

BLACKMER
SERIAL NUMBER / ID TAG SYSTEM
GRAND RAPIDS VANE PUMPS ONLY

Page 1 of 4	Page No. 001-030
Section	001
Effective	Jan 16, 2012
Replaces	Jan 15, 2011

SERIAL NUMBER / ID TAG

Blackmer attaches a Serial Number / ID Tag to all power driven and truck pump models for easy identification. The main purpose of the tag is to facilitate the proper selection of parts for maintenance and repair. Blackmer distributors may also use the Serial Number / ID Tag to record the location and history of equipment placed into service.

Refer to the following pages for explanation of the ID number system used for Grand Rapids vane pumps.

The ID number system described within is applicable to some pumps built in 2001 and all pumps built in 2002 and later in the Grand Rapids factory. If your pump was built in 2001 and has an entry in field '6' (the RV Spring code) it is under the new system. If your pump was built in 2002 or later, it is under the new system. See document ONE/4 of Jan. 1999 for a description of the previous ID number system.

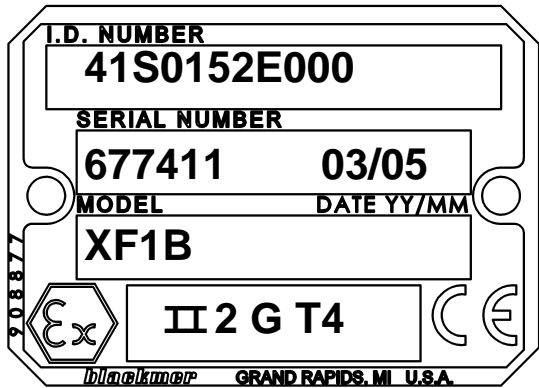
Effective September 1983, all Blackmer Serial Number / ID Tags contain a six digit serial number, with a letter suffix indicating the year of manufacture. For Serial Number / ID Tag information prior to September 1983, refer to document One/4 of June 1984, or contact the factory for specific product information.

Effective May 2003, all Blackmer Serial Number / ID Tags will contain a six digit serial number, followed by a 4 digit Date Code indicating the year and month of manufacture.

An ATEX Classification Code has been assigned to Pumps and Gear Reducers for compliance with the ATEX Directive.

- ◆ **Serial Number records for all power driven and truck pump models are maintained by Blackmer. These records are available for use by Blackmer distributors upon request.**
- ◆ **Records are not available for truck pump serial numbers prior to January 1978.**
- ◆ **Hand pumps, Bypass valves, Strainers do not have Serial Number Tag identification.**
- ◆ **Gear Reducers manufactured prior to May 2003 do not have Serial Number Tag identification. Gear Reducers manufactured beginning in May 2003 will have a Serial Number Tag containing a six digit serial number, and a separate 4 digit Date Code indicating the year and month of manufacture.**

SERIAL NUMBER / ID TAG
(Commercial Pumps since May 2003)



I.D. No	An eleven (11) character string describing the pump's construction. It is intended as an aid in selecting the proper repair service parts. Refer to the Field ID tables for a description of the codes in each field. Note: no single pump will use all the ID codes shown.
Serial No.	6 digits followed by a 4-digit code indicating the year and month of manufacture.
Model No.	Indicates the basic type and size of the pump.
	ATEX Classification Code, for ATEX Directive compliance. Unique to each pump model manufactured

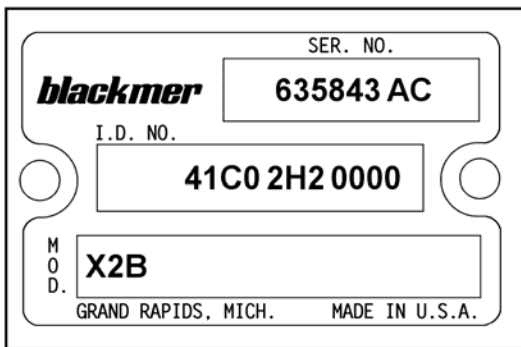
Nameplate example: Model XF1B pump built after May 2003. The pump is fitted with Duravanes®, Single End Rotor & Shaft, SVCV Seal, Standard Relief Valve with a Range 4 Steel Spring, FKM O-Rings, and an "F" Bracket for 56C-145TC Motors.

Refer to ATEX Declaration of Conformity & Machinery Directive Notification, Form 559 for pumps and Form 560 for gear reducers, for a listing of products and their ATEX Classification Code

The presence of a 'Z' in the I.D. code indicates special materials of construction.

Any modifications made to Blackmer pumps and pump components after delivery must be recorded by the Distributor, and the pump ID Tag changed accordingly. Blackmer must be notified of any changes made.

SERIAL NUMBER / ID TAG
(Commercial pumps prior to May 2003, all Military/Marine pumps)



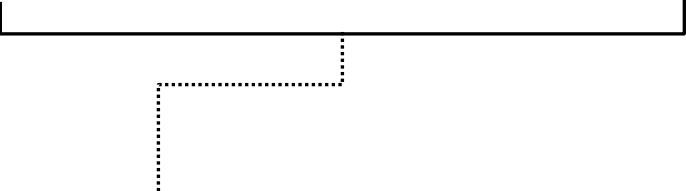
Serial No.	6 digits followed by a 2-letter code indicating the year of manufacture as shown in the table below.
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Model No.	Indicates the basic type and size of the pump.

Nameplate example: Model X2B pump built in 2002. The pump is fitted with Duravanes®, Single End Rotor & Shaft, IVCV Seal, Corrosion Resistant Relief Valve with a Range 'H' Stainless Steel Spring, and FKM O-Rings.

Serial No. Alpha Suffix	AA	AB	AC	AD	AE	AF	AG
Year of Manufacture	2000	2001	2002	2003	2004	2005	2006
Serial No. Alpha Suffix	AH	AI	AJ	AK	AL		
Year of Manufacture	2007	2008	2009	2010 2011	2012		



ID Field One Vanes	ID Field Two Rotor & Shaft	ID Fields Three & Four Seals (or Magnets on Mag Drive Pumps) See tables below for explanation of Seal Component Symbols																																																										
2 - Bronze 3 - Iron 4 - DuraVane® 5 - Laminate 6 - Lam, EC 8 - Bronze, EC 9 - Iron-EC A - Iron, HD B - Iron, HD, EC C - MaxVane D - MaxVane, EC E - Carbon G - PolyVane Z - Special	1 - SE-Key 4 - DE-Key 8 - SE-Key, EC A - 8 Vane C - 4 Vane E - SE-Spline J - SE-Key, CR G - SE-Key, HD,EC Z - Special EC=Extra Clearance HD=Hardened SE=Single End DE=Double End CR=Corrosion Resist	<table border="0"> <tr> <td>A0 - INCN</td> <td>BG - LALT</td> <td>K2 - Lip Seal w/Buna O-ring</td> <td rowspan="20">Magnet Codes MA - No Magnet MC - MC10-140TC MD - MC10-180TC MG - MC20-180TC MH - MC20-210TC MK - MC30-180TC ML - MC30-210TC MQ - MC60-180TC MR - MC60-210TC MS - MC60-250TC MT - MC80-250TC MU - MC80-280TC MW - MC130-280TC</td> </tr> <tr> <td>AA - RVCV</td> <td>BH - LAST</td> <td>K3 - Lip Seal w/FKM O-ring</td> </tr> <tr> <td>AC - RVBV</td> <td>BK - LACT</td> <td>K4 - Lip Seal w/ PTFE O-ring</td> </tr> <tr> <td>AE - LPCP</td> <td>BL - SJCJ</td> <td>K6 - Lip Seal - Turcon</td> </tr> <tr> <td>AF - LNCN</td> <td>BM - SACK</td> <td>K7 - Triple Lip Cartridge Seal</td> </tr> <tr> <td>AJ - CNLN</td> <td>BN - SPCP</td> <td>K8 - Double Lip Seal</td> </tr> <tr> <td>AL - RVCT</td> <td>BP - LJLJ</td> <td>L0 - IVBV</td> </tr> <tr> <td>AN - LVSV</td> <td>BR - LJLJ</td> <td>P0 - IVCT</td> </tr> <tr> <td>AP - LVLV</td> <td>BS - SECE</td> <td>Q0 - SNCN</td> </tr> <tr> <td>AR - CVLV</td> <td>BT - CELE</td> <td>QA - SNCN (alternate)</td> </tr> <tr> <td>AS - LTCT</td> <td>BU - LNLN</td> <td>S0 - SVCV</td> </tr> <tr> <td>AU - LVCV</td> <td>C0 - IVCV</td> <td>T0 - SVCT</td> </tr> <tr> <td>AZ - IACT</td> <td>E0 - WVCV</td> <td>U0 - SNBN</td> </tr> <tr> <td>B0 - INCT</td> <td>G0 - PTFE Packing</td> <td>V0 - SVBV</td> </tr> <tr> <td>BA - SACT</td> <td>H0 - Crane #9 or 59U</td> <td>WA - WACT</td> </tr> <tr> <td>BC - SACA</td> <td>IA - Crane 4200/5610*</td> <td>X0 - RCNC</td> </tr> <tr> <td>BD - LFSF</td> <td>JO - Durametallc RO</td> <td>Y0 - RNCT</td> </tr> <tr> <td>BE - LACA</td> <td>K0 - Lip seal</td> <td>ZZ - Special Seal</td> </tr> <tr> <td>BF - LALA</td> <td></td> <td></td> </tr> </table>	A0 - INCN	BG - LALT	K2 - Lip Seal w/Buna O-ring	Magnet Codes MA - No Magnet MC - MC10-140TC MD - MC10-180TC MG - MC20-180TC MH - MC20-210TC MK - MC30-180TC ML - MC30-210TC MQ - MC60-180TC MR - MC60-210TC MS - MC60-250TC MT - MC80-250TC MU - MC80-280TC MW - MC130-280TC	AA - RVCV	BH - LAST	K3 - Lip Seal w/FKM O-ring	AC - RVBV	BK - LACT	K4 - Lip Seal w/ PTFE O-ring	AE - LPCP	BL - SJCJ	K6 - Lip Seal - Turcon	AF - LNCN	BM - SACK	K7 - Triple Lip Cartridge Seal	AJ - CNLN	BN - SPCP	K8 - Double Lip Seal	AL - RVCT	BP - LJLJ	L0 - IVBV	AN - LVSV	BR - LJLJ	P0 - IVCT	AP - LVLV	BS - SECE	Q0 - SNCN	AR - CVLV	BT - CELE	QA - SNCN (alternate)	AS - LTCT	BU - LNLN	S0 - SVCV	AU - LVCV	C0 - IVCV	T0 - SVCT	AZ - IACT	E0 - WVCV	U0 - SNBN	B0 - INCT	G0 - PTFE Packing	V0 - SVBV	BA - SACT	H0 - Crane #9 or 59U	WA - WACT	BC - SACA	IA - Crane 4200/5610*	X0 - RCNC	BD - LFSF	JO - Durametallc RO	Y0 - RNCT	BE - LACA	K0 - Lip seal	ZZ - Special Seal	BF - LALA		
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Seal Component Material Symbols	
A - PTFE Encapsulated	M - PTFE Coated Buna-N
B - Bronze	P - Neoprene
C - Carbon	R - Ni-Resist
E - EPDM	S - Steel - Hardened
F - AFLAS®	T - PTFE
H - Hard Chrome Plated Steel	V - FKM
I - Iron	W - Stainless Steel
J - HNBR	X - Tungsten Carbide Coated Steel
L - Silicon Carbide	Y - Stellite
N - Buna-N	

Seal ID Code	Explanation of Seal Component Symbols & Order of Usage				
A0	<table border="0"> <tr> <td>I - Iron</td> </tr> <tr> <td>N - Buna-N</td> </tr> <tr> <td>C - Carbon</td> </tr> <tr> <td>N - Buna-N</td> </tr> </table>	I - Iron	N - Buna-N	C - Carbon	N - Buna-N
I - Iron					
N - Buna-N					
C - Carbon					
N - Buna-N					

* Crane 4200/5610 materials: FKM, #55 Carbon, Stainless Steel, Silicone Carbide, Hastelloy

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ID Field Five Relief Valve	ID Field Six Relief Valve Spring Range	ID Field Seven Elastomer
0 - None / Not-Offered 1 - Standard 1 - Bolt-on 2 - Corrosion Resistant 3 - Pneumatic 4 - Pneumatic - No Spring 5 - External Bypass Z - Special RV	0 - None / Not-Offered B - Standard Spring A - Air Valve Spring A - Pneumatic 115 N - Pneumatic 075 1 - Steel, Range 1 Mid Press. 30 to 42.5 psi 2 - Steel, Range 2 Mid Press. 43 to 54 psi 3 - Steel, Range 3 Mid Press. 55 to 70 psi 4 - Steel, Range 4 Mid Press. 71 to 89 psi 5 - Steel, Range 5 Mid Press. 90 to 105 psi 6 - Steel, Range 6 Mid Press. 106 to 119 psi 7 - Steel, Range 7 Mid Press. 120 to 135 psi	8 - Steel, Range 8 Mid Press. 136 to 149 psi 9 - Steel, Range 9 Mid Press. 150 psi and up D - Stainless, Range D Mid Press. 36 to 49 psi E - Stainless, Range E Mid Press. 50 to 59 psi F - Stainless, Range F Mid Press. 60 to 74 psi G - Stainless, Range G Mid Press. 75 to 89 psi H - Stainless, Range H Mid Press. 90 to 104 psi J - Stainless, Range J Mid Press. 105 to 124 psi K - Stainless, Range K Mid Press. 125 to 149 psi M - Stainless, Range M Mid Press. 150 psi and up Z - Special RV Spring
		1 - Buna-N 2 - Fluorocarbon (FKM) 3 - PTFE 4 - HNBR 5 - Ethylene Propylene 6 - Neoprene Z - Special Elastomer

ID Field Eight Special Construction 1	ID Field Nine Special Construction 2	ID Field Ten Special Construction 3	ID Field Eleven Special Construction 4
0 - Standard A - Cast Iron w/ Drain B - Ductile Iron w/Drain D - Roller Bearing 0 - 'L' Foot Bracket E - 'F' bracket (56C-145TC) F - 'F' Bracket (182TC-215C) G - Less Bracket H - 'F' Bracket w/ foot	J - Motor Coupling Adaptor MCA180TC K - Motor Coupling Adaptor MCA280TC M - Shaft Support Bearing. N - Carbon Bushing P - Bronze Bushing Z - Special	0 - Standard B - Wear Resist Liner C - Reduced Drop Liner D - Wear Resistant, Reduced Drop Liner Z - Special	0 - Standard 1 - Jackets 2 - Jacket-DIN Z - Special
			0 - Standard A - Hardened-Disc B - Carbon Discs Z - Special

