

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

Section	001
Effective	Dec 31, 2022
Replaces	Sep 01, 2022

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.

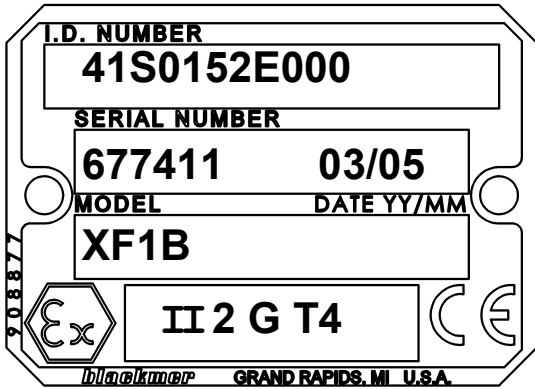
Effective September 1983, all Blackmer Serial Number / ID Tags contain a six digit serial number, with a letter suffix indicating the year of manufacture. For Serial Number / ID Tag information prior to September 1983, refer to document One/4 of June 1984, or contact the factory for specific product 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.
 II 2 G T4	ATEX Classification Code, for ATEX Directive compliance. Unique to each pump model manufactured

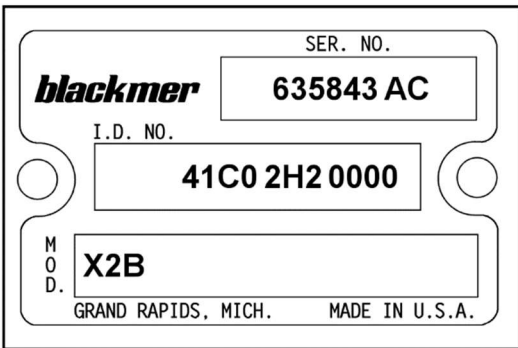
Nameplate example: Model XF1B pump built after May 2003. The pump is fitted with Duravanes®, Single End Rotor & Shaft, SVCV Seal, Standard Relief Valve with a Range 4 Steel Spring, FKM O-Rings, and an "F" Bracket for 56C-145TC Motors.

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.
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.
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 7 - Enduravane 8 - Bronze, EC 9 - Iron-EC A - Iron, HD B - Iron, HD, EC C - MaxVane D - MaxVane, EC E - Carbon G - PolyVane Z - Special	<u>1st character of code</u> 1 - SE-Key 4 - DE-Key 5 - DE-Key, SS 8 - SE-Key, EC A - 8 Vane C - 4 Vane E - SE-Spline J - SE-Key, CR G - SE-Key, HD, EC H - SE-Key, Closed Z - Special <u>2nd character</u> 0 - Std. for DE shafts R - RH Rotation L - LH Rotation <u>2 code sets</u> AC DC EC=Extra Clearance HD=Hardened SE=Single End DE=Double End CR=Corrosion Resist SS=Stainless Steel	2A - CVSV Plan 52 3A - CVSV Plan 53 A0 - INCN AA - RVCV AC - RVBV AE - LPCP AF - LNCN AJ - CNLN AL - RVCT AN - LVSV AP - LVLV AR - CVLV AS - LTCT AU - LVCV AZ - IACT B0 - INCT BA - SACT BC - SACA BD - LFSF BE - LACA BF - LALA BG - LALT BH - LAST BK - LACT BL - SJCJ BM - SACK BN - SPCP BP - LJLJ BR - LJCJ BS - SECE BT - CELE BU - LNLN C0 - IVCV E0 - WVCV G0 - PTFE Packing H0 - Crane #9 or 59U IA - Crane 4200/5610* J0 - Durametallc RO K0 - Lip seal K2 - Lip Seal w/Buna O-ring K3 - Lip Seal w/FKM O-ring K4 - Lip Seal w/ PTFE O-ring K6 - Lip Seal - Turcon K7 - Triple Lip Cartridge Seal K8 - Double Lip Seal L0 - IVBV M4 - Neodymium P0 - IVCT Q0 - SNCN QA - SNCN (alternate) S0 - SVCV T0 - SVCT U0 - SNBN UA - UECE V0 - SVBV WA - WACT X0 - RCNC Y0 - RNCT ZZ - Special Seal 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

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	U - Tungsten Carbide
I - Iron	V - FKM
J - HNBR	W - Stainless Steel
L - Silicon Carbide	X - Tungsten Carbide Coated Steel
N - Buna-N	Y - Stellite

Seal ID Code	Explanation of Seal Component Symbols & Order of Usage
A0	

* 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 6 - Internal w/Manual Bypass 8 - Pneumatic Piston FKM 9 - Pneumatic Piston w/o Spring 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 Y - Steel, Range 50-125 Dual Action 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 0 - 'L' Foot Bracket 1 - Horizontal Cylinder A - Cast Iron w/ Drain B - Ductile Iron w/Drain C - Motor Coupling Adapter 56C D - Roller Bearing 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 V - Motor Coupling Adaptor IEC90 /B14A W - Motor Coupling Adaptor IEC100/112 B14A 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 3 - Electric Heads 4 - Inboard Jacket Z - Special	0 - Standard 1 - 2" NPT Elbow Aux Inlet Flange 2 - 2" Weld Elbow Aux Inlet Flange A - Hardened-Disc B - Carbon Discs B - No Aux Inlet E - 2" Weld Elbow SS Aux Inlet N - NPT Aux Inlet Flange P - Black Paint S - 2" Weld SS Aux Inlet W - 2" Weld Aux Inlet Flange Z - Special

