

Air Motor Dura-Lite Series

For standard applications



The enhanced **Dura-Lite** range combine durability with affordability. Their reliable performance and application flexibility provide economical solution for a wide variety of industrial tasks.

The right torque at the right speed.

High power to weight ratio, easy installation, portability, minimum maintenance and simple controls are other features that makes Ingersoll Rand air motors an attractive option for a number of industrial applications.

Many users will find that they can substitute air motors from other manufacturers with the Ingersoll Rand **Dura-Lite** series.

The main reasons to choose a Dura-Lite Series air motor:

- **Variable Speed**

Controllable over a wide speed range. When an increase in load lowers the speed, the torque increases.

- **Explosion-Proof**

Ideal for applications in hazardous or hostile environments

- **Instantly Reversible**

Easy reversing using a directional control valve

- **Cool Running**

Cool and spark-free operation

- **Compact and Portable**

Air motors can work in any position and are easy to install.

- **Minimum Maintenance**

Simple design and construction results in low maintenance and less down time

- **Will Not Burn Out**

Will not overheat or sustain any other type of damage

- **No-shock Starts**

Accept repeated starting and stopping without limitation

- **Self-sealing vanes**

Vanes automatically take up their own wear

- **Operate in all positions**

Air motors are easy to install and can work in any position providing adequate airline lubrication

- **Mounting Flexibility**

Simple control methods; Torque, speed and direction can be changed using simple controls

- **Long Life Accessories**

Resistant to moisture, dust and heat

- **Output Power vs Speed**

Output which inherently adjusts to match the applied load

- **Torque vs Speed**

When an increase in load lowers the speed, the torque increases

- **Air Consumption vs Speed**

Air consumption increase only when speed or air pressure increase

- **Mounting flexibility**

Compact in their design the **Dura-Lite** Series motors can be delivered with Side or rear exhaust, metric flange or 2 holes flanges.



Typical Applications

- Mixing equipment
- Conveyor drives
- Beveling Machines
- Textile machinery
- Production robots
- Strapping machines
- Medical pump
- Printing machinery
- Hose reels
- Paint, Ink and Glue systems
- Punch Presses
- All applications in hazardous area...

Non Reversible Range Specifications

Model	Max Power		Speed @Max H.P	Free speed	Torque@ max power		Stall torque		Air consumption @ max Pow.		Weight	
Size	H.P.	K.W.	Rpm	Rpm	Ft-lbs	Nm	Ft-lbs	Nm	Scfm	L/s	Lb	Kg
2ME-55	0.28	0.21	30	65	54.94	74.5	82.96	112.5	12.92	6.1	0.50	1.1
2ME-90	0.29	0.22	45	100	35.99	48.8	56.27	76.3	12.92	6.1	0.50	1.1
2ME-225	0.29	0.22	135	275	11.73	15.9	24.19	32.8	12.92	6.1	0.50	1.1
2ME-400	0.29	0.22	225	450	7.01	9.5	13.72	18.6	12.92	6.1	0.36	0.8
2ME-600	0.31	0.23	350	700	4.72	6.4	9.07	12.3	12.92	6.1	0.36	0.8
2ME-1000	0.31	0.23	550	1100	3.02	4.1	5.68	7.7	12.92	6.1	0.36	0.8
2ME-2500	0.32	0.24	1500	3000	1.11	1.5	2.29	3.1	12.92	6.1	0.23	0.5
2ME-4000	0.32	0.24	2250	4500	0.81	1.1	1.40	1.9	12.92	6.1	0.23	0.5
202ME-50	0.38	0.28	25	55	87.91	119.2	130.9	177.5	18.01	8.5	0.59	1.3
202ME-80	0.39	0.29	35	90	56.93	77.2	88.94	120.6	18.01	8.5	0.59	1.3
202ME-200	0.42	0.31	110	225	19.69	26.7	37.98	51.5	18.01	8.5	0.59	1.3
202ME-350	0.42	0.31	200	400	10.84	14.7	22.49	30.5	18.01	8.5	0.45	1.0
202ME-550	0.42	0.31	300	600	7.45	10.1	14.53	19.7	18.01	8.5	0.45	1.0
202ME-850	0.43	0.32	500	1000	4.50	6.1	9.51	12.9	18.01	8.5	0.45	1.0
202ME-2250	0.43	0.32	1350	2700	1.70	2.3	3.47	4.7	18.01	8.5	0.32	0.7
202ME-3500	0.44	0.33	2100	4200	1.11	1.5	2.29	3.1	18.01	8.5	0.32	0.7
3ME-250	0.83	0.62	135	240	32.37	43.9	61.95	84	30.93	14.6	0.82	1.8
3ME-450	0.84	0.63	250	450	17.92	24.3	35.99	48.8	30.93	14.6	0.82	1.8
3ME-800	0.86	0.64	475	950	9.51	12.9	16.96	23	30.93	14.6	0.82	1.8

Reversible Range Specifications

Model	Max Power		Speed @Max H.P	Free speed	Torque@ max power		Stall torque		Air consumption @ max Pow.		Weight	
SIZE	H.P.	K.W.	Rpm	Rpm	Ft-lbs	Nm	Ft-lbs	Nm	scfm	L/s	lb	Kg
22ME-360	0.25	0.19	185	335	13.42	9.9	20.20	14.9	12.08	5.7	0.50	1.1
22ME-540	0.27	0.20	280	510	9.22	6.8	13.83	10.2	12.08	5.7	0.50	1.1
22ME-900	0.27	0.20	455	825	5.70	4.2	8.68	6.4	12.08	5.7	0.50	1.1
22ME-2250	0.28	0.21	1215	2210	2.17	1.6	3.25	2.4	12.08	5.7	0.23	0.5
22ME-3600	0.28	0.21	1940	3530	1.49	1.1	2.17	1.6	12.08	5.7	0.23	0.5
2202ME-320	0.36	0.27	140	275	24.81	18.3	36.75	27.1	16.95	8	0.45	1.0
2202ME-480	0.38	0.28	220	440	14.78	10.9	23.87	17.6	16.95	8	0.45	1.0
2202ME-750	0.38	0.28	350	700	10.17	7.5	15.32	11.3	16.95	8	0.45	1.0
2202ME-2000	0.38	0.28	955	1900	3.66	2.7	5.56	4.1	16.95	8	0.32	0.7
2202ME-3000	0.38	0.28	1525	3050	2.44	1.8	3.66	2.7	16.95	8	0.32	0.7
33ME-220	0.72	0.54	110	220	63.19	46.6	89.22	65.8	38.98	18.4	0.82	1.8
33ME-405	0.74	0.55	210	425	33.62	24.8	48.95	36.1	38.98	18.4	0.82	1.8
33ME-720	0.75	0.56	370	750	19.25	14.2	26.98	19.9	38.98	18.4	0.82	1.8

Performances figure are at 90 psig 6.2 bar
Starting torque is approx. 75% of stall torque.

The Dura-Lite series motors have been design for

- * The temperature operating range from - 30 to +100°C
- * The operating air pressure range from 2 bars up to 7 bars

- * A simple in design and construction, they can be operated in all positions
- * Being powered with air compressed or nitrogen with 60 µ filtration

Definition

1. Length

From 125 to 200 mm

2. Diameter

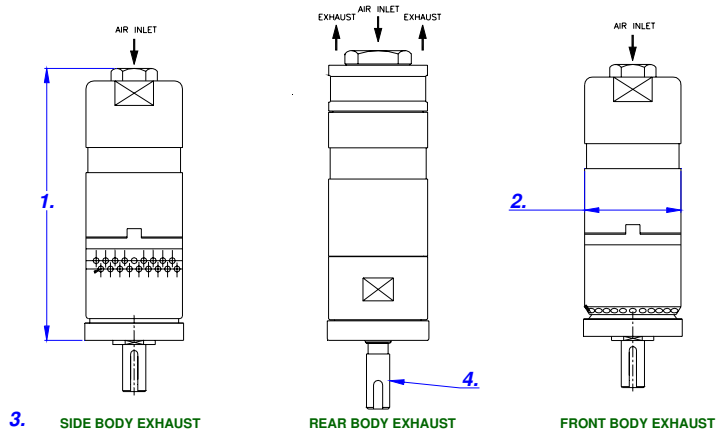
From 42 to 51 mm

3. Exhaust

Side or rear

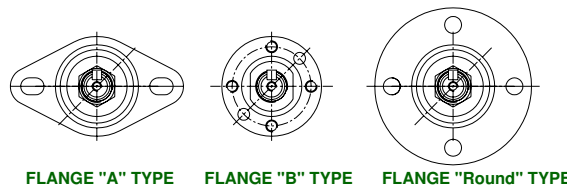
4. Spindle

Round keyed from 11 to 12.7 mm
Square
Threaded 3/8" : 1/2"



5. Flange

4 holes face
2 holes lateral
4 holes lateral



Ordering

Reversible when
Indicated
Model number

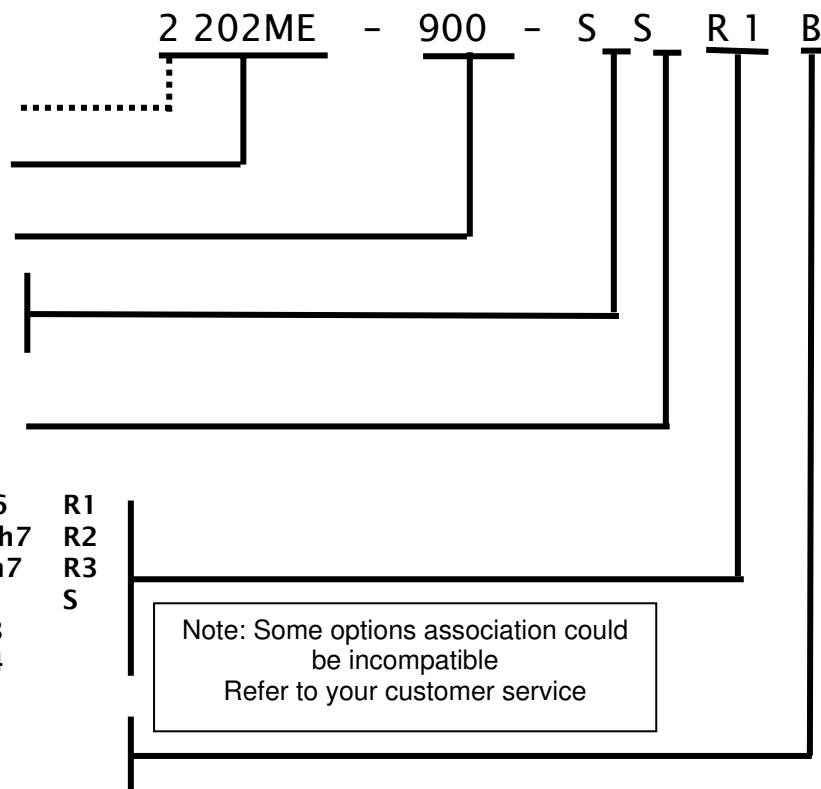
Sped range

Exhaust side
Exhaust front
Exhaust rear

Std vanes

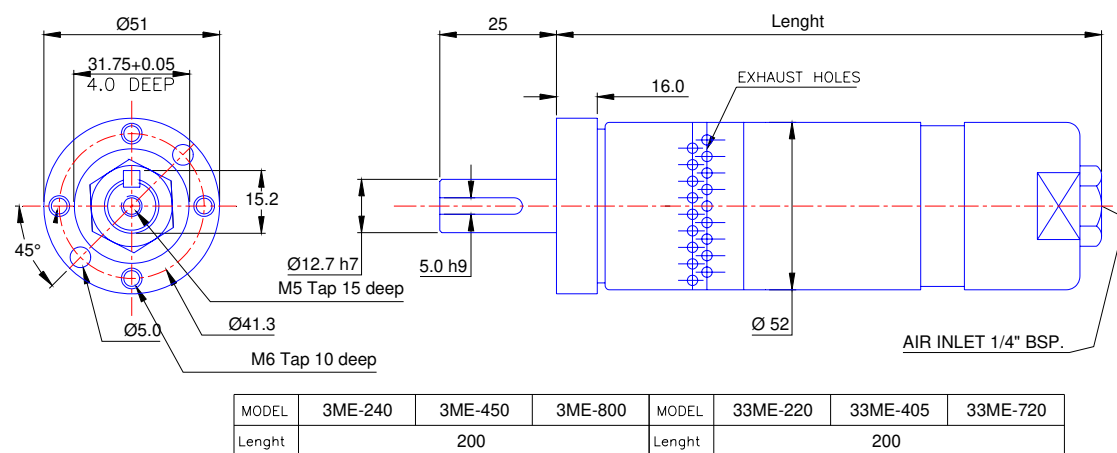
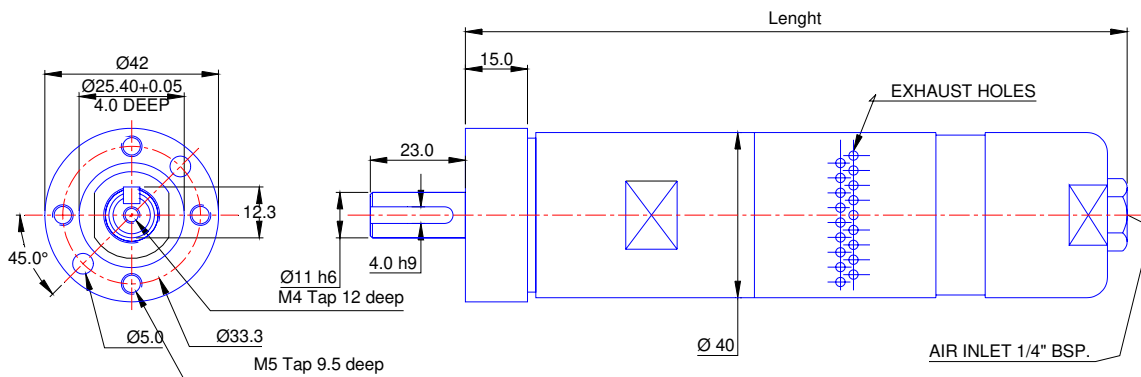
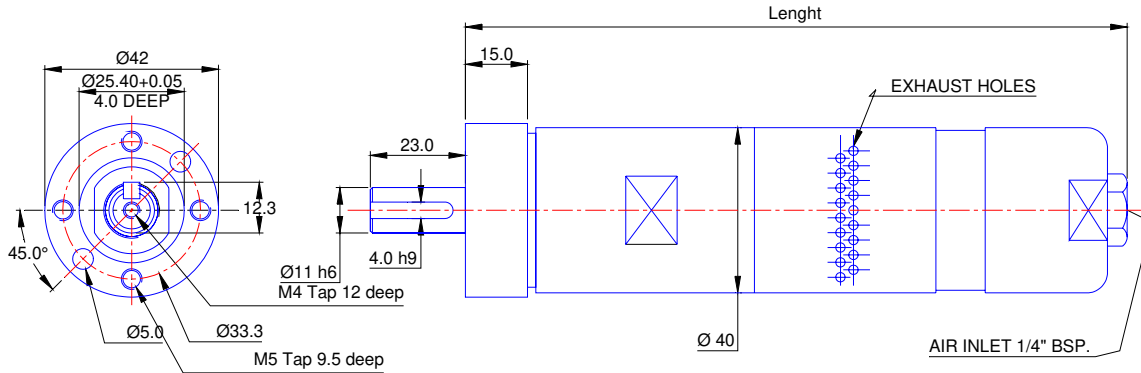
Spindle round Dia 11h6
Spindle round Dia 12.7h7
Spindle round Dia 3/8h7
Spindle square
Spindle 3/8- 24 unc T3
Spindle 1/2- 20 UNF T4

Flange "A" type A
Flange "B" type B
Flange "Round" type R



Dimensional

Models show below are with flange B, side exhaust, round shaft.



For other model contact your customer service.

Ingersoll Rand
Industrial Technologies

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