

VANE MOTORS LZB46-RL

Stainless steel and lubrication free



0.60 – 0.84 kW
0.80 – 1.13 hp

Material in parts:

- Casing and front part stainless steel: ISO 683/XIII Type 17, SS 14 2346, DIN 17440 X12CrNiS188
- Outgoing shaft and gear rim stainless steel: ISO 683/XIII Type 9b, SS 14 2321, DIN 17440 X22CrNi17
- 100% Silicon free
- Grease that conforms to Food Grade regulations

EX certification valid for fixture mounted use only with a maximum surrounding temperature of +40°C (104°F).

For optional stainless steel motor cell, vane kits and other accessories see chapter Accessories.



Data at air pressure 6.3 bar (91 psi)

Model	Max output		Speed at max output	Torque at max output		Min starting torque		Stall torque		Free speed	Air consumption at max output		Weight		Shaft loading code ¹⁾	ATEX code	Ordering No.
Lubrication free	kW	hp	r/min	Nm	lb-ft	Nm	lb-ft	Nm	lb-ft	r/min	l/s	cfm	kg	lb			
Clockwise rotation (Keyed shaft)																	
LZB46-RL-A200-11	0.84	1.13	10800	0.74	0.55	1.2	0.89	1.48	1.09	20000	16.2	34.4	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 15
LZB46-RL-A065-11	0.84	1.13	3300	2.4	1.8	3.9	2.9	4.8	3.5	6300	16.2	34.4	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 23
LZB46-RL-A040-11	0.84	1.13	2100	3.8	2.8	6.1	4.5	7.6	5.6	4000	16.2	34.4	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 31
LZB46-RL-A025-11	0.84	1.13	1270	6.3	4.6	10	7.4	12.6	9.3	2400	16.2	34.4	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 49
LZB46-RL-A015-11	0.82	1.10	740	10.5	7.7	17	12.5	21	15.5	1400	16.2	34.4	1.9	4.2	e	Ex II 2GD c T4 IIC T110°C	8411 0470 82
LZB46-RL-A010-11	0.82	1.10	480	16.5	12.2	26	19.2	33	24.3	900	16.2	34.4	1.9	4.2	e	Ex II 2GD c T4 IIC T110°C	8411 0471 08
LZB46-RL-A005-11	0.82	1.10	280	27	20	44	32	55	41	540	16.2	34.4	1.9	4.2	e	Ex II 2GD c T4 IIC T110°C	8411 0471 16
LZB46-RL-A0030-11	0.81	1.09	160	48	35	77	57	95	70	300	16.2	34.4	3.8	8.4	g	Ex II 2GD c T6 IIC T85°C	8411 0471 24
LZB46-RL-A0020-11	0.81	1.09	105	75	55	121	89	149	110	200	16.2	34.4	3.8	8.4	g	Ex II 2GD c T6 IIC T85°C	8411 0471 32
LZB46-RL-A0012-11	0.81	1.09	62	124	91	201	148	248	183	115	16.2	34.4	3.8	8.4	g	Ex II 2GD c T6 IIC T85°C	8411 0471 40
Reversible (Keyed shaft)																	
LZB46-RL-AR170-11	0.63	0.84	8500	0.71	0.52	0.96	0.71	1.42	1.0	15800	14.0	29.7	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 56
LZB46-RL-AR050-11	0.63	0.84	2600	2.3	1.7	3.1	2.3	4.6	3.4	5000	14.0	29.7	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 64
LZB46-RL-AR030-11	0.63	0.84	1670	3.6	2.7	4.9	3.6	7.2	5.3	3200	14.0	29.7	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 72
LZB46-RL-AR020-11	0.63	0.84	1000	6.0	4.4	8.1	6.0	12	8.9	1900	14.0	29.7	1.8	4.0	e	Ex II 2GD c T4 IIC T110°C	8411 0472 80
LZB46-RL-AR010-11	0.62	0.83	590	10.1	7.4	13.5	10	20	14.9	1100	14.0	29.7	1.9	4.2	e	Ex II 2GD c T4 IIC T110°C	8411 0471 57
LZB46-RL-AR007-11	0.62	0.83	370	15.8	11.7	21	15.5	32	23.3	700	14.0	29.7	1.9	4.2	e	Ex II 2GD c T4 IIC T110°C	8411 0471 65
LZB46-RL-AR004-11	0.62	0.83	220	26	19.5	35	26	53	39	420	14.0	29.7	1.9	4.2	e	Ex II 2GD c T4 IIC T110°C	8411 0471 73
LZB46-RL-AR0025-11	0.60	0.80	125	46	34	61	45	91	67	230	14.0	29.7	3.8	8.4	g	Ex II 2GD c T6 IIC T85°C	8411 0471 81
LZB46-RL-AR0015-11	0.60	0.80	80	72	53	96	71	143	105	150	14.0	29.7	3.8	8.4	g	Ex II 2GD c T6 IIC T85°C	8411 0471 99
LZB46-RL-AR0010-11	0.60	0.80	49	119	88	161	119	238	175	90	14.0	29.7	3.8	8.4	g	Ex II 2GD c T6 IIC T85°C	8411 0472 07

¹⁾ For Shaft loading curves, see page 16.

NOTE: - If running motors with 100% dry air and no lubrication, performance can be reduced with 5-15% at max output.

- To optimize life time for a lubrication free motor, use lubricated air if the application allows it.

Dimensions (mm)

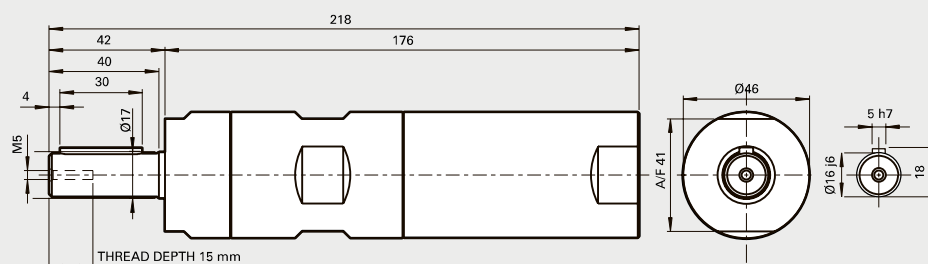
Conversion factor 1 mm = 0.04 inch

Clockwise

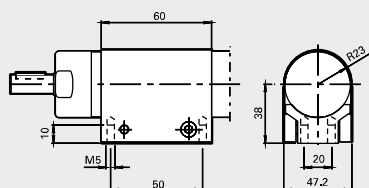
Reversible

Keyed shaft (-11)

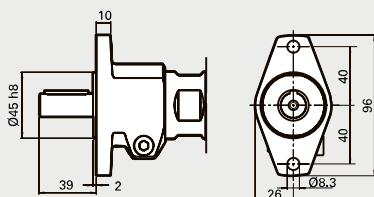
LZB46-RL-A200	LZB46-RL-AR170
LZB46-RL-A065	LZB46-RL-AR050
LZB46-RL-A040	LZB46-RL-AR030
LZB46-RL-A025	LZB46-RL-AR020
LZB46-RL-A015	LZB46-RL-AR010
LZB46-RL-A010	LZB46-RL-AR007
LZB46-RL-A005	LZB46-RL-AR004



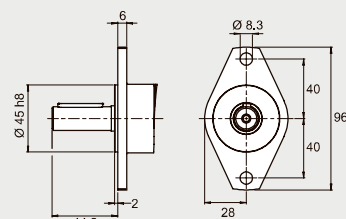
Optional mountings



Foot Ordering No. 4430 0575 81



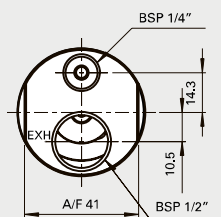
Aluminium
Flange Ordering No. 4430 0490 81



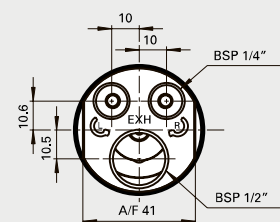
Stainless steel
Flange Ordering No. 4430 1483 80

All versions

Clockwise/
Anti-clockwise



Reversible



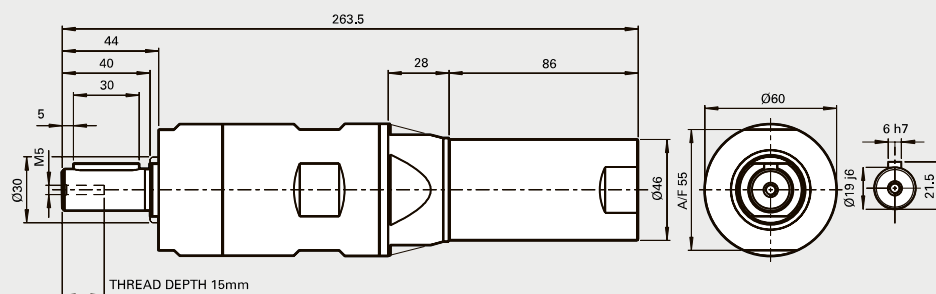
Keyed shaft (-11)

Clockwise

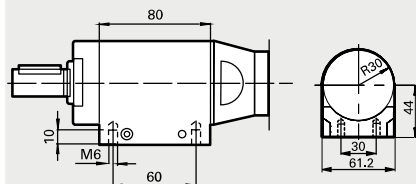
LZB46-RL-A0030
LZB46-RL-A0020
LZB46-RL-A0012

Reversible

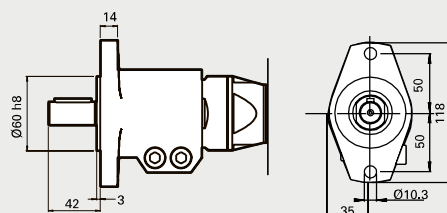
LZB46-RL-AR0025
LZB46-RL-AR0015
LZB46-RL-AR0010



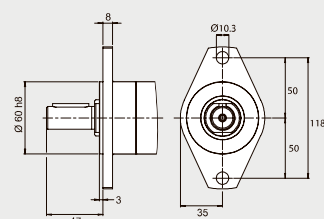
Optional mountings



Foot Ordering No. 4430 0178 81



Aluminium
Flange Ordering No. 4430 0569 84



Stainless steel
Flange Ordering No. 4430 2357 80