

Production Air Motors

DOBCO
EQUIPMENT LTD

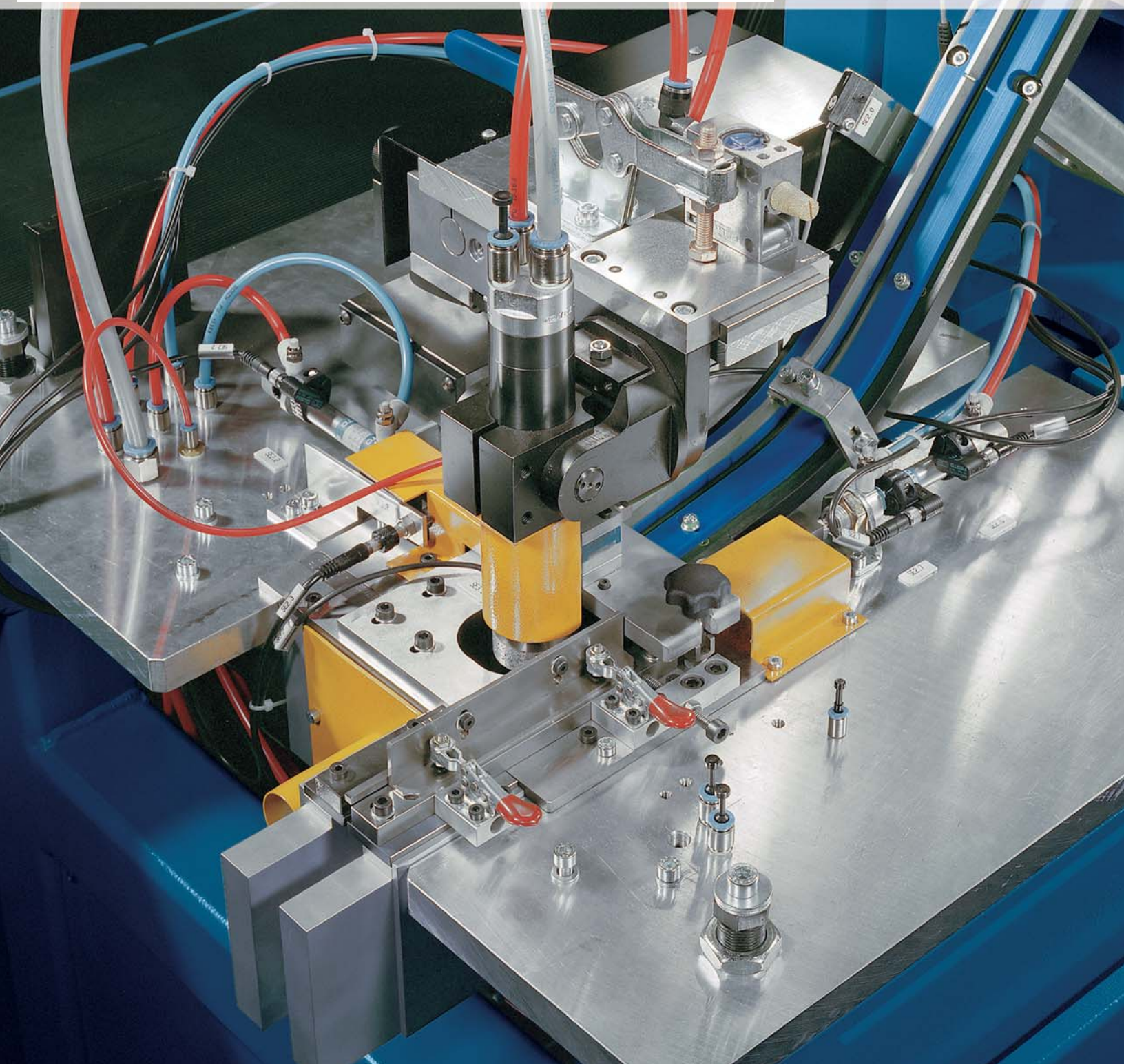
Ontario's Largest
Pneumatic & Hydraulic Tool Distributor

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BOSCH

Invented for life



Rugged Air Motors for Continuous Industrial Applications



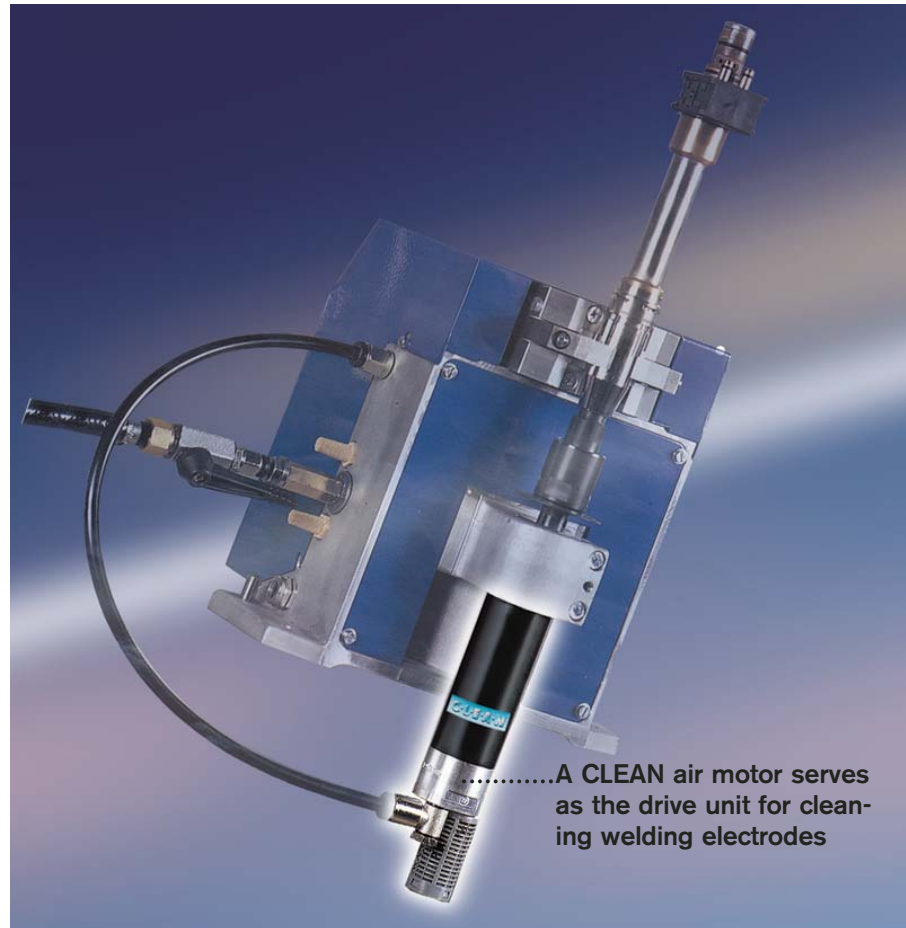
Bosch production air motors are safe, versatile and extremely durable. They are ideal for the tough demands of industrial and manufacturing applications where reliability and long-term durability are critical. Bosch air motor technology offers a wide range of advantages: Air motors don't create sparks and are ideal in hazardous environments (such as explosive gases or grain dust), and are great in damp or wet environments. Production air motors don't burn out like electric motors, either. Bosch air motors are great as drives for a wide range of applications, including paint stirring, ice cream production, baked goods/grain mixing, hose retraction systems, tensioning belt controls on packaging machines, pumping fuel, lifting/lowering material containers with chain drives, and various assembly line servomotor functions.



- C** Consumption optimized
- L** Lubrication free
- E** Ergonomic
- A** Air tool
- N** Noise reduction

Bosch C·L·E·A·N Technology: What is it, and what are the advantages?

C·L·E·A·N is actually an acronym that denotes several technical features of part of our range of air tools and air motors. C·L·E·A·N technology protects the workpiece, the tool user and the environment by eliminating the need for auto-

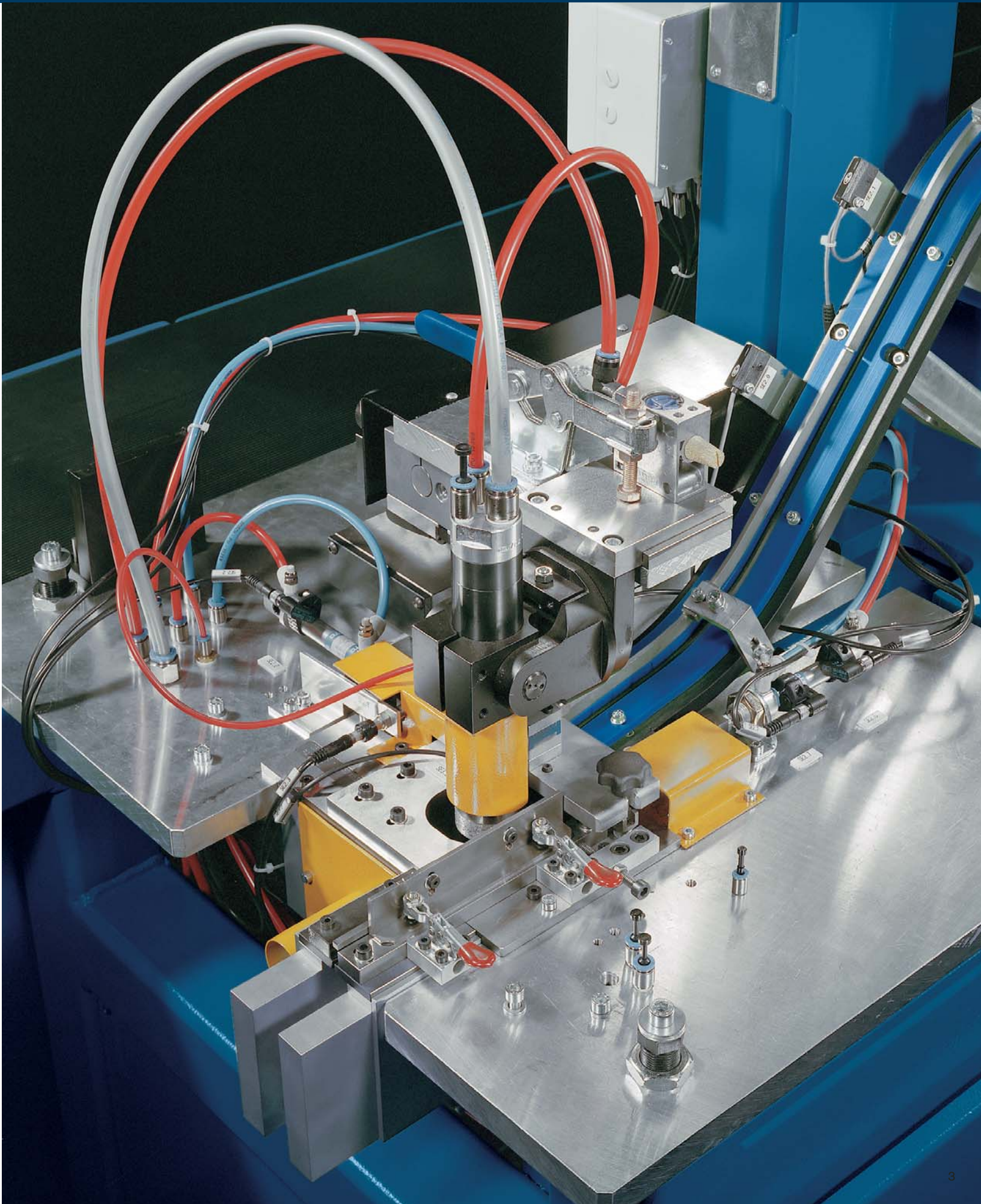


.....A CLEAN air motor serves as the drive unit for cleaning welding electrodes








matic oilers, reducing air consumption and reducing tool noise.

C·L·E·A·N motors NEVER need oil, but are not affected by existing oilers in a facility! C·L·E·A·N technology reduces tool air consumption by up to 30%, (reducing facility energy costs) and reduces tool noise by several decibels depend-

ing on application. Look for the C·L·E·A·N symbol in this catalog; it will save you money, energy and repair time while reducing worker complaints based on noise and air pollution in the workplace.


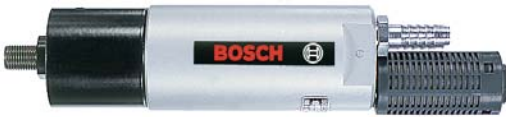





from 100 to 370 W (0.134 to 0.5 Hp)

	Tool part number	Stalling torque (Nm/lb-ft)	Idle speed (rpm)	Rotation (R = right, L = left)	Power output (watts/horsepower)
 100–120 Watt, 0.13–0.16 Hp Motors	0 607 954 306	2.0/1.5	1850	R/L	100/0.134
	0 607 954 307	0.9/0.7	4100	R/L	100/0.134
	0 607 954 304	2.1/1.5	2200	R	120/0.16
	0 607 954 305	1.0/0.7	4900	R	120/0.16
  180 Watt, 1/4 Hp Motors	0 607 953 335	6.5/4.8	620	R/L	180/0.24
	0 607 953 336	4.5/3.3	1000	R/L	180/0.24
	0 607 953 337	3.0/2.0	1600	R/L	180/0.24
	0 607 953 338	1.5/1.1	2800	R/L	180/0.24
	0 607 953 340	1.0/0.7	3800	R/L	180/0.24
	0 607 953 331	7.7/5.7	740	R	180/0.24
	0 607 953 332	4.7/3.5	1190	R	180/0.24
	0 607 953 333	3.2/2.4	1875	R	180/0.24
	0 607 953 334	1.6/1.2	3300	R	180/0.24
	0 607 953 339	1.1/0.8	4500	R	180/0.24
	0 607 953 346	4.5/3.3	1000	R/L	180/0.24
0 607 953 348	1.5/1.1	2800	R/L	180/0.24	
 300–340 Watt, 0.4–0.46 Hp Motors	0 607 951 322	22.0/16.2	540	R	300/0.4
	0 607 951 304	25.0/18.4	490	R/L	340/0.46
	0 607 951 305	15.0/11.1	780	R/L	340/0.46
	0 607 951 306	9.0/6.6	1400	R/L	340/0.46
	0 607 951 307	4.5/3.3	2700	R/L	340/0.46
 340 Watt, 0.46 Hp Motors	0 607 951 314	25.0/18.4	490	R/L	340/0.46
	0 607 951 315	15.0/11.1	780	R/L	340/0.46
	0 607 951 316	9.0/6.6	1400	R/L	340/0.46
 340 Watt, 0.46 Hp Motors	0 607 951 318	25.0/18.4	490	R/L	340/0.46
	0 607 951 325	25.0/18.4	490	R/L	340/0.46
	0 607 951 326	9.0/6.6	1400	R/L	340/0.46
 340 Watt, 0.46 Hp Motors	0 607 951 323	25.0/18.4	490	R/L	340/0.46

Air consumption under load (l/s)	Air consumption under load (cfm)	Weight (kg/lbs)	Spindle dimensions	Air inlet thread	Inner hose diameter (mm)	Features	Included accessories	Accessory Part numbers
5.0	10.6	0.37/0.82	3/8"-24 UNF-2A	G 1/8"	6	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 250$ N Max. radial load on motor shaft $F_{RA} = 10$ N	Barbed hose nipple	3 603 386 002
5.0	10.6	0.32/0.71	3/8"-24 UNF-2A	G 1/8"	6		Silencer G 1/4"	3 607 000 016
4.5	9.5	0.37/0.82	3/8"-24 UNF-2A	G 1/8"	6			
4.5	9.5	0.32/0.71	3/8"-24 UNF-2A	G 1/8"	6			
5.5	11.6	0.68/1.50	3/8"-24 UNF-2A	G 1/8"	6	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 400$ N Max. radial load on motor shaft $F_{RA} = 16$ N	Barbed hose nipple	3 603 386 002
5.5	11.6	0.68/1.50	3/8"-24 UNF-2A	G 1/8"	6		Silencer G 1/4"	3 607 000 016
5.5	11.6	0.60/1.32	3/8"-24 UNF-2A	G 1/8"	6			
5.5	11.6	0.68/1.50	3/8"-24 UNF-2A	G 1/8"	6			
5.5	11.6	0.60/1.32	3/8"-24 UNF-2A	G 1/8"	6			
5.0	10.6	0.68/1.50	3/8"-24 UNF-2A	G 1/8"	6			
5.0	10.6	0.68/1.50	3/8"-24 UNF-2A	G 1/8"	6			
5.0	10.6	0.60/1.32	3/8"-24 UNF-2A	G 1/8"	6			
5.0	10.6	0.60/1.32	3/8"-24 UNF-2A	G 1/8"	6			
5.0	10.6	0.60/1.32	3/8"-24 UNF-2A	G 1/8"	6			
5.5	11.6	0.68/1.50	10-h6 spindle	G 1/8"	6	Motors ...346 and ...348 have extended shaft (see photo on left)		
5.5	11.6	0.60/1.32	10-h6 spindle	G 1/8"	6			
9.0	19.1	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 850$ N Max. radial load on motor shaft $F_{RA} = 34$ N Motor 0 607 951 322 features a pressurized rotor & vanes (inlet air pressure forces the vanes outward) for improved starts under load	Barbed hose nipple	3 603 386 005
10.5	22.2	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8		Silencer G 3/8"	3 607 000 001
10.5	22.2	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8			
10.5	22.2	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8			
10.5	22.2	0.80/1.76	3/8"-24 UNF-2A	G 1/8"	8			
10.5	22.2	0.87/1.92	3/8" Square	G 1/8"	8	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 850$ N Max. radial load on motor shaft $F_{RA} = 34$ N	Barbed hose nipple	3 603 386 005
10.5	22.2	0.87/1.92	3/8" Square	G 1/8"	8		Silencer G 3/8"	3 607 000 001
10.5	22.2	0.87/1.92	3/8" Square	G 1/8"	8			
10.5	22.2	0.90/1.98	10-h6 spindle	G 1/8"	8	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 850$ N Max. radial load on motor shaft $F_{RA} = 34$ N	Barbed hose nipple	3 603 386 005
10.5	22.2	0.90/1.98	12-h6 spindle	G 1/8"	8		Silencer G 3/8"	3 607 000 001
10.5	22.2	0.90/1.98	12-h6 spindle	G 1/8"	8			
						Motors ...318, 325, 326 have extended shaft (see photo on left)		
10.5	22.2	0.98/2.16	3/8" Square with sliding spindle (10 mm stroke)	G 1/8"	8	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 850$ N Max. radial load on motor shaft $F_{RA} = 34$ N	Barbed hose nipple	3 603 386 005
							Silencer G 3/8"	3 607 000 001

from 340 to 740 W (0.46 to 1Hp)

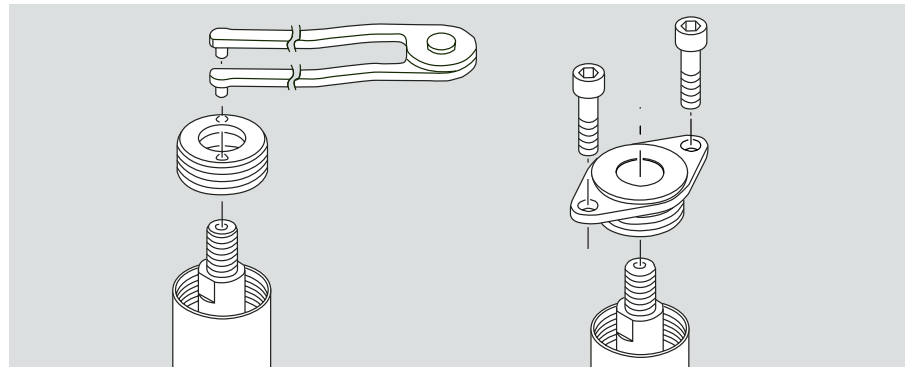
	Tool part number	Stalling torque (Nm/lb-ft)	Idle speed (rpm)	Rotation (R = right, L = left)	Power output (watts/horsepower)
 370 Watt, 0.5 Hp Motors	0 607 951 300	25.0/18.4	600	R	370/0.5
	0 607 951 301	15.0/11.1	930	R	370/0.5
	0 607 951 302	9.0/6.6	1620	R	370/0.5
	0 607 951 303	4.5/3.3	3300	R	370/0.5
	0 607 951 311	25.0/18.4	600	R	370/0.5
	0 607 951 312	15.0/11.1	930	R	370/0.5
	0 607 951 313	9.0/6.6	1620	R	370/0.5
 550 Watt, 0.74 Hp Motors	0 607 952 303	28.0/20.7	650	R/L	500/0.54
	0 607 952 304	15.5/11.4	1150	R/L	500/0.54
	0 607 952 305	6.5/4.8	2700	R/L	500/0.54
	0 607 952 300	28.0/20.7	760	R	550/0.74
	0 607 952 301	15.5/11.4	1350	R	550/0.74
	0 607 952 302	6.5/4.8	3000	R	550/0.74
	 620 Watt, 0.83 Hp Motors	0 607 957 301	36.0/26.6	610	R/L
0 607 957 308		90.0/66.4	250	R/L	620/0.83
0 607 957 309		65.0/47.9	340	R/L	620/0.83
0 607 957 310		36.0/26.6	610	R/L	620/0.83
0 607 957 315		36.0/26.6	610	R/L	620/0.83
0 607 957 317		160/118	120	R/L	620/0.83
 740 Watt, 1.0 Hp Motors		0 607 957 300	36.0/26.6	720	R
 740 Watt, 1.0 Hp Motors	0 607 957 314	170.0/125.4	140	R	740/1.0
	0 607 957 305	90.0/66.4	290	R	740/1.0
	0 607 957 306	65.0/47.9	400	R	740/1.0
	0 607 957 307	36.0/26.6	720	R	740/1.0

Air consumption under load (l/s)	Air consumption under load (cfm)	Weight (kg/lbs)	Spindle dimensions	Air inlet thread	Inner hose diameter (mm)	Features	Included accessories	Accessory Part numbers
9.0	19.1	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 850$ N Max. radial load on motor shaft $F_{RA} = 34$ N	Barbed hose nipple	3 603 386 005
9.0	19.1	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8		Silencer G 3/8"	3 607 000 001
9.0	19.1	0.90/1.98	3/8"-24 UNF-2A	G 1/8"	8			
9.0	19.1	0.80/1.76	3/8"-24 UNF-2A	G 1/8"	8			
9.0	19.1	0.87/1.92	3/8" Square	G 1/8"	8			
9.0	19.1	0.87/1.92	3/8" Square	G 1/8"	8			
9.0	19.1	0.87/1.92	3/8" Square	G 1/8"	8			
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13.5	28.6	1.40/3.09	1/2"-20 UNF-2A	G 1/4"	10	Operated by external control valve not supplied by Bosch. Motor exhausts through the unused air inlet (if motor rotates right, exhaust comes out the left port) Max. axial load on motor shaft $F_{AX} = 1250$ N Max. radial load on motor shaft $F_{RA} = 50$ N	Barbed hose nipple	3 603 386 000
13.5	28.6	1.40/3.09	1/2"-20 UNF-2A	G 1/4"	10		Silencer G 1/2"	3 607 000 000
13.5	28.6	1.20/2.65	1/2"-20 UNF-2A	G 1/4"	10			
12.0	25.4	1.40/3.09	1/2"-20 UNF-2A	G 1/4"	10			
12.0	25.4	1.40/3.09	1/2"-20 UNF-2A	G 1/4"	10			
12.0	25.4	1.20/2.65	1/2"-20 UNF-2A	G 1/4"	10			
<hr/>								
17.5	37.0	1.32/2.91	1/2"-20 UNF-2A	G 1/4"	10	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 1550$ N Max. radial load on motor shaft $F_{RA} = 62$ N	Barbed hose nipple	3 603 386 000
17.5	37.0	2.10/4.63	1/2" Square	G 1/4"	10		Silencer G 1/2"	3 607 000 000
17.5	37.0	1.70/3.75	1/2" Square	G 1/4"	10			
17.5	37.0	1.70/3.75	1/2" Square	G 1/4"	10			
17.5	37.0	1.70/3.75	Cyl. shaft dia. 12 j 6	G 1/4"	10			
17.5	37.0	1.70/3.75	1/2" Square	G 1/4"	10			
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16.0	33.9	1.32/2.91	1/2"-20 UNF-2A	G 1/4"	10	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 1550$ N Max. radial load on motor shaft $F_{RA} = 62$ N	Barbed hose nipple	3 603 386 000
							Silencer G 1/2"	3 607 000 000
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16.0	33.9	2.10/4.63	1/2" Square	G 1/4"	10	Operated by external control valve not supplied by Bosch. Max. axial load on motor shaft $F_{AX} = 1550$ N Max. radial load on motor shaft $F_{RA} = 62$ N	Barbed hose nipple	3 603 386 000
16.0	33.9	2.10/4.63	1/2" Square	G 1/4"	10		Silencer G 1/2"	3 607 000 000
16.0	33.9	1.70/3.75	1/2" Square	G 1/4"	10			
16.0	33.9	1.70/3.75	1/2" Square	G 1/4"	10			

	Part number	Description	Thread data	Size in mm	
				A	D
Mounting flanges <p>Mounting hole diameter (mm)</p> <p>All mounting flanges are 4 mm thick.</p> <p>Bosch 2-hole mounting flanges replace the existing motor drive end housing to ease motor installation in various applications. The flange "ears" have two 4mm holes for mounting.</p>	3 605 700 043	All 100/120 watt air motors	M 26 x 1 Left	51	7
	3 605 700 044	All 180 watt air motors	M 30 x 1 Left	51	7
	3 605 700 045	All 300/370 watt air motors	M 35 x 1 Left	57	7
	3 605 700 046	All 500/550, some 620 & 740 watt air motors: 0 607 952 300, 301,302, 303, 304, 305, and 0 607 957 300, 301	M 45 x 1 Left	70	9
	3 605 700 047	Most 620/740 watt air motors: 0 607 957 305, 306, 307, 308, 309, 310, 314, 315	M 50 x 1 Left	70	9

Installation is easy!

Unscrew the existing motor drive end cover with a commercially available pin spanner and screw in the mounting flange. Note that all motors have left-hand threads. The motor can be secured to the desired product as needed with two screws (not included).



Sliding spindle

(1/4" hex shank to 1/4" female quick-change chuck) w/20 mm stroke

3 607 030 018

1/4" hex.



1/4" QC*

Keyless chuck drive adapter

(3/8" - 24 female thread to 1/4" female quick-change chuck)

3 608 577 000

3/8"-24 UNF-2A



1/4" QC*

*Quick-change chuck

Collet chuck drive adapter

3 608 570 003

3/8"-24 UNF-2A



3/8" thread. Must be used with separately ordered collet (e.g. diameter 6 mm 2 608 570 079) and collet nut 3 603 342 001.

Drill chucks

1 608 571 020

Keyed 3/8" drill chuck for motors with spindle thread 3/8"-24 UNF-2A

2 608 572 067

Keyless 3/8" drill chuck for motors with spindle thread 3/8"-24 UNF-2A

1 608 571 030

Keyed 3/8" drill chuck for motors with spindle thread 1/2"-20 UNF-2A

1 608 572 024

Keyless 3/8" drill chuck for motors with spindle thread 1/2"-20 UNF-2A

Air Motor Power/Torque/Air Consumption Charts



Data for all 100/120 watt,
0.13/0.16 hp air motors with
6 mm I.D. air inlet:

Charts show motor power & torque
vs. air pressure in bar/psi & air flow in
liters/second.

Chart legend:

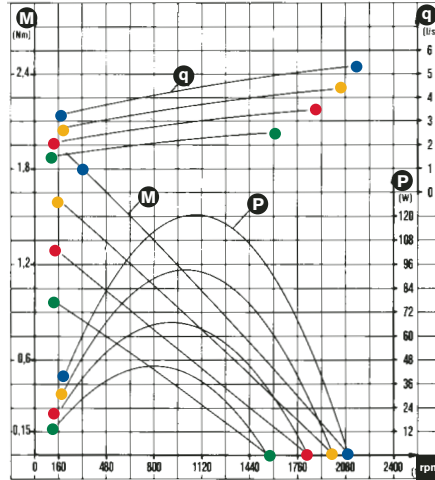
- Torque curve is identified by "M"
- Power is identified by "P"
- Air flow is identified by "q"
- Air volumes and motor performance
are shown at:
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to
determine the ratio of airflow/power/
torque/speed (rpm) for each motor.

Example: The blue dots on the flow
line (q) correspond to the blue dots on
the torque line (M) and the blue dots
on the power line (P); these 3 plot lines
provide the relational performance data
at an inlet air pressure of 6.3 bar/91
psi with the motor running under
rated load.

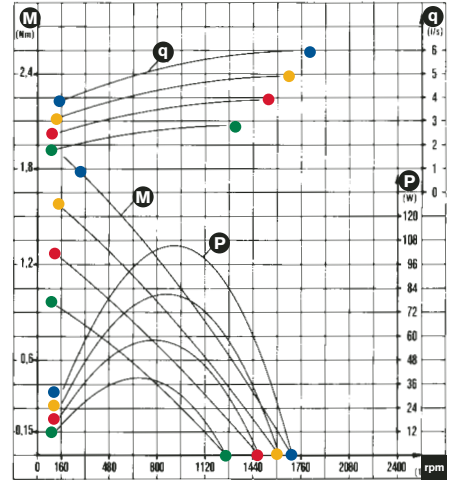
Motor 0 607 954 304
120 W series, R Only, Max
stalling torque on a soft joint
(720° tightening angle) at:

6.3 bar/91 psi = 2.1 Nm
5.3 bar/77 psi = 1.9 Nm
4.3 bar/62 psi = 1.5 Nm
3.3 bar/48 psi = 1.1 Nm



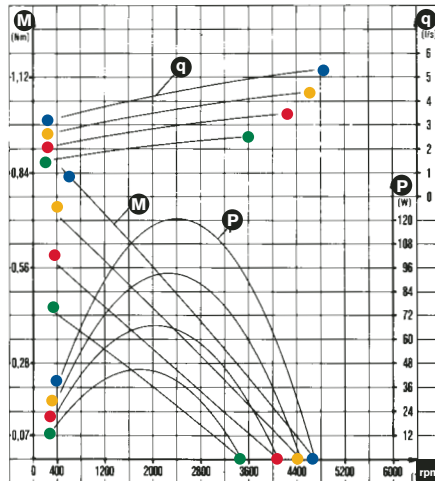
Motor 0 607 954 306
100 W series, R/L, Max
stalling torque on a soft joint
(720° tightening angle) at:

6.3 bar/91 psi = 2.0 Nm
5.3 bar/77 psi = 1.8 Nm
4.3 bar/62 psi = 1.4 Nm
3.3 bar/48 psi = 1.0 Nm



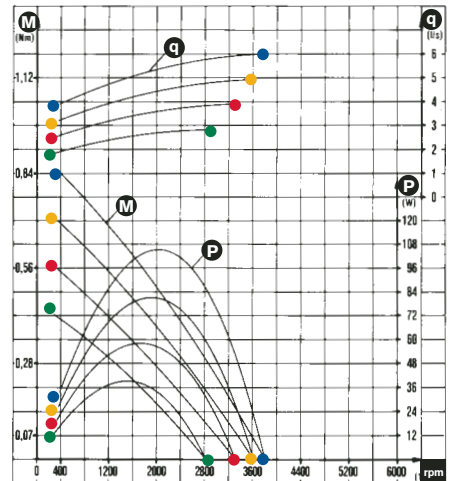
Motor 0 607 954 305
120 W series, R Only, Max
stalling torque on a soft joint
(720° tightening angle) at:

6.3 bar/91 psi = 1.0 Nm
5.3 bar/77 psi = 0.9 Nm
4.3 bar/62 psi = 0.7 Nm
3.3 bar/48 psi = 0.5 Nm



Motor 0 607 954 307
100 W series, R/L, Max
stalling torque on a soft joint
(720° tightening angle) at:

6.3 bar/91 psi = 0.9 Nm
5.3 bar/77 psi = 0.8 Nm
4.3 bar/62 psi = 0.6 Nm
3.3 bar/48 psi = 0.5 Nm



Air Motor Power/Torque/Air Consumption Charts



Data for all 180 watt, 0.24 hp air motors with 6 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

- Torque curve is identified by "M"
- Power is identified by "P"
- Air flow is identified by "q"
- Air volumes and motor performance are shown at:

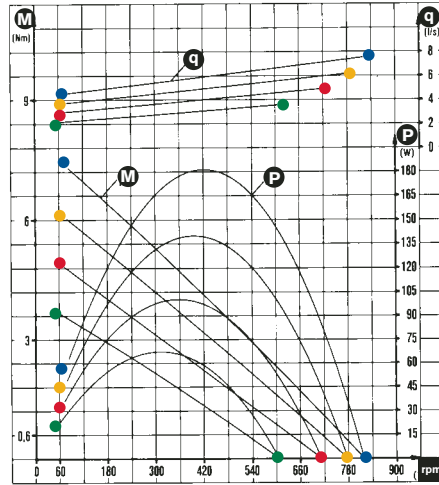
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

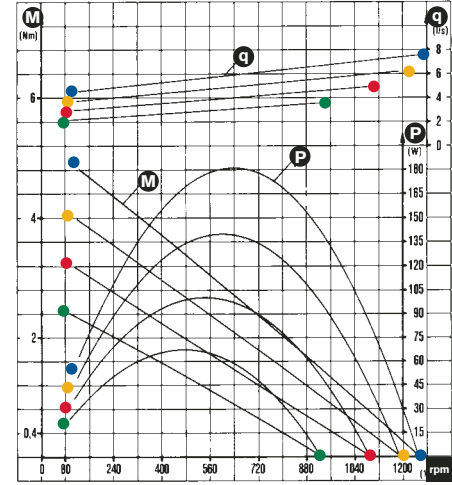
Motor 0 607 953 308
180 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 8.0 Nm
- 5.3 bar/77 psi = 6.5 Nm
- 4.3 bar/62 psi = 5.3 Nm
- 3.3 bar/48 psi = 4.8 Nm



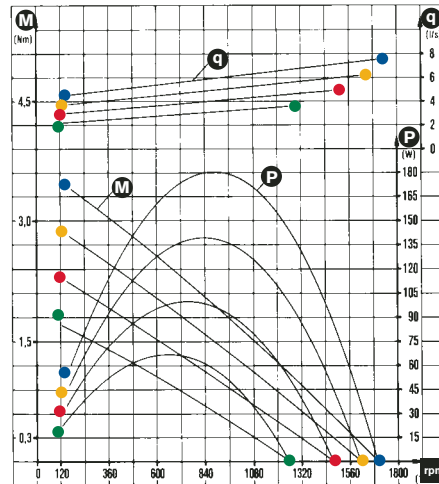
Motor 0 607 953 309
180 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 5.3 Nm
- 5.3 bar/77 psi = 4.3 Nm
- 4.3 bar/62 psi = 3.5 Nm
- 3.3 bar/48 psi = 2.5 Nm



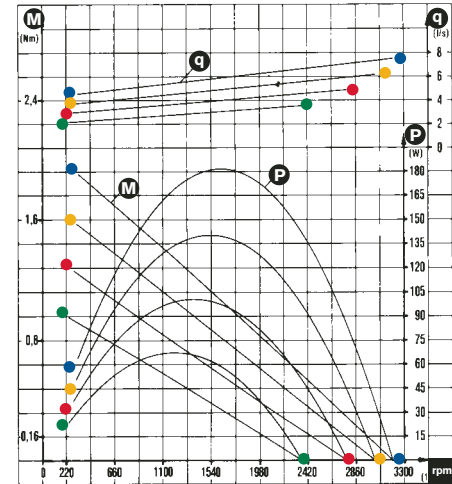
Motor 0 607 953 310, 326
180 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 3.7 Nm
- 5.3 bar/77 psi = 3.0 Nm
- 4.3 bar/62 psi = 2.4 Nm
- 3.3 bar/48 psi = 1.8 Nm



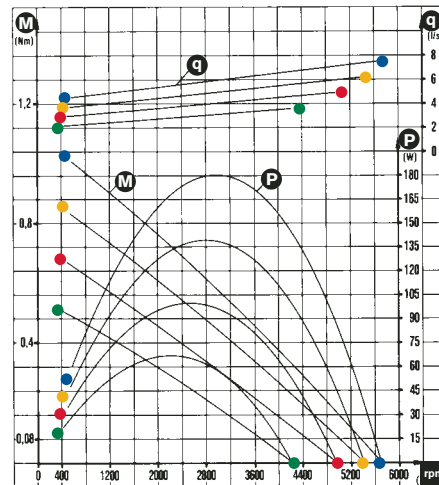
Motor 0 607 953 311
180 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 2.1 Nm
- 5.3 bar/77 psi = 1.7 Nm
- 4.3 bar/62 psi = 1.4 Nm
- 3.3 bar/48 psi = 1.0 Nm



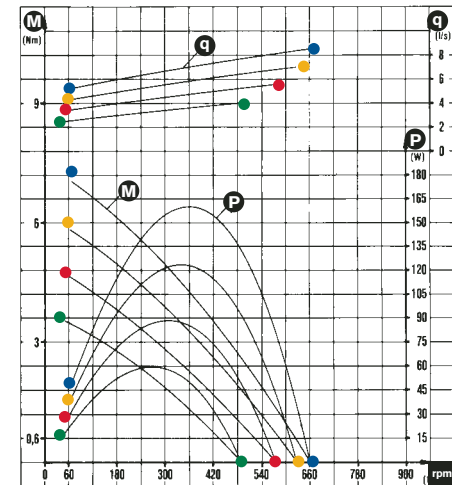
Motor 0 607 953 312
180 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 1.1 Nm
- 5.3 bar/77 psi = 0.9 Nm
- 4.3 bar/62 psi = 0.7 Nm
- 3.3 bar/48 psi = 0.5 Nm



Motor 0 607 953 313
180 W series, L/R, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 7.5 Nm
- 5.3 bar/77 psi = 6.2 Nm
- 4.3 bar/62 psi = 5.0 Nm
- 3.3 bar/48 psi = 3.7 Nm



Data for all 180 watt, 0.24 hp air motors with 6 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

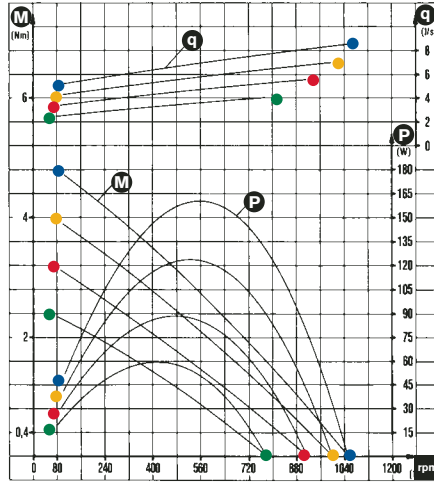
Torque curve is identified by "M"
 Power is identified by "P"
 Air flow is identified by "q"
 Air volumes and motor performance are shown at:

- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

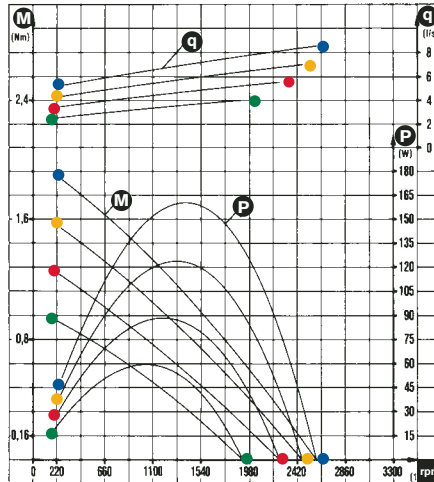
Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

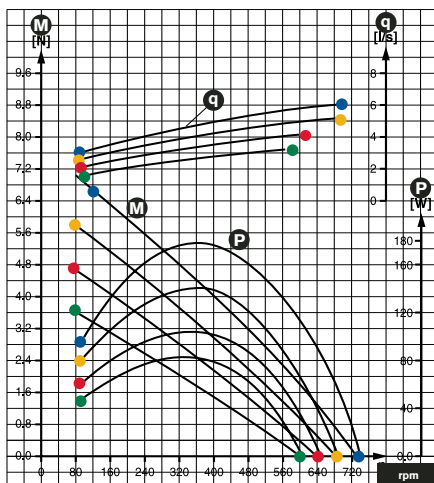
Motor 0 607 953 314 6.3 bar/91 psi = 5.1 Nm
 180 W series, R/L,
 Max stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:
 5.3 bar/77 psi = 4.2 Nm
 4.3 bar/62 psi = 3.4 Nm
 3.3 bar/48 psi = 2.5 Nm



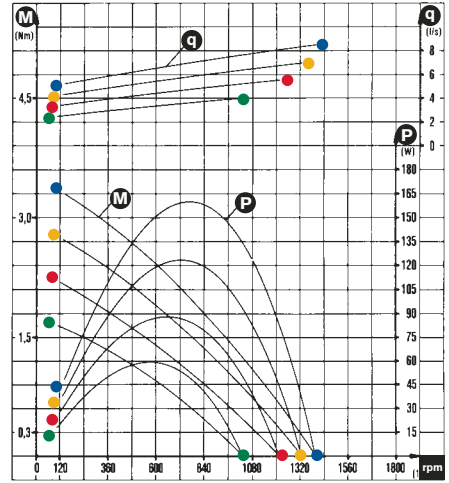
Motor 0 607 953 316 6.3 bar/91 psi = 2.0 Nm
 180 W series, R/L, Max
 stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:
 5.3 bar/77 psi = 1.6 Nm
 4.3 bar/62 psi = 1.3 Nm
 3.3 bar/48 psi = 1.0 Nm



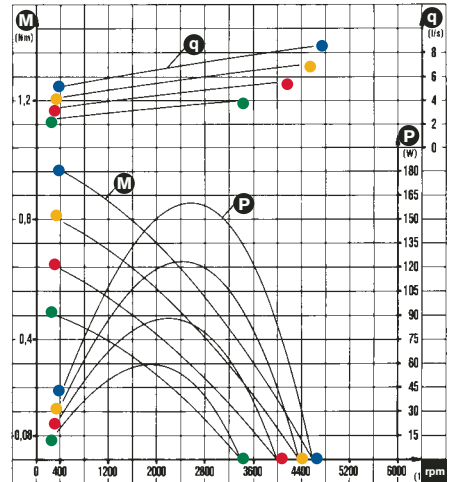
Motor 0 607 953 331 6.3 bar/91 psi = 7.7 Nm
 180 W series, R Only, Max
 stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:
 5.3 bar/77 psi = 6.4 Nm
 4.3 bar/62 psi = 5.2 Nm
 3.3 bar/48 psi = 4.1 Nm



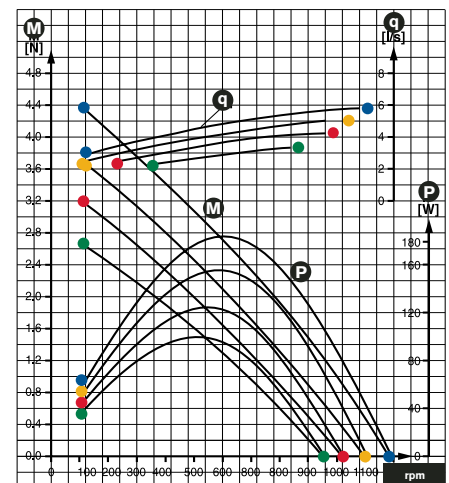
Motor 0 607 953 315 6.3 bar/91 psi = 3.5 Nm
 180 W series, R/L,
 Max stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:
 5.3 bar/77 psi = 2.9 Nm
 4.3 bar/62 psi = 2.3 Nm
 3.3 bar/48 psi = 1.7 Nm



Motor 0 607 953 317 6.3 bar/91 psi = 1.0 Nm
 180 W series, R/L, Max
 stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:
 5.3 bar/77 psi = 0.8 Nm
 4.3 bar/62 psi = 0.7 Nm
 3.3 bar/48 psi = 0.5 Nm



Motor 0 607 953 332 6.3 bar/91 psi = 4.7 Nm
 180 W series, R Only, Max
 stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:
 5.3 bar/77 psi = 4.0 Nm
 4.3 bar/62 psi = 3.5 Nm
 3.3 bar/48 psi = 2.9 Nm



Air Motor Power/Torque/Air Consumption Charts



Data for all 180 watt, 0.24 hp air motors with 6 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

Torque curve is identified by "M"
 Power is identified by "P"
 Air flow is identified by "q"
 Air volumes and motor performance are shown at:

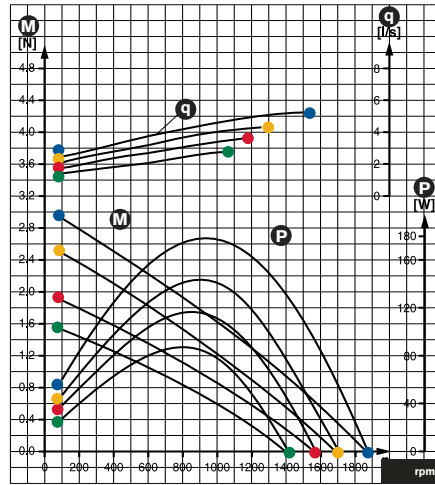
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

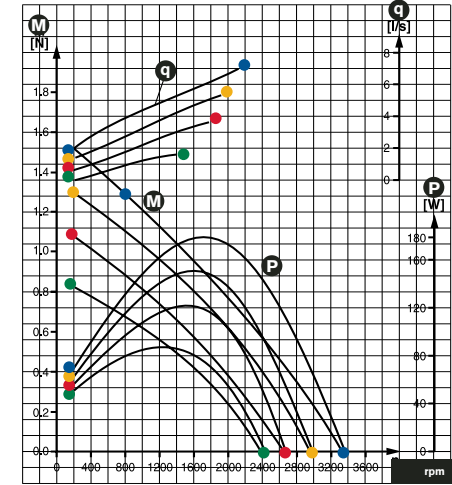
Motor 0 607 953 333
 180 W series, R Only,
 Max stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:

- 6.3 bar/91 psi = 3.2 Nm
- 5.3 bar/77 psi = 2.6 Nm
- 4.3 bar/62 psi = 2.0 Nm
- 3.3 bar/48 psi = 1.6 Nm



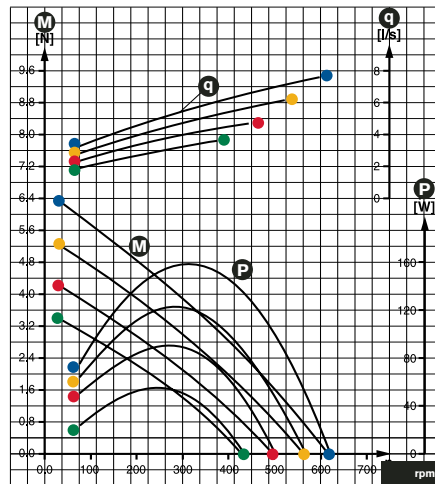
Motor 0 607 953 334
 180 W series, R Only, Max
 stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:

- 6.3 bar/91 psi = 1.6 Nm
- 5.3 bar/77 psi = 1.3 Nm
- 4.3 bar/62 psi = 1.1 Nm
- 3.3 bar/48 psi = 0.9 Nm



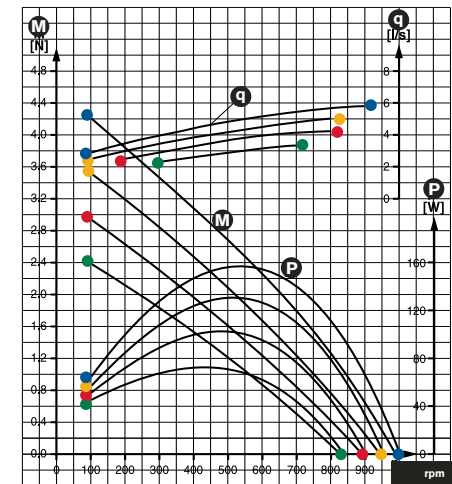
Motor 0 607 953 335
 180 W series, R/L,
 Max stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:

- 6.3 bar/91 psi = 6.5 Nm
- 5.3 bar/77 psi = 5.5 Nm
- 4.3 bar/62 psi = 4.4 Nm
- 3.3 bar/48 psi = 3.6 Nm



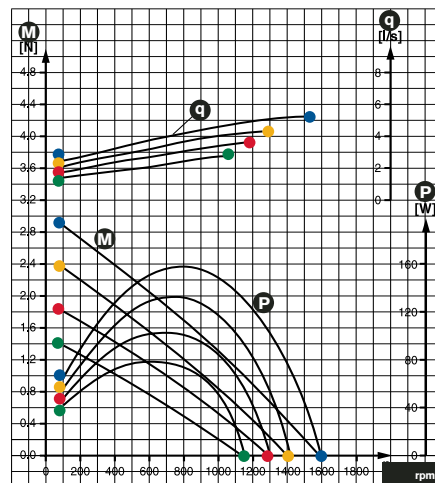
Motor 0 607 953 336, 346
 180 W series, R/L, Max
 stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:

- 6.3 bar/91 psi = 4.5 Nm
- 5.3 bar/77 psi = 3.9 Nm
- 4.3 bar/62 psi = 3.2 Nm
- 3.3 bar/48 psi = 2.6 Nm



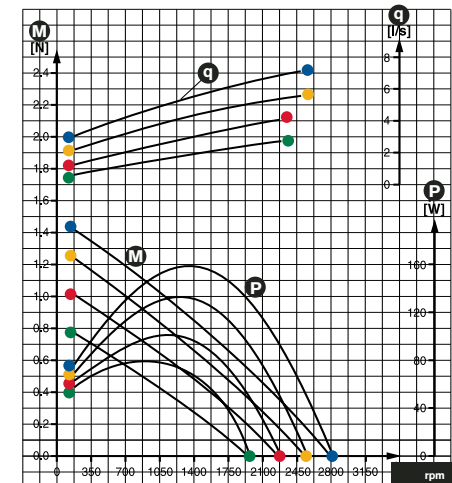
Motor 0 607 953 337
 180 W series, R/L,
 Max stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:

- 6.3 bar/91 psi = 2.9 Nm
- 5.3 bar/77 psi = 2.3 Nm
- 4.3 bar/62 psi = 1.8 Nm
- 3.3 bar/48 psi = 1.4 Nm



Motor 0 607 953 338, 348
 180 W series, R/L,
 Max stalling torque in a 'soft'
 screwdriving / bolting situation
 (720° tightening angle) at:

- 6.3 bar/91 psi = 1.4 Nm
- 5.3 bar/77 psi = 1.2 Nm
- 4.3 bar/62 psi = 1.0 Nm
- 3.3 bar/48 psi = 0.8 Nm



Data for all 180 watt, 0.24 hp air motors with 6 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

Torque curve is identified by "M"
 Power is identified by "P"
 Air flow is identified by "q"
 Air volumes and motor performance are shown at:

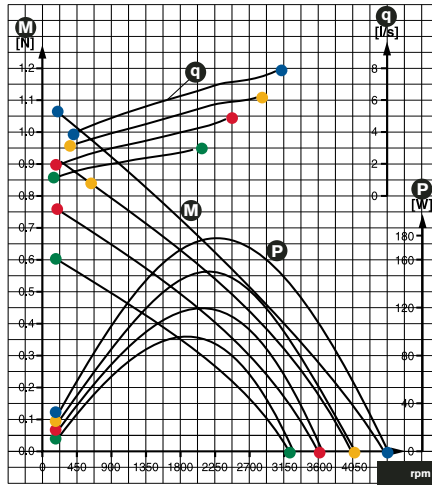
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

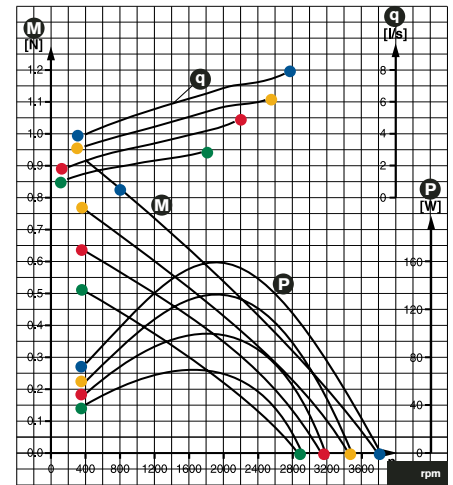
Motor 0 607 953 339 180 W series, R Only,
 Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 1.1 Nm
5.3 bar/77 psi = 0.9 Nm
4.3 bar/62 psi = 0.7 Nm
3.3 bar/48 psi = 0.5 Nm



Motor 0 607 953 340 180 W series, R/L,
 Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 1.0 Nm
5.3 bar/77 psi = 0.9 Nm
4.3 bar/62 psi = 0.7 Nm
3.3 bar/48 psi = 0.5 Nm

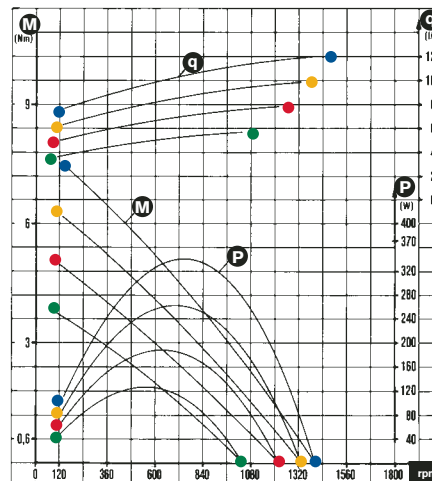


Data for all 370 watt, 0.5 hp air motors with 8 mm I.D. air inlet:

See chart legend above.

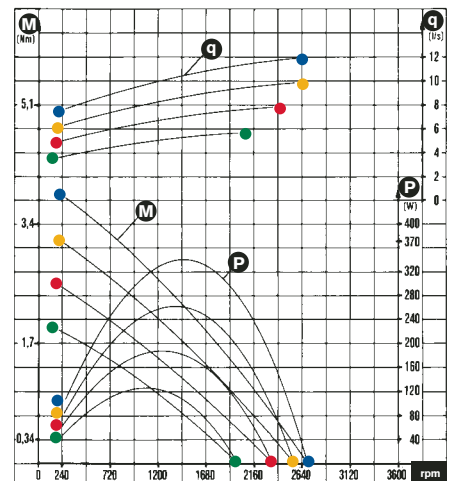
Motor 0 607 951 306, 316, 326 370 W series, R/L,
 Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 9.0 Nm
5.3 bar/77 psi = 7.5 Nm
4.3 bar/62 psi = 6.0 Nm
3.3 bar/48 psi = 4.5 Nm



Motor 0 607 951 307 370 W series, R/L,
 Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 4.5 Nm
5.3 bar/77 psi = 3.5 Nm
4.3 bar/62 psi = 3.0 Nm
3.3 bar/48 psi = 2.0 Nm



Air Motor Power/Torque/Air Consumption Charts



Data for all 370 watt, 0.5 hp air motors with 10 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

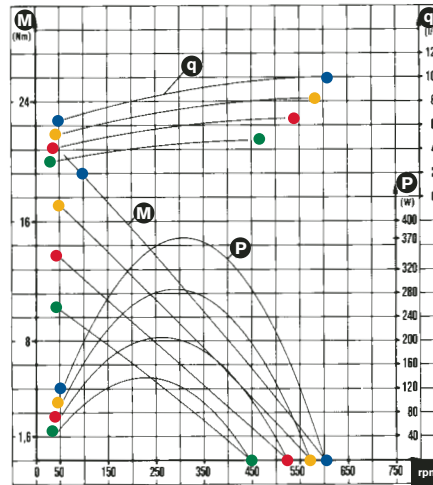
- Torque curve is identified by "M"
- Power is identified by "P"
- Air flow is identified by "q"
- Air volumes and motor performance are shown at:

- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

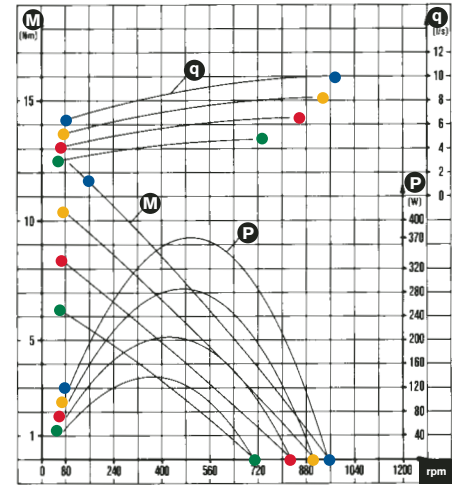
Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

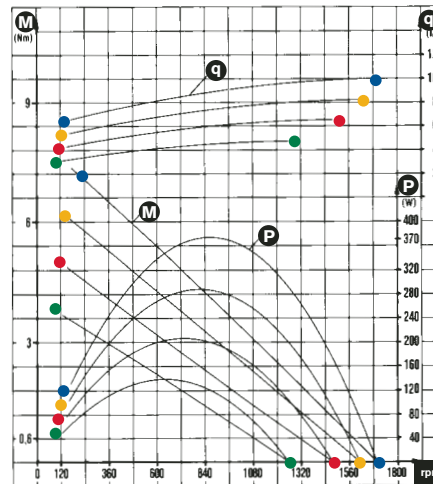
Motor 0 607 951 300, 311, 322 370 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:
 6.3 bar/91 psi = 25.6 Nm
 5.3 bar/77 psi = 20.5 Nm
 4.3 bar/62 psi = 16.5 Nm
 3.3 bar/48 psi = 12.5 Nm



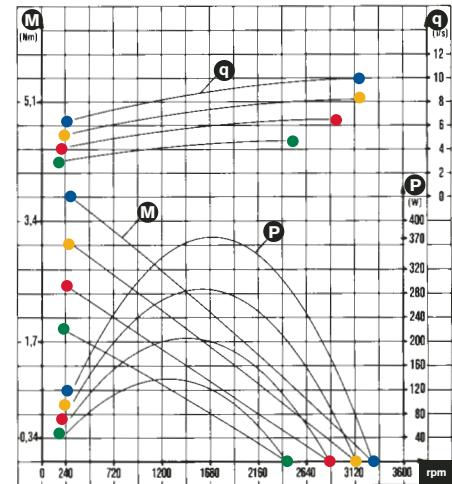
Motor 0 607 951 301, 312 370 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:
 6.3 bar/91 psi = 15.0 Nm
 5.3 bar/77 psi = 12.5 Nm
 4.3 bar/62 psi = 10.0 Nm
 3.3 bar/48 psi = 7.5 Nm



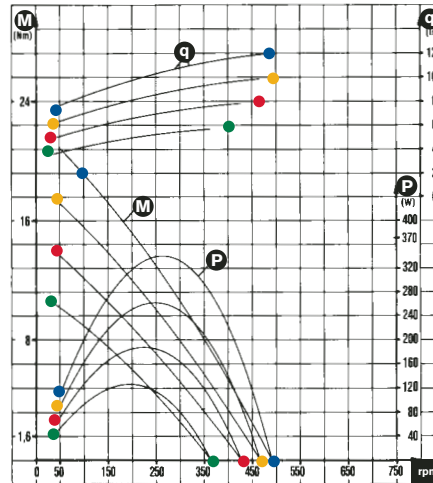
Motor 0 607 951 302, 313 370 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:
 6.3 bar/91 psi = 9.0 Nm
 5.3 bar/77 psi = 7.5 Nm
 4.3 bar/62 psi = 6.0 Nm
 3.3 bar/48 psi = 4.5 Nm



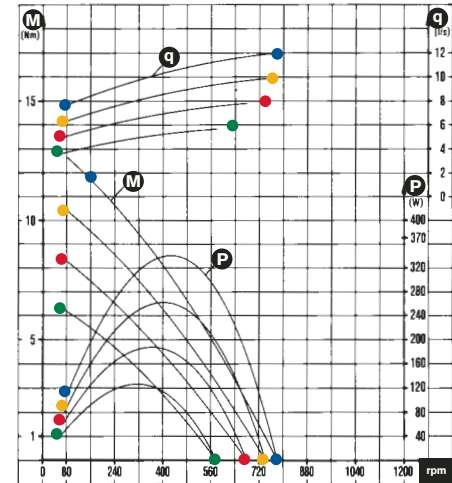
Motor 0 607 951 303 370 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:
 6.3 bar/91 psi = 4.5 Nm
 5.3 bar/77 psi = 3.5 Nm
 4.3 bar/62 psi = 3.0 Nm
 3.3 bar/48 psi = 2.0 Nm



Motor 0 607 951 304, 314, 318, 323, 325 370 W series, R/L, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:
 6.3 bar/91 psi = 25.0 Nm
 5.3 bar/77 psi = 20.5 Nm
 4.3 bar/62 psi = 16.5 Nm
 3.3 bar/48 psi = 12.5 Nm



Motor 0 607 951 305, 315 370 W series, R/L, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:
 6.3 bar/91 psi = 15.0 Nm
 5.3 bar/77 psi = 12.5 Nm
 4.3 bar/62 psi = 10.0 Nm
 3.3 bar/48 psi = 7.5 Nm



Data for all 550 watt, 0.74 hp air motors with 6 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

Torque curve is identified by "M"
Power is identified by "P"
Air flow is identified by "q"
Air volumes and motor performance are shown at:

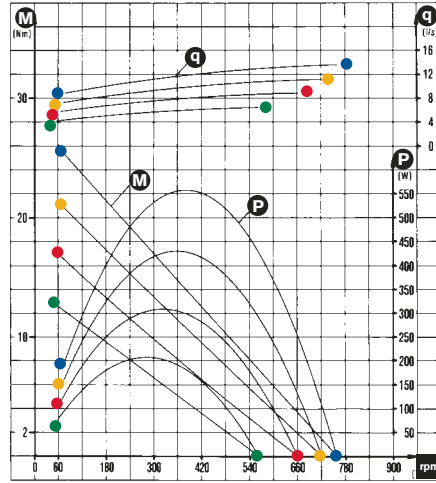
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

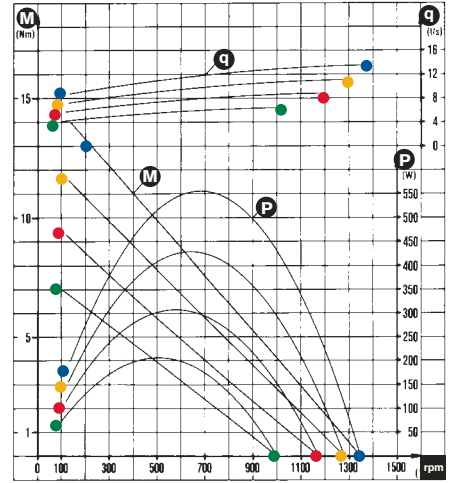
Motor 0 607 952 300, 550 W series, R Only,
Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 28.0 Nm
5.3 bar/77 psi = 23.6 Nm
4.3 bar/62 psi = 18.5 Nm
3.3 bar/48 psi = 14.0 Nm



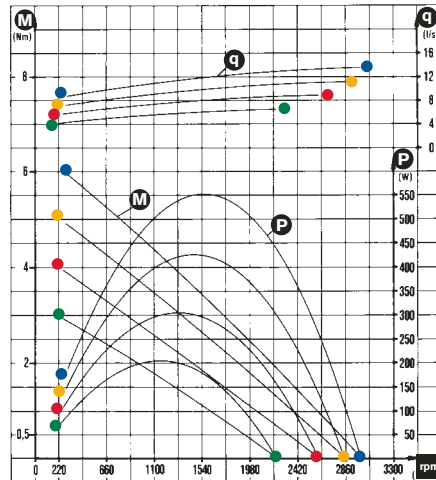
Motor 0 607 952 301, 550 W series, R Only,
Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 15.5 Nm
5.3 bar/77 psi = 13.0 Nm
4.3 bar/62 psi = 10.0 Nm
3.3 bar/48 psi = 7.5 Nm



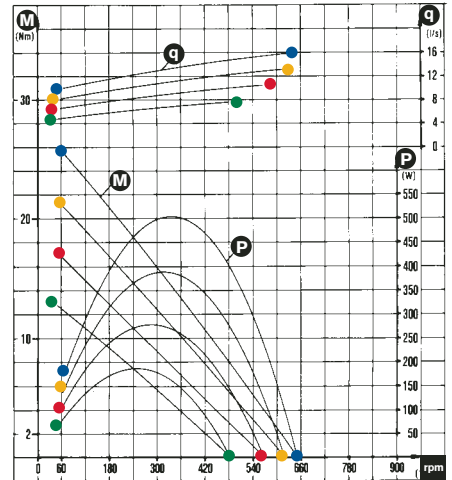
Motor 0 607 952 302, 550 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 6.5 Nm
5.3 bar/77 psi = 5.0 Nm
4.3 bar/62 psi = 4.0 Nm
3.3 bar/48 psi = 3.0 Nm



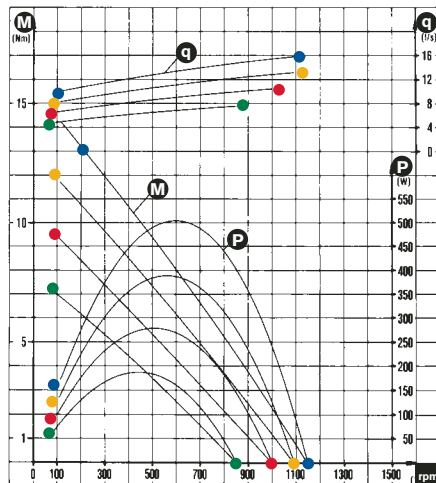
Motor 0 607 952 303, 550 W series, R/L, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 28.8 Nm
5.3 bar/77 psi = 23.8 Nm
4.3 bar/62 psi = 18.5 Nm
3.3 bar/48 psi = 14.8 Nm



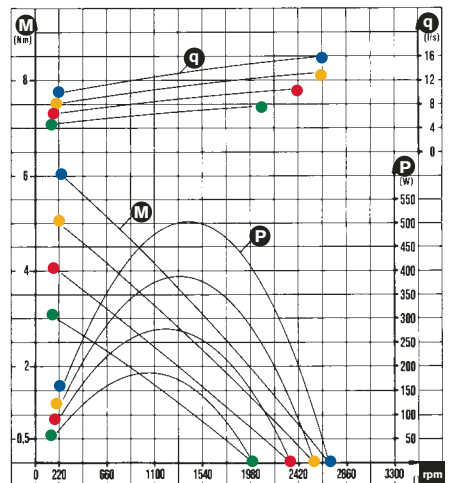
Motor 0 607 952 304, 550 W series, R/L, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 15.5 Nm
5.3 bar/77 psi = 13.0 Nm
4.3 bar/62 psi = 10.0 Nm
3.3 bar/48 psi = 7.5 Nm



Motor 0 607 952 305, 550 W series, R/L, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 6.5 Nm
5.3 bar/77 psi = 5.0 Nm
4.3 bar/62 psi = 4.0 Nm
3.3 bar/48 psi = 3.0 Nm



Air Motor Power/Torque/Air Consumption Charts



Data for all 740 watt, 1.0 hp air motors with 10 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

Torque curve is identified by "M"
 Power is identified by "P"
 Air flow is identified by "q"
 Air volumes and motor performance are shown at:

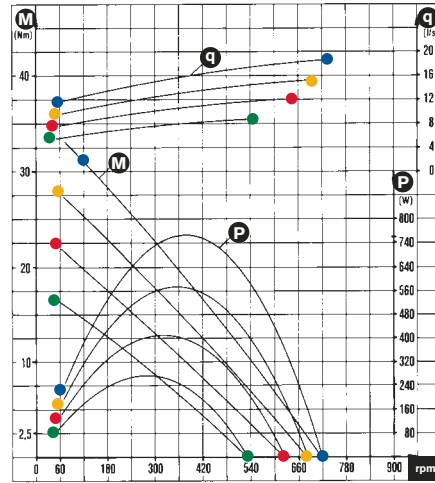
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

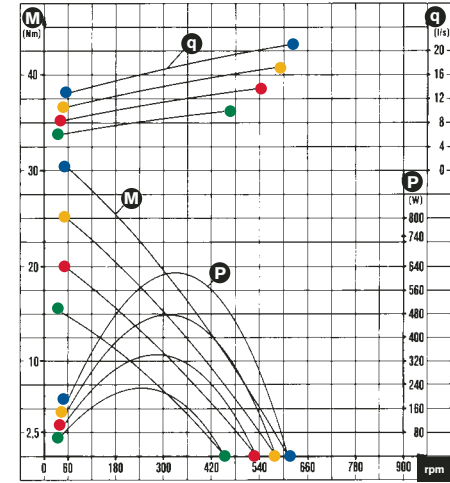
Motor 0 607 957 300, 307
 740 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 36.0 Nm
- 5.3 bar/77 psi = 30.0 Nm
- 4.3 bar/62 psi = 24.0 Nm
- 3.3 bar/48 psi = 18.0 Nm



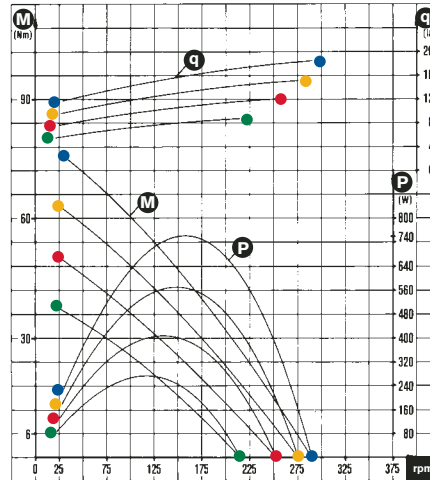
Motor 0 607 957 301, 310, 315
 740 W series, R/L, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 36.0 Nm
- 5.3 bar/77 psi = 30.0 Nm
- 4.3 bar/62 psi = 24.0 Nm
- 3.3 bar/48 psi = 16.0 Nm



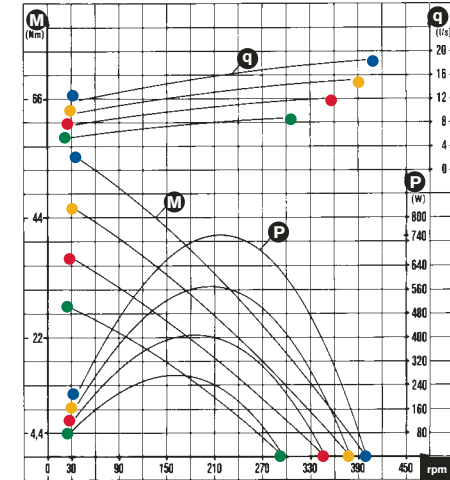
Motor 0 607 957 305
 740 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 90.0 Nm
- 5.3 bar/77 psi = 74.5 Nm
- 4.3 bar/62 psi = 60.8 Nm
- 3.3 bar/48 psi = 45.0 Nm



Motor 0 607 957 306
 740 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

- 6.3 bar/91 psi = 65.0 Nm
- 5.3 bar/77 psi = 54.8 Nm
- 4.3 bar/62 psi = 43.5 Nm
- 3.3 bar/48 psi = 32.5 Nm



Data for all 740 watt, 1.0 hp air motors with 10 mm I.D. air inlet:

Charts show motor power & torque vs. air pressure in bar/psi & air flow in liters/second.

Chart legend:

Torque curve is identified by "M"
 Power is identified by "P"
 Air flow is identified by "q"
 Air volumes and motor performance are shown at:

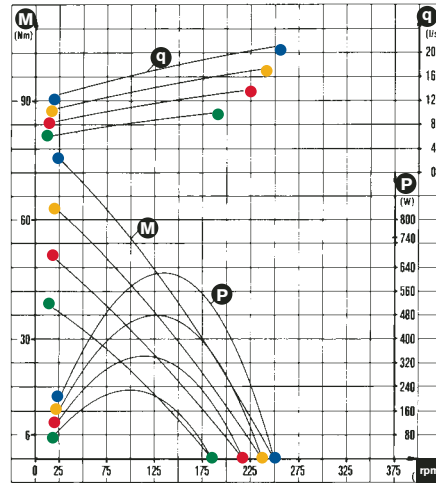
- 6.3 bar/91 psi
- 5.3 bar/77 psi
- 4.3 bar/62 psi
- 3.3 bar/48 psi

Follow the corresponding color code to determine the ratio of airflow/power/torque/speed (rpm) for each motor.

Example: The blue dots on the flow line (q) correspond to the blue dots on the torque line (M) and the blue dots on the power line (P); these 3 plot lines provide the relational performance data at an inlet air pressure of 6.3 bar/91 psi with the motor running under rated load.

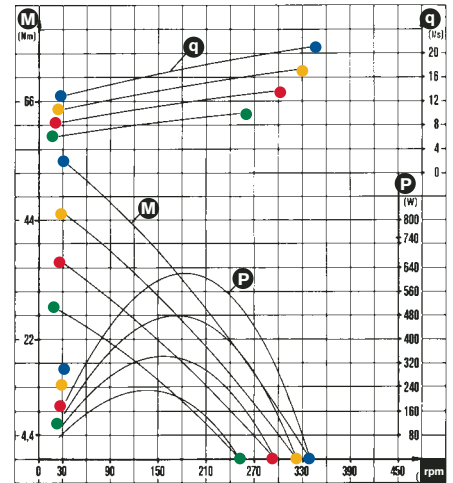
Motor 0 607 957 308 740 W series, R/L,
 Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 90.0 Nm
5.3 bar/77 psi = 74.5 Nm
4.3 bar/62 psi = 60.0 Nm
3.3 bar/48 psi = 45.8 Nm



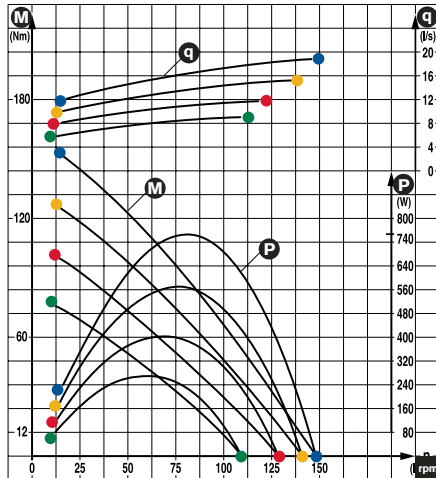
Motor 0 607 957 309 740 W series, R/L,
 Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 65.0 Nm
5.3 bar/77 psi = 54.0 Nm
4.3 bar/62 psi = 43.5 Nm
3.3 bar/48 psi = 32.5 Nm



Motor 0 607 957 314 740 W series, R Only, Max stalling torque in a 'soft' screwdriving / bolting situation (720° tightening angle) at:

6.3 bar/91 psi = 170 Nm
5.3 bar/77 psi = 148 Nm
4.3 bar/62 psi = 120 Nm
3.3 bar/48 psi = 90 Nm



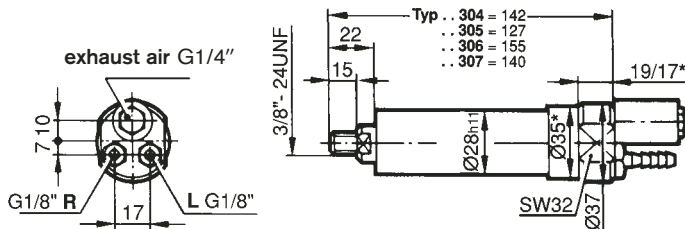
Dimensions for All Air Motors

All dimensions are in mm



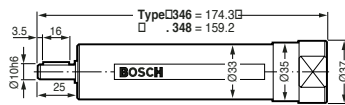
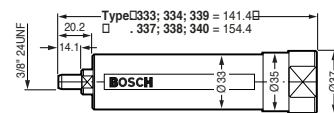
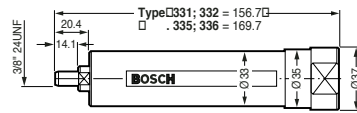
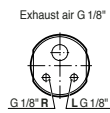
*Asterisk indicates alternate dimensions for corresponding tool part numbers

Part number



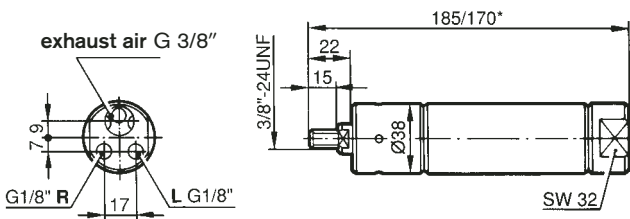
Noise in Db at No-Load Rpm:
74 Db

- 0 607 954 306*
- 0 607 954 307*
- 0 607 954 304
- 0 607 954 305



Noise in Db at No-Load Rpm:
76 Db
*74 Db

- 0 607 953 331*
- 0 607 954 332*
- 0 607 953 335
- 0 607 954 336
- 0 607 954 333*
- 0 607 954 334*
- 0 607 954 337
- 0 607 953 338
- 0 607 953 339*
- 0 607 954 340
- 0 607 953 346
- 0 607 954 348



Noise in Db at No-Load Rpm:
77 Db
*76 Db

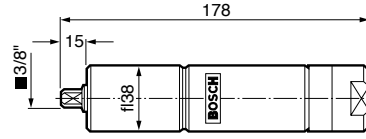
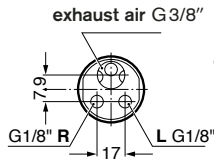
- 0 607 951 304
- 0 607 951 305
- 0 607 951 306
- 0 607 951 307
- 0 607 951 300
- 0 607 951 301
- 0 607 951 302*
- 0 607 951 303*
- 0 607 951 322

Note: The left motor port is omitted from motors that only rotate right (clockwise).

All dimensions are in mm

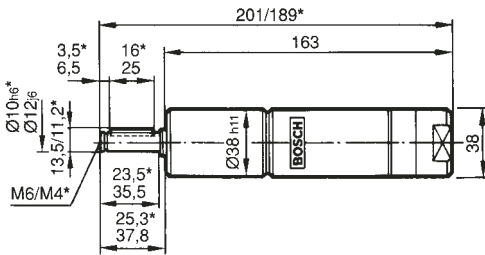
*Asterisk indicates alternate dimensions for corresponding tool part numbers

Part number



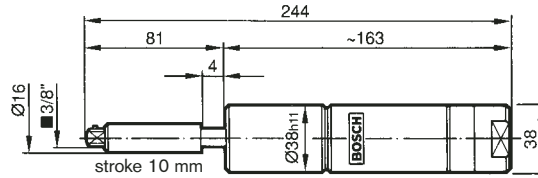
Noise in Db at No-Load Rpm:
77 Db
*74 Db

- 0 607 951 314
- 0 607 951 315
- 0 607 951 316
- 0 607 951 311*
- 0 607 951 312*
- 0 607 951 313*



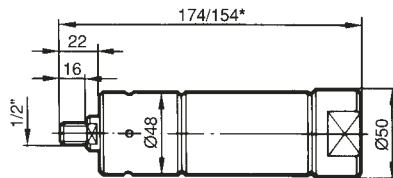
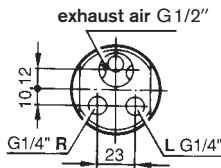
Noise in Db at No-Load Rpm:
77 Db

- 0 607 951 325
- 0 607 951 326
- 0 607 951 318*



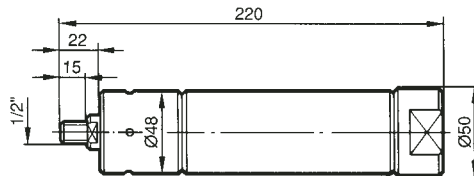
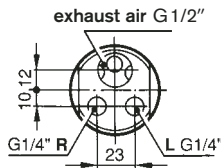
Noise in Db at No-Load Rpm:
77 Db

- 0 607 951 323



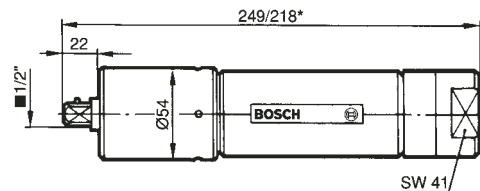
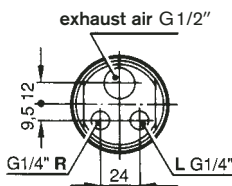
Noise in Db at No-Load Rpm:
81 Db

- 0 607 952 303
- 0 607 952 304
- 0 607 952 305*
- 0 607 952 300
- 0 607 952 301
- 0 607 952 302*



Noise in Db at No-Load Rpm:
81 Db

- 0 607 957 301
- 0 607 957 300




Noise in Db at No-Load Rpm:
82 Db
*81 Db

- 0 607 957 308
- 0 607 957 309
- 0 607 957 310
- 0 607 957 315
- 0 607 957 314*
- 0 607 957 305*
- 0 607 957 306*
- 0 607 957 307*




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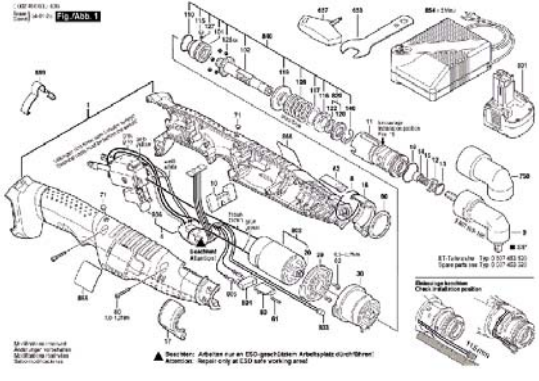
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- 0 602 490 636 / 9,6 / —
- 0 602 490 636 / 9,6 / —
- 0 602 490 650 / 9,6 / —



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