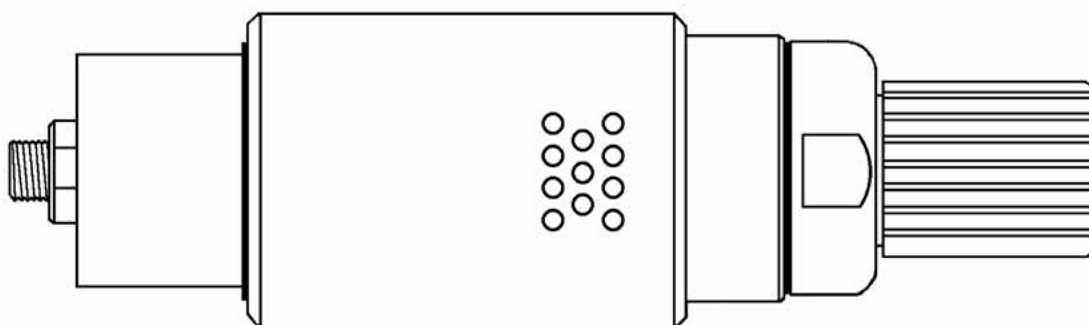


Parts Manual
PL70-1043EN
07/14/2015

Cleco®

24-1312N60
Rotary Vane Pneumatic Motor



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Model Nomenclature:

Model	Spindle	Free Speed (RPM)	Exhaust
24-1312N-60	1/2-20 External	3675	Side - Shielded

Cleco®

24-1312N60 Rotary Vane Motor

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The original language of this manual is English.

Product Safety Information:

Intended Use:

This pneumatic motor is to be used exclusively as a power source to be integrated into an application.

For additional product safety information refer to Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG document CE-2005, General Safety Instructions for Air Motors.



WARNING

The motor must not be modified in any manner unless approved in writing by Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG. All safety devices must be properly installed and maintained in good working order.

Declaration of Incorporation:

We affirm that this machine complies with the basic requirements of the following directives (2006/42/EC) and is intended for installation / assembly in a / with other machine(s). Commissioning of the incomplete machine is prohibited until such time that the incomplete machine has been incorporated in a machine that complies with the EC Machinery Directive 2006/42/EC and for which there is an EC Declaration of Conformity in accordance with Appendix II A. We furthermore declare that the special technical documentation for the incomplete machine is in accordance with Appendix VII Part B. We undertake to have it passed on to the market surveillance body upon request by our representative for the compilation of technical documentation. The following Sections of Appendix I of Directive 2006/42/EC have been fulfilled: 1.1.2, 1.1.3, 1.1.5, 1.3.2, 1.3.4, 1.5. Applied harmonized standards are ISO 12100-1: 2004-04, ISO 12100-2:2004-04.

The name, job function and address of the person authorized to compile the technical file.

Mr. Vishnu Irigreddy
Director of Global R&D- Mechanical Engineering
Apex Tool Group
670 Industrial Drive
Lexington, SC 29072

Signature: Vishnu Irigreddy
Date: July 14, 2015

Air Line Lubrication:

Use Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG's lightweight air tool oil 500021 (available in quantities shown in the following chart) or an SAE-5 lightweight spindle oil.

Part No.	Packaged	Designation
540397	1 Quart (0.94 liter)	Airlube 10W/NR-420LB DR
533485	1 US Gallon (3.78 liter)	Airlube 10W/NR-420LB DR

Recommended Grease:

Part No.	Packaged	Designation
540450	18 oz. (0.51 kg)	Black Pearl EP-NLGI-0
540395	2 oz. (0.06 kg)	Magnalube-G
513156	16 oz. (0.45 kg)	Magnalube-G
541444	2 oz. (0.06 kg)	Rheolube 363AX-1
541445	16 oz. (0.45 kg)	Rheolube 363AX-1

Air Supply Line:

Parameter	Description
Air Hose	Air inlet inside diameter: 1/2" (12,7 mm) Maximum length: 16.4' (5 m)
Air Pressure	Recommended: 90 psi (620 kPa)
Compressed air	Air quality according to ISO 8573-1, quality class 2.4.3 The compressed air must be clean and dry.

Service and Repair:

Tool service and repair should be performed by an authorized Apex Tool Group, LLC or Apex Tool Group GmbH & Co. OHG Center. Refer to the last page of this manual for locations.

Disposal:



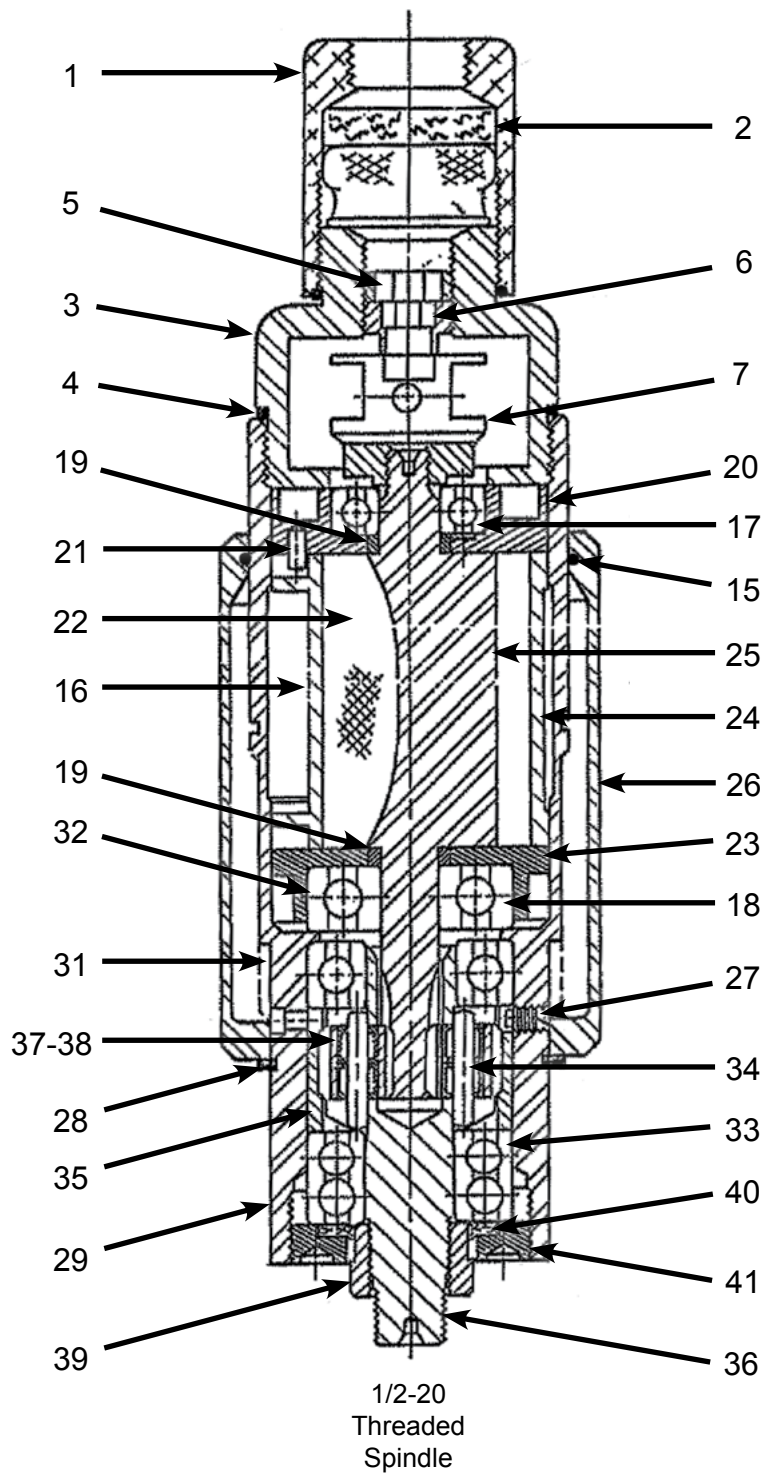
Observe local disposal guidelines for all components of this tool and its packaging.

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Cleco®
24-1312N60 Rotary Vane Motor

"A"



Cleco®
24-1312N60 Rotary Vane Motor

PL70-1043EN
07/14/2015

Illustration "A"

Ref	Number	#	X	EN
				Description
1	3057	1		Rear Adapter
2	4293	1	3	Air Filter Disc
3	4063PT	1		Governor Housing (includes Ref. 4-6)
4	3036PT	1	3	O-Ring
5	3262PT	1		Governor Nozzle
6	3263PT	1		Nozzle Locknut
7	3260S	1		Governor Module (includes Ref. 8-14)
8	2560 *	1		Governor Module Cover (not shown)
9	2889 *	2		Steel Ball (not shown)
10	3253PT *	1		Governor Module Carrier (not shown)
11	3277 *	2		Roller Pin (not shown)
12	3256	1		Governor Weight (not shown)
13	4179 *	1		Governor Spring (not shown)
14	5223 *	2		Socket Head Cap Screw (not shown)
15	4183	1	3	O-Ring
16	4416B	1		Motor Assembly (includes Ref. 17-25)
17	500PT	1	2	Bearing
18	535	1	2	Bearing
19	2017PT	2		Spacer
20	4168	1		Rear Bearing Plate (includes Ref. 21)
21	3062	1		Roll Pin
22	4171	3	9	Rotor Blade
23	4172	1		Front Bearing Plate
24	4189	1		Cylinder
25	4291S **	1		Rotor
26	7961	1		Exhaust Shield
27	2831	1	2	Set Screw (#10-32)
28	5188	1	2	Retaining Ring (External)
29	4156	1		Motor Housing (includes Ref. 30)
30	1463PT	1		Grease Fitting (not shown)
31	8019B	1		Planetary Gear Assembly (includes Ref. 32-40)
32	556	1	2	Bearing
33	557	1	2	Double Bearing
34	2509PT	3	6	Planetary Gear Shaft
35	2533PT	1		Ring Gear
36	8016PT	1		Planetary Gear Carrier
37	2956	3	6	Planetary Gear (includes Ref. 38)
38	1464	6		Needle Bearing
39	8017	1		Lock Nut
40	8018PT	1	3	Filter Disc
41	4470	1		Lock Ring

(#) Quantity

(X) Recommended Spare Parts (quantity shown based on 1-5 tools in operation)

* Note: Parts may not be ordered individually - order 3260S Governor Module

** Note: For service, order 4291 rotor which includes 2017PT spacer (2)



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POWER TOOLS SALES & SERVICE CENTERS

Please note that all locations may not service all products.

Contact the nearest Apex Tool Group Sales & Service Center for the appropriate facility to handle your service requirements.

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