thunderbird	2	D3TZ-9D473A	13301
1981-76	3.3L (B,T,X) 200"	Fairmont, Granada, Mustang, Pinto	2	D30Z-9D473A,D3TZ-A	13310
1980-79	3.3L (B,T,X) 200"	All (Incl.Cal)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1980-68	3.3L (B,T,X) 200"	All	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1984-83	3.8L (3) 232"	All (Incl.Can)	2	D5FZ-9D473A,E1TE-A1A,A2A	13311
1983	3.8L (3) 232"	Fairmont, Granada, LTD, Maverick, Mustang, Pinto, Thunderbird	2	D3TZ-9D473A	13301
1984-76	4.1L (C,L) 250"	All (Incl.Can)	2	D5FZ-9D473A,E1TE-A1A,A2A	13311
1983-73	4.1L (C,L) 250"	Fairmont, Granada, LTD, Maverick, Mustang, Pinto, Thunderbird	2	D3TZ-9D473A	13301
1981-76	4.1L (C) 250"	Fairmont, Granada, Mustang, Pinto	2	D30Z-9D473A,D3TZ-A	13310
1980-68	4.1L (C) 250"	All	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1996-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A, E1AZ-A	13309
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA, E1AZ-C	13307
1992-80	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1992-80	All	95	3	D50Z-8A564A,E1AZ-D	13304
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1986-78	All	All	4	D8TE-9D473B1A,B2A	13306
<b>8 cyl.</b>					
1983-80	4.2L (D) 255"	All	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1983-80	4.2L (D) 255"	Fairmont, Granada, LTD, LTD II, Maverick, Mustang, Thunderbird, Torino	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1982-80	4.2L (D) 255"	All	2	D5FZ-9D473A	13311
1981-80	4.2L (D) 255"	Fairmont, Granada, LTD, LTD II, Mustang, Thunderbird, Torino	2	D30Z-9D473A	13310
1995-83	5.0L (E,F) 302"	All	3	E1AE-8A564AA,H2A	13309
1992-78	5.0L (E,F) 302"	All (Incl.Hi-Alt,Can)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1987-67	5.0L (D,F,G) 302"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1986-78	5.0L (E,F) 302"	All	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1983-73	5.0L (D,F,G) 302"	Fairmont, Granada, LTD, LTD II, Maverick, Mustang, Thunderbird, Torino	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1982-73	5.0L (D,F,G) 302"	All	2	D5FZ-9D473A	13311
1981-73	5.0L (D,F,G) 302"	Fairmont, Granada, LTD, LTD II, Mustang, Thunderbird, Torino	2	D30Z-9D473A	13310
1995-83	5.8L (W) 351"	All	3	E1AE-8A564AA,H2A	13309
1981-78	5.8L (G,H,Q) 351"	All (Incl.Hi-Alt,Can)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1981-73	5.8L (G,H,Q) 351"	Fairmont, Granada, LTD, LTD II, Maverick, Mustang, Thunderbird, Torino	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>FORD 8 cyl (Contd)</b>					
1981-73	5.8L (G,H,Q) 351"	All	2	D5FZ-9D473A	13311
1981-73	5.8L (G,H,Q) 351"	Fairmont, Granada, LTD, LTD II, Maverick, Mustang, Thunderbird, Torino	2	D30Z-9D473A	13310
1981-67	5.8L (G,H,Q) 351"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1977-75	5.8L (H,Q) 351"	All	2	D5VY-9D473A	13310
1978-73	6.6L (S) 400"	Fairmont, Granada, LTD, LTD II, Mustang, Thunderbird, Torino	2	D30Z-9D473A	13310
1978-73	6.6L (S) 400"	Fairmont, Granada, LTD, LTD II, Maverick, Mustang, Thunderbird, Torino	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1978-67	6.6L (S) 400"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1977-75	6.6L (S) 400"	All	2	D5VY-9D473A	13310
1972-67	7.0L (C,N,P) 429"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1978-73	7.5L (A,C) 460"	Fairmont, Granada, LTD, LTD II, Mustang, Thunderbird, Torino	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1978-73	7.5L (A,C) 460"	Fairmont, Granada, LTD, LTD II, Mustang, Thunderbird, Torino	2	D30Z-9D473A	13310
1978-67	7.5L (A,C) 460"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1977-75	7.5L (A,C) 460"	All	2	D5VY-9D473A	13310
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1996-74	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1995-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1992-74	All	95	3	D5OZ-8A564A,E1AZ-D	13304

## FORD TRUCK

### 4 cyl.

1988-87	2.0L (C) 122"	All	3	E77E-8A864AA	13307
1987-85	2.0L (C) 122"	Ranger	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1983	2.0L (C) 122"	Ranger	2	D3TZ-9D473A	13301
1992-86	2.3L (A) 140"	Ranger	3	E1SE-12A091A1A,A2A	13312
1983	2.3L (A) 140"	Ranger	2	D3TZ-9D473A	13301
1996-83	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1996-83	All	95	3	D5OZ-8A564A,E1AZ-D	13304
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1996-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A, E1AZ-A	13309
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1992-83	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1992-83	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307

### 6 cyl.

1983	3.8L (A) 232"	F100 (w/AT)	2	D7BZ-9D473A	13310
1982-73	3.8L (3) 232"	Bronco, E, F100/150/250/350, E200/300, U150	2	D3TZ-9D473A	13301
1974-73	3.9L (A) 240"	Bronco, E, F100/150/350, E200/300, U150	2	D3TZ-9D473A	13301
1973-71	3.9L (A) 240"	F100, 2WD, F250/350 H.D. Cooling	3	C8AZ-12A091A	13312
1986-81	4.9L (E,Y) 300"	All (Incl. Cal)	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1985-80	4.9L (E,Y) 300"	All	3	D7AE-12A091B1A,B2A,E1SE-A1A, A2A	13312

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>FORD TRUCK 6cyl (Contd)</b>					
1983-80	4.9L (E,Y) 300"	All	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1982-73	4.9L (A,B,C,E,Y) 300"	Bronco, E, F100/150/250/350, E200/300, U150	2	D3TZ-9D473A	13301
1981-76	4.9L (A,B,C,E,Y) 300"	All	2	D7BE-9D473A1A,A2A	13310
1979-76	4.9L (E,Y) 300"	E, F100/150/250 (Incl.Cal)	2	D3OZ-9D473A	13310
1973-71	4.9L (B) 300"	F100 2WD, F250/350 H.D. Cooling	3	C8AZ-12A091A	13312
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1996-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1992-74	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1992-74	All	95	3	E1AZ-8A564D,D5OZ-A	13304
<b>8 cyl.</b>					
1992-80	5.0L (E,F) 302"	E100/150 M/T, F100 All/T, F150/250, U150	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1986-73	5.0L (G,F,N) 302"	E, F100/150/250/350 (Incl.Can)	2	D7TE-9D473A1A,A2A,E1TE-A1A, A2A	13311
1984-73	5.0L (F,6) 302"	E, F100/150/250/350, M450/500, U150 (Incl.Cal,Can)	2	D3TZ-9D473A	13301
1983-73	5.0L (F,6) 302"	Bronco, E, F100/150/250, E300, F350, U150 (Incl.Cal,Can)	2	D3OZ-9D473A,D7BZ-A	13310
1982-70	5.0L (G,F,N) 302"	All (Incl.Cal,Can,Hi-Alt)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1976-73	5.0L (G) 302"	E, F100/300, F250/350	3	C8AZ-12A091A	13312
1986-75	5.8L (G,H) 351"	E, F100/150/250/350 (Incl.Can)	2	D7TE-9D473A1A,A2A,E1TE-A1A, A2A	13311
1984-73	5.8L (G,H,M) 351"	E, F100/150/250/350, M450/500, U150 (Incl.Cal,Can)	2	D3TZ-9D473A	13301
1983-73	5.8L (G,H,M) 351"	Bronco, E, F100/150/250, E300, F350, U150 (Incl.Cal,Can)	2	D3OZ-9D473A,D7BZ-A	13310
1982-75	5.8L (G,H) 351"	All (Incl.Cal,Can,Hi-Alt)	3	E7AE-12A091B,D7AZ-A, E1SE-A1A,A2A	13312
1976-75	5.8L (H) 351"	E, F100/300, F250/350	3	C8AZ-12A091A	13312
1976-73	5.9L (Y) 360"	E, F100/300, F250/350	3	C8AZ-12A091A	13312
1973	5.9L (Y) 360"	E, F100/150/250/350, M450/500, U150 (incl. CA, Canada, All/T)	2	D3TZ-9D473A	13301
1973	5.9L (Y) 360"	Bronco, E, F100/150/250, E300, F350, U150 (incl. CA, Canada)	2	D3OZ-9D473A,D7BZ-A	13310
1976-73	6.4L (H,M) 390"	E, F100/300, F250/350	3	C8AZ-12A091A	13312
1976-73	6.4L (Y) 390"	E, F100/150/250/350, M450/500, U150 (Incl.Cal,Can)	2	D3TZ-9D473A	13301
1976-73	6.4L (Y) 390"	Bronco, E, F100/150/250, E300, F350, U150 (Incl.Cal,Can)	2	D3OZ-9D473A,D7BZ-A	13310
1986-77	6.6L (S,Z) 400"	E, F100/150/250/350 (Incl.Can)	2	D7TE-9D473A1A,A2A,E1TE-A1A, A2A	13311
1984-77	6.6L (S,Z) 400"	E, F100/150/250/350, M450/500, U150 (Incl.Cal,Can)	2	D3TZ-9D473A	13301
1983-77	6.6L (S,Z) 400"	Bronco, E, F100/150/250, E300, U150 (Incl. Cal,Can)	2	D3OZ-9D473A,D7BZ-A	13310
1982-77	6.6L (S,Z) 400"	All (Incl.Cal,Can,Hi-Alt)	3	D7AE-12A091B1A,D7AZ-A, ESE-A1A,A2A	13312
1986-73	7.5L (A,J,L) 460"	E, F100/150/250/350 (Incl.Can)	2	D7TE-9D473A1A, A2A, E1TE-A1A, A2A	13311
1984-73	7.5L (A,J,L) 460"	E, F100/150/250/350, M450/500, U150 (Incl.Cal,Can)	2	D3TZ-9D473A	13301

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>FORD TRUCK 8 cyl (contd)</b>					
1983-73	7.5L (A,J,L) 460"	Bronco, E, F100/150/250, E300, F350, U150 (Incl. Cal, Can)	2	D30Z-9D473A, D7BZ-A	13310
1982-70	7.5L (A,J,L) 460"	All (Incl. Cal, Can, Hi-Alt)	3	D7AE-12A091B1A, D7AZ-A, E1SE-A1A, A2A	13312
1976-73	7.5L (J,L) 460"	E, F100/300, F250/350	3	C8AZ-12A091A	13312
1996-80	All	All	3	E1AE-8A564BA, E1AZ-B	13314
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA, B2A, S1SZ-A	13308
1996-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA, H2A, E1AZ-A	13309
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A, CA, E1AZ-C	13307
1992-74	All	160	3	D5AE-8A564A2A, D5AZ-A	13303
1992-74	All	125	3	D5ZE-8A564A2A, D5ZZ-A	13305
1992-74	All	95	3	D5OZ-8A564A, E1AZ-D	13304

## GMC TRUCK

### 4 cyl.

1984-83	2.0L (Y) 121"	All	5	25040736	13236
1984-83	2.0L (Y) 121"	S Series (w/AT)	4	14058773	13035
1984-82	2.0L (Y) 121"	S-10, S-15 Pickup	4	14003934, 14069093	13205

### 6 cyl.

1992-90	2.8L (R) 173"	S-10 (w/MT)	2	10137025	13206
1987-84	2.8L (B,R) 173"	All	4	14064249	13216
1986-79	2.8L (B,R) 173"	Jimmy, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385, 14025249	13206
1985	2.8L (B) 173"	S, T-1 (incl. Hi-Alt, w/MT)	3	25040055	13213
1985-82	2.8L (B) 173"	S, T-1	3	10012353	13213
1986-79	3.8L (K) 229"	Jimmy, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385, 14025249	13206
1984-82	3.8L (9) 229"	Caballero	2	14037796	13212
1984-82	3.8L (K) 229"	Caballero	2	3043015	13208
1984-81	3.8L (K) 229"	All	5	25040736	13236
1981-80	3.8L (K) 229"	Caballero	4	3039144	13227
1980	3.8L (K) 229"	Caballero	4	3040827	13231
1980	3.8L (K) 229"	Caballero	3	25040055	13213
1987-84	4.1L (D) 250"	All	4	14064249	13216
1986-79	4.1L (D) 250"	Jimmy, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385, 14025249	13206
1984	4.1L (D) 250"	C, G & K Series	4	14072798	13033
1984-83	4.1L (D) 250"	All	2	14057273	13401
1984-81	4.1L (D) 250"	All	5	25040736	13236
1981	4.1L (D) 250"	C, G & K Series (w/MT)	4	14072798	13033
1981	4.1L (D) 250"	All	3	25040735	13233
1980-78	4.1L (D) 250"	All	2	3031549	13202
1977-74	4.1L (D) 250"	C, G, K-10, Jimmy	2	370721, 3030951	13201
1986-85	4.3L (N,Z) 262"	All	4	14031356	13224
1986-85	4.3L (N,Z) 262"	Caballero	2	3043015	13208
1986-85	4.3L (N,Z) 262"	All	3	25040735	13233
1989-88	4.8L (T) 292"	All	4	14031356	13224
1989-84	4.8L (T) 292"	All	4	14031356	13224
1986-84	4.8L (T) 292"	All	4	14031356	13224
1986-79	4.8L (T) 292"	Jimmy, C, G, K-1, 2, P-1, 2, 3, S-10, 15	2	3031385, 14025249	13206
1980-78	4.8L (T) 292"	All	2	3031549	13202

### 8 cyl.

1982-81	4.4L (J) 267"	Caballero	2	3043015	13208
1981-82	4.4L (J) 267"	Caballero	2	14037796	13212
1979	4.4L (J) 267"	Caballero	2	3041857	13223
1987-81	5.0L (F,G,H) 305"	All	4	14031356	13224

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>GMC TRUCK 8 cyl (Contd)</b>					
1986-85	5.0L (H) 305"	All	2	373510	13206
1986-85	5.0L (H) 305"	All	4	14015575	13234
1986-84	5.0L (F,H) 305"	All	3	25040735	13233
1986-83	5.0L (F,G,H) 305"	C, G, K (Cal)	2	3053249	13016
1986-81	5.0L (H) 305"	All	4	3053331,3055378	13219
1986-80	5.0L (F,G,H) 305"	C, G, K 1/2 & 3/4 Ton	4	14015575	13234
1986-76	5.0L (F,G,H) 305"	All	2	3031385,14025249	13206
1985	5.0L (F,H) 305"	C, G, K-1, 2 (w/MT)	3	25040055	13213
1985-84	5.0L (F,G,H) 305"	C, G, K-1, 2, 3	3	25040055	13213
1985-81	5.0L (F,G,H) 305"	Caballero	2	3043015	13208
1984-81	5.0L (H) 305"	Caballero	2	14037796	13212
1983-81	5.0L (F,G,H) 305"	All	5	25040736	13236
1981-78	5.0L (F,G,H) 305"	All	2	373510	13206
1980	5.0L (F,G,H) 305"	All	2	3043766	13225
1980-79	5.0L (F,G,H) 305"	Caballero, Jimmy, C, G, K-2, 3, P-3	2	3041273	13214
1980-79	5.0L (F,G,H) 305"	All	4	3039144	13227
1978	5.0L (U) 305"	C, G, K-1, 2, 3, Jimmy	2	3031386	13209
1978	5.0L (U) 305"	C, G, K-1, 2	2	3031385	13206
1978-75	5.0L (U) 305"	All	2	3031386	13209
1978-73	5.0L (U) 305"	All	2	3030951	13201
1977-76	5.0L (Q) 305"	All	3	364708	13200
1990-87	5.7L (K,M) 350"	All	4	3053331,3055378	13219
1988	5.7L (W) 350"	All	2	14057273	13401
1988-85	5.7L (M) 350"	All	2	14057273	13401
1988-84	5.7L (K,L,M) 350"	All	3	25040737	13242
1987-83	5.7L (M) 350"	All	2	14031351	13010
1987-81	5.7L (K,L,M,P) 350"	All	4	14031356	13224
1987-81	5.7L (K,L,M,P) 350"	All	2	14031351	13010
1986-84	5.7L (K,L,M,P) 350"	All	3	25040735	13233
1986-84	5.7L (M) 350"	C & K Series	4	14075682	13034
1986-83	5.7L (K,L,M,P) 350"	C, G, K (Cal)	2	3053249	13016
1986-81	5.7L (L,M) 350"	All	4	3053331,3055378	13219
1986-80	5.7L (K,L,M,P) 350"	C, G, K 1/2 & 3/4 ton	4	14015575	13234
1986-76	5.7L (K,L,M,P) 350"	All	2	3031385,14025249	13206
1985-84	5.7L (K,L,M,P) 350"	C, G, K-1, 2, 3	3	25040055	13213
1985-82	5.7L (L,M,P) 350"	C, K & G Series	4	14050293	13028
1983	5.7L (K,L,M,P) 350"	All	5	25040736	13236
1983-79	5.7L (K,L,M,P) 350"	C, G, K, P-2, 3	2	3041769	13209
1982-81	5.7L (L,M,P) 350"	All	3	25040737	13242
1982-80	5.7L (K,L,M,P) 350"	All	4	14015575	13234
1981	5.7L (K,L,M,P) 350"	All	5	25040736	13236
1981-78	5.7L (L,M,P) 350"	All	2	373510	13206
1980	5.7L (L,M,P) 350"	All	2	3043766	13225
1980-79	5.7L (L,M,P) 350"	Caballero, Jimmy, C, G, K-2, 3, P-3	2	3041273	13214
1980-79	5.7L (L,M,P) 350"	All	4	3039144	13227
1980-79	5.7L (L) 350"	C, K-2, 3, G-3	2	3041769	13209
1980-77	5.7L (L,M,P) 350"	All	4	3033795	13217
1978	5.7L (L) 350"	All	2	3031549	13202
1978	5.7L (L) 350"	C, G, K-1, 2	2	3031385	13206
1978-75	5.7L (L) 350"	All	2	3031386	13209
1978-75	5.7L (L,Y) 350"	All	3	364708	13200
1978-73	5.7L (L) 350"	All	2	3030951	13201
1975	5.7L (L) 350"	All	2	3031549	13202
1981-78	6.6L (X,R) 400"	All	2	373510	13206
1980	6.6L (X) 400"	All	2	3043766	13225
1980-79	6.6L (X,R) 400"	Caballero, Jimmy, C, G, K-2, 3, P-3	2	3041273	13214
1980-79	6.6L (X,R) 400"	C, K-2, 3, G-3	2	3041769	13209
1980-79	6.6L (X,R) 400"	All	4	3039144	13227



# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>GMC TRUCK 8 cyl (Contd)</b>					
1978	6.6L (R) 400"	C, G, K-1, 2	2	3031385	13206
1978	6.6L (R) 400"	All	2	3031549	13202
1978-75	6.6L (R,U) 400"	All	2	3031386	13209
1977-75	6.6L (M,U) 400"	All	3	364708	13200
1990-88	7.4L (N) 454"	All	2	14057273	13401
1990-81	7.4L (N,W) 454"	All	4	3053331,3055378	13219
1989-86	7.4L (N,W) 454"	All	3	25040737	13242
1987-85	7.4L (W) 454"	All	2	14057273	13401
1985-79	7.4L (N,W,S) 454"	C, K, P-2, 3	2	14007803	13208
1985-79	7.4L (N,W,S,Y) 454"	All	2	3033753	13230
1982-81	7.4L (W) 454"	All	3	25040737	13242
1981-80	7.4L (N,W,S,Y) 454"	C, K, P-1	2	3043015	13208
1981-78	7.4L (N,W,S,Y) 454"	All	2	373510	13206
1980	7.4L (N,W,S,Y) 454"	All	2	3043766	13225
1980-79	7.4L (N,W,S,Y) 454"	All	4	3039144	13227
1978-75	7.4L (N,W,S,Y) 454"	All	2	3031386	13209
1978-73	7.4L (N,W,S,Y) 454"	All	2	3030951	13201

## HONDA

### 4 cyl.

1989-88	All	All	2	17360-PD2-013	13024
1987	All	CRX, Civic	2	17350-PE0-033	13021
1987-86	All	Accord	2	17355-PH2-013	13434
1987-86	All	Accord	2	17360-PD2-013	13024
1987-85	All	Civic	2	17350-PE1-701	13433
1987-85	All	CRX	2	17360-PA0-661	13022
1987-83	All	Prelude	2	17360-PA0-661	13022
1985	All	CRX	2	17350-PE1-701	13433
1984	All	CRX, Civic	2	17350-PE0-013	13020
1989-86	All	Accord	3	17350-PH4-661,681	13407
1987-84	All	Civic, Civic Wagon, CRX	2	17350-PE0-023	13408

## JEEP

### 4 cyl.

1989-80	2.5L (B,H,U) 151"	All (4WD)	3	J3237457	13018
1985-84	2.5L (W) 151"	Cherokee, Jeep, Wagoneer	5	3238932	13004

### 6 cyl.

1986-84	2.8L (W) 193"	All	4	8953-00-3010	13216
1986-84	2.8L (W) 173"	All	5	3241784	13004
1978	3.8L (E) 232"	All	3	5358881	13312
1978-75	3.8L (E) 232"	All	2	3225912,3228288	13206
1978-75	3.8L (E) 232"	All	2	3226361,3228894	13311
1975-72	3.8L (E) 232"	All	2	3218940	13305
1988-84	4.2L (C) 258"	All (4WD)	3	J3237457	13018
1987	4.2L (C) 258"	J Series Wagoneer	3	3235917	13303
1987-81	4.2L (C) 258"	Cherokee, C, J Series Jeep, Wagoneer, J10	5	3238932	13004
1987-79	4.2L (C) 258"	All	3	5358881	13312
1982	4.2L (C) 258"	All	5	3241784	13004
1981-75	4.2L (A,C) 258"	All	2	3225912,3228288	13206
1980-72	4.2L (A,C) 258"	All	3	3216448	13303
1979-75	4.2L (A,C) 258"	All	2	3226361,3228894	13311
1975-72	4.2L (A,C) 258"	All	2	3218940	13305

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>JEEP (Contd)</b>					
<b>8 cyl.</b>					
1981-79	5.0L (H) 304"	All	3	5358881	13312
1980-75	5.0L (H) 304"	All	2	3225912,3228288	13206
1980-75	5.0L (H) 304"	All	3	3216448	13303
1979-75	5.0L (H) 304"	ECE Australia	2	3226361,3228894	13311
1974-71	5.0L (H,9) 304"	All	3	3210853	13312
1974-62	5.0L (H,9) 304"	All	3	3218940	13305
1989-87	5.9L (N) 360"	Wagoneer	2	J3241675	13019
1987-84	5.9L (N) 360"	Cherokee, J Series, Wagoneer	3	3235917	13303
1987-79	5.9L (N,P) 360"	All	3	5358881	13312
1980-75	5.9L (N,P) 360"	All	2	3225912,3228288	13206
1980-75	5.9L (N,P) 360"	All	3	3216448	13303
1979-75	5.9L (N,P) 360"	ECE Australia	2	3226361,3228894	13311
1974-71	5.9L (N,P) 360"	All	3	3210853	13312
1974-62	5.9L (N,P) 360"	All	3	3218940	13305
1978-75	6.6L (Z) 401"	All	2	3225912,3228288	13206
1978-75	6.6L (Z) 401"	All	3	3216448	13303
1978-75	6.6L (Z) 401"	ECE Australia	2	3226361,3228894	13311
1974	6.6L (Z) 401"	All	3	3210853	13312
1974	6.6L (Z) 401"	All	3	3218940	13305
1971-62	All	All	3	3216448	13303

## LINCOLN

<b>6 cyl.</b>					
1992-80	3.8L (4) 232"	Continental (Exc.Cal)	2	D3TZ-9D473A	13301
1996-80	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1996-80	All	95	3	D50Z-8A564A,E1AZ-D	13304
1992-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1992-80	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
<b>8 cyl.</b>					
1992-80	5.0L (E,F) 302"	Versailles	4	D8BE-9D473A1A,A2A,D8TE-B1A, B2A	13306
1980-78	5.0L (F) 302"	All (Incl.Versailles,Can,Cal,Hi-Alt)	2	D3TZ-9D473A	13301
1980-78	5.0L (F) 302"	All	3	C8AZ-12A091A, D5VE-A1A,A2A	13312
1979-78	5.0L (F) 302"	All	2	D7BE-9D473A1A,A2A	13311
1979-78	5.0L (F) 302"	All (Incl.Versailles)	2	D30Z-9D473A	13310
1977	5.8L (H) 351"	All	3	C8AZ-12A091A,D5VE-A1A,A2A	13312
1977	5.8L (H) 351"	All (Incl.Versailles)	2	D30Z-9D473A	13310
1979	6.6L (S) 400"	All (Exc.Cal)	2	D5VY-9D473A	13310
1979	6.6L (S) 400"	All (Incl.Versailles,Can,Cal,Hi-Alt)	2	D3TZ-9D473A	13301
1979-77	6.6L (S) 400"	All	2	D7BE-9D473A1A,A2A	13311
1979-77	6.6L (S) 400"	All (Incl.Versailles)	2	D30Z-9D473A	13310
1978-77	7.5L (A) 460"	All	2	D7BE-9D473A1A,A2A	13311
1978-77	7.5L (A) 460"	All (Incl.Versailles)	2	D30Z-9D473A	13310
1976-75	7.5L (A) 460"	All	2	D5VY-9D473A	13310
1976-68	7.5L (A,C) 460"	All	3	C8AZ-12A091A,D5VE-A1A,A2A	13312
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-74	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1996-74	All	95	3	D50Z-8A564A,E1AZ-D	13304
1992-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>LINCOLN 8 cyl (Contd)</b>					
1992-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1974-73	All	All	2	D3TZ-9D473A	13301

## MAZDA

### 4 cyl.

1986-80	All	GLC Wagon	3	8325-13-980	13406
1982-81	All	GLC, Sedan, Hatchback	3	8325-13-980	13406

## MERCURY

### 4 cyl.

1992-80	1.6L (2,4,5,7,8) 98"	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-80	1.6L (2,4,5,7,8) 98"	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1992-80	1.6L (2,4,5,7,8) 98"	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1986-76	1.6L (2,4,5,7,8) 98"	LN7, Lynx (Incl.Cal,Turbo)	2	D3OZ-9D473A,D7BZ-A	13310
1985-80	1.6L (2,4,5,7,8) 98"	Lynx, LN7	4	D8BE-9D473A1A,A2A, D8BZ-A, D8TE-B1A,B2A	13306
1985-75	1.6L (2,4,5,7,8) 98"	All	2	D5FZ-9D473A	13311
1992-86	1.9L (J,9) 116"	Lynx, LN7	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1987-84	1.9L (J,9) 116"	Lynx, Topaz	2	D7ZE-9D473A1A,A2A,E1SE-A1A, A2A	13301
1974-73	2.0L (X) 122"	Bobcat, Capri	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1992-80	2.3L (A,M,R,S,T,W,X) 140"	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-80	2.3L (A,M,R,S,T,W,X) 140"	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1992-80	2.3L (A,M,R,S,T,W,X) 140"	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1992-80	2.3L (A,M,R,S,T,W,X) 140"	Lynx, LN7	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1987-84	2.3L (A,M,R,S,T,W,X) 140"	Lynx, Topaz	2	D7ZE-9D473A1A,A2A,E1SE-A1A, A2A	13301
1986-76	2.3L (A,M,R,S,T,W,X) 140"	LN7, Lynx (Incl.Cal,Turbo)	2	D3OZ-9D473A,D7BZ-A	13310
1985-75	2.3L (A,M,R,S,T,W,X) 140"	All	2	D5FZ-9D473A	13311
1981-78	2.3L (A,M,R,S,T,W,X) 140"	All	2	D5VY-9D473A	13310
1977-71	2.3L (Y) 140"	Bobcat, Capri	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1974	2.3L (Y) 140"	Bobcat, Capri	2	D3TZ-9D473A	13301
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-74	All	125	3	D5ZE-8A564A2A,D5ZZ-4A	13305
1996-74	All	95	3	D5OZ-8A564A,E1AZ-D	13304
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303

### 6 cyl.

1979	2.8L (Z) 171"	All (Incl.Cal)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1979-76	2.8L (Z) 171"	All (Incl.Can)	2	D5FZ-9D473A, E1TE-A1A,A2A	13311
1979-76	2.8L (Z) 171"	Bobcat, Capri, Cougar, Monarch, Zephyr	2	D3OZ-9D473A, D3TZ-A	13310
1979-73	2.8L (Z) 171"	Bobcat, Capri, Comet, Cougar, Marquis, Monarch, Zephyr	2	D3TZ-9D473A	13301
1979-68	2.8L (U,Z) 171"	All	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1983-76	3.3L (B,T,X) 200"	All (Incl.Can)	2	D5FZ-9473A,E1TE-A1A,A2A	13311
1983-73	3.3L (B,T,X) 200"	Bobcat, Capri, Comet, Cougar, Marquis, Monarch, Zephyr	2	D3TZ-9D473A	13301
1981-76	3.3L (B,T,X) 200"	Bobcat, Capri, Cougar, Monarch, Zephyr	2	D3OZ-9D473A,D3TZ-A	13310
1980-79	3.3L (B,T,X) 200"	All (Incl.Cal)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>MERCURY 6 cyl (Contd)</b>					
1980-68	3.3L (B,T,X) 200"	All	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1984-83	3.8L (3) 232"	All (Incl.Can)	2	D5FZ-9D473A,E1TE-A1A,A2A	13311
1983	3.8L (3) 232"	Bobcat, Capri, Comet, Cougar, Marquis, Monarch, Zephyr	2	D3TZ-9D473A	13301
1984-76	4.1L (C,L) 250"	All (Incl.Can)	2	D5FZ-9D473A,E1TE-A1A,A2A	13311
1983-73	4.1L (C,L) 250"	Bobcat, Capri, Comet, Cougar, Marquis, Monarch, Zephyr	2	D3TZ-9D473A	13301
1981-76	4.1L (C) 250"	Bobcat, Capri, Cougar, Monarch, Zephyr	2	D30Z-9D473A,D3TZ-A	13310
1980-68	4.1L (C) 250"	All	3	C8AZ-12A091A,D1FZ-A,D5VY-A	13312
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1996-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A, E1AZ-A	13309
1996-80	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA, E1AZ-C	13307
1992-80	All	95	3	D50Z-8A564A,E1AZ-D	13304
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1986-78	All	All	4	D8TE-9D473B1A,B2A	13306
<b>8 cyl.</b>					
1983-80	4.2L (D) 255"	All	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1983-80	4.2L (D) 255"	Capri, Comet, Cougar, Marquis, Monarch, Montego (Police), XR7, Zephyr	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1982-80	4.2L (D) 255"	All	2	D5FZ-9D473A	13311
1981-80	4.2L (D) 255"	Capri, Cougar, Marquis, Monarch, Montego (Police), Zephyr	2	D30Z-9D473A	13310
1995-83	5.0L (E,F) 302"	All	3	E1AE-8A564AA,H2A	13309
1992-78	5.0L (E,F) 302"	All (Incl.Hi-Alt,Can)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1987-67	5.0L (D,F,G) 302"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1986-78	5.0L (E,F) 302"	All	4	D8BE-9D473A1A,A2A,D8BZ-A, D8TE-B1A,B2A	13306
1983-73	5.0L (D,F,G) 302"	Capri, Comet, Cougar, Marquis, Monarch, Montego (Police), XR7, Zephyr	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1982-73	5.0L (D,F,G) 302"	All	2	D5FZ-9D473A	13311
1981-73	5.0L (D,F,G) 302"	Capri, Cougar, Marquis, Monarch, Montego (Police), Zephyr	2	D30Z-9D473A	13310
1995-83	5.8L (W) 351"	All	3	E1AE-8A564AA,H2A	13309
1981-78	5.8L (G,H,Q) 351"	All (Incl.Hi-Alt,Can)	3	D7AE-12A091B1A,D7AZ-A, E1SE-A1A,A2A	13312
1981-73	5.8L (G,H,Q) 351"	Capri, Comet, Cougar, Marquis, Monarch, Montego (Police), XR7, Zephyr	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1981-73	5.8L (G,H,Q) 351"	All	2	D5FZ-9D473A	13311
1981-73	5.8L (G,H,Q) 351"	Capri, Cougar, Marquis, Monarch, Montego (Police), Zephyr	2	D30Z-9D473A	13310
1981-67	5.8L (G,H,Q) 351"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1977-75	5.8L (H,Q) 351"	All	2	D5VY-9D473A	13310
1978-73	6.6L (S) 400"	Capri, Cougar, Marquis, Monarch, Montego (Police), Zephyr	2	D30Z-9D473A	13310
1978-73	6.6L (S) 400"	Capri, Comet, Cougar, Marquis, Monarch, Montego (Police), XR7, Zephyr	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1978-67	6.6L (S) 400"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1977-75	6.6L (S) 400"	All	2	D5VY-9D473A	13310
1972-67	7.0L (C,N,P) 429"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>MERCURY 8 cyl (Contd)</b>					
1978-73	7.5L (A,C) 460"	Capri, Comet, Cougar, Marquis, Monarch, Montego (Police), XR7, Zephyr	2	D3TZ-9D473A,D5DE-A1A, D7EE-A1A,A2A,D7ZE-A1A,A2A	13301
1978-73	7.5L (A,C) 460"	Capri, Cougar, Marquis, Monarch, Montego (Police), Zephyr	2	D30Z-9D473A	13310
1978-67	7.5L (A,C) 460"	All	3	C8AZ-12A091A,D1FZ-A,D5FZ-A, D5VY-A	13312
1977-75	7.5L (A,C) 460"	All	2	D5VY-9D473A	13310
1996-80	All	All	3	E1AE-8A564BA,E1AZ-B	13314
1996-80	All	All w/Elec. PVS 160	3	E1SE-8A564AA,B2A,E1SZ-A	13308
1996-80	All	All w/Elec. PVS 95	3	E1AE-8A564AA,H2A,E1AZ-A	13309
1996-74	All	125	3	D5ZE-8A564A2A,D5ZZ-A	13305
1992-80	All	All w/Elec. PVS 128	3	E1AE-8A564B2A,CA,E1AZ-C	13307
1992-74	All	160	3	D5AE-8A564A2A,D5AZ-A	13303
1992-74	All	95	3	D50Z-8A564A,E1AZ-D	13304

## NISSAN

### 4 cyl.

1982-79	1.2L (A12) 75"	210, B210	2	14890-U6700	13401
1982-79	1.2L (A12) 75"	210, B210	2	14890-47800	13036
1980	1.2L (A12) 75"	310 (GX)	3	14890-H7700	13405
1980-79	1.4L (A14) 85"	B210, F10	2	14890-47800	13036
1980-75	1.4L (A14) 85"	210, B210	2	14890-U6700	13401
1978	1.4L (A14) 85"	B210, F10	3	14890-H7700	13405
1977	1.4L (A14) 85"	B210, F10	2	14890-H9910	13410
1984-82	1.5L (E15) 91"	Sentra, 310 (GX)	3	14890-23M00	13403
1984-79	1.5L (A15) 91"	210, 310, B210, Pulsar, Sentra	2	14890-47800	13036
1982-81	1.5L (A15) 91"	310, Pulsar, Sentra	2	14890-U7800	13402
1982-79	1.5L (A15) 91"	210, B210	2	14890-U6700	13401
1981	1.5L (A15) 91"	Stanza, 200SX, 210, 310 (GX), 510	3	14890-H9810, N8500	13403
1986-85	1.6L (E16) 97"	Pulsar, Sentra (After 1/85) (Incl.Can)	3	14890-H7700	13405
1986-85	1.6L (E16) 97"	Pulsar, Sentra	3	14890-31M10	13403
1986-85	1.6L (E16) 97"	310, Pulsar, Sentra	2	14890-47800	13036
1985	1.6L (E16) 97"	310, Pulsar, Sentra (Incl.Can)	2	14890-U7800	13402
1987-84	1.8L (CA18CT) 110"	200SX	2	14890-U6700	13401
1987-84	1.8L (CA18CT) 110"	200SX	2	14890-47800	13036
1988-84	2.0L (CA20) 120"	200SX, Stanza	3	14890-N8500	13403
1987-79	2.0L (L20,Z20) 119"	200SX, 210, 310, Stanza	2	14890-47800	13036
1981	2.0L (Z20) 119"	Stanza, 200SX, 210, 310, 510	3	14890-H9810,N8500	13403
1980-77	2.0L (L20,Z20) 119"	510, 720 Pickup, 200SX	2	14890-U7800	13402
1979-74	2.0L (L20) 119"	610, 620 Pickup, 710	2	14890-U6700	13401
1983	2.2L (Z22) 133"	Pickup	3	14890-10W00	13403

### 6 cyl.

1987-85	2.4L (Z24) 146"	720 Pickup, 850 P/U	2	14890-U6700	13401
1986-83	2.4L (Z24) 146"	Pickup	3	14890-N8500	13403
1982-81	2.4L (L24) 146"	Maxima, 810, 280Z	2	14890-W2400	13409
1979-78	2.4L (L24) 146"	810, 280Z	2	14890-P8700	13411
1982-81	2.8L (L28) 168"	280Z, 810	3	14890-P9100	13413
1982-81	2.8L (L28) 168"	280Z, 810	2	14890-P7910	13414
1980	2.8L (L28) 168"	280Z	3	14890-P8100	13404
1980	2.8L (L28) 168"	280Z	3	14890-P8210	13413
1980	2.8L (L28) 168"	280Z	2	14890-H9910	13410
1979-78	2.8L (L28) 168"	280Z	2	14890-U7800	13402
1977-76	2.8L (L28) 168"	280Z	2	14890-U7800	13402

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
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## OLDSMOBILE

### 4 cyl.

1983-82	1.8L (G,O) 112"	Firenza	2	373510	13206
1982	1.8L (G) 112"	Firenza	2	3031549	13202
1982	1.8L (G) 112"	Firenza	2	25041304	13237
1983-82	2.0L (B,P) 122"	Firenza	2	373510	13206
1983-82	2.5L (5,R) 151"	Cutlass Ciera, Omega	2	10022316	13218
1983-82	2.5L (5,R) 151"	Ciera, Omega	2	546895	13240
1982	2.5L (5,R) 151"	Ciera, Cutlass, Omega	3	3039246	13220
1981-80	2.5L (5) 151"	Omega	2	3046782	13214
1980	2.5L (5) 151"	Omega	3	3039246	13220
1980-79	2.5L (V,5) 151"	Starfire	3	3039246	13220
1980-78	2.5L (V,1,5) 151"	All	2	546895	13240
1980-78	2.5L (V,1,5) 151"	Starfire	3	3039246	13220
1979-78	2.5L (1) 151"	All	4	3040871	13009
1978	2.5L (V,1) 151"	All (Incl. AT., A/C)	3	3039246	13220

### 6 cyl.

1987-82	2.8L (W,X,Z) 173"	Ciera (Incl.Can)	2	14003932	13204
1986-84	2.8L (W,X,Z) 173"	Cutlass, Omega	3	3035810,25040738	13210
1986-82	2.8L (W,X,Z) 173"	Ciera	2	373510	13206
1983-80	2.8L (W,X,Z,7) 173"	Omega	3	3041017,10012353	13213
1981-80	2.8L (W,X,Z,7) 173"	Omega	4	14003934	13205
1985-82	3.0L (E) 181"	Calais, Ciera, Cutlass	2	3051170	13218
1990	3.1L (D) 191"	Silhouette APV	2	10137025	13206
1987-86	3.8L (A) 231"	All	2	3039583	13218
1987-86	3.8L (A) 231"	All (Can)	2	14015575	13234
1987-77	3.8L (A) 231"	All	2	3039583	13218
1985-82	3.8L (A) 231"	Cutlass, Delta 88	2	3039583	13218
1981	3.8L (A) 231"	Cutlass, Cutlass Supreme, Delta 88	4	3040827	13231
1981-77	3.8L (A) 231"	All	2	3039583	13218
1980	3.8L (A) 231"	All	3	25040055	13213
1980-79	3.8L (A) 231"	All (Exc.Cal)	3	3042272	13011
1980-78	3.8L (A) 231"	All	4	3040827,3040943	13231
1980-77	3.8L (A) 231"	All	4	3033795	13217
1976	3.8L (A) 231"	Starfire	5	3031427	13238
1985-82	4.1L (4) 252"	All	2	3039583	13218
1976-74	4.1L (D) 250"	Cutlass, Omega	2	370721,3030200,3030951	13201
1974-73	4.1L (D) 250"	All	3	413473,419591,1238524, 12305001	13200

### 8 cyl.

1982	4.3L (8) 260"	Cutlass, Delta 88	2	22514776	13212
1982	4.3L (8) 260"	Cutlass, Delta 88	2	22536551	13235
1982-81	4.3L (F) 260"	All	2	3048786	13012
1981-80	4.3L (F) 260"	All	3	22505266	13213
1981-77	4.3L (F) 260"	All	2	3031549	13202
1980	4.3L (F) 260"	Cutlass	2	22506162	13036
1976-75	4.3L (F) 260"	Cutlass, Omega	4	3031520	13232
1981	4.4L (J) 267"	All	2	370721,3030200,3030951	13201
1981	4.4L (J) 267"	All	2	373510	13206
1990-85	5.0L (Y) 307"	Cutlass, Custom Cruiser Wagon	2	3055550	13239
1988	5.0L (Y) 307"	Cutlass, Delta 88, 98, Toronado	2	22536551	13235
1988-85	5.0L (Y) 307"	Custom Cruiser Wagon	2	22536551	13235
1987-86	5.0L (H,Y,9) 305"	Cutlass	2	3043015	13208
1987-86	5.0L (Y,9) 307"	All (Can)	3	22505266	13213
1987-82	5.0L (H) 305"	All	2	3031386,3041769	13209

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>OLDSMOBILE 8 cyl (Contd)</b>					
1986-82	5.0L (Y) 307"	Cutlass, Delta 88, Toronado	2	22514776	13212
1985-81	5.0L (H) 305"	All	2	370721,3030200,3030951	13201
1985-81	5.0L (Y) 307"	All	2	370721,3030200,3030951	13201
1985-77	5.0L (H) 305"	All	2	373510	13206
1984-82	5.0L (Y) 307"	98 (w/Closed Loop)	2	22514776	13212
1984-81	5.0L (Y) 307"	Cutlass, Delta 88, 98, Toronado	2	22536551	13235
1983-81	5.0L (Y) 307"	All	2	3048786	13012
1981-80	5.0L (H) 305"	All	2	3043015	13239
1981-80	5.0L (Y) 307"	All	3	22505266	13213
1981-77	5.0L (H) 305"	All	2	3031549	13202
1980	5.0L (Y) 307"	Delta 88, 98	2	22506162	13036
1980-77	5.0L (H) 305"	All	2	3031386	13209
1979	5.0L (H) 305"	Cutlass, Omega, Starfire	2	3041857	13223
1985-77	5.7L (N) 350"	All	2	373510	13206
1981-80	5.7L (N,R) 350"	All	3	22505266	13213
1981-77	5.7L (N,R) 350"	All	2	3031549	13202
1980	5.7L (N,R) 350"	All	2	3031385	13206
1980	5.7L (R) 350"	Delta 88, 98, Tornado	2	22506162	13036
1979	5.7L (N,R) 350"	Delta 88, 98, Toronado	3	3039246	13220
1979	5.7L (N,R) 350"	Cutlass, Omega, Starfire	2	3041857	13223
1978	5.7L (N,R) 350"	Custom Cruiser, Delta 88, 98	2	3033753	13230
1978-77	5.7L (N,R) 350"	Cutlass, Omega, Starfire	2	3031386	13209
1977	5.7L (N,R) 350"	Cutlass, Delta 88, 98, Tornado	3	3035810	13210
1977	5.7L (N,R) 350"	Cutlass, Delta 88, Omega, Regency 98, Toronado	2	3033753	13230
1976	5.7L (N,R) 350"	Omega	5	3031427	13238
1976-68	5.7L (H,J,K,M) 350"	All	3	413473,419591,1238524,12305001	13200
1979	6.6L (K) 403"	Delta 88, 98, Toronado	2	3033753	13230
1979	6.6L (K) 403"	Delta 88, 98, Toronado	3	3039246	13220
1979-77	6.6L (K) 403"	All	2	3031549	13202
1978	6.6L (K) 403"	Custom Cruiser, Delta 88, 98	2	3033753	13230
1977	6.6L (K) 403"	Cutlass, Delta 88, 98, Toronado	3	3035810	13210
1977	6.6L (K) 403"	Cutlass, Delta 88, 98, Omega, Toronado	2	3033753	13230
1975	6.6L (S) 400"	All	4	3031520	13232
1976-68	7.5L (R,S,T,U,V,W) 455"	All	3	413473,419591,1238524,12305001	13200

## PLYMOUTH

### 4 cyl.

1987-78	1.6L (A,B,F,K,3) 97"	Horizon, Scamp, TC3	2	3879736	13001
1986-83	1.6L (A,B,F) 97"	All	2	4006587,4049208	13003
1987-78	1.7L (A,B) 105"	Horizon, Scamp, TC3	2	3879736	13001
1983	1.7L (A,B) 105"	All	2	4049208	13003
1987	2.2L (C,D,E) 135"	All	2	4049208	13003
1987-81	2.2L (C,D,E,F,8) 135"	All	2	4095231,3830429	13311
1987-80	2.2L (C,D,E,F,8) 135"	All	2	3879707	13005
1987-78	2.2L (C,D,E,F,8) 135"	Horizon, Scamp, TC3	2	3879736	13001
1986-84	2.2L (C,D,E,F,8) 135"	All	2	4049208	13003
1982	2.2L (C,D,E,F,8) 135"	All	2	4049276	13000
1982-81	2.2L (C,D,E,F,8) 135"	All	2	4049208	13003
1982-77	2.2L (C,D,E,F,8) 135"	All	2	4030351,4049277	13002

### 6 cyl.

1983-75	3.7L (C,D,E,F,G,H,J) 225"	All (1Bbl.)	2	3879736	13001
1982-79	3.7L (C,D,E,F,G,H,J) 225"	All	2	3879707	13005

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>PLYMOUTH 6 cyl (Contd)</b>					
1982-79	3.7L (C,D,E,F,G,H,J) 225"	All	2	4049208	13003
1982-77	3.7L (C,D,E,F,G,H,J) 225"	All	2	4095231,3830429	13311
1982-77	3.7L (C,D,E,F,G,H,J) 225"	All	2	4030351,4049277	13002
1978-74	3.7L (C,D,E,F,G,H,J) 225"	All (Incl.Cal,Hi-Alt)	2	3837622	13000
1975	3.7L (C) 225"	All	2	3879707	13005

## 8 cyl.

1989-85	5.2L (P,R,S,4) 318"	All	2	4049277	13002
1989-85	5.2L (P,R,S,4) 318"	All	2	3879736	13001
1984-74	5.2L (G,K,L,M,N,P,R) 318"	All (Incl.Radiator mounted)	2	3837622	13000
1981-72	5.2L (G,K,L,M,N,P,R) 318"	All	3	3780126	13312
1980	5.2L (G,K,L,M,N,P,R) 318"	All	2	3879707	13005
1980-75	5.2L (G,K,L,M,N,P,R) 318"	All	2	3879707	13005
1978-77	5.2L (G,K,L,M,N,P,R) 318"	All	2	3879707	13005
1978-75	5.2L (G,K,L,M,N,P,R) 318"	All	2	4095231,3830429	13311
1978-75	5.2L (G,K,L,M,N,P,R) 318"	All (Incl.Cal,Engine mounted)	2	3879736	13001
1978-75	5.2L (G,K,L,M,N,P,R) 318"	All	2	4030351,4049277	13002
1975	5.2L (G,K,L,M,N,P,R) 318"	All	2	3879707	13005
1981-72	5.6L (H) 340"	All	3	3780126	13312
1984-74	5.9L (K,L) 360"	All (Incl.Radiator mounted)	2	3837622	13000
1981-72	5.9L (K,L) 360"	All	3	3780126	13312
1980-75	5.9L (K,L) 360"	All	2	3879707	13005
1978-75	5.9L (K,L) 360"	All	2	4095231,3830429	13311
1978-75	5.9L (K,L) 360"	All (Incl.Engine mounted)	2	3879736	13001
1978-75	5.9L (K,L) 360"	All	2	4030351,4049277	13002
1977	5.9L (K,L) 360"	All	2	4049208	13003
1984-74	6.6L (M,N,P) 400"	All (Incl.Radiator mounted)	2	3837622	13000
1981-72	6.6L (M,N,P) 400"	All	3	3780126	13312
1978-75	6.6L (M,N,P) 400"	All	2	4095231,3830429	13311

# PONTIAC

## 4 cyl.

1987-84	1.6L (C) 98"	T-1000	2	25041304	13237
1987-82	1.6L (C) 98"	T-1000	5	14037782	13215
1984-83	1.6L (C) 98"	T-1000 (w/MT)	2	3030951	13201
1982	1.6L (C) 98"	T-1000	2	14003932	13204
1983-82	1.8L (O) 111"	J-2000	2	373510	13206
1982	1.8L (G,D) 111"	J-2000 (w/AT)	2	3031549	13202
1983-82	2.0L (B,P) 121"	J-2000	2	373510	13206
1983-82	2.5L (F,R,S,2,5) 151"	6000, Phoenix	2	10022316	13218
1983-78	2.5L (F,R,S,2,5) 151"	Firebird, Phoenix, 6000	2	546895	13240
1981-80	2.5L (F,R,S,2,5) 151"	Phoenix	2	3046782	13214
1980	2.5L (V,5) 151"	Phoenix	3	3039246	13220
1980-79	2.5L (V,1,5,9) 151"	Sunbird	3	3039246	13220
1980-78	2.5L (F,R,S,2,5) 151"	All	3	3039246	13220
1980-78	2.5L (1) 151"	All	4	3040871	13009
1978	2.5L (V,1) 151"	All (Incl.AT.,A/C)	3	3039246	13220

## 6 cyl.

1986-82	2.8L (S,W,X,Z,1,9) 173"	Firebird, Phoenix, 6000	3	3035810,25040738	13210
1986-80	2.8L (S,W,X,Z,1,9) 173"	Firebird, LeMans, Phoenix, 6000	2	373510	13206
1986-80	2.8L (S,W,X,Z,1,9) 173"	Phoenix, 6000	2	14003932	13204
1982	2.8L (X,Z,1) 173"	Firebird	2	3033753	13230



# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>PONTIAC 6 cyl (Contd)</b>					
1982-81	2.8L (X,Z) 173"	Phoenix, 6000	3	3041017,10012353	13213
1981-80	2.8L (X,Z) 173"	Phoenix	2	14003930	13026
1990	3.1L (D) 191"	Transport APV	2	10137025	13206
1987-82	3.8L (A) 231"	All	2	3039583	13218
1987-77	3.8L (A) 231"	All	2	3039583	13218
1986-80	3.8L (A) 231"	Firebird, LeMans, Phoenix, 6000	2	373510	13206
1983	3.8L (9) 229"	Bonneville, Grand Prix, Parisienne	2	3043015	13208
1981	3.8L (A) 231"	Firebird, Grand Prix, LeMans	4	3040827	13231
1981-77	3.8L (A) 231"	All	2	3039583	13218
1980	3.8L (K) 229"	All	3	25040055	13213
1980	3.8L (A) 231"	All (Exc.Cal)	3	3042272	13011
1980-77	3.8L (A) 231"	All	4	3033795	13217
1980-77	3.8L (A) 231"	All	4	3040827,3040943	13231
1976	3.8L (C) 231"	Sunbird	5	3031427	13238
1976-74	4.1L (D) 250"	All	2	370721,3030200,3030951	13201
1970-69	4.1L (D) 250"	All	3	413473,3016754	13200
1987-85	4.3L (Z) 262"	Bonneville, Grand Prix, Parisienne	2	3043015	13208
<b>8 cyl.</b>					
1981	4.3L (S) 265"	Bonneville, 6000	2	22536551	13235
1981	4.3L (F) 260"	All	2	3048786	13012
1976	4.3L (F) 260"	Ventura	4	3031520	13232
1981-80	4.4L (J) 267"	All	2	3043015	13208
1981-80	4.4L (J) 267"	All	2	373510	13206
1981-80	4.4L (J) 267"	All	3	10012353	13213
1981	4.9L (W) 301"	All	3	10012353	13213
1981-77	4.9L (W) 301"	All	2	3031549	13202
1980	4.9L (W) 301"	All	2	546895	13240
1979-75	4.9L (W,Y) 301"	All	3	413473,3016754	13200
1989-87	5.0L (Y) 307"	Parisienne, Safari Wagon	2	3055550	13239
1987-86	5.0L (Y) 307"	Parisienne, Safari Wagon	2	22536551	13235
1987-86	5.0L (G,H) 305"	All	2	3031385	13206
1987-86	5.0L (H,U) 305"	All (Incl.Can, Exp)	2	3031386	13209
1987-86	5.0L (Y) 307"	Bonneville, Grand Prix, Parisienne	3	22505266	13213
1987-82	5.0L (H) 305"	Bonneville, Firebird, Grand Prix, Parisienne (w/ Closed Loop)	2	3043015	13208
1987-81	5.0L (G,H) 305"	Bonneville, Grand Prix, Parisienne	2	3043015	13208
1986	5.0L (Y) 307"	Bonneville, Grand Prix, Parisienne	2	22514776	13212
1985-82	5.0L (H,U) 305"	Bonneville, Firebird, Grand Prix, Parisienne	2	3030951	13201
1985-82	5.0L (H,U) 305"	Bonneville, Firebird, Grand Prix, Parisienne	2	3041769	13209
1985-82	5.0L (H,U) 305"	Bonneville, Firebird, Grand Prix, Parisienne	2	14037796	13212
1985-82	5.0L (G,H,7) 305"	All	2	14037796	13212
1985-77	5.0L (H,U) 305"	All	2	373510	13206
1983-80	5.0L (H,U) 305"	Bonneville, Firebird, Grand Prix, Parisienne	2	3043015	13208
1981	5.0L (Y) 307"	Bonneville, 600	2	22536551	13235
1981-77	5.0L (H,U) 305"	All	2	3031549	13202
1980	5.0L (H,U) 305"	All	3	25040055	13213
1980	5.0L (H,U) 305"	All	2	3031385	13206
1979	5.0L (H,U) 305"	Firebird, Grand AM, Grand Prix, LeMans, Phoenix, Sunbird	2	3041857	13223
1978-77	5.0L (H,U) 305"	Firebird, Grand Prix, LeMans, Phoenix, Sunbird, Ventura	2	3031386	13209
1977	5.0L (H,U) 305"	All	2	3031385	13206
1986-82	5.7L (N,6) 350"	Bonneville, Firebird, Grand Prix, Parisienne	2	3030951	13201
1985-82	5.7L (N,6) 350"	Bonneville, Firebird, Grand Prix, Parisienne	2	3041769	13209
1985-77	5.7L (L,N,R,X) 350"	All	2	373510	13206
1981-80	5.7L (L,N,R,X) 350"	All	2	3043015	13208
1981-77	5.7L (L,N,R,X) 350"	All	2	3031549	13202

# THERMAL VACUUM VALVES

YEAR	ENGINE	MODEL	# PORTS	OE #	PART #
<b>PONTIAC 8 cyl (Contd)</b>					
1980	5.7L (L,N,R,X) 350"	All	3	25040055	13213
1980-79	5.7L (L,N,R,X) 350"	Bonneville, Catalina	4	3040827	13231
1980-77	5.7L (L,N,R,X) 350"	All	4	3033795	13217
1979	5.7L (L,N,R,X) 350"	Bonneville, Catalina, Firebird, Trans AM	2	3033753	13230
1979	5.7L (L,N,R,X) 350"	Bonneville, Catalina, Firebird, Trans AM	3	3039246	13220
1979	5.7L (L,N,R,X) 350"	Firebird, Grand AM, Grand Prix, LeMans, Phoenix, Sunbird	2	3041857	13223
1979-75	5.7L (L,N,R,X) 350"	All	3	413473,3016754	13200
1978	5.7L (L,N,R,X) 350"	Firebird, Grand Prix, LeMans, Phoenix, Sunbird	2	3031386	13209
1977	5.7L (L,N,R,X) 350"	All (w/AT)	2	546895	13240
1977	5.7L (L,N,R,X) 350"	Firebird, Grand Prix, LeMans	3	3035810	13210
1977	5.7L (L,N,R,X) 350"	All	2	3031385	13206
1977-76	5.7L (L,N,R,X) 350"	Firebird, Grand Prix, LeMans, Ventura	4	3031520	13232
1976	5.7L (H,J,K,P) 350"	Ventura	5	3031427	13238
1974	5.7L (J,K,M,N) 350"	All	5	3030660	13229
1971-69	5.7L 350"	All	3	413473,3016754	13200
1981-77	6.6L (Z) 400"	All	2	3031549	13202
1979	6.6L (Z) 400"	Bonneville, Catalina, Firebird, Trans AM	2	3033753	13230
1979	6.6L (Z) 400"	Bonneville, Catalina, Firebird, Trans AM	3	3039246	13220
1979-75	6.6L (N,S,Z) 400"	All	3	413473,3016754	13200
1978	6.6L (N,S,Z) 400"	Bonneville, Catalina, Firebird	2	3033753	13230
1977	6.6L (N,S,Z) 400"	Firebird, Grand Prix, LeMans	2	3033753	13230
1977	6.6L (N,S,Z) 400"	All (w/AT)	2	546895	13240
1977	6.6L (N,S,Z) 400"	Firebird, Grand Prix, LeMans	3	3035810	13210
1975	6.6L (N,S,Z) 400"	All	4	3031520	13232
1974	6.6L (N,S,Z) 400"	All	5	3030660	13229
1971-69	6.6L (N,S,Z) 400"	All	3	413473,3016754	13200
1979-75	7.5L (N,S,Z) 455"	All	3	413473,3016754	13200
1977-76	7.5L (N,S,Z) 455"	Firebird, Grand Prix	4	3031520	13232
1976-73	7.5L (N,S,Z) 455"	All	2	494510,497610,3030458	13311
1975	7.5L (N,S,Z) 455"	All	4	3031520	13232
1974	7.5L (N,S,Z) 455"	All	5	3030660	13229
1971-69	7.5L (N,S,Z) 455"	All	3	413473,3016754	13200

# THERMAL VACUUM VALVES

## OEM INTERCHANGES

OEM #	PART #	OEM #	PART #	OEM #	PART #	OEM #	PART #
<b>AMC/JEEP</b>		D5AE-8A564A2A	13303	E1AE-8A564G1A	13304	14075682	13034
1230500	13200	D5AZ-8A564A	13303	E1AE-8A564G2A	13304	14088331	13216
3210853	13312	D5DE-9D473A1A	13310	E1AE-8A564H2A	13309	1613499	13027
3216448	13303	D5DE-9D473A2A	13310	E1AE-8A564J1A	13303	22505266	13213
3218940	13305	D5DE-9D473B1A	13301	E1AE-8A564J2A	13303	22506162	13036
3225912	13203	D5FZ-12A091A	13312	E1AE-9D473A1A	13300	22506187	13025
3226361	13311	D5FZ-9D473A	13311	E1AZ-8A564A	13309	22514776	13212
3228288	13203	D50E-8A564A1A	13304	E1AZ-8A564B	13314	22522527	13239
3228894	13311	D50E-8A564A2A	13304	E1AZ-8A564C	13307	22536551	13235
3234265	13310	D50E-8A564AA	13304	E1AZ-8A564D	13304	25040054	13222
3235917	13303	D50E-9D473A2A	13310	E1AZ-8A564E	13304	25040055	13213
3238932	13004	D50Z-8A564A	13304	E1BE-8A564A1A	13305	25040735	13233
3241784	13004	D5TZ-9D473A	13311	E1BE-8A564A2A	13305	25040736	13236
5358881	13312	D5VE-12A091A1A	13312	E1DE-8A564AA	13304	25040737	13242
8953-00-3010	13216	D5VE-12A091A2A	13312	E1SE-12A091A1A	13312	25040738	13210
J3237457	13018	D5VY-12A091A	13312	E1SE-12A091A2A	13312	25041304	13237
J3241675	13402	D5VY-9D473A	13310	E1SE-8A564AA	13308	3015636	13228
		D5ZE-8A564A1A	13305	E1SE-8A564B2A	13308	3016754	13200
		D5ZE-8A564A2A	13305	E1SE-9D473A1A	13301	3029763	13200
		D5ZE-9D473A2A	13301	E1SE-9D473A2A	13301	3030200	13201
		D5ZZ-8A564A	13305	E1SZ-8A564A	13308	3030721	13201
		D7AE-12A091B1A	13312	E1TE-9D473A1A	13311	3030951	13201
		D7AE-12A091B2A	13312	E1TE-9D473A2A	13311	3030975	13200
		D7AZ-12A091A	13312	E1ZE-9D473A1A	13310	3031385	13203
		D7BE-8A564A2A	13303	E2BE-8A564A2A	13314	3031386	13209
		D7BE-9D473A1A	13310	E77E-8A564AA	13307	3031427	13238
		D7BE-9D473A2A	13310	E7TZ-8A564A	13307	3031518	13221
		D7BZ-9D473A	13310			3031520	13232
		D7DE-8A564A1A	13303			3031549	13202
		D7DE-8A564A2A	13303	<b>GENERAL MOTORS</b>		3033397	13201
		D7EE-9D473A1A	13301	10012226	13222	3033397	13201
		D7EE-9D473A2A	13301	10012353	13213	3033753	13230
		D7LE-8A564A1A	13305	10013744	13214	3033795	13217
		D7LE-8A564A2A	13305	10022316	13218	3035807	13007
		D7OE-8A564A1A	13304	10055876	13212	3035810	13210
		D7OE-8A564A2A	13304	10055876	13212	3036912	13206
		D7TE-9D473A1A	13311	12305001	13200	3039144	13227
		D7TE-9D473A2A	13311	1238524	13200	3039246	13220
		D7ZE-9D473A1A	13301	14003930	13026	3039583	13218
		D7ZE-9D473A2A	13301	14003932	13204	3040827	13231
		D8BE-9D473A1A	13306	14003934	13205	3040871	13009
		D8BE-9D473A2A	13306	14007803	13208	3040943	13231
		D8BZ-9D473A	13306	14009006	13209	3041017	13213
		D8TE-9D473B1A	13306	14009007	13214	3041273	13214
		D8TE-9D473B1A	13306	14009008	13223	3041769	13209
		D8TE-9D473B2A	13306	14015575	13234	3041857	13223
		D8TE-9D473B2A	13306	14025249	13203	3041970	13219
		D8TZ-9D473	13306	14031351	13010	3042272	13011
		D8TZ-9D473B	13306	14031356	13224	3043015	13208
		E1AE-8A564AA	13309	14037782	13215	3043766	13225
		E1AE-8A564B2A	13307	14037796	13212	3046782	13214
		E1AE-8A564BA	13314	14050293	13028	3047867	13221
		E1AE-8A564CA	13307	14058773	13035	3048786	13012
		E1AE-8A564E1A	13304	14064249	13216	3049626	13006
		E1AE-8A564E2A	13304	14069093	13205	3051170	13218
				14072798	13033	3053198	13401
<b>FORD</b>							
C7AZ-12A091A,C	13312						
C7OZ-12A091A	13312						
C8AZ-12A091A	13312						
D0AE-12A091AA	13312						
D1FZ-12A091A	13312						
D30E-9D473AA	13310						
D30Z-9D473A	13310						
D3TE-9D473AA	13301						
D3TZ-9D473A	13301						
D4TE-8A856AA	13305						
D4TZ-9D473A	13311						
D5AE-8A564A1A	13303						

# THERMAL VACUUM VALVES

## OEM INTERCHANGES (Contd)

OEM #	PART #	OEM #	PART #	OEM #	PART #	OEM #	PART #
<b>GENERAL MOTORS (cont)</b>							
3053249	13016	563663	13220			14890-H8500	13412
3053331	13219	<b>HONDA</b>		<b>MOTORCRAFT</b>		14890-H9800	13403
3055378	13219	17350-PA0-661	13023	DY-161	13312	14890-H9810	13403
3055550	13239	17350-PE0-023	13408	DY-165A	13312	14890-H9910	13410
353738	13203	17350-PE1-701	13433	DY-173	13305	14890-H9911	13410
355961	13202	17350-PE0-013	13020	DY-174	13303	14890-N8500	13403
355963	13209	17350-PE0-033	13021	DY-183	13304	14890-P7910	13414
357100	13201	17350-PH4-661	13407	<b>NISSAN</b>			
364708	13200	17350-PH4-668	13407	14890-10W00	13403	14890-P8100	13404
364788	13203	17350-PH4-681	13407	14890-23M00	13403	14890-P8210	13413
370721	13201	17355-PH2-013	13434	14890-31M10	13403	14890-P8700	13411
373510	13206	17360-PA0-661	13022	14890-47800	13036	14890-P9100	13413
413473	13200	17360-PD2-013	13024	14890-H7260	13410	14890-U6700	13401
419591	13200	<b>MAZDA</b>		14890-U7800	13036	14890-U7800	13402
4307895	13017	8325-13-980	13406	14890-U8700	13410	14890-U8700	13411
499047	13201			14890-W2400	13405	14890-W2400	13409
546895	13240						

## NUMERICAL LIST

PART #	APPLICATION & YEAR	FIG. #	PART #	APPLICATION & YEAR	FIG. #
13000	CHRY, DODGE, PLY 74-84, D TRK 74-81 .....	1	13031	D TRK 85-87 .....	50
13001	CHRY 75-87, DODGE, PLY 75-89, D TRK 78-87 .....	1	13032	D TRK 87-88 .....	51
13002	CHRY 74-89, DODGE 75-82,85-89, D TRK 74-87, PLY 75-82,85-89 .....	1	13033	GMC 81 & 84 .....	6
13003	CHRY 77-82,84-87, DODGE 77-87, D TRK 82-84, 86-88, PLY 77,79-87 .....	12	13034	GMC 84-86 .....	21
13004	AMC 80,83-86, JEEP 81-87 .....	13	13035	GMC 83-84 .....	21
13005	CHRY, DODGE, PLY 75-87, D TRK 78-80,84 .....	14	13036	BUICK, OLDS 80, NISSAN 79-87 .....	39
13006	CAD 82-85 .....	NO ILL.	13200	BUICK 68-76, CAD 67-80, C TRK, GMC TRK 75-78, OLDS 68-76, PONT 69-71,75-79 .....	5
13007	CAD 77-84 .....	NO ILL.	13201	BUICK 74-75,79-80,82-85, CHEV 74-80,82-87, C TRK 74-78, GMC TRK 73-78, OLDS 74-76,81-85, PONT 74-76,82-85 .....	39
13008	D TRK 85-87 .....	1	13202	BUICK 79-80,82, CAD 82, CHEV 75-83, C TRK, GMC TRK 75,78-80, OLDS, PONT 77-82 .....	39
13009	BUICK 78-81, OLDS 78-79, PONT 78-80 .....	41	13203	WHEN OUT USE 13206	
13010	C TRK, GMC 81-87 .....	4	13204	BUICK, OLDS 82-86, CHEV 80-85, PONT 80-86 .....	39
13011	BUICK, CHEV, OLDS 79-80, PONT 80 .....	29	13205	BUICK, CHEV, OLDS 80-81, C TRK, GMC TRK 82-84 ....	6
13012	BUICK 83, OLDS 81-83, PONT 81 .....	8	13206	AMC 75-83, BUICK 77-80,82-86, CAD 82-83, CHEV 75-86,90, C TRK, GMC TRK 76-87,90-92, JEEP 75-81, OLDS 80-86,90, PONT 77-86,90 .....	4
13016	C TRK, GMC TRK 83-86 .....	8	13208	BUICK 80, CHEV 82-84, C TRK, GMC TRK 81-86 .....	8
13017	D TRK 87-88 .....	13	13209	BUICK 77-78,81, CHEV 75-78,80-85, C TRK, GMC TRK 75-83, OLDS 77-80,82-86, PONT 77-78,82-86 .....	8
13018	AMC 84-88, JEEP 80-89 .....	49	13210	BUICK 77,79, 84-86, CAD 78-80,82-84, CHEV 82-86, OLDS 77,84-86, PONT 77-82-86 .....	38
13020	HONDA 84 .....	47	13211	WHEN OUT USE 13218	
13021	HONDA 87 .....	21	13212	BUICK, OLDS, PONT 82-86, CAD 86, CHEV 82-85, C TRK, GMC TRK 81-84 .....	10
13022	HONDA 83-87 .....	14			
13024	HONDA 86-89 .....	14			
13025	BUICK 80-81 .....	NO ILL.			
13026	BUICK, PONT 80-81, CHEV 80 .....	8			
13027	CAD 78-80 .....	3			
13028	GMC 82-85 .....	21			

# THERMAL VACUUM VALVES

## NUMERICAL LIST (Contd)

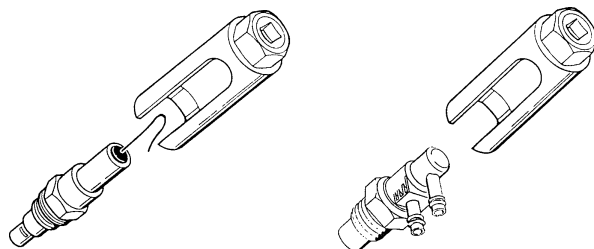
PART #	APPLICATION & YEAR	FIG. #	PART #	APPLICATION & YEAR	FIG. #
13213	BUICK 82-83, CHEV, OLDS 80-83, C TRK, GMC TRK 80,82-85, PONT 80-82 .....	9	13240	BUICK 77-80,82-83, CAD 78-79, CHEV 78-79,82-83, OLDS 78-80,82-83, PONT 77-83 .....	47
13214	BUICK, CHEV, OLDS, PONT 80-81, C TRK, GMC TRK 79-80 .....	2	13242	C TRK, GMC TRK 81-82,84-89 .....	23
13215	CHEV, PONT 82-87 .....	11	13301	FORD, MERC 73-87, F TRK 73-84, LINC 73-74,78-92 ...	2
13216	CHEV TRK, GMC TRK 84-87, JEEP 84-86 .....	6	13303	AMC 72-78,80-82,84, D TRK 78-86, FORD, F TRK, LINC, MERC 74-92, JEEP 62-80,84-87 .....	3
13217	BUICK, CHEV, C TRK, GMC TRK, OLDS, PONT 77-80... 16		13304	FORD, F TRK, LINC, MERC 74-92 .....	3
13218	BUICK 80-87, CAD 81-82, CHEV 78-84, OLDS, PONT 77-87 .....	39	13305	AMC 73-74, D TRK 78-85, FORD, F TRK, LINC, MERC 74-92, JEEP 62-75 .....	3
13219	C TRK, GMC TRK 81-90 .....	16	13306	FORD, MERC 78-92, F TRK, LINC 80-92 .....	6
13220	BUICK 79-80,82, CAD 79, CHEV, OLDS 78-80,82, PONT 78-80 .....	17	13307	FORD, F TRK, LINC, MERC 80-92 .....	7
13221	BUICK 77-79 .....	48	13308	FORD, FTRK, LINC, MERC 80-92 .....	7
13222	BUICK 80-85, CAD 80 .....	19	13309	FORD, F TRK, LINC, MERC 80-92 .....	7
13223	BUICK, CHEV, C TRK, GMC TRK, OLDS, PONT 79, CAD 81,83-84 .....	20	13310	FORD, MERC 73-86, F TRK 73-83, LINC 75-79 .....	2
13224	C TRK, GMC TRK 81-89 .....	21	13311	AMC 75-78, CHRY 77-87, DODGE, PLY 75-87, D TRK 74-87, FORD 73-85, F TRK 73-86, JEEP 75-79, LINC 77-79, MERC 73-85, PONT 73-76 .....	2
13225	C TRK, GMC TRK 80 .....	40	13312	AMC 70, CHRY 71-81, DODGE 70-81, FORD, MERC 67-92, F TRK 70-92, JEEP 71-74,78-87, LINC 68-80, PLY 72-81 .....	3
13227	C TRK, GMC TRK 79-81 .....	41	13314	FORD, F TRK, LINC, MERC 80-92 .....	7
13228	CAD 69-71,74 .....	42	13401	C TRK, GMC TRK 83-90, NISSAN 74-87 .....	2
13229	PONT 74.....	22	13402	NISSAN 76-82,85 .....	15
13230	BUICK, OLDS 77-79, CAD 79, CHEV 82, C TRK, GMC TRK 79-85, PONT 77-79,82 .....	18,43	13403	NISSAN 81-88 .....	28
13231	BUICK, PONT 77-81, CAD, C TRK, GMC TRK 80, CHEV, OLDS 78-81 .....	44	13404	NISSAN 80 .....	28
13232	BUICK 76, OLDS 75-76, PONT 75-77 .....	45	13405	NISSAN 78, 80, 85-86.....	28
13233	C TRK, GMC TRK 81,84-86 .....	23	13406	MAZDA 80-86 .....	29
13234	C TRK, GMC TRK 80-86 .....	21	13407	HONDA 86-89 .....	30
13235	BUICK 81-83,85-87, CHEV 81 & 87, OLDS 81-88, PONT 81,86-87 .....	24	13408	HONDA 84-87 .....	31
13236	C TRK, GMC TRK 81-84 .....	25	13409	NISSAN 81-82 .....	32
13237	BUICK, CAD, OLDS 82, CHEV 82,84-87, PONT 84-87..	26	13410	NISSAN 77 & 80 .....	33
13238	BUICK 75-76, OLDS, PONT 76 .....	27	13411	NISSAN 78-79 .....	34
13239	BUICK 83-90, CAD 86-90, CHEV 80-90, C TRK, GMC TRK 79-85, OLDS 80-81,85-90, PONT 80-89 .....	46	13413	NISSAN 80-82 .....	36
			13414	NISSAN 81-82 .....	37
			13433	HONDA 85-87 .....	35
			13434	HONDA 86-87 .....	35

### Thermal Vacuum Valve / O2 Sensor Socket

Tomco Part No. 13710

For removal and replacement of oxygen sensors and thermal vacuum valves found on Ford, GM, Chrysler and most imported vehicles.

Can be used with a 3/8-inch square drive or 7/8-inch wrench.



# ***THERMAL VACUUM VALVES***

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FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 5



FIG. 6



FIG. 7



FIG. 8



FIG. 9



FIG. 10



FIG. 11



FIG. 12



FIG. 13



FIG. 14

# ***THERMAL VACUUM VALVES***

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FIG. 15



FIG. 16



FIG. 17



FIG. 18



FIG. 19



FIG. 20



FIG. 21



FIG. 22



FIG. 23



FIG. 24



FIG. 25



FIG. 26

# ***THERMAL VACUUM VALVES***

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FIG. 27



FIG. 28



FIG. 29



FIG. 30



FIG. 31



FIG. 32



FIG. 33



FIG. 34



FIG. 35



FIG. 36



FIG. 37



FIG. 38



# ***THERMAL VACUUM VALVES***

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FIG. 38



FIG. 39



FIG. 40



FIG. 41



FIG. 42



FIG. 43



FIG. 44



FIG. 45



FIG. 46



FIG. 47



FIG. 48



FIG. 49



FIG. 50



FIG. 51

# THERMAL VACUUM VALVES

## VALVE IDENTIFICATION CHART

PART NO.	NO. OF PORTS	OPERATING RANGE °F	FUNCTION	THREAD SIZE
13000	2	79 °	EGR Control	1/2"
13001	2	136 ° -140 °	EGR Control	3/8"
13002	2	90 ° -105 °	EGR Control	1/2"
13003	2	125 ° -130 °	Multifunction	3/8"
13004	5	11 ° -118 ° 150 ° -160 °	Canister Purge	3/8"
13005	2	155 °	Multifunction	3/8"
13008	2	128 °	EGR Control	3/8"
13009	4 w/vent	150 °	Multifunction	1/2"
13010	2	127 ° -133 °	EGR Control	1/2"
13011	3	120 °	Multifunction	3/8"
13012	2 w/vent	70 °	Multifunction	3/8"
13013	6	120 °	Multifunction	1/2"
13016	2 w/vent	115 °	Multifunction	1/2"
13017	5	150 °	Multifunction	3/8"
13018	3	62 °	EFE Control	---
13020	2	110 °	Multifunction	3/8"
13021	2	150 °	Multifunction	3/8"
13022	2	70 °	EGR Control	3/8"
13024	2	120 °	EGR Control	3/8"
13025	3	70 °	EFE Control	---
13026	2 w/vent	115 °	Multifunction	3/8"
13027	3	165 °	Multifunction	3/8"
13028	4	130 ° -160 °	Multifunction	1/2"
13030	4 w/vent	60 °	Multifunction	3/8"
13031	2	155 °	Multifunction	3/8"
13032	3	225 °	Engine over Heat Control	3/8"
13033	4	140 °	Multifunction	3/8"
13034	4	140 ° -160 °	Multifunction	3/8"
13035	4	120 °	Multifunction	1/2"
13036	2	170 °	Multifunction	3/8"
13200	3	208 ° -221 °	Engine Overheat Control	1/2"
13201	2	95 ° -105 °	Spark, EGR Control	1/2"
13202	2	97 ° -103 °	EGR Control	3/8"
13203	2	127 ° -133 °	EGR Control	3/8"
13204	2	122 ° -128 °	EGR Control	1/2"
13205	4	112 ° -118 ° Primary 155 ° -165 ° Secondary	Distributor/EGR Control	1/2"
13206	2	127 ° -133 °	EGR Control	3/8"
13208	2 w/vent	85 ° -95 °	EFE Control	---
13209	2 w/vent	175 ° -185 °	EFE Control	1/2"
13210	3	60 ° -65 °	EFE Control	---
13211	2	150 ° -160 °	EGR Control	1/2"
13212	2	160 ° -170 °	Canister Purge	3/8"
13213	3	65 ° -75 °	EFE Control	---
13214	2	130 ° -140 °	EGR Control	1/2"
13215	5	115 ° -170 °	Multifunction	1/2"
13216	4	87 ° -140 °	Multifunction	3/8"
13217	4	105 ° -125 °	Multifunction	1/2"
13218	2	152 ° -158 °	Multifunction	3/8"
13219	4	105 ° -115 °	Multifunction	1/2"
13220	3	117 ° -123 °	Multifunction	1/2"

# THERMAL VACUUM VALVES

## VALVE IDENTIFICATION CHART

PART NO.	NO. OF PORTS	OPERATING RANGE °F	FUNCTION	THREAD SIZE
13221	2	60 ° -66 °	Multifunction	---
13222	4	60 ° -65 °	Multifunction	---
13223	2	115 ° -125 °	Multifunction	1/2"
13224	4	110 ° -140 °	EGR Control	3/8"
13225	3	47 ° -53 °	Choke Control	---
13227	4	105 ° -115 °	Multifunction	1/2"
13228	4	210 ° -223 °	Multifunction	1/2"
13229	5	57 ° -67 °	Multifunction	1/2"
13230	2	117 ° -123 °	EGR Control	3/8"
13231	4	115 ° -125 °	EFE/EGR Switch	1/2"
13232	4	105 ° -125 °	EFE Control	1/2"
13233	3	59 ° -65 °	Multifunction	---
13234	4	127 ° -133 ° Primary 155 ° -165 ° Secondary	EGR Lock-up Control	3/8"
13235	2	162 ° -172 °	Evaporative Canister Purge	1/2"
13236	5	57 ° -67 °	Multifunction	---
13237	2	59 ° -65 °	Multifunction	---
13238	5	105 ° -125 °	EFE Control	1/2"
13239	2	80 ° -90 °	EFE Control	3/8"
13240	2	117 ° -123 °	Distributor/EGR Control	3/8"
13242	3 w/vent	50 °	Multifunction	---
13301	2	125 ° -131 °	EGR Control	3/8"
13303	3	157 ° -163 °	Temperature Controlled Spark	3/8"
13304	3	92 ° -98 °	Temperature Controlled Spark	3/8"
13305	3	125 ° -131 °	Temperature Controlled Spark	3/8"
13306	4	82 ° -86 ° Primary 137 ° -142 ° Secondary	Distributor/EGR Control	3/8"
13307	3	128 °	MCU Switch/Distributor Control	3/8"
13308	3	160 °	MCU Switch/Distributor Control	3/8"
13309	3	95 °	MCU Switch/Distributor Control	3/8"
13310	2	82 ° -88 °	EGR Control	3/8"
13311	2	147 ° -153 °	EGR Control	3/8"
13312	3	217 ° -223 °	Engine Overheat Control	3/8"
13314	3	128 °	Multifunction	3/8"
13401	2	135 ° -145 °	Multifunction	3/8"
13402	2	110 ° -120 °	Multifunction	3/8"
13403	3	92 ° -98 ° Primary 125 ° -135 ° Secondary	Multifunction	3/8"
13404	3	107 ° -113 ° Primary 115 ° -125 ° Secondary	Transmission Vacuum Switch	3/8"
13405	3	54 ° -60 ° Primary 135 ° -145 ° Secondary	Transmission Vacuum Switch	3/8"
13406	3	60 ° -70 °	Transmission Vacuum Switch	3/8"
13407	3	70 ° -130 °	Transmission Vacuum Switch	3/8"
13408	2	115 °	Multifunction	3/8"
13409	2	92 ° -103 °	Multifunction	3/8"
13410	2	59 ° -65 °	DVC, TVC &TCS	3/8"
13411	2	120 °	Multifunction	3/8"
13413	3	152 ° -162 °	Transmission Vacuum Switch	3/8"
13414	2	147 ° -153 °	Transmission Vacuum Switch	3/8"
13433	2	115 °	Multifunction	3/8"
13434	2	160 °	Multifunction	3/8"