

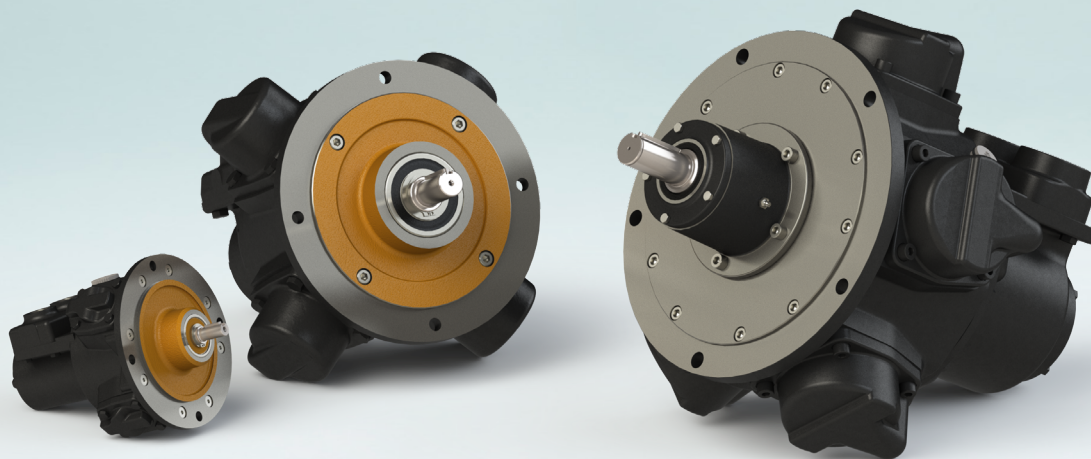


GLOBE[®] AIRMOTORS B.V.

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Specifications: RM410

Piston Air Motor



Order your
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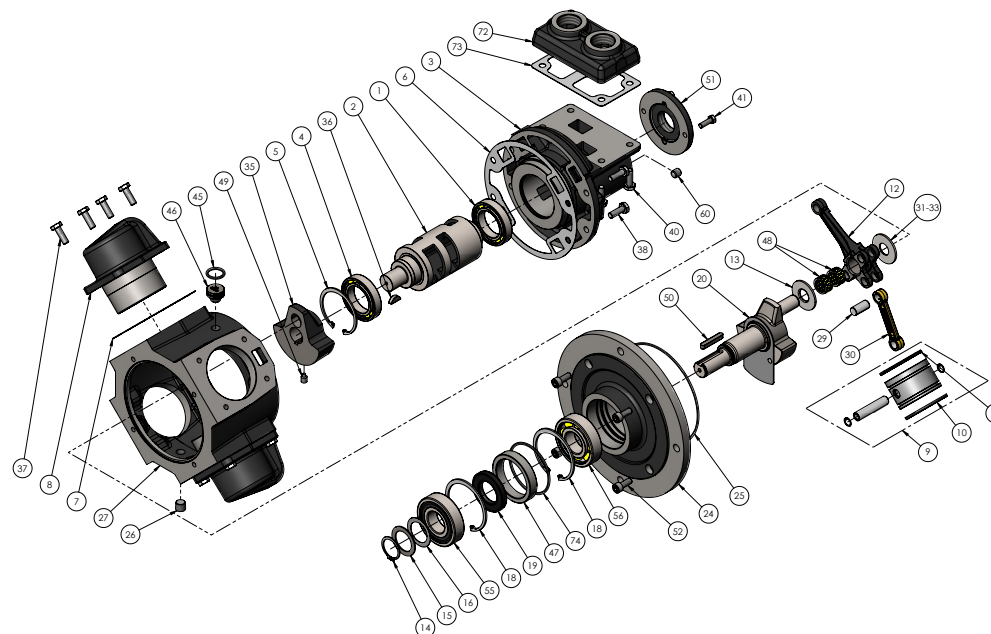
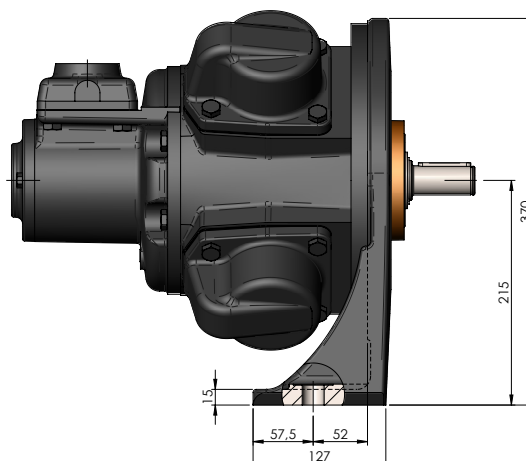
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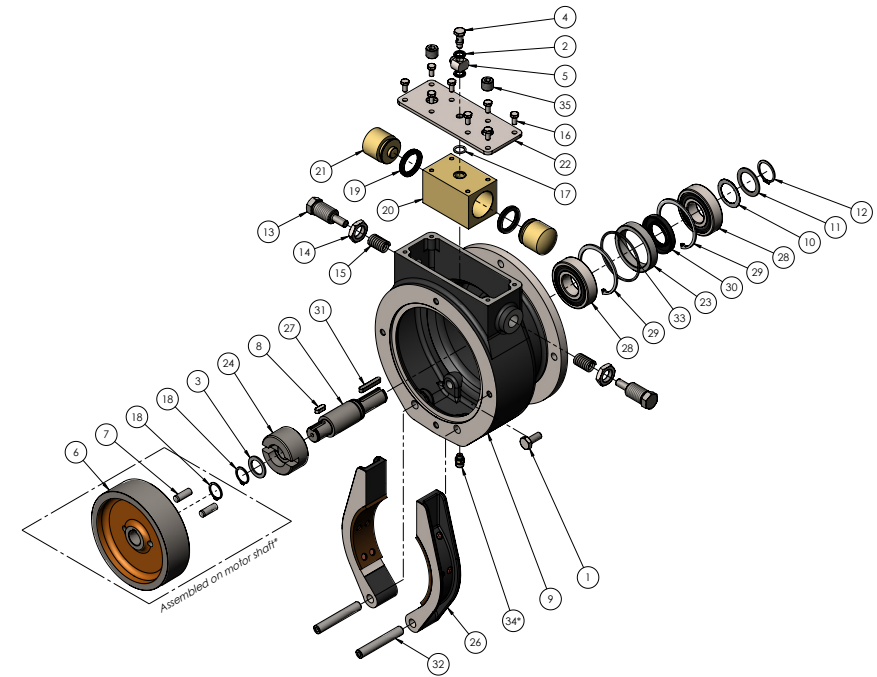
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Spare Parts List RM410

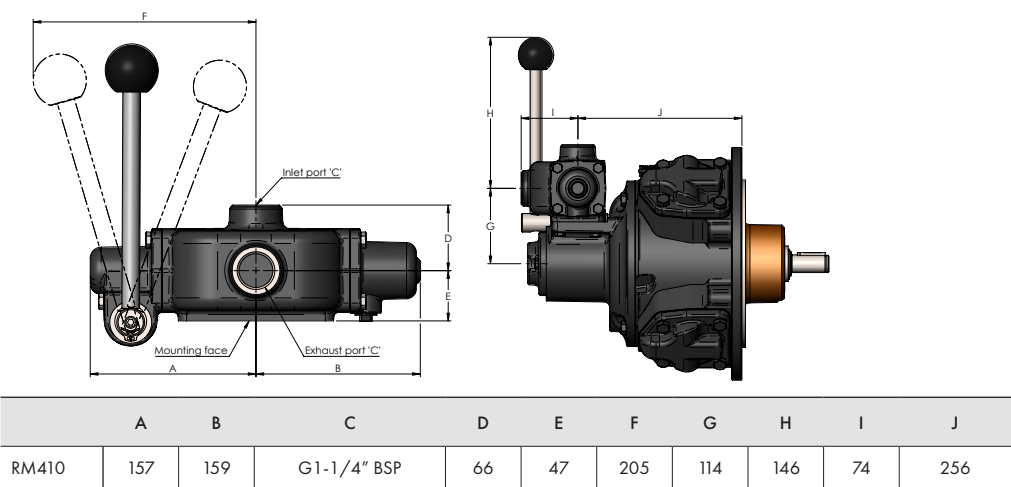


If unit is pre 1990 supplied, consult manufacturer to confirm design.

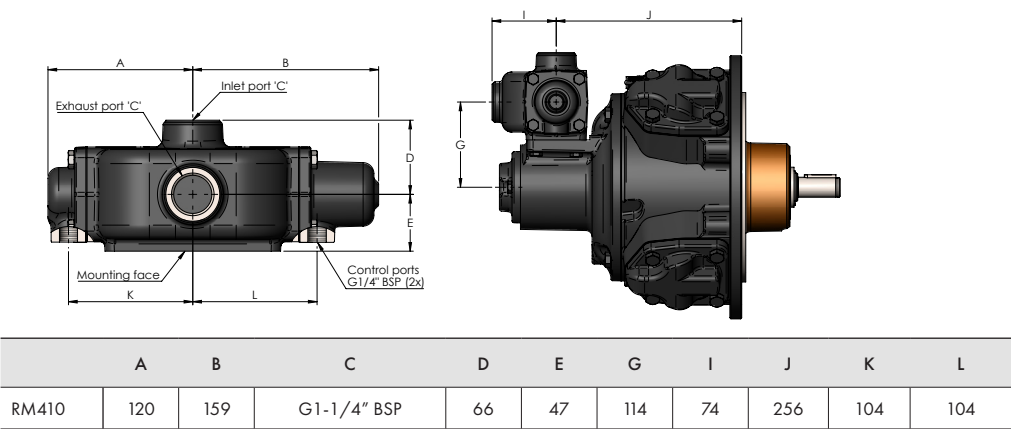
Spare Parts List Parking Brake

3 · GLOBE Airmotors | Piston Air Motor | Specifications RM410

Dimensions & Performance RM410 + HCV



Dimensions & Performance RM410 + RCV



Operational principle RM410 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.

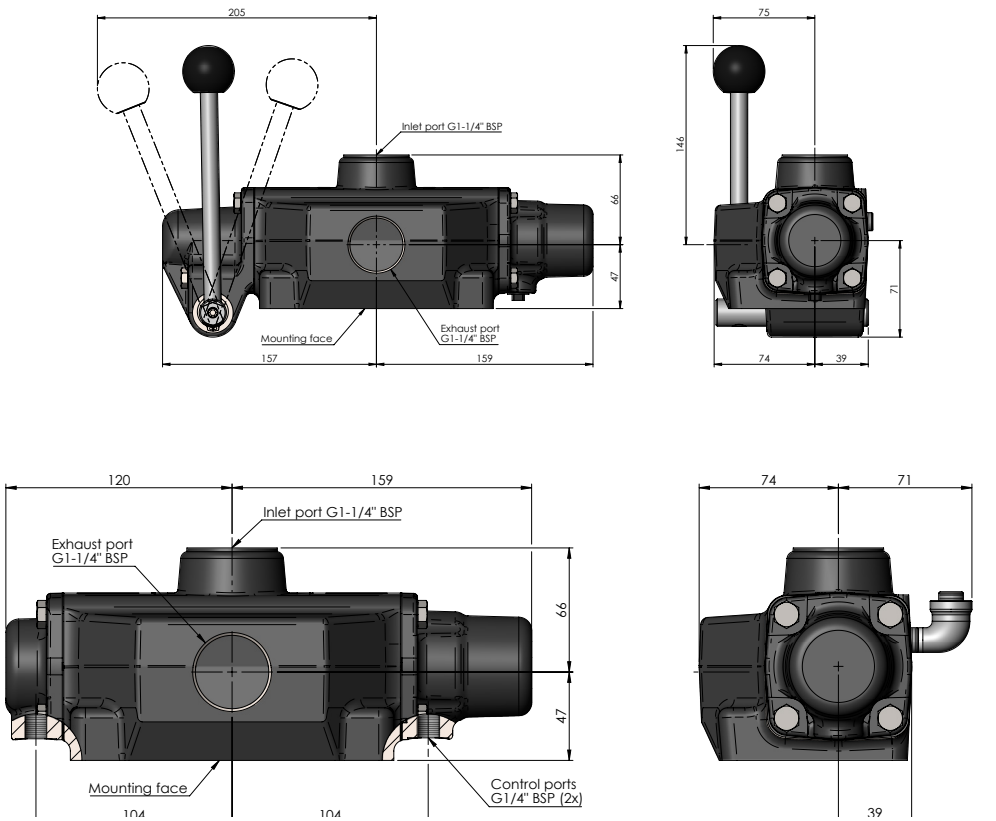
Configuration

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.

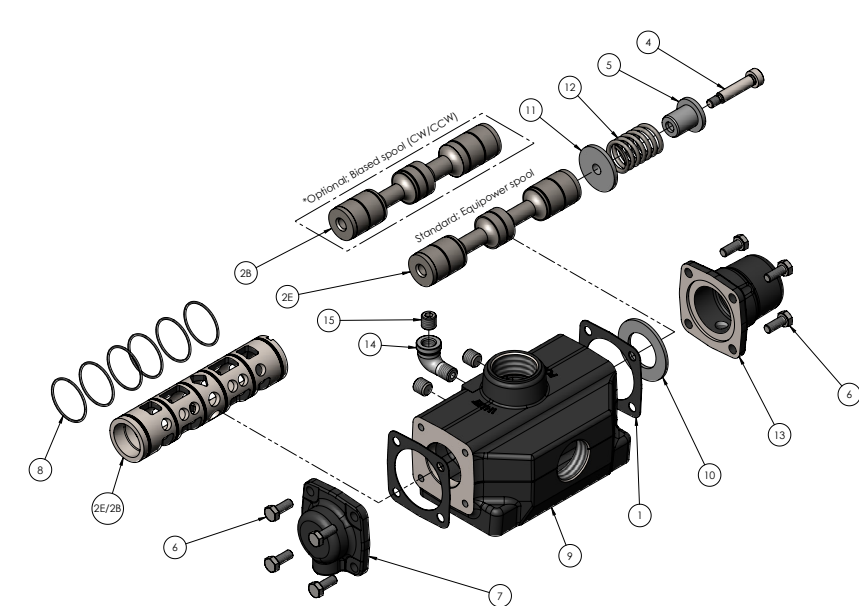
Hand Controlled (HCV) - The control valve spool is operated directly by a lever mechanism. Speed increase is obtained as the lever is moved in either direction from the centre (neutral) position.

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.

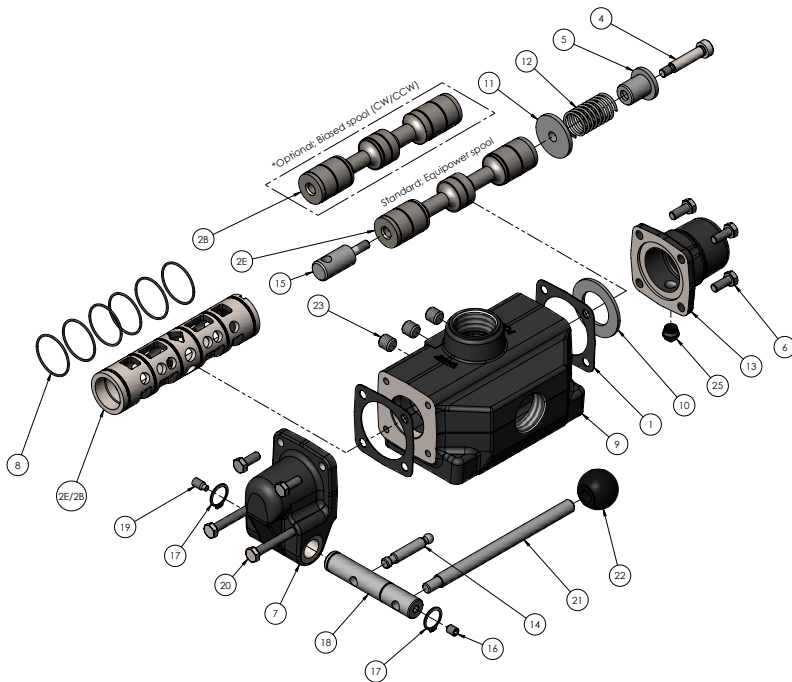


Spare Parts List Remote Control Valve



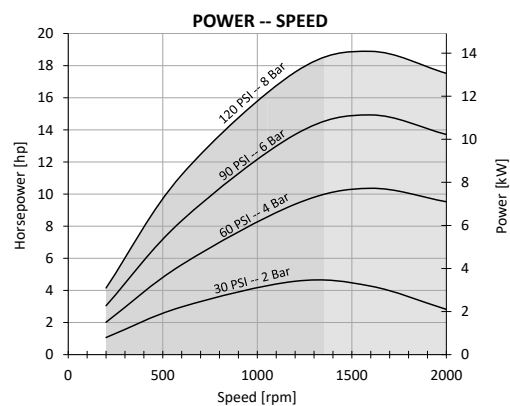
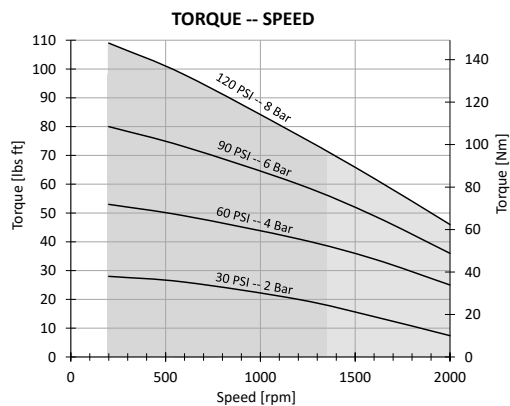
Item	Part No.	Description	Qty
1	311-066	End Cap Gasket	2
2E	431-913	Matched Spool and Sleeve	1 (Equipower)
2B	431-914	Matched Spool and Sleeve	1 (Biased)
4	817-002	Shoulder Screw 10mm	1
5	311-071	Centering Shaft Guide	1
6	802-032	Hex Head Screw M8 x 20	8
7	311-065	End Cap - Plain End	1
8	808-010	O-Ring 1-9/16" x 1-11/16"	6
9	431-060	Valve Body	1
10	311-068	Valve Sleeve Spacer	1
11	311-072	Washer, Spring Centering	1
12	311-073	Spring, Control Spool	1
13	311-064	End Cap - Spring End	1
14	816-048	Elbow M/F 1/4" BSPT	1
15	816-074	Plug 1/4" BSPT	3

Spare Parts List Hand Control Valve



Item	Part No.	Description	Qty
01	311-066	End Cap Gasket	2
02E	431-913	Matched Spool and Sleeve	1 (Equipower)
02B	431-914	Matched Spool and Sleeve	1 (Biased)
4	817-002	Shoulder Screw 10 mm	1
5	311-071	Centering Shaft Guide	1
6	802-032	Hex Head Screw M8 x 20	6
7	313-041	Hand Lever Cap	1
8	808-010	O Ring 1-9/16" x 1-11/16"	6
9	431-060	Valve Body	1
10	311-068	Valve Sleeve Spacer	1
11	311-072	Washer, Spring Centering	1
12	814-015	Spring 343/20	1
13	311-064	End Cap - Spring End	1
14	313-026	Toggle Pin	1
15	313-024	Toggle Shaft	1
16	815-010	Grub Screw M8 x 10	1
17	804-013	Circlip 20mm External	2
18	313-008	Hand Lever Pivot	1
19	815-002	Grub Screw M8 x 16	1
20	802-045	Hex Bolt M8 x 60	2
21	313-002	Hand Lever	1
22	818-002	Black Plastic Knob 1-1/2"	1
23	816-061	Plug 1/4" BSPT Sq. Head	3
25	113-050	Vent Plug	1

Gearbox ratio: None



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:

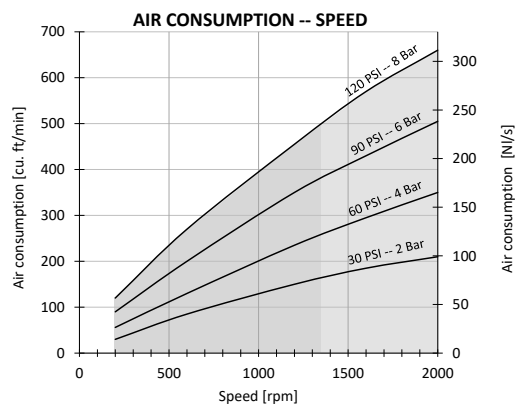
Continuous operation: 6-8 drop / minute.

Intermittent operation: 12-16 drop / minute.

Maximum Speed: 2000 rpm

Life time depends highly on operational speed and air pressure.

No Control Valve fitted



Pressure	Starting torque	Max. Power	Speed*	AIR*
	lbs ft	HP	RPM	cu. ft / min
30 PSI	18	4,8	1350	168
60 PSI	36	10,4	1600	295
90 PSI	55	14,9	1600	430
120 PSI	73	18,9	1600	570
	Nm	kW	RPM	l / sec
2 bar	24	3,6	1350	79
4 bar	49	7,7	1600	139
6 bar	74	11,1	1600	203
8 bar	99	14,1	1600	269

* at max power

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.

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