

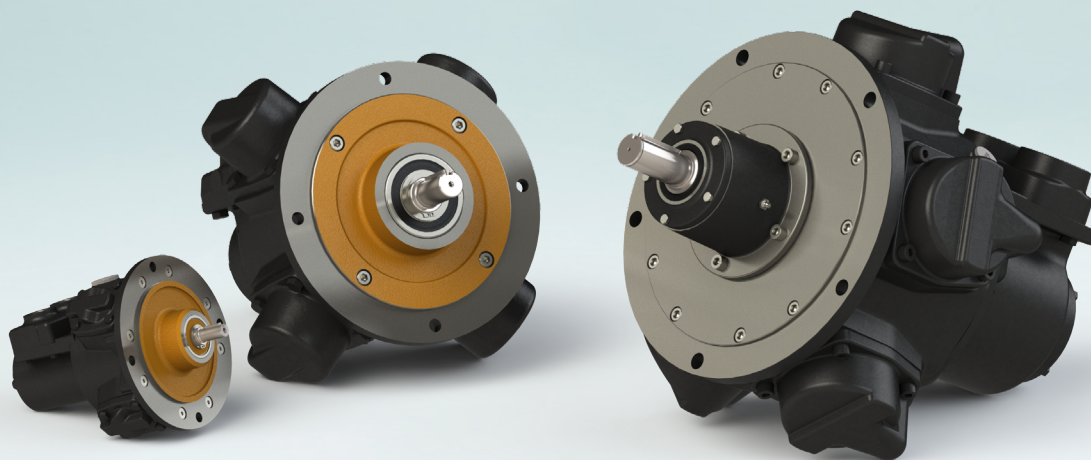


GLOBE[®] AIRMOTORS B.V.

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Specifications: RM210

Piston Air Motor



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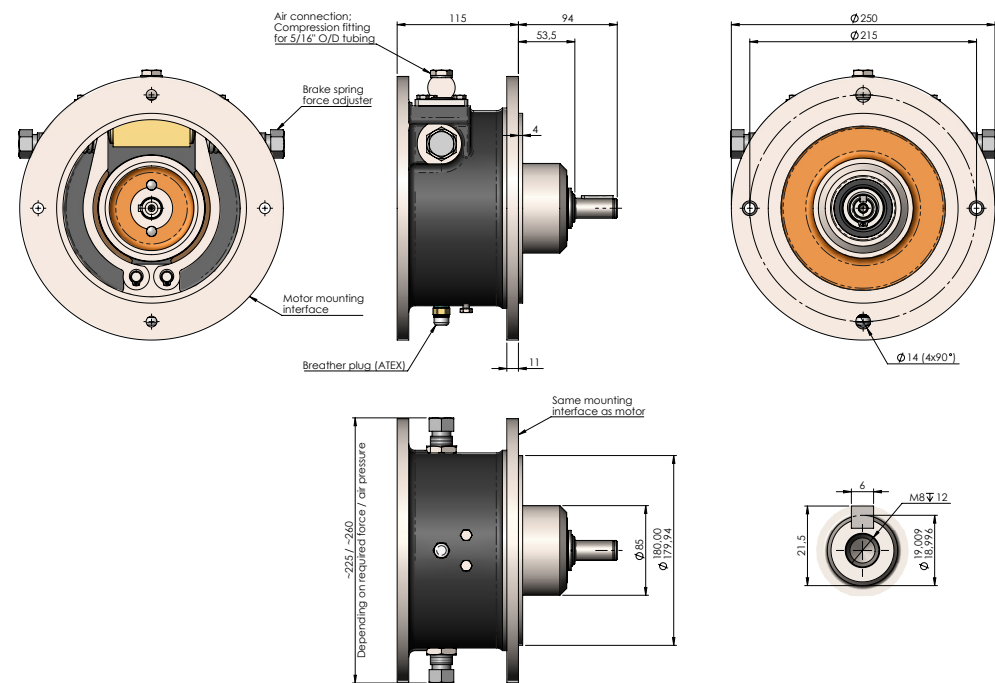
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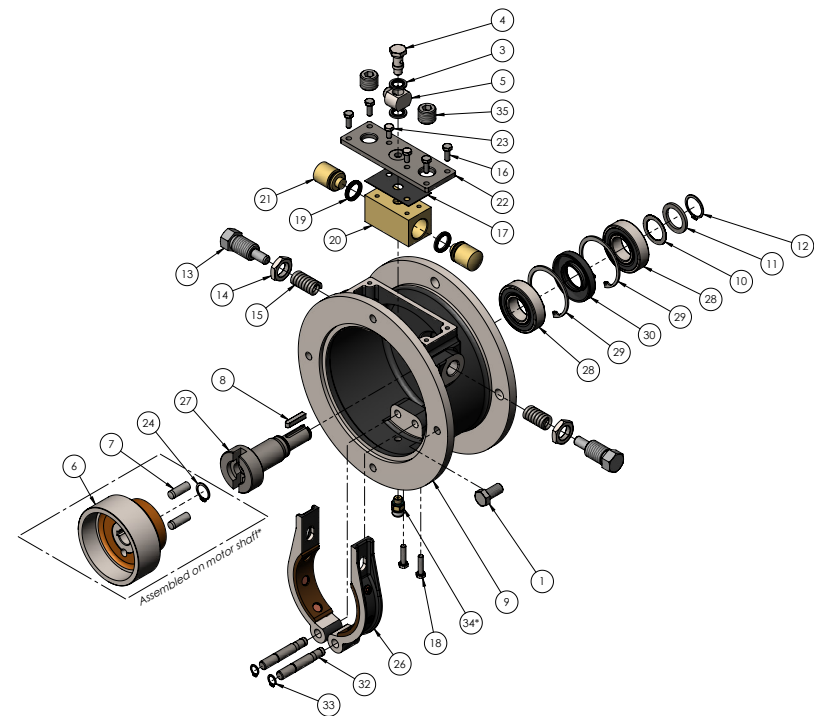
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ISO 9001

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Dimensions & Performance RM210 + Brake

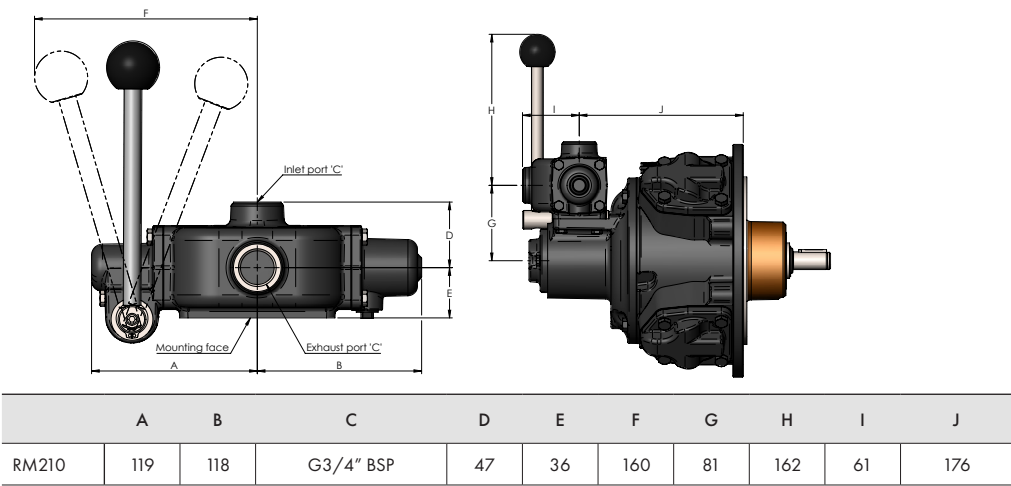


Spare Parts List Parking Brake

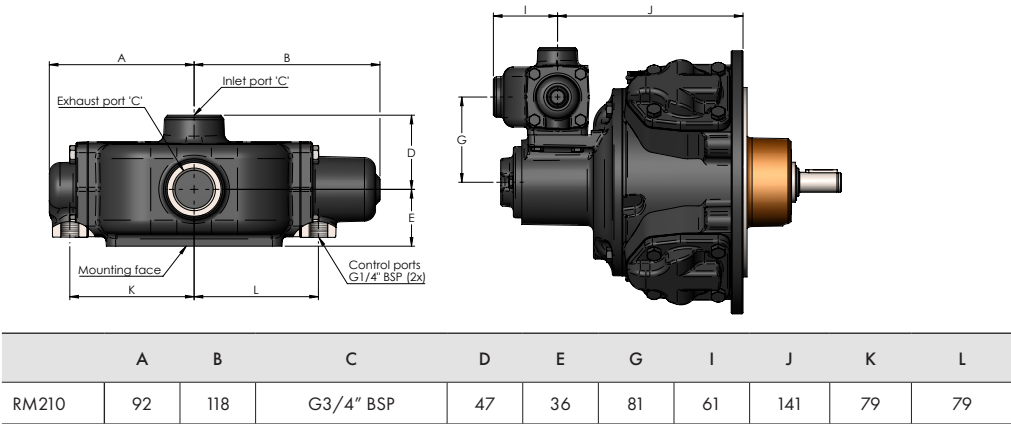


Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
01	802-052	Set Screw M10 x 20	4	19	808-072	U Packing U110	2
03	808-090	Bonded Seal 1/4" BSP Dowty	2	20	112-014	Piston Block	1
04	816-004	Banjo Bolt Only 1/8 BSP	1	21	102-011	Brake Piston	2
05	816-005	Banjo Bolt C/W/ Nut&Rin 5/16	1	22	112-013	Block Support Plate	1
06	112-001	Brake Wheel	1	23	802-012	Hex Head Screw M6 x 12	2
07	806-001	Dowel Dia 10 x 30 lg	2	24	804-003	Circlip 14mm External	1
09	112-008	Brake Housing	1	25	811-022	Key K123 5Sq	1
10	100-049	Shim - Output	5	26	112-901	Brake Shoe Assembly	2
11	100-035	RM100 Output Shaft Spacer	1	27	112-005	Output Shaft	1
12	804-006	Circlip 19mm External	1	28	807-007	Ball Bearing	2
13	102-009	Brake Spring Adjuster	2	29	804-051	Circlip 47mm Internal	2
14	102-024	1/2" BSP Hex Nut	2	30	808-043	Oilseal 20x47x10/R4	1
15	814-002	Spring 223612	2	32	112-003	Brake Shoe Pivot	2
16	802-016	Hex Head Screw M6 x 16	4	33	804-121	Circlip 3/8" External Ander	2
17	112-030	Piston Block Gasket	1	34	7008G18	Breather plug 1/8 BSPP (ATEX Only)	1
18	802-020	Hex Head Screw M6 x 20	2				

Dimensions & Performance RM210 + HCV



Dimensions & Performance RM210 + RCV



Operational principle RM210 Control Valve Options

This range of bolt on valves offers very sensitive speed and directional control. One frictional matched spool and sleeve assembly is offered with two alternative means of actuation.

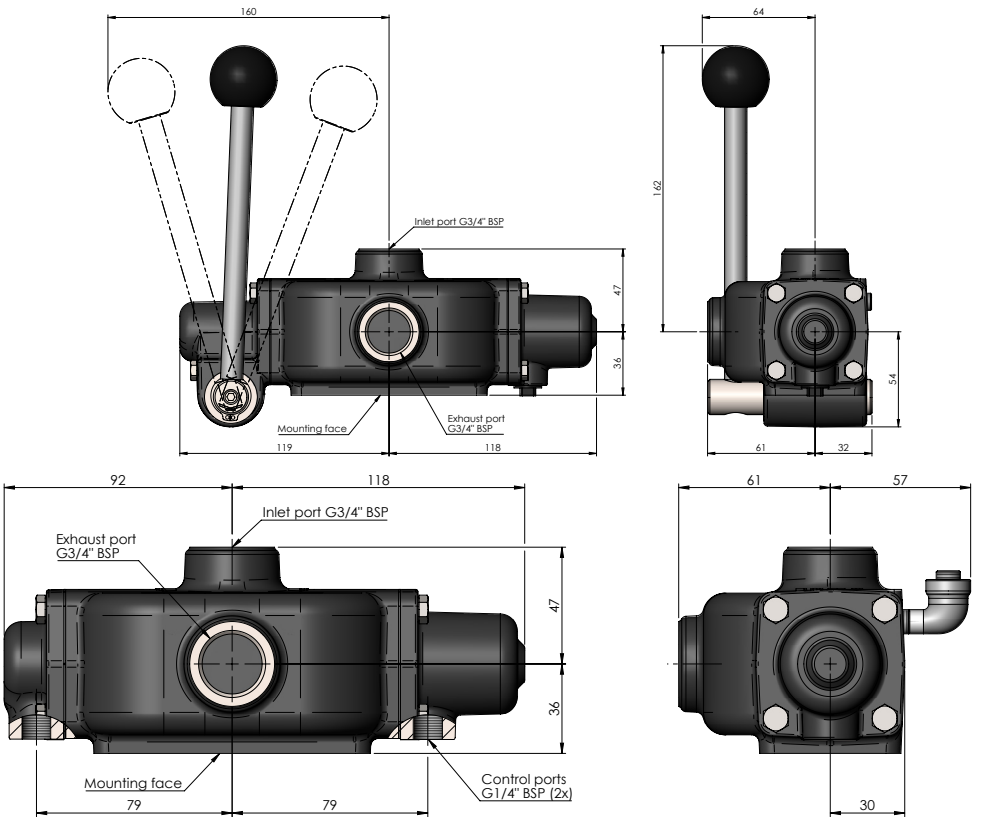
Configuration

As standard these valves can be supplied with either **EQUAL POWER OR BIASED POWER** spools, the latter is suitable for hoisting applications (normal power for lifting - reduced power for lowering). The direction of reduced power must be stated when ordering CW or CCW, when viewed on the output shaft of the motor.

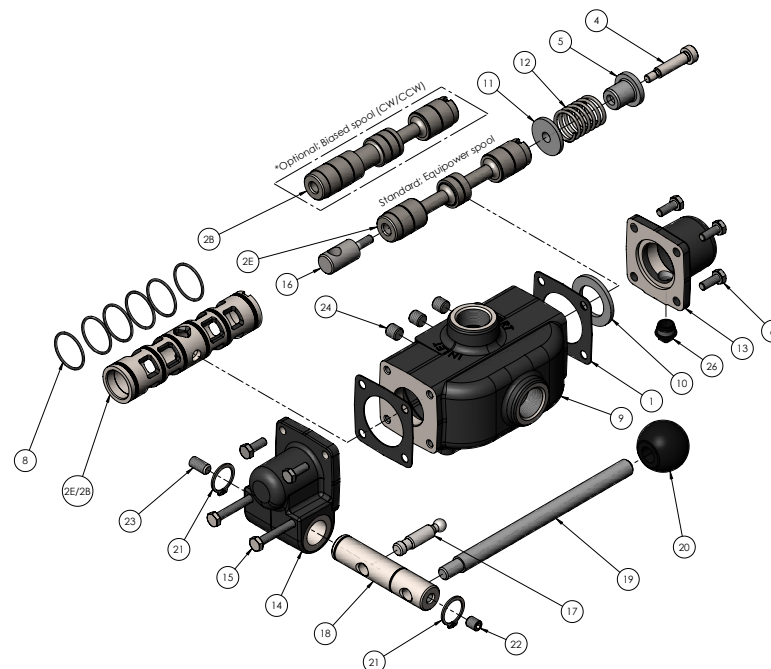
Hand Controlled (HCV) - The control valve spool is operated directly by a lever mechanism. Speed increase is obtained as the lever is moved in either direction from the centre (neutral) position.

Remotely Controlled (RCV) - This option is usually controlled from a remote position by one of the PC series or LC2 remote controllers. A variable air pilot signal is applied to either end of the valve spool, depending on the required direction of motor rotation. The pilot pressure range is between 1.4 bar (20 psi) and 4.8 bar (70 psi), increased pilot pressure gives increased speed. The valve is spring centred to neutral.

Pressure Drop - Minimal pressure drop will be experienced through the valves, having the effect of maintaining the output torque whilst reducing the motor output speed by approximately 10-15% at 6 bar (90 psi) at maximum power. The starting torque remains unaffected.



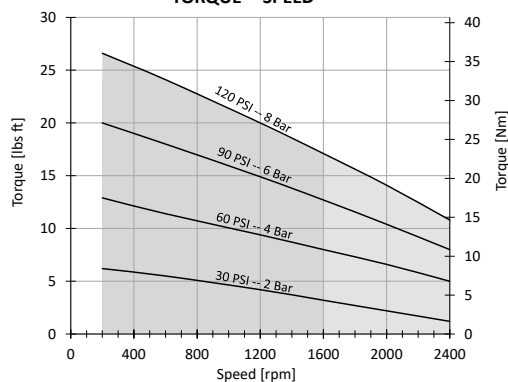
Spare Parts List Hand Control Valve



Item	Part No.	Description	Qty
01	111-066	End Cap Gasket	2
02E	221-913	Matched Spool and Sleeve	1
02B	221-914	Matched Spool and Sleeve	1
4	817-003	Shoulder Screw 8 mm	1
5	111-071	Centering Shaft Guide	1
6	802-016	Hex Head Screw M6 x 16	6
8	808-027	O Ring 27,5 x 30	6
9	221-060	Valve Body	1
10	111-068	Valve Sleeve Spacer	1
11	111-072	Washer, Spring Centering	1
12	814-016	Spring 323714	1
13	111-064	End Cap - Spring End	1
14	113-041	Lever Cap	1
15	802-024	Hex Head Bolt M6 x 50	2
16	113-024	Toggle Shaft	1
17	113-026	Toggle Pin	1
18	113-008	Hand Lever Pivot	1
19	113-002	Hand Lever	1
20	818-003	Black Plastic Knob 31mm	1
21	804-013	Circlip 20mm External	2
22	815-010	Grub Screw M8 x 10	1
23	815-002	Grub Screw M8 x 16	1
24	016-063	Plug 1/8" BSPT Sq. Head	3
26	113-050	Vent Plug	1

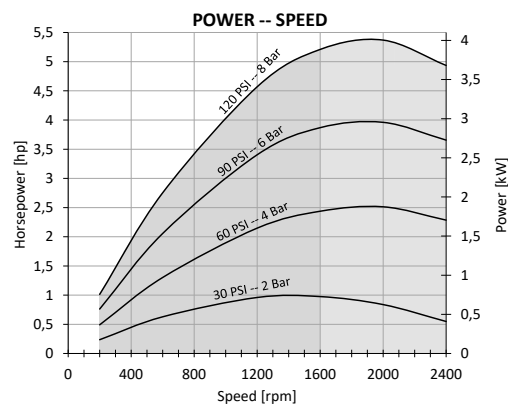
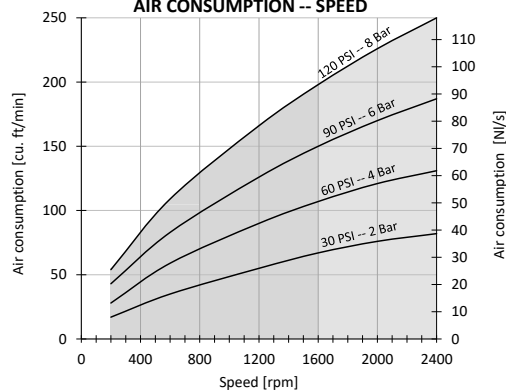
Gearbox ratio: None

TORQUE -- SPEED



No Control Valve fitted

AIR CONSUMPTION -- SPEED



Pressure	Starting torque	Max. Power	Speed*	AIR*
	lbs ft	HP	RPM	cu. ft / min
30 PSI	3	1,0	1400	61
60 PSI	8	2,5	1900	118
90 PSI	14	4,0	1900	165
120 PSI	19	5,4	1900	220
	Nm	kW	RPM	l / sec
2 bar	3	0,7	1400	29
4 bar	11	1,9	1900	56
6 bar	18	3,0	1900	78
8 bar	26	4,0	1900	104

* at max power

Temperature Range:

Without brake: -20°C to +60°C (-4°F to +140°F).

With brake: -10°C to +60°C (-14°F to +140°F).

Airsupply Lubrication Drop Rate:

Continuous operation: 4-5 drop / minute.

Intermittent operation: 8-10 drop / minute.

Pressure Drop Valves:

Minimal pressure drop will be experienced when a valve is fitted, having the effect of maintaining the output torque while reducing the motor output speed by approximately 10-15% at 6 bar / 90 psi at maximum power. The starting torque remains unaffected.

Maximum Speed: 2400 rpm

Life time depends highly on operational speed and air pressure.

Ordering code

Select easily with the ordering code your version and order it at our sales team. Do you have special wishes? For example ATEX Certified, different mountings, brakes etc. You name it and we make it possible. Contact us for your wishes and we will be happy to engineer a proposal to suit your requirements.

X = Motor Only Maleshaft
D = Motor + Brake
M = Motor Only Female Shaft
N = SAE 'C' Hydraulic Pump Output
V = Grease Lubricated for Shaft Upwards Operation

A = Motor with Inlet Plate
H = Hand Lever Control Valve
R = Remote Controlled Valve
X = No Valving or Adaptor Plate

OUTPUT OPTIONS

VALVE OPTIONS

0 = Standard Motor & Ancillaries, for Standard Mounting

R43

X

XX

H

1

0

NOMINAL GEARBOX RATIO

XX = No Gearbox

VALVE

0 = BSP
1 = NPT
2 = Biased: CW Lowering (BSP)
3 = Biased: CCW Lowering (BSP)
4 = Biased: CW Lowering (NPT)
5 = Biased: CCW Lowering (NPT)

DESIGN CODE

RM110 (1.7 KW / 2.4 HP) = R14
RM210 (4 KW / 5.5 HP) = R23
RM310 (7.5 KW / 10 HP) = R33
RM410 (14 KW / 19 HP) = R43
RM510 (14 KW / 31 HP) = R52
RM610 (14 KW / 32 HP) = R62