



CONTINENTAL

AEROSPACE TECHNOLOGIES

CYLINDER APPLICATION GUIDE

FOR CONTINENTAL® & LYCOMING®* ENGINES



ANGLE VALVE CYLINDERS
NOW IN STOCK!

CONTINENTAL PRIME™
PREMIUM CYLINDERS
FOR LYCOMING®* ENGINES



NiC3 CYLINDER COATING

EXTENDED LIFE
REDUCED WEAR

THROUGH-HARDENED STEEL BARREL

All Continental® cylinder barrels start out as high-grade, aircraft quality, through-hardened 4140 forged steel. As an initial break-in measure, the barrels receive a two-step honing process. This results in less friction, more contact area, and enhanced wear characteristics. This process gives the cylinder barrels excellent resistance to wear and tear.

CONTINENTAL PRIME™ CYLINDER TECHNOLOGY

Continental **PRIME™** cylinders for Lycoming®* engines are FAA-approved for use in certified and experimental engines and airframes. We increased the cylinder head thickness in the combustion dome and thread region. Thread and shrink band fitment are optimized to create an enhanced steel barrel to aluminum head juncture for the strongest and most durable assembly. Plus, our **PRIME™** cylinders benefit from the exceptional manufacturing processes and quality control procedures that you have come to expect from Continental®.

NiC3 CYLINDERS BETTER PERFORMANCE

Nickel Silicon Carbide (NiC3) is a chemical compound coating of nickel and silicon carbide, a strong ceramic. It is much harder than steel, with performance attributes that first made their appearance in the engine cylinders of high performance race cars.

Piston engines that are used infrequently are more prone to internal corrosion since the oil layer left following operation slowly fades away from lack of use. An NiC3 coated cylinder absorbs and retains a layer of oil, keeping the cylinder surface coated for much longer than a standard uncoated surface. This greatly increases the protection against corrosion in engine cylinders.

Continental® now offers NiC3 as an optional coating across its entire range of cylinder products. The increase in performance, wear-resistance, and cylinder life are among the many reasons more owners and operators are choosing NiC3.



**“NiC3 CYLINDER
BARRELS CARRY
A 5-YEAR WARRANTY
AGAINST CORROSION
& PREMATURE WEAR.”**

CONTINENTAL® CYLINDERS FOR CONTINENTAL® ENGINES

ENGINE MODEL	CYLINDER CLASS	THROUGH-HARDENED STEEL BARREL	NIC3 ELECTROPLATED BARREL	DESCRIPTION
REMOVABLE PUSH ROD TUBES				
0200A, B, C 0300A, B, C, D, E C75 C85 C90 C125 G0300A, B, C, D, E, F	61.0A/61.1D	658188A1		CYL & VALVE ASM
0200A, B 0300A, C, D C90	61.0A/61.1D	658188A2		CYL & VALVE ASM, LOADED
0200A, B C90	61.0A/61.1D	658188A2BP		CYL & VALVE ASM, LOADED, BALANCED
0200A, B C90	61.0A/61.1D	EQ7507		KIT (4 CYL), LOADED
0200A, B C90	61.0A/61.1D	EQ7500		KIT (4 CYL) - TOP OVERHAUL, BALANCED
0200D		658187A1		CYL & VALVE ASM
0200D		658187A2		CYL & VALVE ASM, LOADED
0200D		658187A2BP		KIT (4 CYL) - LOADED, BALANCED
0300A, B, C, D, E	61.0A/61.1D	658188A3BP		CYL & VALVE ASM, LOADED, BALANCED
0300A, B, C, D, E	61.0A/61.1D	EQ7506 (W/ Push Rods)		KIT (6 CYL) - LOADED
0300A, B, C, D, E	61.0A/61.1D	EQ7501		KIT (6 CYL) - TOP OVERHAUL, BALANCED
G0300A, B, C, D, E	61.0C/61.1F	658188A4		CYL & VALVE ASM, LOADED
C75 C85 C125	61.0B/61.1E	658188A5		CYL & VALVE ASM, LOADED
C75 C85 C125	61.0B/61.1E	EQ7503		KIT (4 CYL) - TOP OVERHAUL BALANCED
C75 C85 C125	61.0B/61.1E	EQ7505 (W/ Push Rods)		KIT (SINGLE CYL), LOADED
SWAGED PUSH ROD TUBES				
0200A, B, C 0300A, B, C, D, E C125	61.0A/61.1D	658319A1		CYL & VALVE ASM
0200A, B, C 0300A, B, C, D, E	61.0A/61.1D	658319A2		CYL & VALVE ASM, LOADED
0200A, B, C	61.0A/61.1D	658319A4BP		CYL KIT, BALANCED
C90	61.0A/61.1D	658319A3		CYL & VALVE ASM
C90	61.0A/61.1D	658319A4		CYL & VALVE ASM, LOADED
C90	61.0A/61.1D	658319A4BP		CYL KIT, BALANCED
C75 C85	61.0B/61.0E	658319A5		CYL & VALVE ASM
C75 C85	61.0B/61.0E	658319A6		CYL & VALVE ASM, LOADED
G0300A, B, C, D, E, F	61.0C/61.1F	658319A7		CYL & VALVE ASM
G0300A, B, C, D, E, F	61.0C/61.1F	658319A8		CYL & VALVE ASM, LOADED
0300A, B, C, D, E	61.0C/61.1F	658319A9BP		CYL KIT, BALANCED
E165 E185 E225 0470-4, -11, -13, -15	64.0/64.1	658819A1		CYL & VALVE ASM
E165 E185 E225 0470-4, -11, -13, -15	64.0/64.2	658819A2		CYL & VALVE ASM, LOADED
E165 E185 E225 0470-4, -11, -13, -15	64.0/64.3	658819A2BP		CYL & VALVE ASM, LOADED, BALANCED
E165 E185 E225 0470-4, -11, -13, -15	64.0/64.4	EQ7298		KIT - TOP OVERHAUL, BALANCED
IO240A, B IO360AF, ES IOF240B LTSIO360RB TSIO360MB, RB, SB	66.2A	658601A1		CYL & VALVE ASM
IO240A, B IO360AF, ES IOF240B	66.2A	658601A3		CYL & VALVE ASM, LOADED
IO240A, B IOF240B	66.2A	658601A3BP		CYL & VALVE ASM, LOADED, BALANCED
IO240A, B IOF240B	66.2A	EQ7083		KIT - TOP OVERHAUL, BALANCED
IO346A, B (SERVICE)	75	658813A2		CYL & VALVE ASM, LOADED
IO346A, B (SERVICE)	75	EQ6657 (w/lifters)		KIT - CYL ASM
IO346A, B (SERVICE)	75	EQ7100		KIT - TOP OVERHAUL, BALANCED
IO360ES	66.2A	658601A1		CYL & VALVE ASM
IO360ES	66.2A	658601A3		CYL & VALVE ASM, LOADED
IO360AF, ES	66.2A	658601A4BP		CYL & VALVE ASM, LOADED, BALANCED
IO360ES	66.2A	EQ7264		KIT - TOP OVERHAUL, BALANCED
IO360AF LTSIO360RB TSIO360MB, RB, SB	N/A	658601A1		CYL & VALVE ASM
IO360AF, ES	N/A	658601A3		CYL & VALVE ASM, LOADED
IO360AF, ES	N/A	658601A4BP		CYL & VALVE ASM, LOADED, BALANCED
LTSIO360RB TSIO360MB, RB, SB	N/A	EQ7095		KIT - TOP OVERHAUL, BALANCED
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB LTSIO360 E, EB, KB TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB	66.0A	658822A1		CYL & VALVE ASM
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB	66.0A	658822A3		CYL & VALVE ASM, LOADED
IO360 A, C, CB, D, DB, G, GB, H, HB, J, JB, K, KB, LB	66.0A	658822A3BP		CYL & VALVE ASM, LOADED, BALANCED
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B		658822A1	CYL & VALVE ASM
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B		658822A2	CYL & VALVE ASM, LOADED
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B		658822A2BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO360 A, AB, C, CB, D, DB, E, EB, F, FB, GB, H, HB, JB, KB, LB LTSIO360E, EB, KB	66.0B	EQ7096		KIT - TOP OVERHAUL, BALANCED
0470G7,G10; 0470GC1; M22,M23,M26&M27; IO470C1,C8,C9,C10,C11,C12&C14	68.0B	658816A2	658829A2	CYL & VALVE ASM
0470G7,G10; 0470GC1; M22,M23,M26&M27; IO470C1,C8,C9,C10,C11,C12&C14	68.0B	658816A4	658829A4	CYL & VALVE ASM, LOADED
0470G7,G10; 0470GC1; M22,M23,M26 and M27, IO470C1,C8,C9,C10,C11,C12&C14	68.0B	658816A4BP	658829A4BP	CYL & VALVE ASM, LOADED, BALANCED
0470G7,G10; 0470GC1; M22,M23,M26&M27; IO470C1, C8, C9, C10, C11, C12 and C14	68.0B	EQ7093	EQ7598	KIT - TOP OVERHAUL, BALANCED
0470 J	64.1	658818A2		CYL & VALVE ASM
0470 J	64.1	658818A3		CYL & VALVE ASM, LOADED
0470 J	64.1	658818A3BP		CYL & VALVE ASM, LOADED, BALANCED
0470 J	64.1	EQ7296		KIT - TOP OVERHAUL, BALANCED
0470U	70.0A	658817A1		CYL & VALVE ASM
0470U	70.0A	658817A3	658830A3	CYL & VALVE ASM, LOADED
0470U	70.0A	658817A3BP	658830A3BP	CYL & VALVE ASM, LOADED, BALANCED
0470U	70.0A	EQ7094	EQ7596	KIT - TOP OVERHAUL, BALANCED
0470G, R, S, K, L	68.0A	658816A1	658829A1	CYL & VALVE ASM, LOADED
0470G, R, S, K, L	68.0A	658816A3BP	658829A3BP	CYL & VALVE ASM, LOADED, BALANCED
0470R, S, K, L	68.0A	EQ7020	EQ7597	KIT - TOP OVERHAUL, BALANCED

CONTINENTAL® CYLINDERS FOR CONTINENTAL® ENGINES (CONT.)

ENGINE MODEL	CYLINDER CLASS	THROUGH-HARDENED STEEL BARREL	NIC3 ELECTROPLATED BARREL	DESCRIPTION
IO470D, E, F, H, L, M, N, S, U, V, VO TSI0470B, C, D	70.0A	658817A2	658830A2	CYL & VALVE ASM
IO470D, E, F, H, L, M, N, S, U, V, VO	70.0A	658817A4	658830A4	CYL & VALVE ASM, LOADED
IO470D, E, F, H, L, M, N, S, U, V, VO	70.0A	658817A4BP	658830A4BP	CYL & VALVE ASM, LOADED, BALANCED
IO470D, E, F, H, L, M, N, S, U, V, VO	70.0A	EQ7027	EQ7595	KIT - TOP OVERHAUL, BALANCED
IO470J, K	64.1	658818A1		CYL & VALVE ASM
IO470J, K	64.1	658818A4		CYL & VALVE ASM, LOADED
IO470J, K	64.1	658818A4BP		CYL & VALVE ASM, LOADED, BALANCED
IO470J, K	64.1	EQ7092		KIT - TOP OVERHAUL, BALANCED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	658591A1	658824A1	CYL & VALVE ASM
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	658591A2	658824A2 (2Q17)	CYL & VALVE ASM, LOADED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	658591A2BP	658824A2BP (2Q17)	CYL & VALVE ASM, LOADED, BALANCED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72	EQ7099	EQ7582 (2Q17)	KIT - TOP OVERHAUL, BALANCED
GTSIO520C, D, H1, H2, H5, H6, H9, H10	72		EQ7583 (2Q17)	KIT - TOP OVERHAUL, BALANCED
GTSIO520H7, H8, L, M, N	74	658820A2	658833A2	CYL & VALVE ASM
GTSIO520H7, H8, L1 THRU L8, M1, M2, M3, N1 THRU N12	74	658820A6	658833A6	CYL & VALVE ASM, LOADED
GTSIO520H7, H8, L1 THRU L8, M1, M2, M3, N1 THRU N12	74	658820A6BP	658833A6BP	CYL & VALVE ASM, LOADED, BALANCED
GTSIO520H7, H8, L, M, N	74	EQ7066	EQ7565	KIT - TOP OVERHAUL, BALANCED
GTSIO520K	73	658820A3	658613A3	CYL & VALVE ASM
GTSIO520K1, K5	73	658820A7	658833A7	CYL & VALVE ASM, LOADED
GTSIO520K1, K5	73	658820A7BP	658833A7BP	CYL & VALVE ASM, LOADED, BALANCED
GTSIO520K	73	EQ7066	EQ7566	KIT - TOP OVERHAUL, BALANCED
GTSIO520 L1THRU L8, M1, M2, M3, N1 THRU N12	74	EQ7066	EQ7569	KIT - TOP OVERHAUL, BALANCED
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB IO550A, B, C IOF550B, C	71.4A	658810A1	658823A1	CYL & VALVE ASM
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	71.4A	658810A4	658611A4	CYL & VALVE ASM, LOADED
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	71.4A	658810A4BP	658823A4BP	CYL & VALVE ASM, LOADED, BALANCED
IO520A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB	71.4A	EQ6989	EQ7561	KIT - TOP OVERHAUL, BALANCED
LTSIO520AE TSI0520AE	75	658593A1		CYL & VALVE ASM
LTSIO520AE TSI0520AE	75	658593A3		CYL & VALVE ASM, LOADED
LTSIO520AE TSI0520AE	75	658813A3BP		CYL & VALVE ASM, LOADED, BALANCED
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, VVB	71.4B	658810A1	658823A1	CYL & VALVE ASM
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, VVB	71.4B	658810A2	658823A2	CYL & VALVE ASM, LOADED
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, VVB	71.4B	658810A2BP	658823A2BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO520AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, UB, VB, VVB	71.4B		EQ7558	KIT - TOP OVERHAUL, BALANCED
TSIO520BE1, BE2, BE3, BE4	73	658820A1	658613A1	CYL & VALVE ASM
TSIO520BE1, BE2, BE3, BE4	73	658820A8	658613A8	CYL & VALVE ASM, LOADED
TSIO520BE1, BE2, BE3, BE4	73	658820A8BP	658613A8BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO520BE1, BE2, BE3, BE4	73	EQ7297		KIT - TOP OVERHAUL, BALANCED
IO550A, B, C IOF550B, C	71.4C	658810A1		CYL & VALVE ASM
IO550A, B, C IOF550B, C	71.4C	658810A3	658823A3	CYL & VALVE ASM, LOADED
IO550A, B, C IOF550B, C	71.4C	658810A3BP	658823A3BP	CYL & VALVE ASM, LOADED, BALANCED
IO550A, B, C IOF550B, C	71.4C	EQ7350	EQ7557	KIT - TOP OVERHAUL, BALANCED
IO550D, E, F, L	76	658592A1	658825A1	CYL & VALVE ASM
IO550D, E, F, L	76	658592A2	658825A2	CYL & VALVE ASM, LOADED
IO550D, E, F, L	76	658592A2BP	658825A2BP	CYL & VALVE ASM, LOADED, BALANCED
IO550D, E, F, L	76	EQ7089	EQ7577	KIT - TOP OVERHAUL, BALANCED
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	658820A1	658833A1	CYL & VALVE ASM
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	658820A5	658833A5	CYL & VALVE ASM, LOADED
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	658820A5BP	658833A5BP	CYL & VALVE ASM, LOADED, BALANCED
IO550G	73.0A	EQ7090	EQ7562	KIT - TOP OVERHAUL, BALANCED
IO550G1, G2, G4, G5, G6, G7, G8, G9, G10	73.0A	EQ7090	EQ7568	KIT - TOP OVERHAUL, BALANCED
IO550N, P, R	73.1	658815A1	658828A1	CYL & VALVE ASM
IO550N, P, R	73.1	658815A2	658828A2	CYL & VALVE ASM, LOADED
IO550N, P, R	73.1	658815A2BP	658828A2BP	CYL & VALVE ASM, LOADED, BALANCED
IO550N, P, R	73.1	EQ7085	EQ7574	KIT - TOP OVERHAUL, BALANCED
IO550N, P, R	73.1		EQ7575 [Crossflow]	CYL KIT - CROSSFLOW
IOF550N, P, R	N/A	658814A2	658827A2 (2Q17)	CYL & VALVE ASM, LOADED
IOF550N, P, R	N/A	658814A2BP	658827A2BP (2Q17)	CYL & VALVE ASM, LOADED, BALANCED
TSIO550A, B, C, E IO550G TSI0520BE	73.0B	658820A1	658833A1	CYL & VALVE ASM
TSIO550A, B, C, E	73.0B	658820A4	658833A4	CYL & VALVE ASM, LOADED
TSIO550A1, A2, B1, B2, C1, C3 THRU C14, E1, E2 THRU E5, E9 THRU E13, E14 THRU E23	73.0B	658820A4BP	658833A4BP	CYL & VALVE ASM, LOADED, BALANCED
TSIO550A, B, C, E	73.0B	EQ7087	EQ7563	KIT - TOP OVERHAUL, BALANCED
TSIOF550D, J, K, P IOF550N, P, R	N/A	658814A1	658623A1	CYL & VALVE ASM
TSIOF550D, J, K, P	N/A	658814A3	658623A3 (2Q17)	CYL & VALVE ASM, LOADED
TSIOF550D, J, K, P	N/A	658814A3BP	658623A3BP (2Q17)	CYL & VALVE ASM, LOADED, BALANCED
TSIO550G, K, N IO550N, P, R	N/A	658815A1	658828A1	CYL & VALVE ASM
TSIO550G, K, N	N/A	658815A3	658828A3	CYL & VALVE ASM, LOADED
TSIO550G, K, N	N/A	658815A3BP	658828A3BP	CYL & VALVE ASM, LOADED, BALANCED

KIT LOADED OR CYLINDER & VALVE ASM LOADED: A cylinder with the valves, piston, ring set, rocker arm shaft(s), and single cylinder gasket set.

EQ KIT: Six cylinders with the valves, piston, piston pins, ring set, rocker arm shaft(s), single cylinder gasket set, plus additional hardware.

BALANCED PACK (BP): All pistons have equal weight in grams.

CONTINENTAL PRIME™ CYLINDERS FOR LYCOMING®* ENGINES

ENGINE MODEL	CYL CLASS	THROUGH-HARDENED STEEL BARREL	NIC3 ELECTROPLATED BARREL	VALVE CONFIG.
320 SERIES				
O-320-(no suffix), A1A, A2A, A2B, A2C, A3A, A3B, A3C, E1A, E1B, E2A, E2C (Narrow Deck)	6	TIST06-OCA	TISN06-OCA	Parallel
O-320-A1B, A2B, A2C, A2D, A3A, A3B, C2B, C2C, C3B, C3C, E1A, E1B, E1C, E1F, E1J, E2A, E2B, E2C, E2D, E2E, E2F, E2G, E2H, E3D, E3H (Wide Deck)	4	TIST04-OCA	TISN04-OCA	Parallel
O-320-B1A, B1B, B2A, B2B, B3A, B3B, B3C, D1A, D1B, D2A, D2B, D2C (Narrow Deck)	8	TIST08-OCA	TISN08-OCA	Parallel
O-320-B2B, B2C, B2D, B2E, B3B, B3C, D1A, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
O-320-C1A, C1B, C2A, C2B, C3A, C3B, C3C (Narrow Deck)	8.0A	TIST08-OACA	TISN08-OACA	Parallel
IO-320-A1A, A2A (Narrow Deck)	6	TIST06-OCA	TISN06-OCA	Parallel
IO-320-A1A, A2A, E1A, E1B, E2A, E2B (Wide Deck)	4	TIST04-OCA	TISN04-OCA	Parallel
IO-320-B1A, B1B (Narrow Deck)	7	TIST07-OCA	TISN07-OCA	Parallel
IO-320-B1A, B1B, B1C, B1D, B1E, B2A, C1B, D1A, D1AD, D1B, D1C (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
IO-320-C1A, C1B, C1F, F1A (Wide Deck)	5	TIST05-OCA	TISN05-OCA	Parallel
AEIO-320-D1B, D2B (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
AEIO-320-E1A, E1B, E2A, E2B (Wide Deck)	4	TIST04-OCA	TISN04-OCA	Parallel
AIO-320-A1A, A1B, A2A, A2B, B1B, C1B (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
LIO-320-B1A (Narrow Deck)	7	TIST07-OCA	TISN07-OCA	Parallel
LIO-320-B1A (Wide Deck)	4.1	TIST04-1CA	TISN04-1CA	Parallel
LIO-320-C1A (Wide Deck)	5	TIST05-OCA	TISN05-OCA	Parallel
360 SERIES				
O-360-A1A, A1AD, A1D, A1F, A1F6, A1F6D, A1G, A1G6, A1G6D, A1H, A1H6, A1J, A1LD, A1P, A2A, A2D, A2F, A2G, A3H, A3A, A3AD, A3D, A4A, A4AD, A4D, A4G, A4J, A4JD, A4K, A4M, A4N, A4P, A5AD, C1A, C1C, C1E, C1F, C1G, C2A, C2B, C2C, C2D, C2E, C4F, C4P, F1A6, G1A6 (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
O-360-A1A, A1C, A1D, A2A, A2E, A3A, A3D, A4A, C1A, C1C, C1G, C2A, C2B, C2C, C2D (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
IO-360-A3B6D, C1F (Wide Deck)	14	TIST14-OCA	TISN14-OCA	Angle
O-360-B1A, B1B, B2A, B2B, D1A, D2A, D2B (Narrow Deck)	10	TIST10-OCA	TISN10-OCA	Parallel
O-360-B1A, B2C, D2A (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
O-360-J2A	43.1	TIST43-1CA	TISN43-1CA	Parallel
IO-360-A1A (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
IO-360-A1A, A1B, A1B6, A1B6D, A1C, A1C6, A1D, A1D6, A1D6D, A2A, A2B, A2C, A3B6, A3B6D, A3D6D, C1A, C1B, C1C, C1C6, C1C6, C1E6, C1E6D, C1G6, D1A, J1A6D, J1AD, K2A (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
IO-360-B1A, B1B, B1C (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
IO-360-B1B, B1BD, B1D, B1E, B1F, B1F6, B1G6, B2E, B2F, B2F6, B4A, E1A, L2A, M1A, M1B (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
IO-360-F1A (Wide Deck)	38.3	TIST38-3CA	TISN38-3CA	Parallel
AIO-360-A1A, A1B, A2A, A2B, B1B (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
AEIO-360-A1A, -A1B, A1B6, A1B6D, A1C, A1D, A1D6, A1E, A1E6, A2A, A2B, A2C, A2E, A3B6D (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
AEIO-360-B1B (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
AEIO-360-B1B, B1D, B1F, B1F6, B1G6, B1H, B2F, B2F6, B4A, H1A, H1B (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
HIO-360-A1A (Narrow Deck)	11.1	TIST11-1CA	TISN11-1CA	Angle
HIO-360-B1A, B1B (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
HIO-360-B1A, B1B, G1A (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel

ENGINE MODEL	CYL CLASS	THROUGH-HARDENED STEEL BARREL	NIC3 ELECTROPLATED BARREL	VALVE CONFIG.
HO-360-A1A, B1A, B1B (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
HO-360-C1A (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Angle
HIO-540-A1A (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Parallel
LO-360-A1G6D, A1H6 (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Angle
LIO-360-C1E, C1E6, C1E6D (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Parallel
LTO-360-A1A6D (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
TO-360-A1A6D (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
TIO-360-A1A, A1B, A3B6 (Wide Deck)	14.4	TIST14-4CA	TISN14-4CA	Angle
540 SERIES				
O-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, D1A5, E1A, E4A5, E4B5, E4C5, F1A5, F1B5, G1A5, G2A5 (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
O-540-A4D5, E4A5, E4B5, E4B5D, E4C5, G1A5, G1A5D, G2A5, H1A5, H1A5D, H1B5D, H2A5, H2A5D, H1B5, H2B5D (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
O-540-B1A5, B1B5, B1D5, B2A5, B2B5, B2C5, B2C5D, B4A5, B4B5, B4B5D (Narrow Deck)	10	TIST10-OCA	TISN10-OCA	Parallel
O-540-B2B5, B2C5, B2C5D, B4B5, B4B5D (Wide Deck)	12.2	TIST12-2CA	TISN12-2CA	Parallel
O-540-F1B5	43.1	TIST43-1CA	TISN43-1CA	Parallel
O-540-J1A5D, J1B5D, J1C5D, J1D5D, J2A5D, J2B5D, J2C5D, J2D5D, J3A5, J3A5D, J3C5D	43	TIST43-OCA	TISN43-OCA	Parallel
O-540-L3C5D	44	TIST44-OCA	TISN44-OCA	Parallel
IO-540-A1A5, G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, K1A5, K1B5, K1B5D, K1D5, K1F5, K2A5, L1A5 (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
IO-540-AA1A5, AA1B5 (Wide Deck)	14.3A	TIST14-3ACA	TISN14-3ACA	Angle
IO-540-AE1A5, K1A5, K1A5D, K1B5, K1B5D, K1D5, K1F5, K1F5D, K1G5, K1G5D, K1H5, K1J5, K1J5D, K1K5, K2A5, L1A5D, L1B5D, L1C5 (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
IO-540-C1B5, C1C5, C2C, C4B5, C4B5D, C4C5, D4A5, D4B5, N1A5, N1A5D (Narrow Deck)	10.1	TIST10-1CA	TISN10-1CA	Parallel
IO-540-C4B5, C4B5D, C4D5, C4D5D, D4A5, D4B5, D4C5, N1A5, N1A5D, T4A5D, T4B5, T4B5D, T4C5D, V4A5, V4A5D (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
IO-540-G1D5, K1B5, K1C5, K1E5, K1E5D, S1A5 (Wide Deck)	14	TIST14-OCA	TISN14-OCA	Angle
IO-540-J4A5, R1A5 (Narrow Deck)	26	TIST26-OCA	TISN26-OCA	Parallel
IO-540-W1A5, W1A5D, W3A5D, AB1A5	43	TIST43-OCA	TISN43-OCA	Parallel
AEIO-540-D4A5, D4B5, D4C5, D4D5 (Wide Deck)	12	TIST12-OCA	TISN12-OCA	Parallel
AEIO-540-L1B5, L1B5D (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
AEIO-540-L1B5, L1B5D, L1D5 (Wide Deck)	13	TIST13-OCA	TISN13-OCA	Angle
HIO-540-A1A (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
LTIO-540-K1AD (Wide Deck)	38.1	TIST38-1CA	TISN38-1CA	Parallel
TIO/LTIO-540-AE2A, AH1A, U2A (Wide Deck)	14.3A	TIST14-3ACA	TISN14-3ACA	Angle
TIO-540-C1A, C1AD (Wide Deck)	38	TIST38-OCA	TISN38-OCA	Parallel
TIO-540-C1A, E1A, H1A (Narrow Deck)	26.1	TIST26-1CA	TISN26-1CA	Parallel
TIO-540-G1A (Narrow Deck)	26	TIST26-OCA	TISN26-OCA	Parallel
TIO-540-K1AD, AA1AD, AB1BD, AF1A, AG1A, AK1A (Wide Deck)	38.1	TIST38-1CA	TISN38-1CA	Parallel
720 SERIES				
IO-720-A1A, A1B, A1BD, D1B, D1BD (Narrow Deck)	11	TIST11-OCA	TISN11-OCA	Angle
IO-720-A1B, A1BD, D1B, D1BD, D1C (Wide Deck)	14	TIST14-OCA	TISN14-OCA	Angle

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