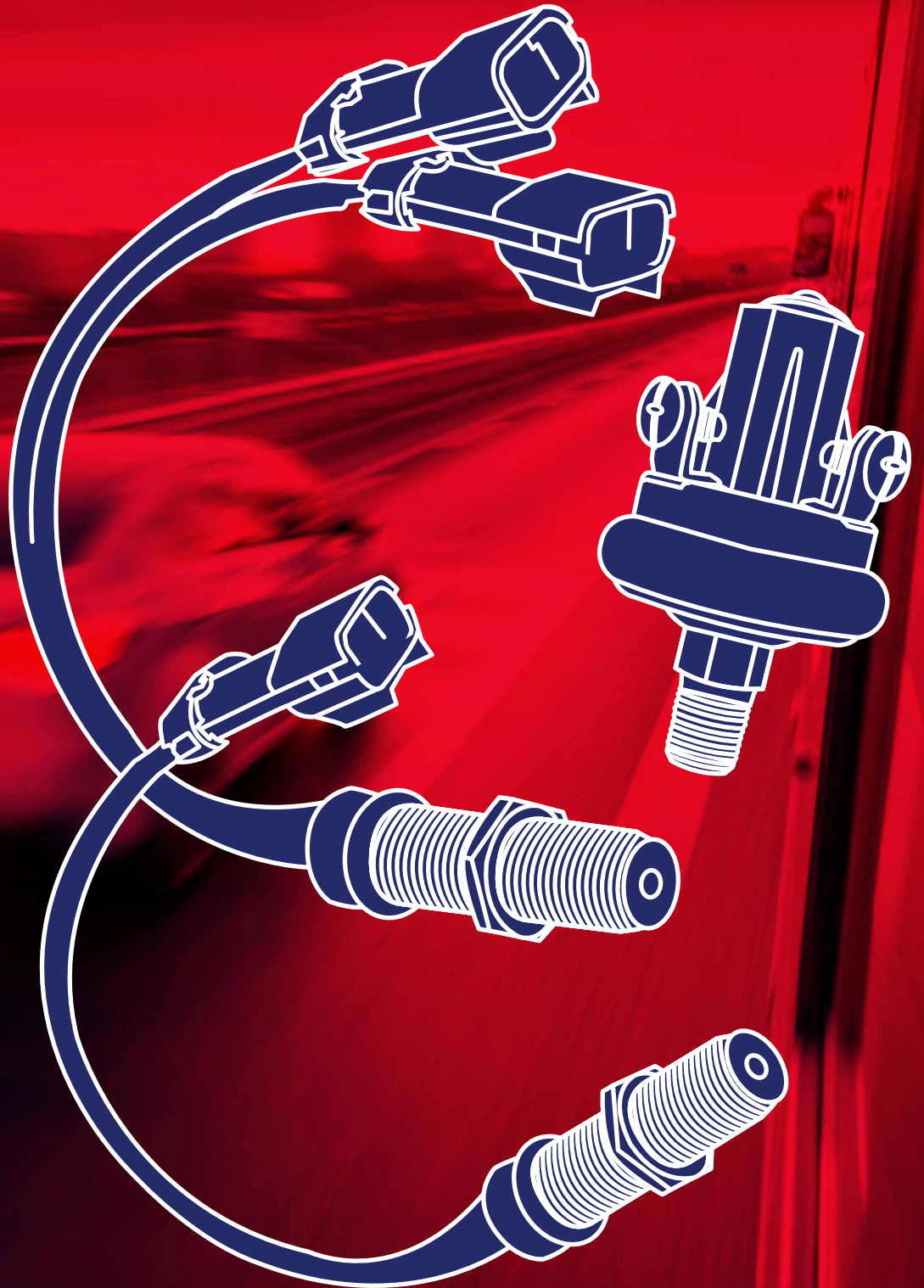


SENSORS & SWITCHES



TRUCK & AUTO PARTS
Since 1983





MAGNETIC SENSORS

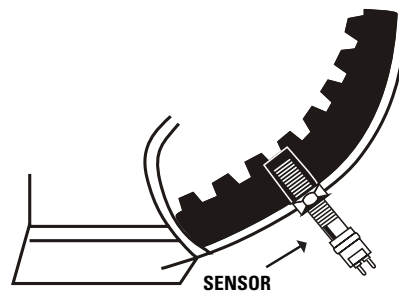
The Magnetic Pick-Up Sensor is an electro-magnetic device that senses a sudden change in a magnetic field. Used in a variety of applications from heavy-duty trucks, to refrigeration units, small utility vehicles, farm equipment, and even wood chipping units, sensors are designed to reliably measure revolution and speed.

Magnetic Pick-Up Sensors can easily be mounted to the spindle flange of the axle or the rear of the transmission. They can be used as a speedometer sensor or mounted on the flywheel housing as a tachometer sensor. In either application the device senses a sudden change in the magnetic field that is caused by a metal protrusion on a rotating shaft, a slot on a wheel disc, the teeth of a gear or a metal indicator on a material handling system. The sine wave generated is transmitted to the speedometer or tachometer.

In this illustration the MPU sensor is installed to read the RPM or the gear teeth. The sensor magnetically reads the teeth, translates those pulses into a sine wave, and transmits electrical pulses to the instrument gauge.

FEATURES

- High output voltage signal
- Superior performance at high temperatures; out performs semiconductor-type devices
- Aluminium threaded sleeve means a more durable sensor
- Protective molded thermoset compound will not soften or deform in high temperature applications
- Reliable, heavy-duty wiring harness available
- Sensor has no moving parts and is unaffected by dirt resulting in very long service life
- Designed for use as a speedometer sensor or tachometer sensor
- Custom models available with terminal posts, connectors, or dual outputs



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MAGNETIC PICKUP SENSORS



SAP2004



SAP2033S



SAP2033V

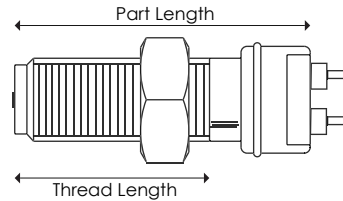


SAP2036A

SAP No	DIAMETER & THREAD	BODY LENGTH	THREADED LENGTH	CABLE LENGTH	CONNECTOR	NOMINAL COIL RESISTANCE
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PROFILE A

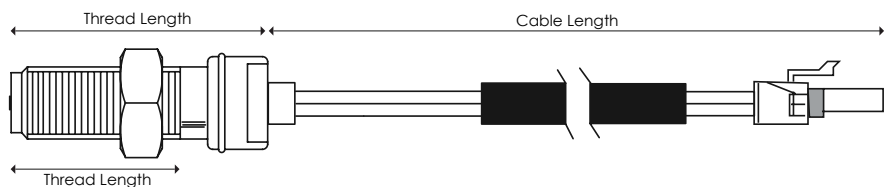
ADJUSTABLE NUT WITH #8 TERMINALS (VARIABLE DEPTH)



SAP2002	3/4-16 UNF	2.03	1.16	None	8-32 NC Terminals	265 Ohm
SAP2004	3/4-16 UNF	4.37	3.5	None	8-32 NC Terminals	265 Ohm
SAP2005	3/4-16 UNF	2.66	1.79	None	8-32 NC Terminals	265 Ohm
SAP2005C	3/4-16 UNF	2.66	1.79	None	8-32 NC Terminals	265 Ohm
SAP2010	3/4-16 UNF	3.75	2.29	None	8-32 NC Terminals	265 Ohm
SAP2018	3/4-16 UNF	2.66	1.75	None	8-32 NC Terminals	370 Ohm
SAP2031	M16 X 1.5	3.16	2.29	None	M4 X 0.7 Terminals	675 Ohm
SAP2032	5/8-18 UNF	4.37	3.5	None	8-32 NC Terminals	675 Ohm

PROFILE B

ADJUSTABLE NUT WITH CABLE (VARIABLE DEPTH)



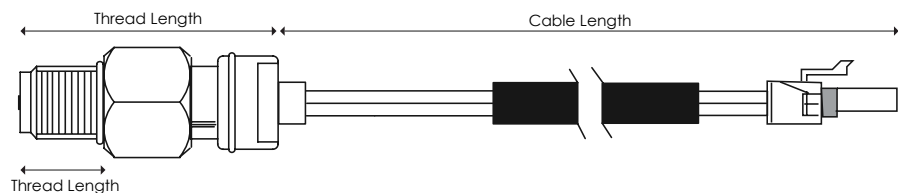
SAP0598	3/4-16 UNF	3.16	2.29	12	Packard Electric #15300002	265 Ohm
SAP2004A	3/4-16 UNF	4.37	3.5	72	None	265 Ohm
SAP2005A	3/4-16 UNF	2.66	1.79	30.6	Packard Electric #12010973	690 Ohm
SAP2005B	3/4-16 UNF	2.66	1.79	18.6	Packard Electric #12010973	690 Ohm
SAP2005D	3/4-16 UNF	2.66	1.79	146	None	690 Ohm
SAP2005E	3/4-16 UNF	2.66	1.79	72	None	265 Ohm

MAGNETIC PICKUP SENSORS

SAP No	DIAMETER & THREAD	BODY LENGTH	THREADED LENGTH	CABLE LENGTH	CONNECTOR	NOMINAL COIL RESISTANCE
PROFILE B (con't)						
SAP2005M	3/4-16 UNF	2.66	1.79	12	Packard Electric #15300002	690 Ohm
SAP2010A	3/4-16 UNF	3.75	2.29	72	None	265 Ohm
SAP2010B	3/4-16 UNF	3.75	2.29	120	None	265 Ohm
SAP2033	3/4-16 UNF	3.6	2.73	6	Packard Electric #12015792	265 Ohm
SAP2033C	3/4-16 UNF	3.6	2.56	17.7	Packard Electric #12010973	690 Ohm
SAP2033CF	3/4-16 UNF	3.6	2.56	17.7	Packard Electric #12010973	690 Ohm
SAP2033D	3/4-16 UNF	3.6	2.73	12	Cannon #120-1807-00	265 Ohm
SAP2033H	3/4-16 UNF	3.6	2.56	29.5	Packard Electric #12010973	690 Ohm
SAP2033K	3/4-16 UNF	3.6	2.56	12	Packard Electric #15300002	265 Ohm
SAP2033L	3/4-16 UNF	3.6	2.56	12	Packard Electric #12015792	265 Ohm
SAP2033M	3/4-16 UNF	3.6	2.56	12	Packard Electric #15300002	690 Ohm
SAP2033N	3/4-16 UNF	3.6	2.56	17.7	2-Way Trailer	690 Ohm
SAP2033P	3/4-16 UNF	3.6	2.56	20	None	1300 Ohm
SAP2033P-01	3/4-16 UNF	3.6	2.56	20	2-Way Trailer	1300 Ohm
SAP2033S	3/4-16 UNF	3.6	2.56	17.7	Packard Electric #12010973	690 Ohm
SAP2033T	3/4-16 UNF	3.6	2.56	29.5	Packard Electric #15300002	690 Ohm
SAP2040	3/4-16 UNF	2.66	1.79	12	Packard Electric #15300002	265 Ohm
SAP2040E	3/4-16 UNF	2.66	1.79	12	Packard Electric #15300002	265 Ohm
SAP2041	3/4-16 UNF	3.6	2.56	12	Packard Electric #15300002	170 Ohm
SAP2047G	M16 X 1.5	3.16	2.29	6.55	Packard Electric #12015792	575 Ohm
SAP2048	3/4-16 UNF	3.6	2.56	17.7	Packard Electric #15300002	690 Ohm
SAP2049	3/4-16 UNF	3.6	2.56	17.7	Packard Electric #15300002	690 Ohm
SAP2283M	M18 X 1.5 Necked Down to 0.411	2.66	0.92	8	Packard Electric #15300002	290 Ohm
SAP2418M	3/4-16 UNF	2.66	1.91	12	Packard Electric #15300002	265 Ohm
SAP3105A	3/4-16 UNF	3.16	2.29	None	Mates with Deutsch #DT06-2S	690 Ohm
SAP3106A	3/4-16 UNF	3.16	2.29	4.25	Mates with Deutsch #DT06-2S	690 Ohm
SAP3233	3/4-16 UNF	3.66	2.29	None	Packard Electric #12066016. Mates with Packard #12162193 or #12040753	265 Ohm
SAP3233A	3/4-16 UNF	3.66	2.29	None	Mates with Packard #12162193 or #12040753	690 Ohm
SAP3233V	M18 X 1.5	3.66	2.29	None	Packard Electric #12066016. Mates with Packard #12162193 or #12040753	265 Ohm
SAP3233W	M18 X 1.5	3.66	2.29	None	Packard Electric #12066016. Mates with Packard #12162193 or #12040753	690 Ohm
SAP3824	3/8-24 UNF	1.70	1.7	14.3	Packard Electric #12010973	700 Ohm

PROFILE C

INTEGRAL NUT WITH CABLE (FIXED DEPTH)



SAP2033A	3/4-16 UNF	2.66	1.03	18	Packard Electric #12015792	265 Ohm
SAP2033B	3/4-16 UNF	2.66	0.85	18	Packard Electric #12015792	265 Ohm
SAP2033J	3/4-16 UNF	2.65	0.85	17.7	Packard Electric #12010973	265 Ohm
SAP2033V	M18 X 1.5	2.66	0.984	18	Packard Electric #12015792	265 Ohm
SAP2033W	M18 X 1.5	3.66	2.29	18	Packard Electric #12015792	690 Ohm
SAP2033X	M18 X 1.5	2.66	0.984	17.7	Packard Electric #12010973	265 Ohm

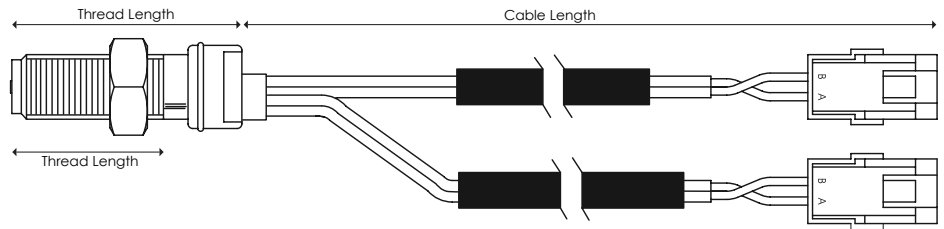
MAGNETIC PICKUP SENSORS



SAP No	DIAMETER & THREAD	BODY LENGTH	THREADED LENGTH	CABLE LENGTH	CONNECTOR	NOMINAL COIL RESISTANCE
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PROFILE D

ADJUSTABLE NUT WITH DUAL OUTPUT LEADS (VARIABLE DEPTH)



SAP2036A	3/4-16 UNF	3.16	2.29	30	Packard Electric #12010973 Dual Outputs	L1=830 Ohm L2=1220 Ohm
SAP2036B	3/4-16 UNF	3.16	2.29	12.25	Packard Electric #15300002 Dual Outputs	L1=1000 Ohm L2=1000 Ohm
SAP2036C	3/4-16 UNF	3.16	2.29	12.25	Packard Electric #15300002 Dual Outputs	L1=270 Ohm L2=270 Ohm
SAP2036G	3/4-16 UNF	3.16	2.29	30	2-Way Trailer Dual Outputs	L1=830 Ohm L2=1220 Ohm
SAP2036M	3/4-16 UNF	3.6	2.56	17.7	Packard Electric #12010973 Dual Outputs	L1=1000 Ohm L2=1000 Ohm
SAP2036T	3/4-16 UNF	2.66	1.79	4.25	Mates with Deutsch #DT06-2S Dual Outputs	L1=400 Ohm L2=400 Ohm
SAP707037	None	2.74	N/A	10	Packard Electric #12010973 and Metri-Pack 150	964 Ohm

CONNECTORS



***Packard Electric #12010973**



***Packard Electric #12015792**



***Packard Electric #15300002**

*Not Sold Separately, For Reference Purposes Only.

SWITCHES & INDICATORS



SAP13250



SAP228600



SAP228750



SAP279416

SAP No	STYLE	TYPE	CUT-OUT PRESSURE	PIPE THREAD
SAP13250	SL5 - Stop Light Switch	Single Pole 2 Terminal	3-5 PSI	1/4-18 NPT
SAP228600	SL4 - Stop Light Switch	Single Pole 2 Terminal	5 PSI	1/4"
SAP228750	LP3 - Low Pressure	Double Terminal	60 PSI	1/4"
SAP279416	LP3 - Low Pressure	Single Terminal	60 PSI	1/4"

PRESSURE (HOBB) SWITCHES

SCREW TERMINAL



**SINGLE CIRCUIT
ONE (1) TERMINAL**

FACTORY SET AS	CIRCUIT	PART
1 PSI	NO	SAP78630NO
1 PSI	NC	SAP78634NC
2 PSI	NO	SAP78142NO
2 PSI	NC	SAP78149NC
4 PSI	NO	SAP78143NO
4 PSI	NC	SAP78150NC
10 PSI	NO	SAP78144NO
10 PSI	NC	SAP78151NC
15 PSI	NO	SAP78145NO
15 PSI	NC	SAP78152NC
35 PSI	NO	SAP78146NO
35 PSI	NC	SAP78153NC
60 PSI	NO	SAP78147NO
60 PSI	NC	SAP78154NC
100 PSI	NO	SAP78148NO
100 PSI	NC	SAP78155NC



**SINGLE CIRCUIT
TWO (2) TERMINAL**

FACTORY SET AS	CIRCUIT	PART
1 PSI	NO	SAP78628NO
1 PSI	NC	SAP78632NC
2 PSI	NO	SAP76051NO
2 PSI	NC	SAP76061NC
4 PSI	NO	SAP76575NO
4 PSI	NC	SAP76577NC
10 PSI	NO	SAP76576NO
10 PSI	NC	SAP76578NC
15 PSI	NO	SAP76052NO
15 PSI	NC	SAP76062NC
35 PSI	NO	SAP76053NO
35 PSI	NC	SAP76063NC
60 PSI	NO	SAP76054NO
60 PSI	NC	SAP76064NC
100 PSI	NO	SAP76055NO
100 PSI	NC	SAP76065NC



**DUAL CIRCUIT
THREE (3) TERMINAL**

FACTORY SET AS	CIRCUIT	PART
1 PSI	NO	SAP78711NO
1 PSI	NC	SAP78711NC
2 PSI	NO	SAP76071NO
2 PSI	NC	SAP76071NC
4 PSI	NO	SAP76579NO
4 PSI	NC	SAP76579NC
10 PSI	NO	SAP76580NO
10 PSI	NC	SAP76580NC
15 PSI	NO	SAP76072NO
15 PSI	NC	SAP76072NC
35 PSI	NO	SAP76073NO
35 PSI	NC	SAP76073NC
60 PSI	NO	SAP76074NO
60 PSI	NC	SAP76074NC
100 PSI	NO	SAP76075NO
100 PSI	NC	SAP76075NC

*NO: Normally Open *NC: Normally Closed

TIRE PRESSURE MONITORS

The Tire Pressure Monitor is a precision device that monitors the air pressure to each tire on the vehicle. This Device helps to maintain the proper air pressure in the tires. Tire Pressure Monitors are available for every type of vehicle.

OPERATING INSTRUCTIONS:

GREEN: The Tire is properly inflated.

PARTIALLY RED & GREEN:
When the window on the device shows Red 10% or more, the tire is underinflated.
TIME TO ADD AIR TO THE TIRE.

RED: The tire is 25% or more underinflated. **ADD AIR ASAP.**



PSI	PART #
26 PSI	TPM26
28 PSI	TPM28
30 PSI	TPM30
32 PSI	TPM32
34 PSI	TPM34
36 PSI	TPM36
38 PSI	TPM38
40 PSI	TPM40
45 PSI	TPM45
50 PSI	TPM50
55 PSI	TPM55
60 PSI	TPM60
65 PSI	TPM65
70 PSI	TPM70
75 PSI	TPM75

PSI	PART #
80 PSI	TPM80
85 PSI	TPM85
90 PSI	TPM90
95 PSI	TPM95
100 PSI	TPM100
105 PSI	TPM105
110 PSI	TPM110
115 PSI	TPM115
120 PSI	TPM120
130 PSI	TPM130
145 PSI	TPM145
150 PSI	TPM150
160 PSI	TPM160
165 PSI	TPM165

INTERCHANGES



Vendor No	SAP No
BENDIX	
228600N	SAP228600
228750N	SAP228750
274746N	SAP228600
279416N	SAP279416

Vendor No	SAP No
DAYTON	
AV228600	SAP228600
AV228750	SAP228750
AV279416	SAP279416
AVBE13250	SAP13250

Vendor No	SAP No
EUCLID	
E-BN228600N	SAP228600
E-BN228750N	SAP228750
E-BN279416N	SAP279416
E-MDBE13250N	SAP13250

Vendor No	SAP No
FREIGHTLINER	
7EP2004	SAP2004
7EP2005	SAP2005
7EP2005A	SAP2005A
7EP2005B	SAP2005B
7EP2010	SAP2010
7EP2032	SAP2032
7EP2033	SAP2033
7EP2033A	SAP2033A
7EP2033B	SAP2033B
7EP2033C	SAP2033C
7EP2033CF	SAP2033CF
7EP2033P	SAP2033P
7EP2036M	SAP2036M

Vendor No	SAP No
FULLER TRANSMISSION	
57713-002	SAP2036A

Vendor No	SAP No
HALDEX	
BE13250	SAP13250

Vendor No	SAP No
HONEYWELL	
76051	SAP76051NO
76052	SAP76052NO
76053	SAP76053NO
76054	SAP76054NO
76055	SAP76055NO
76061	SAP76061NC
76062	SAP76062NC
76063	SAP76063NC
76064	SAP76064NC
76065	SAP76065NC
76071	SAP76071NC
76071	SAP76071NO
76072	SAP76072NC
76072	SAP76072NO

Vendor No	SAP No
HONEYWELL	
76073	SAP76073NC
76073	SAP76073NO
76074	SAP76074NC
76074	SAP76074NO
76075	SAP76075NC
76075	SAP76075NO
76575	SAP76575NO
76576	SAP76576NO
76577	SAP76577NC
76578	SAP76578NC
76579	SAP76579NC
76579	SAP76579NO
76580	SAP76580NC
76580	SAP76580NO
78142	SAP78142NO
78143	SAP78143NO
78144	SAP78144NO
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78148	SAP78148NO
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78151	SAP78151NC
78152	SAP78152NC
78153	SAP78153NC
78154	SAP78154NC
78155	SAP78155NC
78628	SAP78628NO
78630	SAP78630NO
78632	SAP78632NC
78634	SAP78634NC
78711	SAP78711NC
78711	SAP78711NO

Vendor No	SAP No
INTERNATIONAL	
1658556C91	SAP2036A
1669290C91	SAP2033H
1671606C91	SAP2033T
2018790C1	SAP3105A
2503117C1	SAP3106A
3528003C1	SAP3233A
500435C92	SAP2033N
556915C91	SAP2033C
556916C91	SAP2005A
557031C91	SAP2005B

Vendor No	SAP No
JOHN DEERE	
471862001	SAP2033J
50197001	SAP2033B

Vendor No	SAP No
JOHN DEERE	
AH99637	SAP2018
AM125581	SAP2033B
AM137563	SAP2033B
AT117092	SAP2031

Vendor No	SAP No
MACK	
54MT325	SAP2033D
64MT283	SAP2283M
64MT283AM	SAP2283M
64MT283M	SAP2283M
64MT337	SAP2033A
64MT339	SAP2036M
64MT410M	SAP2033M
64MT411M	SAP2005M
64MT412M	SAP2036B
64MT413M	SAP2033K
64MT418M	SAP2418M
64MT423M	SAP2040
64MT435	SAP2033K
MAK64MT283BM	SAP2283M

Vendor No	SAP No
NEW STAR	
S-A264	SAP228600
S-A265	SAP228750
S-A266	SAP279416

Vendor No	SAP No
PACCAR	
104-102	SAP2004
104-103	SAP2005
104-106	SAP2010
104-110	SAP2033C
660-1-2	SAP2033P-01

Vendor No	SAP No
QUICK PRESSURE	
P-000026	TPM26
P-000028	TPM28
P-000030	TPM30
P-000032	TPM32
P-000034	TPM34
P-000036	TPM36
P-000038	TPM38
P-000040	TPM40
P-000045	TPM45
P-000050	TPM50
P-000055	TPM55
P-000060	TPM60
P-000065	TPM65
P-000070	TPM70
P-000075	TPM75
P-000080	TPM80
P-000085	TPM85
P-000090	TPM90

Vendor No	SAP No
QUICK PRESSURE	
P-000095	TPM95
P-000100	TPM100
P-000105	TPM105
P-000110	TPM110
P-000115	TPM115
P-000120	TPM120
P-000130	TPM130
P-000145	TPM145
P-000150	TPM150
P-000160	TPM160
P-000165	TPM165

Vendor No	SAP No
ROCKWELL	
240R01-002	SAP2005

Vendor No	SAP No
STEWART WARNER	
990K	SAP2033S
990M	SAP2005A
990P	SAP2005B
990R	SAP2036A
990S	SAP2048

Vendor No	SAP No
TAYLOR DIESEL	
104-102	SAP2004
104-106	SAP2010
104-112	SAP2036M

Vendor No	SAP No
TELEFLEX	
1507678	SAP2005

Vendor No	SAP No
TENNANT	
768593	SAP2047G

Vendor No	SAP No
THERMO KING	
1189A70G01	SAP2010
1189A70G02	SAP2004
1189A70G03	SAP2005
1189A70G04	SAP2002

Vendor No	SAP No
VOLVO	
11603-003	SAP2010
13600-0013	SAP2033-01
3083136	SAP2033A
57713-0003	SAP2033B
8029939	SAP2033V
8076533	SAP3233
8076534	SAP3233V
8078108	SAP2033-01



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5301 NW 74 Ave Miami, Florida 33166
Phone: +1 305 594 2844 | Fax: +1 305 599 2351
Email: info@sapcorp.net

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