

M-D Pneumatics®

PD Plus

M-D Pneumatics® Positive Displacement Blowers



PD Plus Blowers

Built to Perform Even in Severe Operating Conditions

The PD Plus positive displacement blower is the leading choice for Original Equipment Manufacturers (OEM's) in a wide range of industries. With multiple configuration options, the PD Plus can be built to suit even the most difficult industrial applications.

PD Plus offers premium, high-pressure industrial rotary blowers with heavy-duty models ranging from 3.25-12" gear diameters.

TYPICAL APPLICATIONS

PNEUMATIC CONVEYING

SOLVENT & VAPOR RECOVERY

SOIL VAPOR EXTRACTION

GAS APPLICATIONS

WASTEWATER TREATMENT

CLOSED LOOP CONVEYING



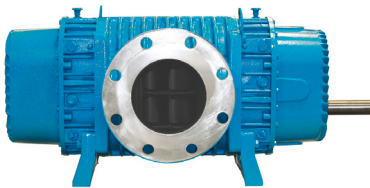
PD PLUS 3200



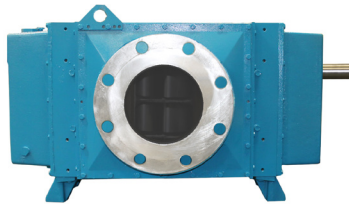
PD PLUS 4000



PD PLUS 5500



PD PLUS 7000



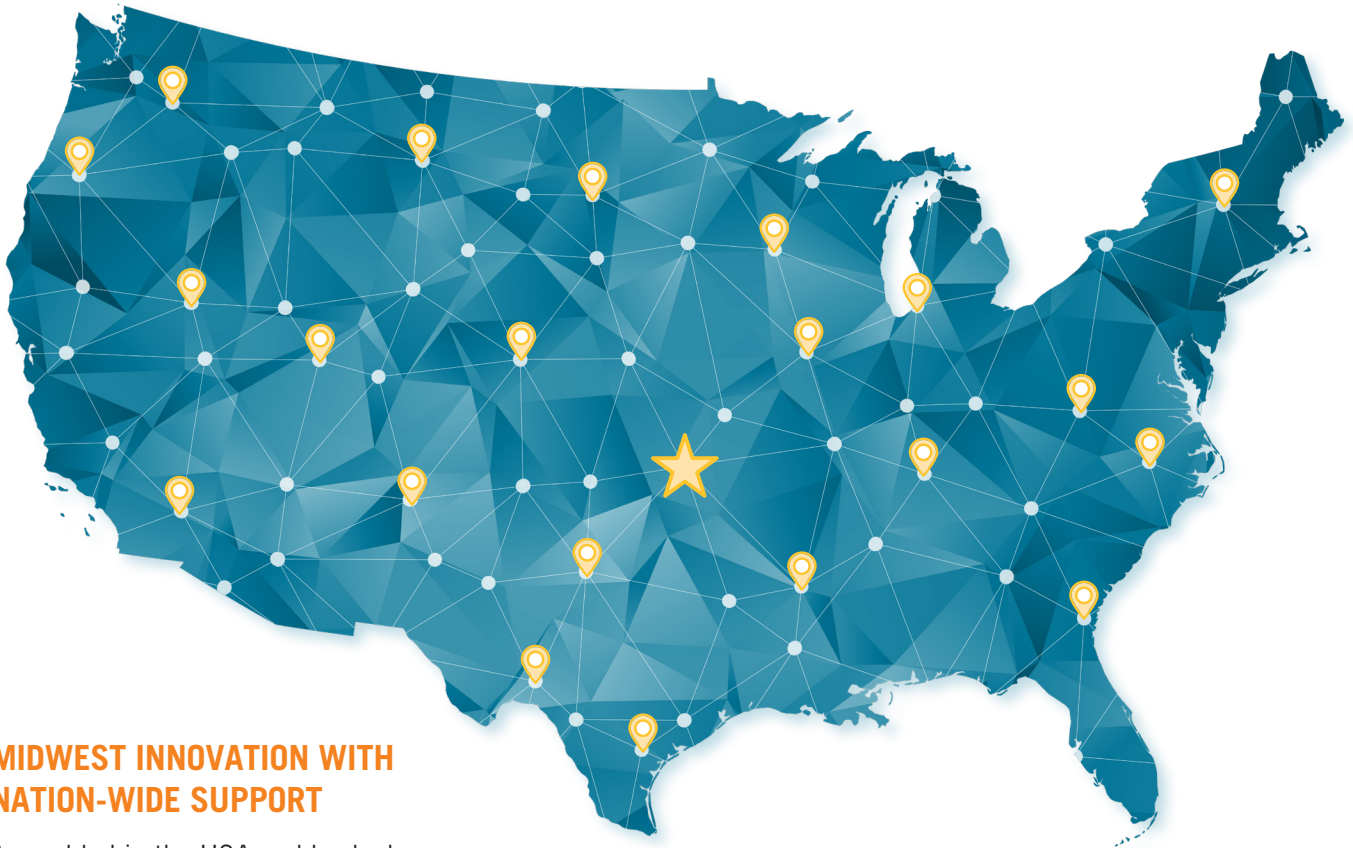
PD PLUS 9000



PD PLUS 1200



M-D Pneumatics is your *Trusted Partner* in Industrial Applications



MIDWEST INNOVATION WITH NATION-WIDE SUPPORT

Assembled in the USA and backed
by a network of experienced sales
and service professionals.



Features & Benefits

Improved Reliability:

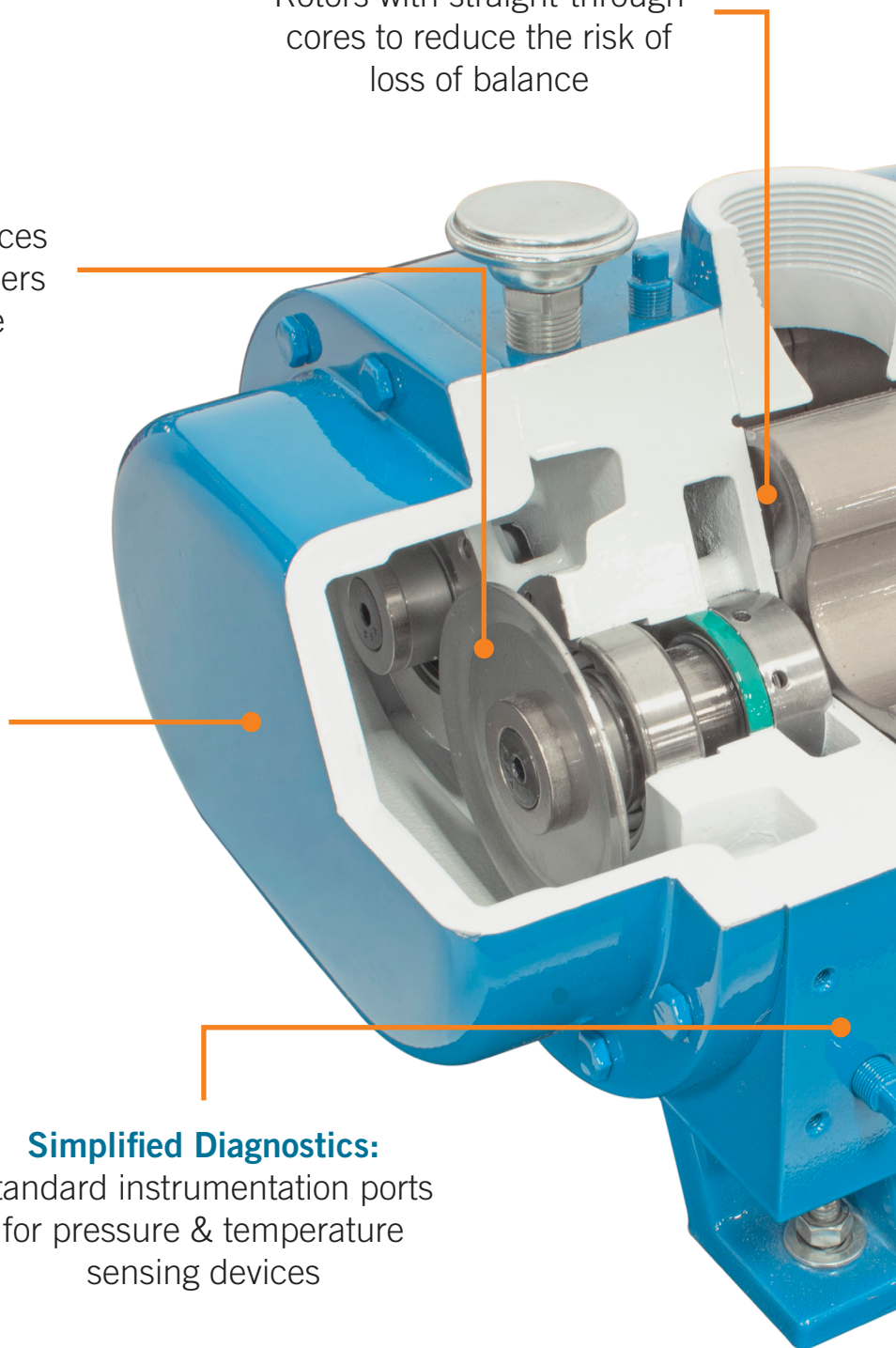
Precision machining on surfaces in contact with sealing members to reduce wear & decrease leakage risk

Increased Blower Lifespan:

Dual Splash Lubricated for longer blower life

Reduced Loss of Balance:

Rotors with straight-through cores to reduce the risk of loss of balance



DETAILS AT A GLANCE

PRESSURE Up to 18 PSI

VACUUM Up to 17 in Hg

AIR FLOW Up to 9273 CFM

WARRANTY 12 months
from first use or
24 months
from shipment

Simplified Diagnostics:

Standard instrumentation ports for pressure & temperature sensing devices

Increased Strength & Durability:

Rotors with integrally cast shafts
add robust resistance to
mechanical stress

Reduced Gear Wear:

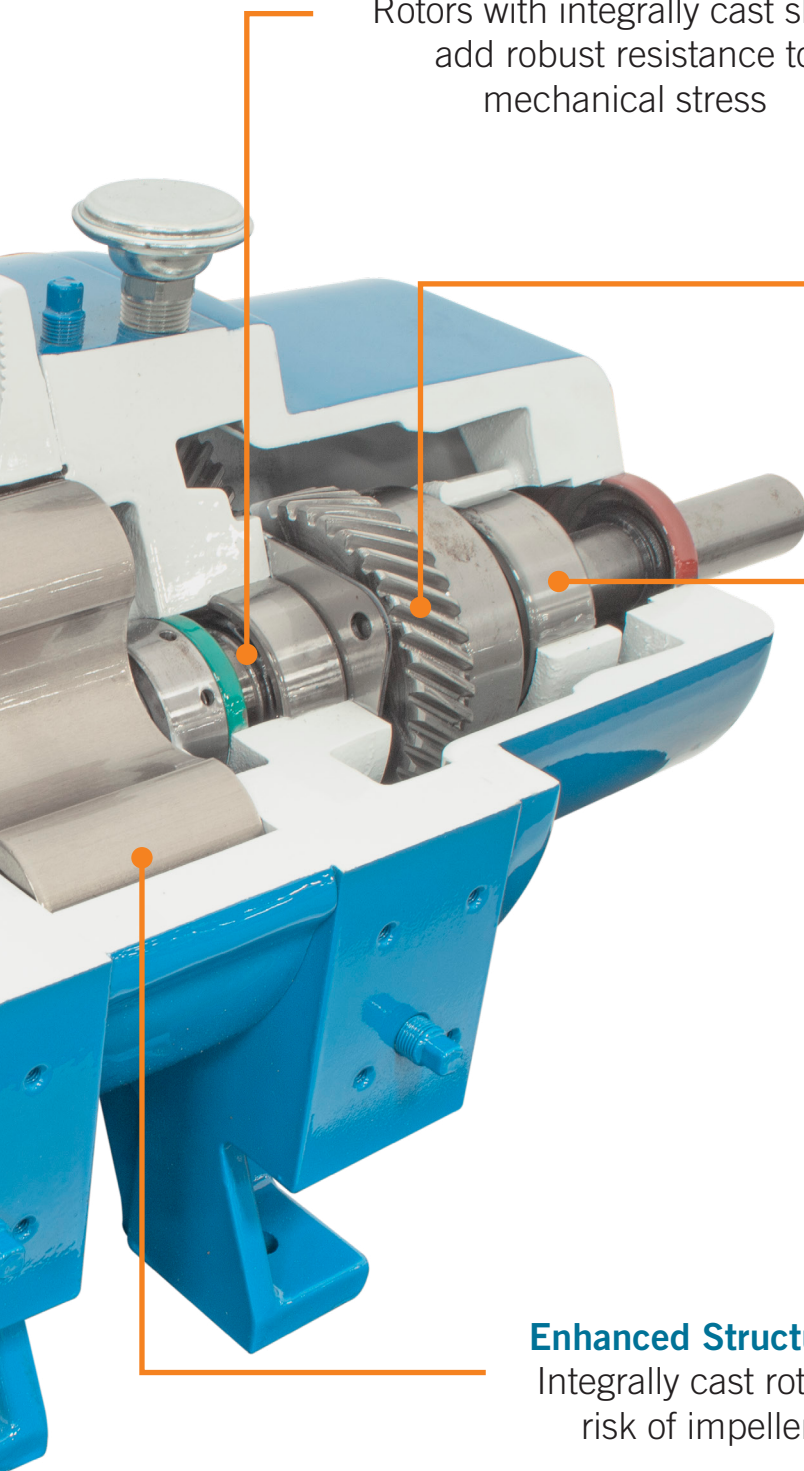
Precision timed helical gears reduce
wear on gear teeth, extending
operational lifespan

Enhanced Load Performance:

Outboard shaft bearing for increased
overhung load capacity

Enhanced Structural Integrity:

Integrally cast rotors to reduce
risk of impeller breakage



It's All About Customization

VERSATILE CASTING CHOICES

Different metals fulfill different requirements. Selecting the materials of construction best suited for your application reduces the potential for required maintenance and downtime.

CAST IRON: Standard casting material for our PD blowers. Carbon and silicon additives provide better vibration dampening when compared to ductile iron. With good wear resistance and ease of machinability, cast iron is the most affordable option.

BI-PROTECT COATED CAST IRON: Two-step coating process which layers electroless nickel and dense chrome to create a corrosion resistant surface. Economical option for those needing protection from corrosive environments.

DUCTILE IRON: Composed of iron with added magnesium content for both increased strength and ductility. Ductile iron offers improved corrosion resistance when compared to standard cast iron, and better shock absorption compared to steel.

CAST STEEL: Added carbon content changes the characteristic of the steel – resulting in stronger/harder composition. Ideal for applications where durability and strength of the blower are paramount, and corrosion resistance is not required. Cast steel is lighter than cast iron and the lowest cost of the steel forms.

STAINLESS STEEL: Increased chromium percentage results in resistance to corrosion/oxidization, especially in high-heat or oxygenated applications. With high tensile strength and low maintenance requirements, stainless steel can extend the overall life of the blower. For operations involving moisture, stainless steel is the preferred choice.



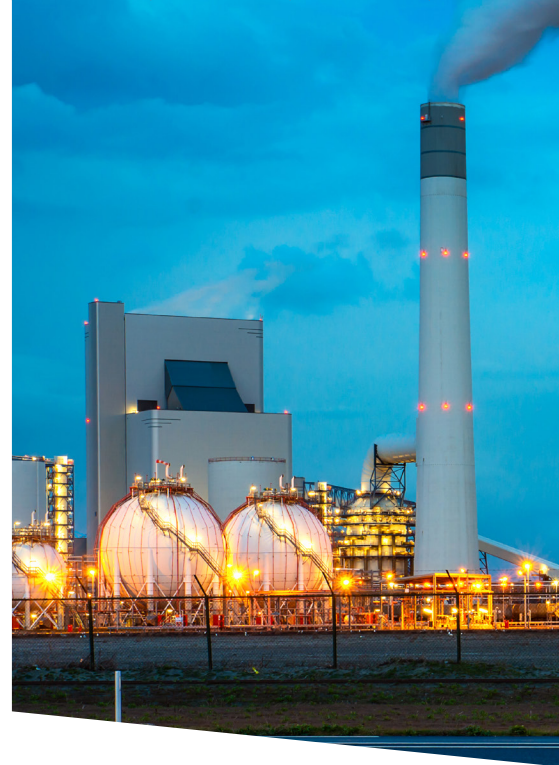
Molten metal poured into casting mold.

Model	Bi-Protect Cast Iron	Ductile Iron	Cast Steel	Stainless Steel
3202		✓		
3204	✓	✓		
3206	✓	✓		✓
3210	✓	✓	✓	✓
4009	✓	✓		✓
4012	✓	✓		
5507	✓	✓	✓	✓
5511	✓	✓		
5514	✓	✓		✓
5518	✓	✓		
7010	✓	✓		
7013	✓	✓	✓	✓
7017	✓	✓		✓
7021	✓	✓		
7026	✓	✓		
9016	✓	✓		
9020	✓	✓		
9027	✓	✓		
1215	✓	✓		
1224	✓	✓	✓	✓
1230	✓	✓		
1236	✓	✓		
1248	✓	✓		

Designed to Handle **YOUR TOUGHEST JOBS**

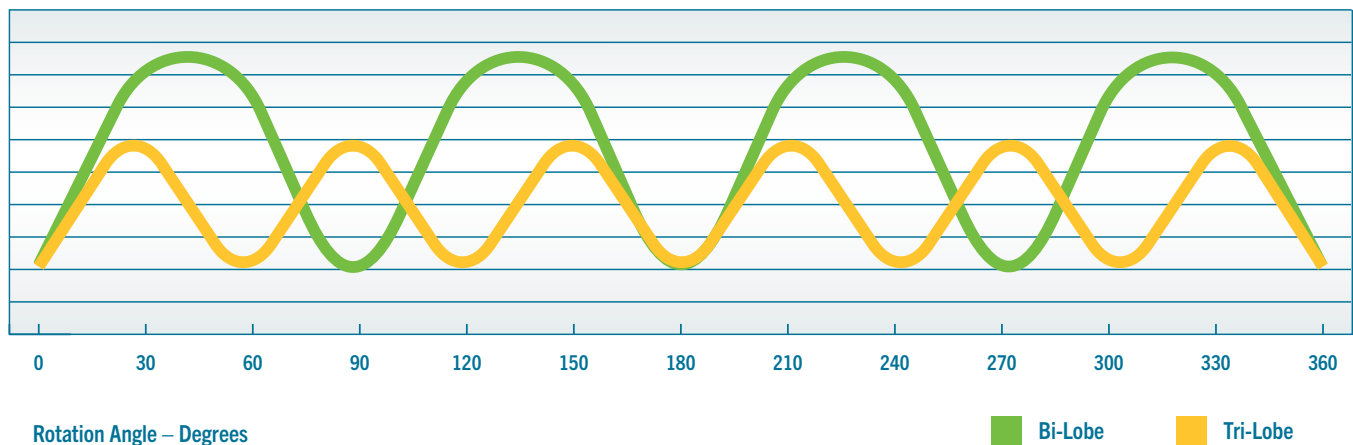
Where others can't, the PD Plus can. For industrial processes involving flammable, corrosive, toxic or other harmful substances, M-D Pneumatics customized blowers provide safe, reliable operation. With a wide range of optional features, PD Plus can be configured to meet exact requirements.

- Option to remove yellow metal
- Multiple sealing configurations for leak resistant operation
- Ductile Iron, Bi-Protect coated Cast Iron, Cast Steel and Stainless Steel housing options available for corrosion resistance
- Shock Pulse Monitor mounting for Oxygen/Hydrogen service
- Additional performance testing for applications involving volatile gases
- Optional plugged rotors for processes utilizing moisture, abrasive or corrosive materials
- Cooling coils available on 3-7" models
- Integral lube system optional 7-9" and standard on 12" models



Tailored to Perfection **THE TRI-LOBE ADVANTAGE**

Reduced Pulse = Lower Noise Levels



Reduced pulsations, smoother airflow, and the added benefit of lower noise levels. For installations where sound levels are a concern, the PD Plus with tri-lobe rotor profiles offers a solution. Tri-Lobe rotors available on select blower sizes.

SELECTING THE PROPER SEAL

CUSTOM SOLUTIONS FOR YOUR APPLICATION

Containing your process gas both extends the life of your blower and protects your environment from exposure to hazardous substances.

By creating gas tight seals, bearings and other critical components are isolated from potentially corrosive elements – reducing maintenance downtime and preserving production capacity. Mechanical seals offer an additional layer of protection in high-pressure applications as they can maintain sealing up to 100 PSI.

SINGLE ENVELOPE GAS SERVICE: Vent openings are tapped and plugged to prevent gas leakage. Fittings can also accept an inert gas purge for positive containment of process gas.

DOUBLE ENVELOPE GAS SERVICE: Built to laboratory standards where virtually complete sealing is required. In addition to the Single Envelope features series, the drive shaft is mechanically sealed and the oil sumps are plugged to provide an even higher degree of leakage protection.

Seal Lube Identifier	Description	Envelope Type	When to Use This Seal
1	Integral mechanical seal / drive lip-splash – oil	Single	Generic gas or steam in process
2	Integral Mechanical seal / drive mechanical seal – oil	Double	Process includes hydrogen, oxygen, flammable or toxic gas, or sour gas
3	Lip / lab - oil		Process uses air
5	Multi-lip / lip / oil		Process uses air
8	Integral mechanical seal / drive shaft lip – integral lube	Single	Generic gas or steam in process
9	Integral mechanical seal / drive shaft mechanical seal - integral lube	Double	Process includes hydrogen, oxygen, flammable or toxic gas, or sour gas



STEAM



CARBON DIOXIDE



METHANE



CHLORINE



OXYGEN

PROTECT YOUR INVESTMENT WITH ADVANCED SEALING TECHNOLOGY

Seal Type	Air Service	Inert Gas	Reactive Gas	Steam	Temp Range ° F
Viton Seal	✓	✓			-15° to 437°
Simriz Seal		✓	✓		5° to 550°
Kalrez Seal		✓	✓	✓	5° to 550°

The PD Plus offers a range of seals capable of operating in contact with volatile agents. Harsh chemicals can degrade sealing surfaces over time, selecting the correct elastomer will extend the seal life and reduce the chance of unwanted leaks.

Liquid Process? **PD PLUS CAN HANDLE IT**

The PD Plus can be configured to handle steam processing as well as liquid injection for deeper vacuum.

Low-pressure steam exhaust from industrial operations can be mechanically compressed and moved to other areas of the factory for use rather than vented to atmosphere. Recompression is an efficient and cost effective way to streamline your industrial operations.



Keep Your Blower Running Strong **GENUINE AFTERMARKET PARTS**

Genuine aftermarket parts are essential for maintaining the performance and reliability of industrial positive displacement blowers. Blowers play a critical role in industries where consistent airflow is necessary. Using high-quality, genuine M-D Pneumatics replacement parts—such as filters, seals, and bearings—ensures proper fit and function, reducing the risk of costly breakdowns and downtime.

Genuine aftermarket parts help maintain energy efficiency by reducing wear and preventing premature failures. In contrast, low-quality parts can cause friction, misalignment, or air leaks, leading to higher operational costs and system inefficiencies.

Benefits of Genuine Aftermarket Parts:

- Ensures proper fit and optimal performance
- Reduces downtime and costly repairs
- Maintains energy efficiency and airflow
- Prevents premature wear and failures
- Extends the blower's service life



Performance Tables

In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data are approximate. Request a quotation for your specific application.

Pressure (14.70 PSIA and 70° F Inlet)

Model	Speed (RPM)	2 PSIG		5 PSIG		8 PSIG		10 PSIG		12 PSIG		14 PSIG		15 PSIG		Max. Vacuum		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	" Hg	CFM	BHP
3202	1150	17	0.9	8	1.3	-	-	-	-	-	-	-	-	-	-	8	7	1.2
	1750	34	1.4	25	2.0	18	2.7	-	-	-	-	-	-	-	-	11	17	2.1
	2950	67	2.4	58	3.4	52	4.5	48	5.2	45	6.0	-	-	-	-	14	43	4.1
	3600	85	2.9	76	4.2	70	5.5	66	6.4	63	7.3	60	8.2	59	8.6	15	59	5.2
3204	1150	29	1.1	16	1.8	-	-	-	-	-	-	-	-	-	-	8	14	1.5
	1750	56	1.7	43	2.7	33	3.7	-	-	-	-	-	-	-	-	11	31	2.8
	2950	110	2.8	97	4.5	87	6.3	82	7.4	77	8.6	72	9.7	-	-	14	75	5.6
	3600	139	3.4	126	5.5	116	7.7	111	9.1	106	11	101	12	99	13	15	100	7.2
3206	1150	45	1.3	26	2.3	-	-	-	-	-	-	-	-	-	-	9	20	2.1
	1750	86	2.0	67	3.5	53	5.1	46	6.1	-	-	-	-	-	-	12	46	4.0
	2950	167	3.4	148	6.0	134	8.6	127	10	120	12	113	14	-	-	15	111	8.0
	3600	211	4.1	192	7.3	178	11	170	13	163	15	157	17	154	18	15	155	9.8
3210	1150	80	1.8	51	3.4	-	-	-	-	-	-	-	-	-	-	9	42	3.1
	1750	147	2.7	118	5.2	98	7.8	86	9.5	-	-	-	-	-	-	12	87	6.0
	2950	281	4.5	253	8.8	232	13	221	16	210	19	200	2	196	23	15	197	12
	3600	354	5.5	326	11	305	16	293	20	283	23	273	27	269	28	15	270	15

Model	SPEED (RPM)	2 PSIG		5 PSIG		8 PSIG		10 PSIG		12 PSIG		15 PSIG		18 PSIG		Max. Vacuum		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	" Hg	CFM	BHP
4009	1150	111	2.5	75	4.7	49	7	-	-	-	-	-	-	-	-	10	54	4.7
	1450	156	3.1	120	5.9	94	8.8	80	11	-	-	-	-	-	-	12	81	6.8
	1750	201	3.7	165	7.2	139	11	125	13	112	15	-	-	-	-	14	106	9.3
	2950	381	6.3	345	12	319	18	305	22	292	26	274	31	258	37	16	264	18
	3600	478	7.7	443	15	417	22	402	27	389	32	372	38	355	45	17	349	23
4012	1150	155	3	111	6	80	9	-	-	-	-	-	-	-	-	8	107	5
	1450	215	4	171	8	140	11	122	14	-	-	-	-	-	-	11	135	8
	1750	275	5	231	9	200	14	182	17	166	20	-	-	-	-	12	184	11
	2950	515	8	471	15	440	23	422	28	406	33	385	41	-	-	13	412	19
	3600	645	9	601	19	570	28	552	34	536	41	515	50	-	-	15	516	26

Model	SPEED (RPM)	5 PSIG		8 PSIG		10 PSIG		12 PSIG		13 PSIG		15 PSIG		17 PSIG		18 PSIG		Max. Vacuum		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	" Hg	CFM	BHP
5507	1150	155	7.2	124	11	107	13	91	15	-	-	-	-	-	-	-	-	13	97	8.8
	1750	296	11	265	16	248	20	232	24	225	25	211	29	-	-	-	-	15	213	15
	3600	730	22	700	34	683	41	667	48	660	52	646	59	633	67	627	70	17	619	35
5511	1150	239	9.9	197	15	173	19	152	22	-	-	-	-	-	-	-	-	13	159	12
	1750	446	15	404	23	380	28	359	34	349	36	330	41	-	-	-	-	15	332	21
	3600	1084	31	1042	47	1018	58	997	69	987	74	968	85	950	96	-	-	17	931	49
5514	1150	309	12	257	19	228	23	234	28	-	-	-	-	-	-	-	-	13	210	15
	1750	573	19	521	29	492	36	465	42	453	46	-	-	-	-	-	-	15	432	27
	3600	1387	39	1335	59	1306	73	1279	87	1267	94	-	-	-	-	-	-	15	1246	55
5518	1150	410	15	346	24	310	30	-	-	-	-	-	-	-	-	-	-	13	289	
	1750	749	24	685	36	649	45	-	-	-	-	-	-	-	-	-	-	15	576	38
	3600	1794	48	1730	75	1695	93	-	-	-	-	-	-	-	-	-	-	15	1621	69

Model	SPEED (RPM)	2 PSIG		5 PSIG		8 PSIG		10 PSIG		12 PSIG		15 PSIG		18 PSIG		Max. Vacuum		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	" Hg	CFM	BHP
7010	1200	586	8.5	513	18	460	27	430	33	403	40	367	49	-	-	15	370	25
	1750	912	13	839	26	786	40	756	49	730	58	693	71	660	85	16	672	39
	2400	1297	17	1224	36	1172	54	1142	67	1115	79	1079	98	1046	116	17	1032	57
	3000	1653	21	1580	45	1527	68	1498	83	1471	99	1434	122	1402	145	17	1388	71
7013	1200	749	10	660	22	596	34	560	42	527	50	483	61	-	-	15	486	31
	1750	1163	15	1074	32	1010	49	974	61	941	72	897	89	857	107	16	871	49
	2400	1652	20	1563	44	1499	68	1462	83	1430	99	1385	123	1345	146	17	1329	70
	3000	2103	26	2014	55	1950	85	1914	104	1881	124	1837	153	1797	183	17	1780	88
7017	1200	985	13	872	28	790	44	744	54	703	64	647	79	-	-	15	651	40
	1750	1526	18	1413	41	1331	63	1285	78	1244	93	1187	116	-	-	16	1155	62
	2400	2165	25	2051	56	1970	87	1924	108	1882	128	1826	159	-	-	17	1754	91
	3000	2754	32	2641	70	2560	109	2514	134	2472	160	2416	199	-	-	17	2344	113
7021	1200	1225	15	1090	34	993	53	939	66	889	79	822	98	-	-	15	827	49
	1750	1893	22	1758	50	1661	78	1606	96	1557	115	1490	142	-	-	15	1495	72
	2400	2682	30	2547	68	2450	106	2395	132	2346	157	2279	195	-	-	15	2284	98
	3000	3410	38	3276	85	3178	133	3124	165	3074	196	3007	244	-	-	15	3012	123
7026	1200	1527	18	1367	42	1251	65	1186	81	1127	97	-	-	-	-	14	1101	56
	1750	2354	26	2193	61	2078	95	2012	118	1953	141	-	-	-	-	15	1879	88
	2400	3331	36	3170	83	3055	131	2989	162	2930	193	-	-	-	-	15	2856	121
	3000	4233	45	4072	104	3956	163	3891	202	3832	242	-	-	-	-	15	3758	151

Model	SPEED (RPM)	2 PSIG		5 PSIG		8 PSIG		10 PSIG		12 PSIG		14 PSIG		15 PSIG		Max. Vacuum		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	" Hg	CFM	BHP
9016	600	497	19	419	30	375	37	-	-	-	-	-	-	-	-	13	349	24
	1150	1224	37	1146	57	1101	70	1062	83	1043	90	1025	97	1008	103	15	1011	53
	1450	1620	47	1542	72	1498	88	1458	105	1439	113	1421	122	1404	130	15	1408	66
	1750	2016	56	1938	86	1894	107	1854	127	1835	137	1817	147	1800	157	15	1804	80
	2400	2875	77	2797	119	2753	146	2713	174	2694	188	2676	202	2659	215	15	2663	110
9020	600	652	25	550	38	492	47	-	-	-	-	-	-	-	-	13	458	31
	1150	1605	47	1503	73	1445	91	1393	108	1368	117	1345	125	1322	134	15	1327	68
	1450	2125	60	2023	92	1965	114	1913	136	1888	147	1864	158	1842	169	15	1847	86
	1750	2645	72	2543	112	2485	138	2432	165	2408	178	2384	191	2362	204	15	2367	103
	2400	3772	99	3669	153	3611	189	3559	226	3534	244	3511	262	3488	280	15	3493	142
9027	600	870	32	733	50	656	62	-	-	-	-	-	-	-	-	13	610	41
	1150	2141	62	2004	97	1927	120	1857	143	1824	154	1793	166	1763	178	15	1769	89
	1450	2834	78	2697	122	2620	151	2550	180	2518	195	2486	209	2456	224	15	2463	112
	1750	3527	94	3391	147	3313	182	3244	217	3211	235	3180	253	3149	270	15	3156	136
	2400	5030	129	4893	201	4816	250	4746	298	4713	322	4682	347	4651	371	15	4658	186

Model	SPEED (RPM)	2 PSIG		6 PSIG		9 PSIG		10 PSIG		12 PSIG		14 PSIG		15 PSIG		Max. Vacuum		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	In. Hg	CFM	BHP
1215	600	1025	15	806	38	689	56	655	61	-	-	-	-	-	-	12	661	38
	1200	2351	30	2131	77	2015	111	1980	123	1916	146	1857	169	1829	181	15	1836	93
	1800	3676	46	3457	115	3340	167	3306	184	3242	219	3183	254	3155	271	15	3161	139
1224	600	1661	22	1324	59	1145	87	1092	96	-	-	-	-	-	-	13	1027	63
	1200	3781	44	3444	118	3265	174	3213	192	3115	229	3024	266	2982	285	15	2991	144
	1800	5901	66	5565	177	5385	261	5333	288	5235	344	5145	399	5102	427	15	5111	215
1230	600	2076	27	1655	73	1431	108	1365	119	-	-	-	-	-	-	13	1284	78
	1200	4727	54	4306	146	4082	215	4016	238	3894	285	3781	331	3727	354	15	3739	178
	1800	7378	80	6957	219	6733	323	6667	358	6544	427	6432	496	-	-	15	6390	267
1236	600	2506	31	2012	87	1749	129	-	-	-	-	-	-	-	-	12	1685	85
	1200	5686	63	5193	174	4930	257	-	-	-	-	-	-	-	-	12	4866	171
	1800	8867	94	8373	261	8111	385	-	-	-	-	-	-	-	-	12	8046	256
1248	600	3361	41	2717	115	-	-	-	-	-	-	-	-	-	-	10	2552	94
	1200	7602	81	6958	229	-	-	-	-	-	-	-	-	-	-	10	4524	189
	1400	9016	95	8372	267	-	-	-	-	-	-	-	-	-	-	10	8206	220



M-D Pneumatics®

LOCAL CONTACT:

www.md-kinney.com