



GLOBE AIRMOTORS B.V.

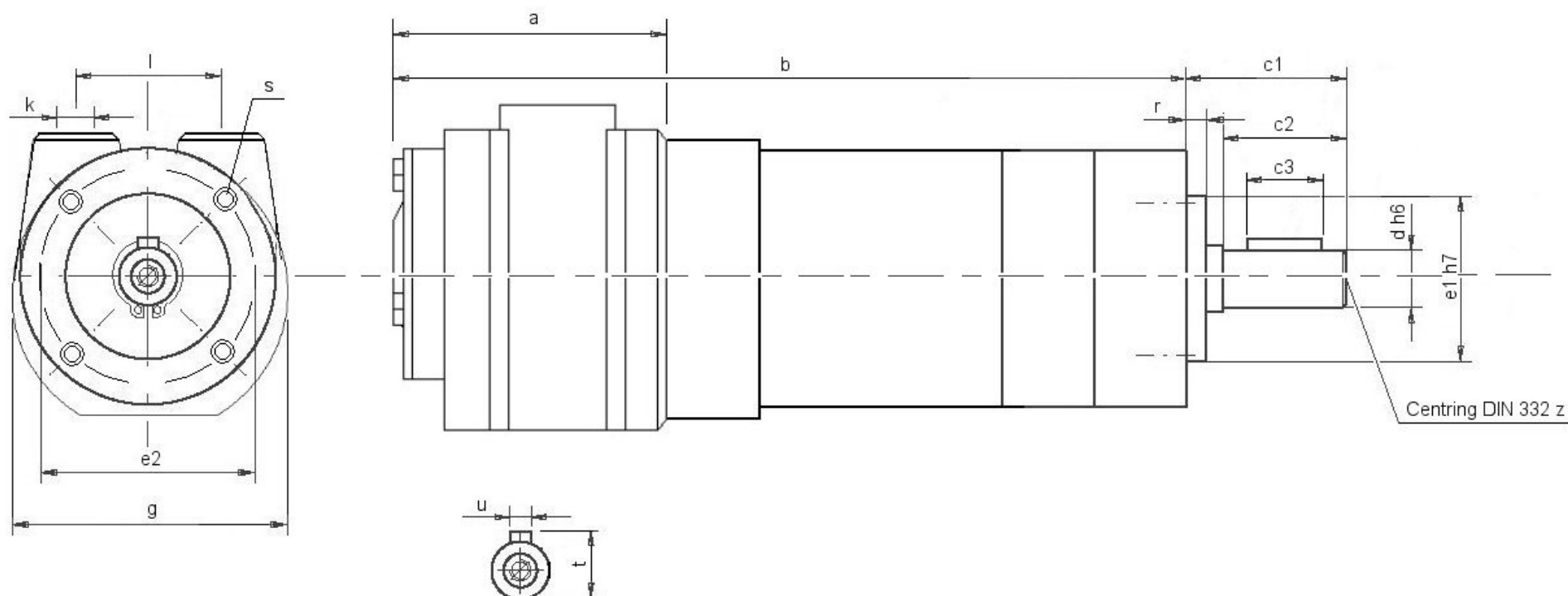


GLOBE PFG-red planetary geared vane motors

The GLOBE PFG-red motors are of the vane type and are available with a wide range of planetary reducers ranging from 3:1 to 1000:1.

GLOBE PFG-red motors are designed for light and medium industrial applications and are used in all kinds of driving, mixing and transporting applications.

- Available from 0,44 kW to 2,1 kW. Higher powers available on request.
- Easily variable speed control
- Variable torque control
- Perfect in many applications in hazardous environments
- Explosionproof conform ATEX directive EU 94/9/EC (code ATEX II cat. 2 G&D T5)
- No damage by overload or repeated starting
- Cool running
- Can be used in stall conditions
- Superior power to weight ratio
- Instantly reversible
- No shock start-up
- Maintenance-free
- standard mounting type is IEC flange or face. Other mounting types are also available.
- Suitable for oil-free operation
- Radial and axial loads permitted



Motor	i	a	b	c1	c2	c3	d	e1	e2	f	g	k	l	r	s	t	u	v	w	z
VA1PFG01	3 5 7 10	69	175	39	30	25	14k6	40h7	52	65	71	1/4"NPT	36	8	M5x10	16	5	4,2	4	DM5
VA1PFG02	16 20 28 40	69	198	39	30	25	14k6	40h7	52	65	71	1/4"NPT	36	8	M5x10	16	5	4,2	4	DM5
VA1PFG04	40 50 70 100	69	226	49	40	32	20k6	55h7	70	85	71	1/4"NPT	36	8	M6x12	22,5	6	8,3	6	DM6
VA1PFG05	on request	69	249	49	40	32	20k6	55h7	70	85	71	1/4"NPT	36	8	M6x12	22,5	6	8,3	6	DM6

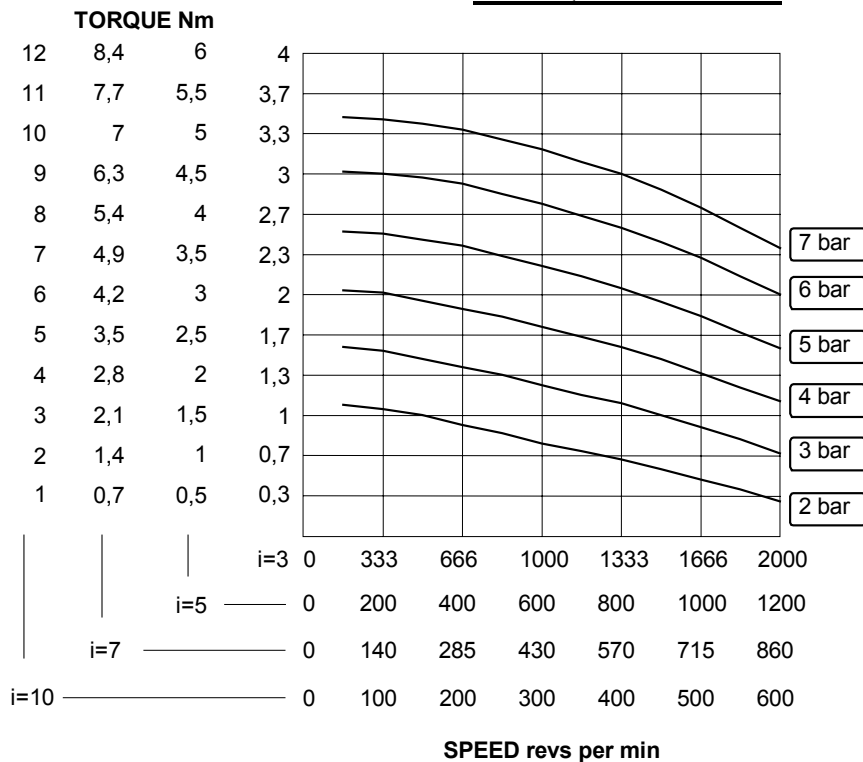


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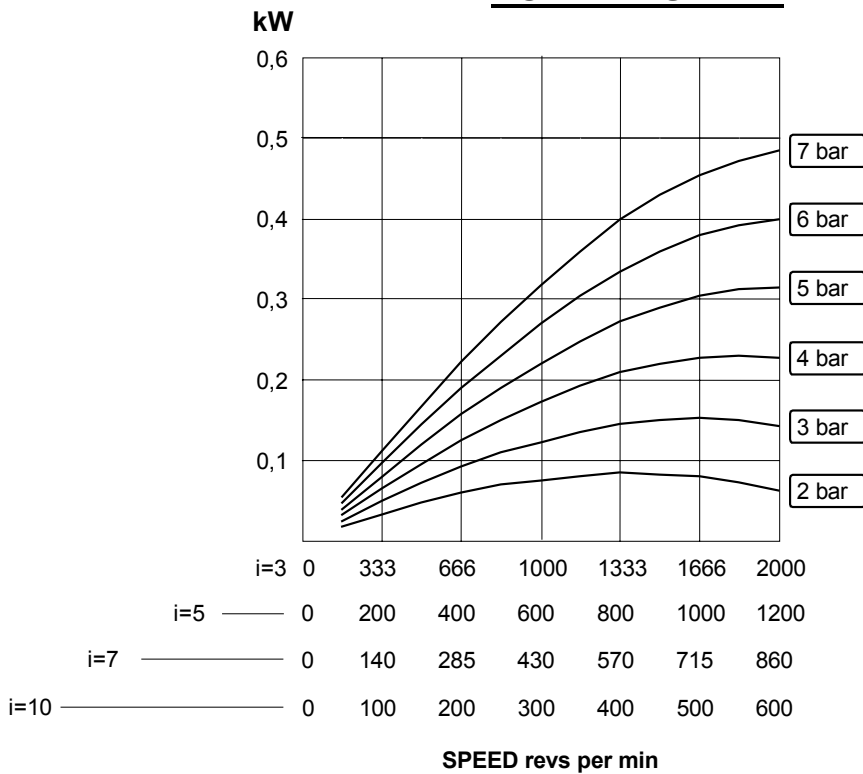
**Globe vane VA1 airmotors
with planetary gearbox**



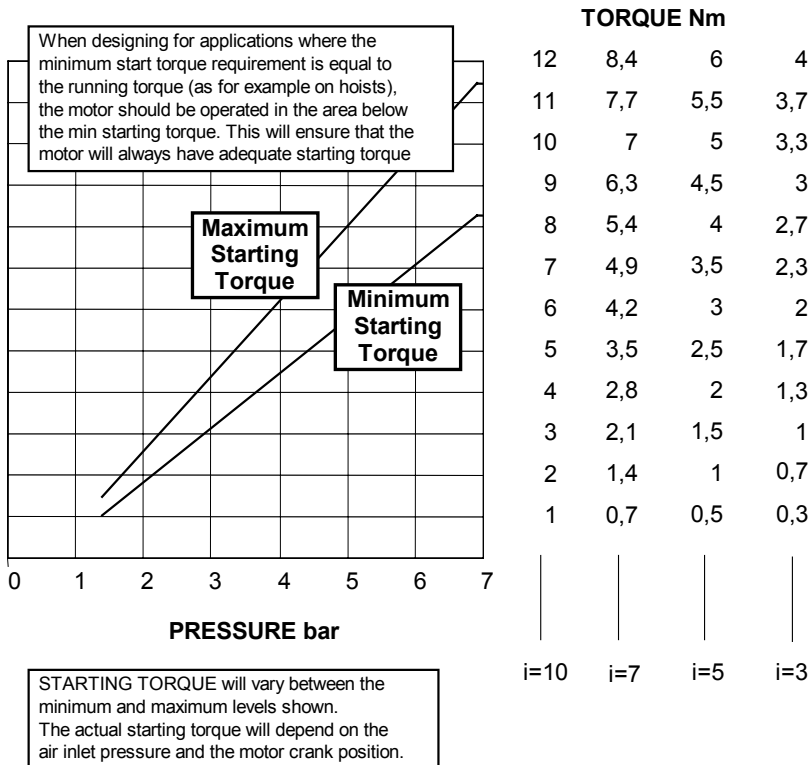
TORQUE - SPEED



POWER - SPEED



TORQUE - PRESSURE



Motor is reversible

Attitude: The motor can be operated in all positions

Maximum temperature -20°C to +80°C (-4°F to +176°F)

Max. Overhung Force on motor shaft 18 N (4.0 lbf.)

Axial loads should be kept to a minimum

AIRLINE FILTRATION AND LUBRICATION

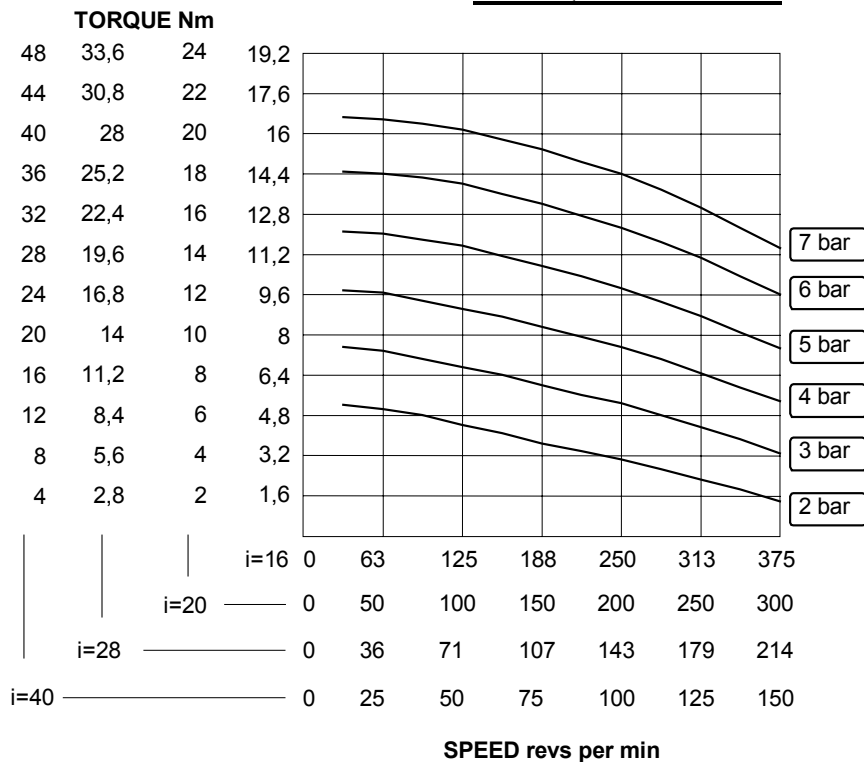
Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port

Lubricator drop rate 4-5 drops/minute continuous operation

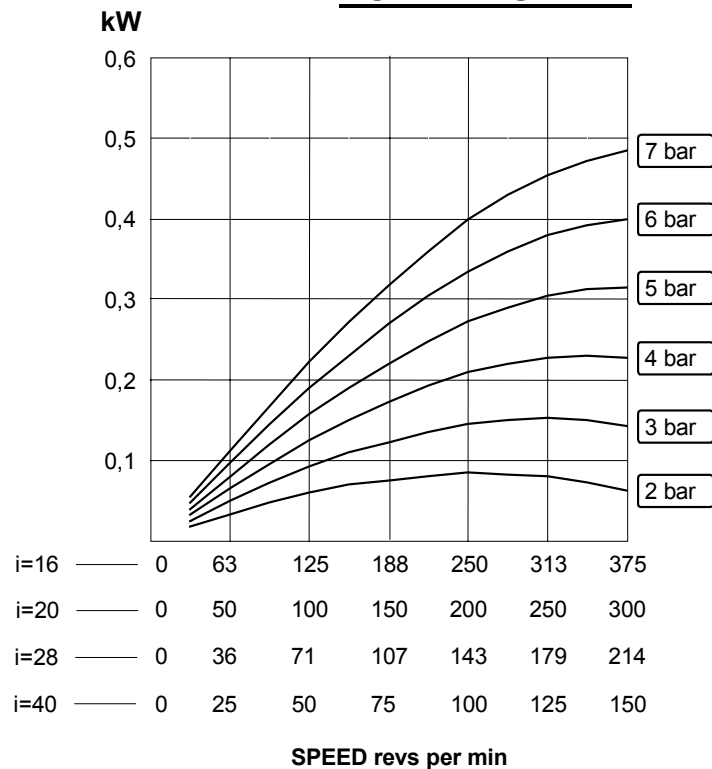
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED

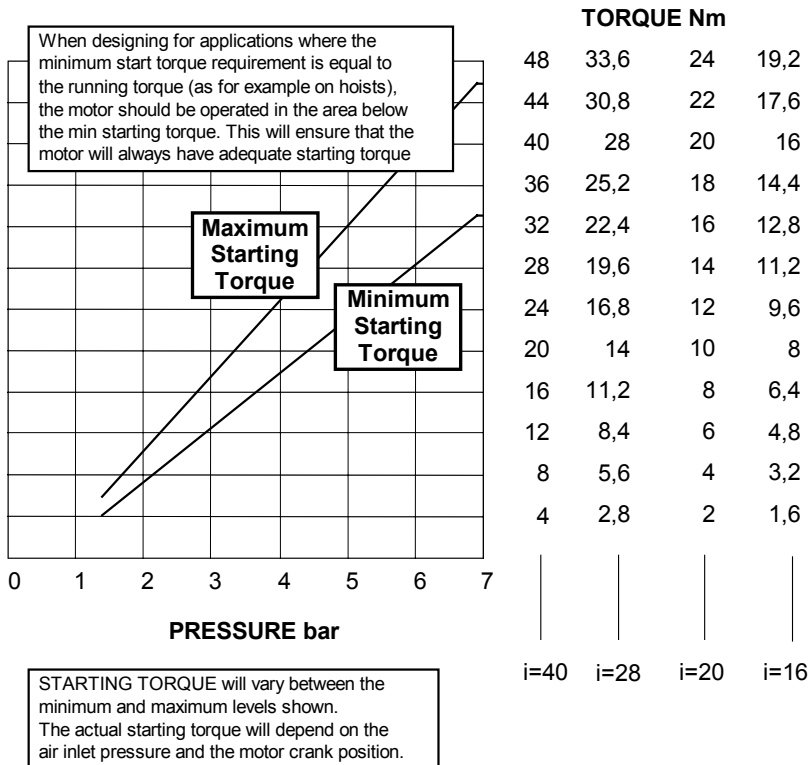


POWER - SPEED





TORQUE - PRESSURE



Motor is reversible

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Maximum temperature -20°C to +80°C (-4°F to +176°F)

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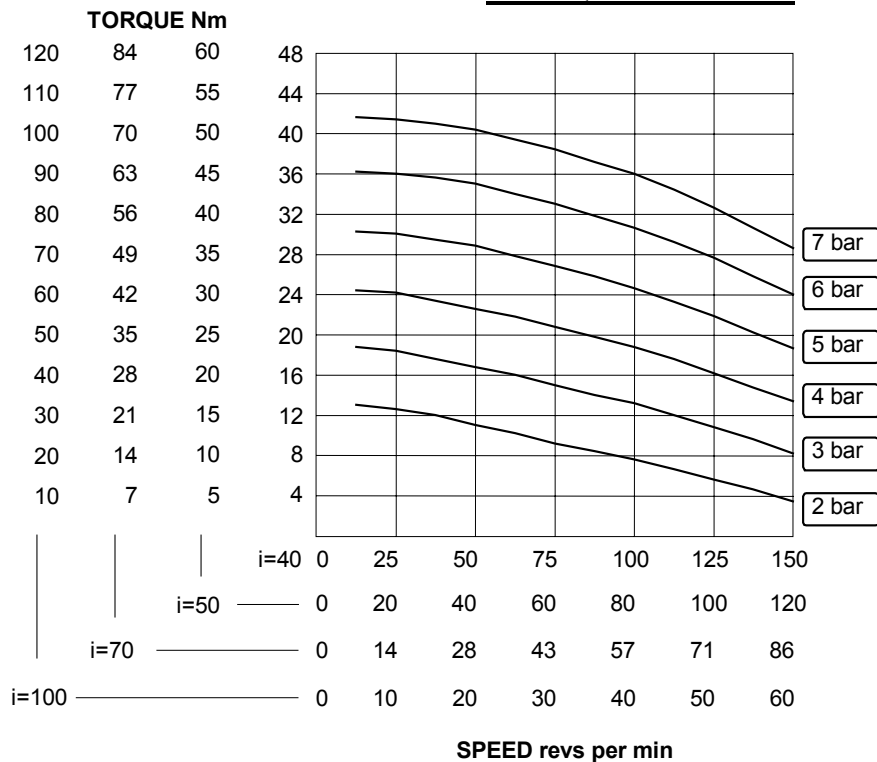
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Lubricator drop rate 4-5 drops/minute continuous operation

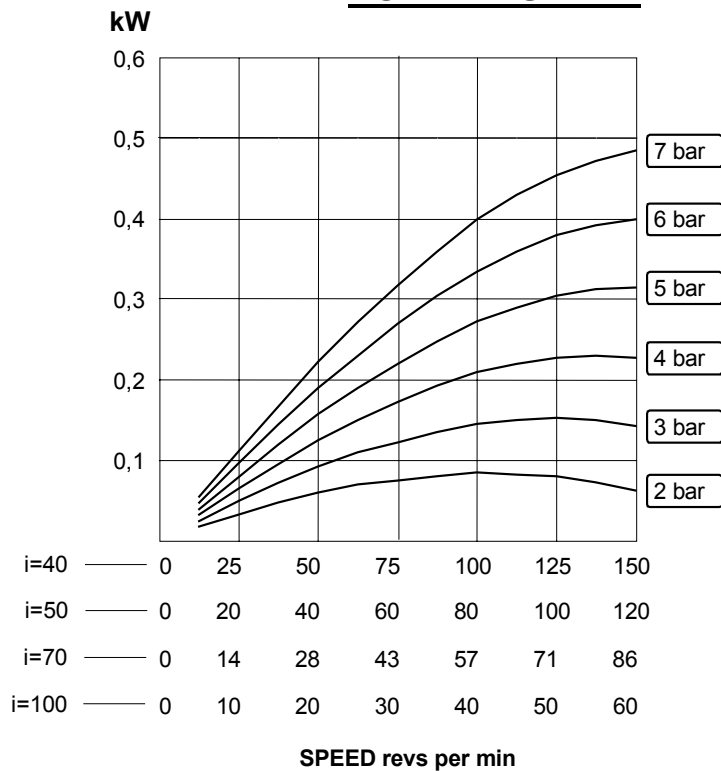
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED

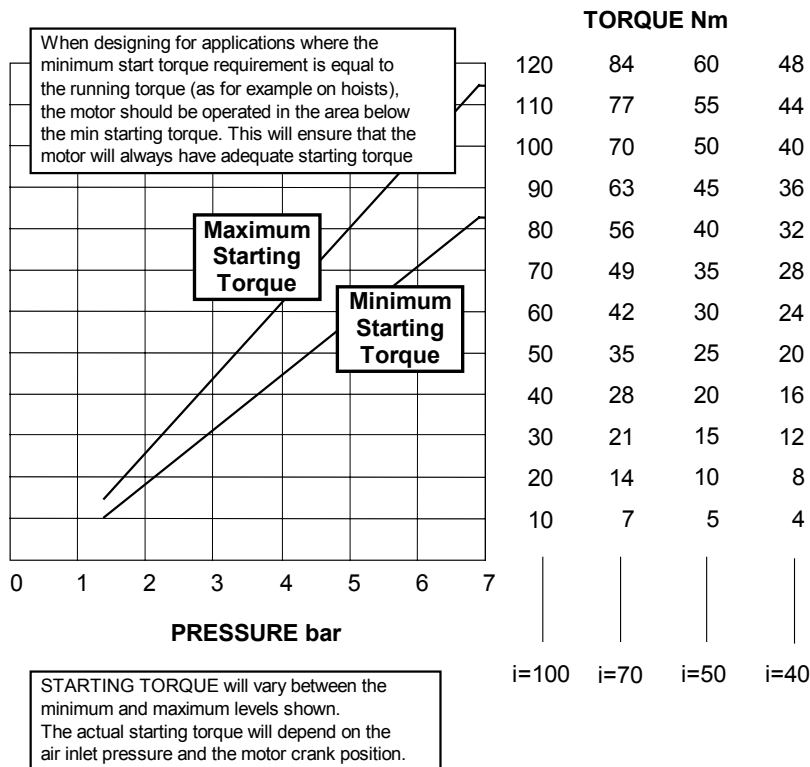


POWER - SPEED





TORQUE - PRESSURE



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Maximum temperature -20°C to +80°C (-4°F to +176°F)

Max. Overhung Force on motor shaft 18 N (4.0 lbf.)

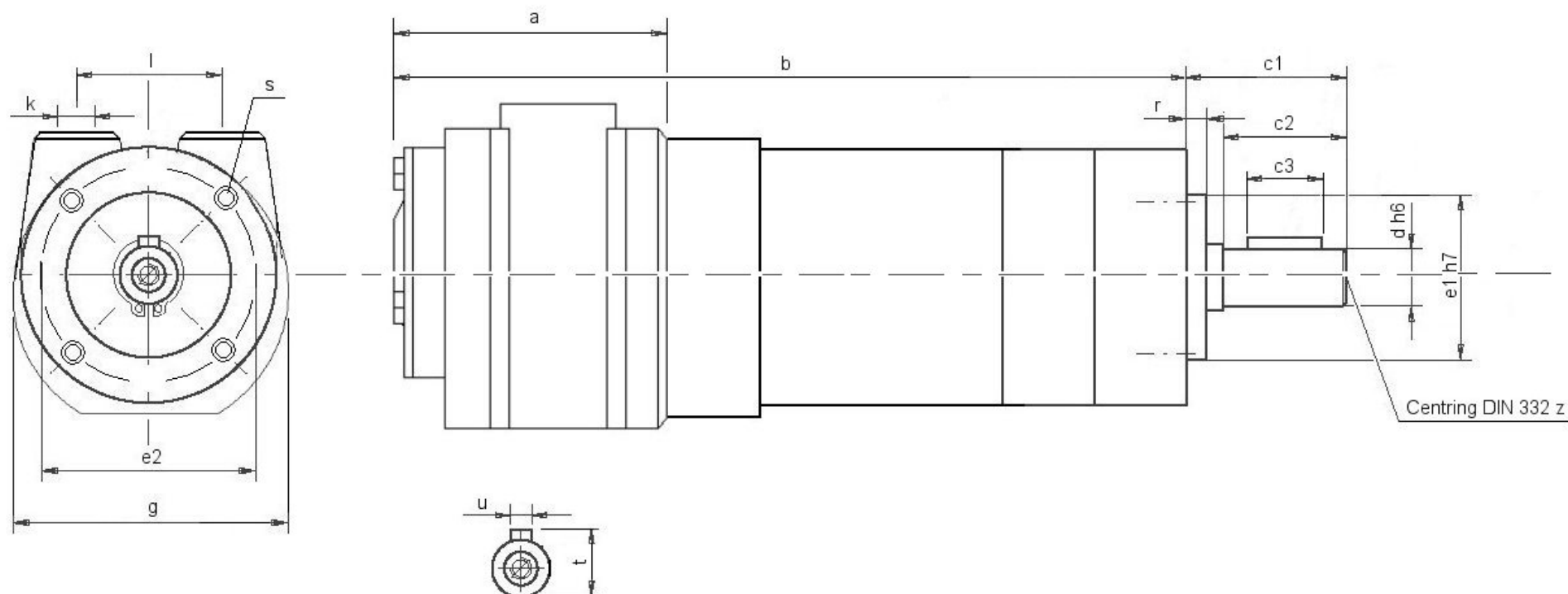
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Lubricator drop rate 9-12 drops/minute intermittent operation



	i	a	b	c1	c2	c3	d	e1	e2	f	g	k	l	r	s	t	u	v	w	z
VA2PFG01	3 5 7 10	72	174	39	30	25	14k6	40h7	52	65	102	3/8"NPT	55	8	M5x10	16	5	4,2	4	DM5
VA2PFG04	16 20 28 40 50	72	227	49	40	32	20k6	55h7	70	85	102	3/8"NPT	55	8	M6x12	22,5	6	8,3	6	DM6
VA2PFG06	70 100	72	254	61	50	40	25k6	80h7	100	120	102	3/8"NPT	55	10	M10x20	28,0	8	43	6	DM10
VA2PFG08	120 160 200	72	308	95	80	70	40k6	110h7	130	155	102	3/8"NPT	55	14	M10x20	43,0	12	43	6	DM16



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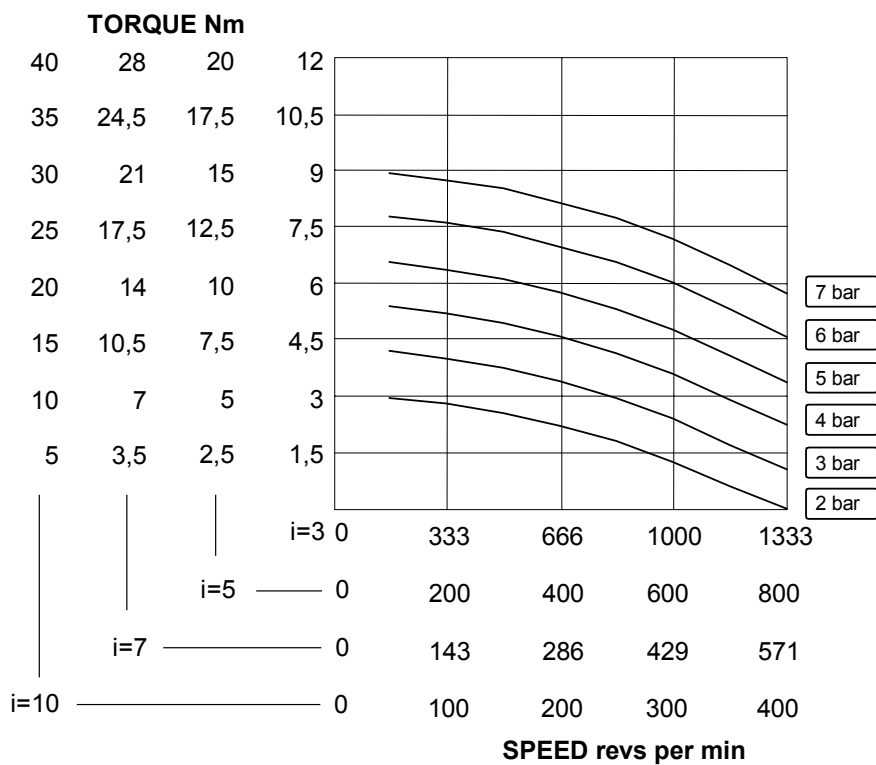
**Globe vane VA2 airmotors
with planetary gearbox**



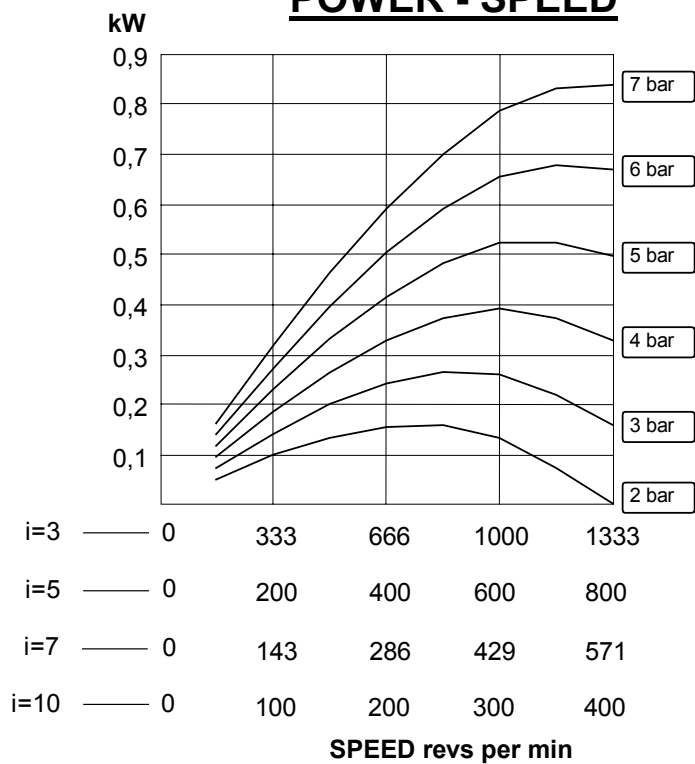
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VA2PFG01 Vane Air Motor i=3, i=5, i=7, i=10

TORQUE - SPEED



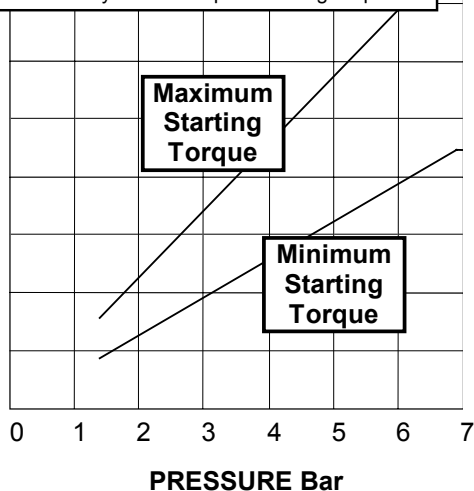
POWER - SPEED





TORQUE - PRESSURE

When designing for applications where the minimum start torque requirement is equal to the running torque (as for example on hoists), the motor should be operated in the area below the min starting torque. This will ensure that the motor will always have adequate starting torque



TORQUE Nm

40	28	20	12
35	24,5	17,5	10,5
30	21	15	9
25	17,5	12,5	7,5
20	14	10	6
15	10,5	7,5	4,5
10	7	5	3
5	3,5	2,5	1,5
i=10	i=7	i=5	i=3

STARTING TORQUE will vary between the minimum and maximum levels shown.
The actual starting torque will depend on the air inlet pressure and the motor crank position.

Muffler supplied with motor
Motor is reversible

Attitude: The motor can be operated in all positions
Maximum temperature -20°C to +80°C (-4°F to +176°F)

Max. Overhung Force on motor shaft 400 N (90 lbf.)
Axial loads should be kept to a minimum

AIRLINE FILTRATION AND LUBRICATION

Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port.

Lubricator drop rate 4-5 drops/minute continuous operation

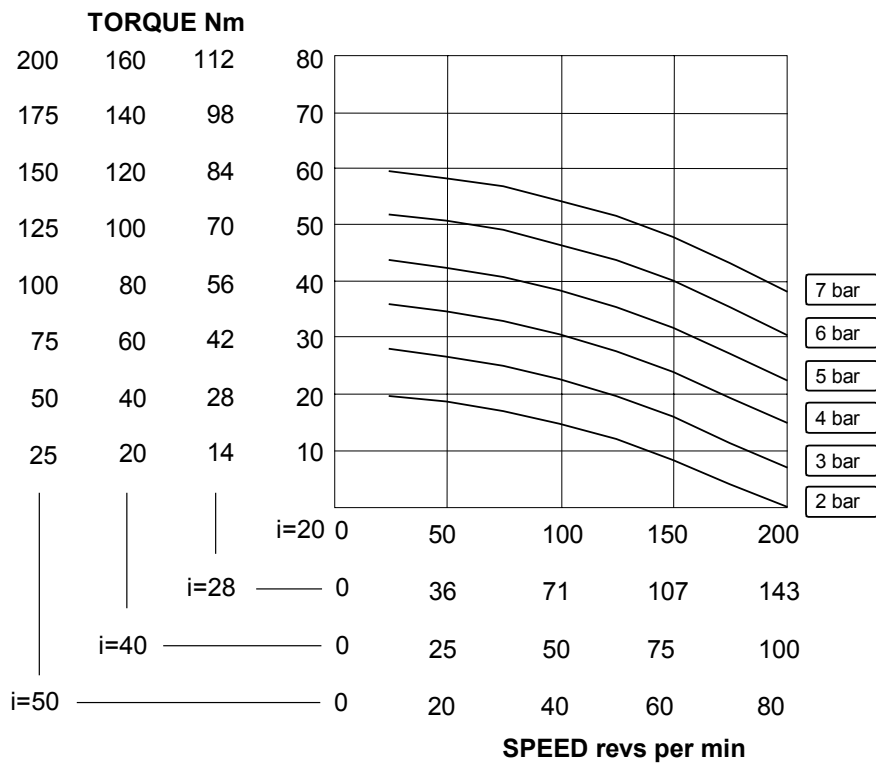
Lubricator drop rate 9-12 drops/minute intermittent operation



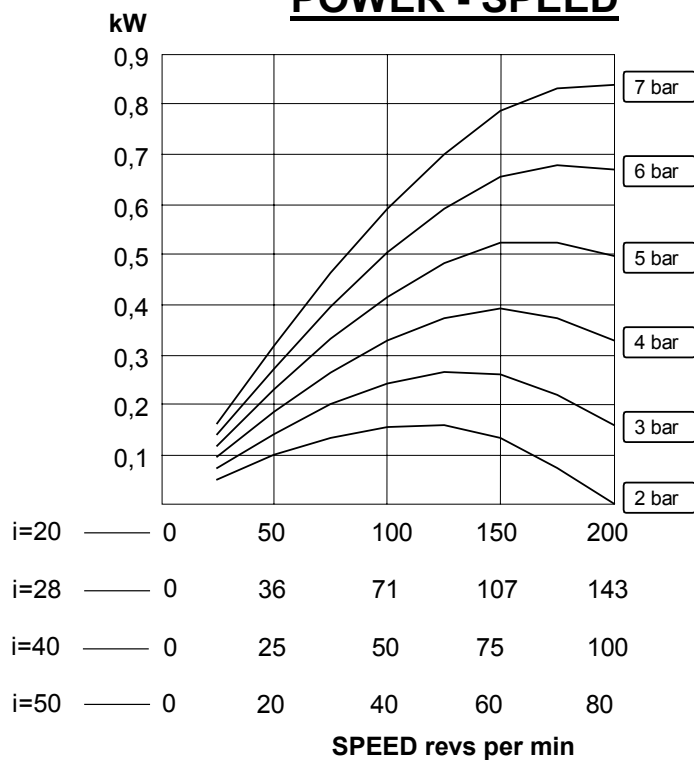
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VA2PFG04 Vane Air Motor
i=20, i=28, i=40, i=50

TORQUE - SPEED



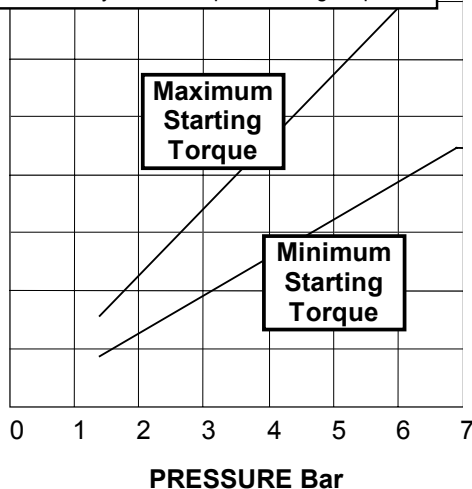
POWER - SPEED





TORQUE - PRESSURE

When designing for applications where the minimum start torque requirement is equal to the running torque (as for example on hoists), the motor should be operated in the area below the min starting torque. This will ensure that the motor will always have adequate starting torque



TORQUE Nm			
200	160	112	80
175	140	98	70
150	120	84	60
125	100	70	50
100	80	56	40
75	60	42	30
50	40	28	20
25	20	14	10
	i=50	i=40	i=28
			i=20

STARTING TORQUE will vary between the minimum and maximum levels shown.
The actual starting torque will depend on the air inlet pressure and the motor crank position.

Muffler supplied with motor
Motor is reversible

Attitude: The motor can be operated in all positions
Maximum temperature -20°C to +80°C (-4°F to +176°F)

Max. Overhung Force on motor shaft 400 N (90 lbf.)
Axial loads should be kept to a minimum

AIRLINE FILTRATION AND LUBRICATION

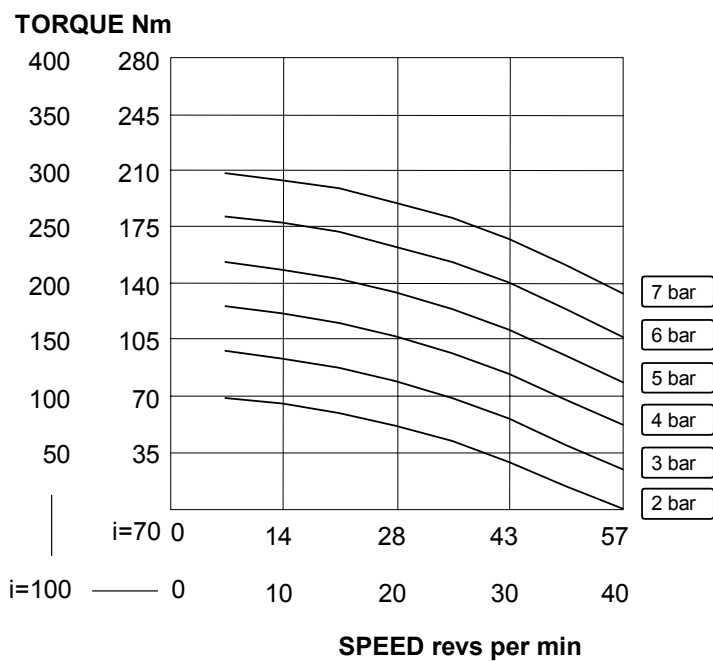
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Lubricator drop rate 4-5 drops/minute continuous operation

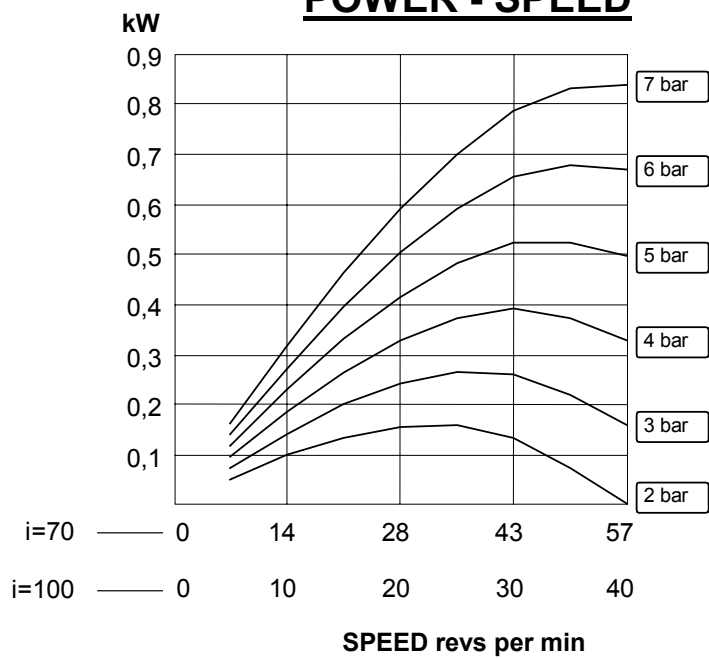
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED



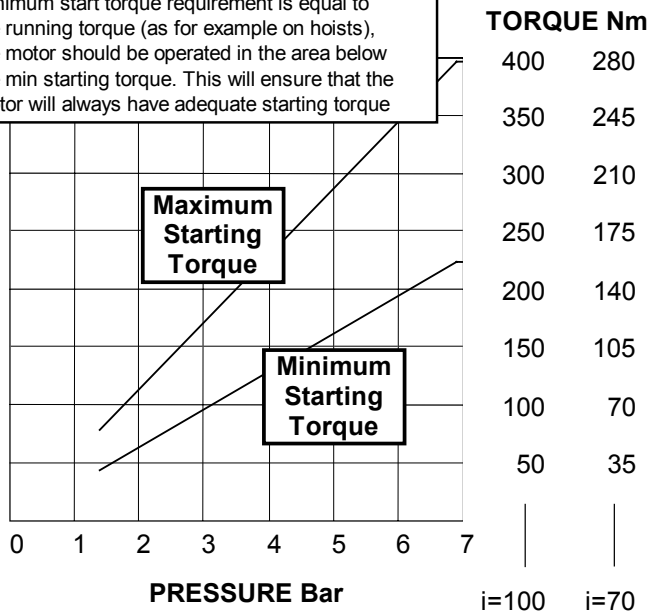
POWER - SPEED





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Lubricator drop rate 4-5 drops/minute continuous operation

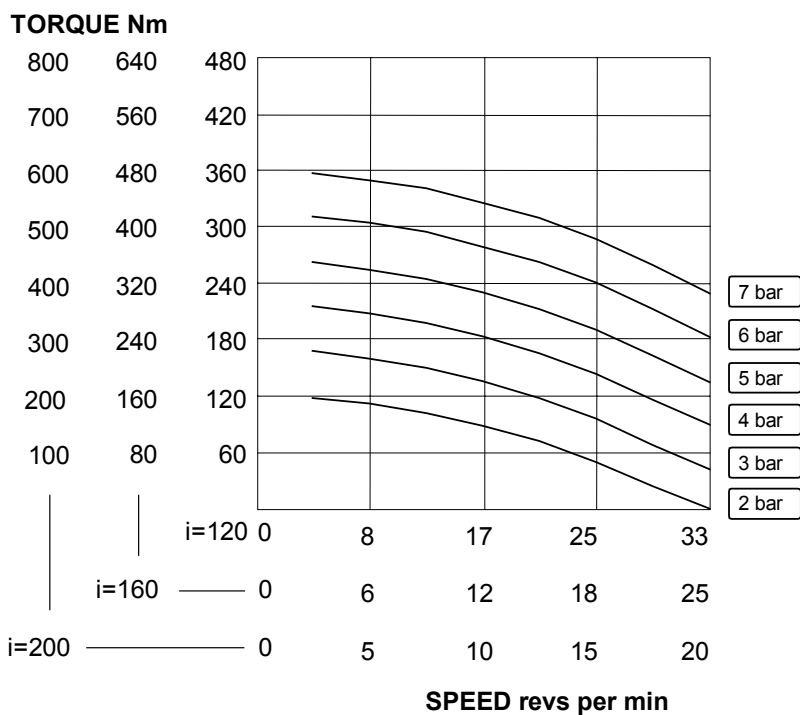
Lubricator drop rate 9-12 drops/minute intermittent operation



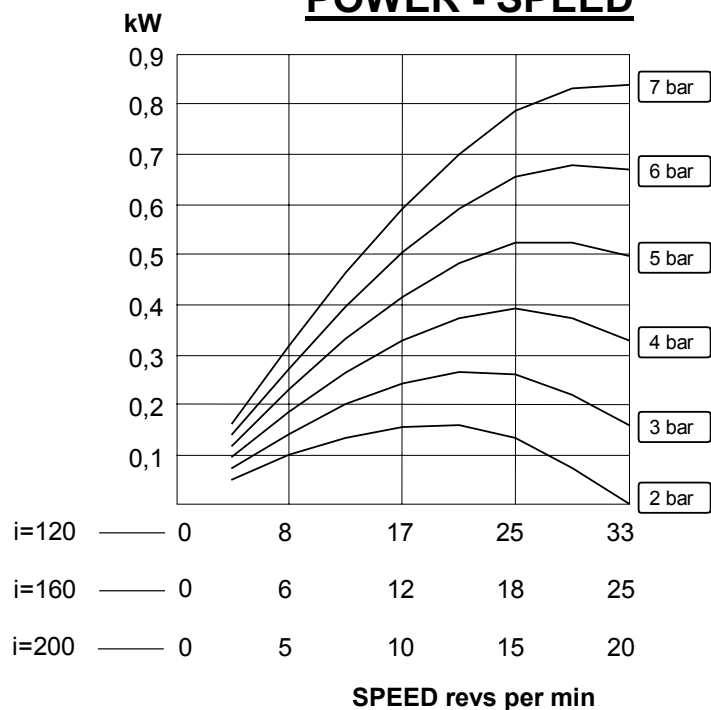
GLOBE AIRMOTORS B.V.

VA2PFG08 Vane Air Motor
i=120, i=160, i=200

TORQUE - SPEED

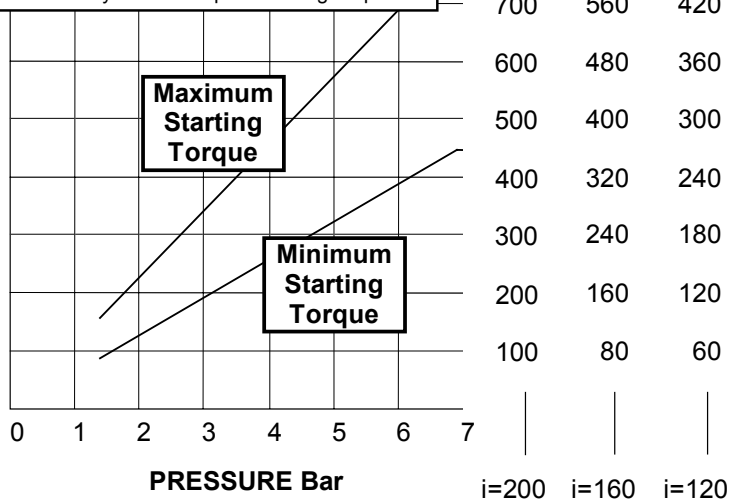


POWER - SPEED



TORQUE - PRESSURE

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Muffler supplied with motor
 Motor is reversible

Attitude: The motor can be operated in all positions
 Maximum temperature -20°C to +80°C (-4°F to +176°F)

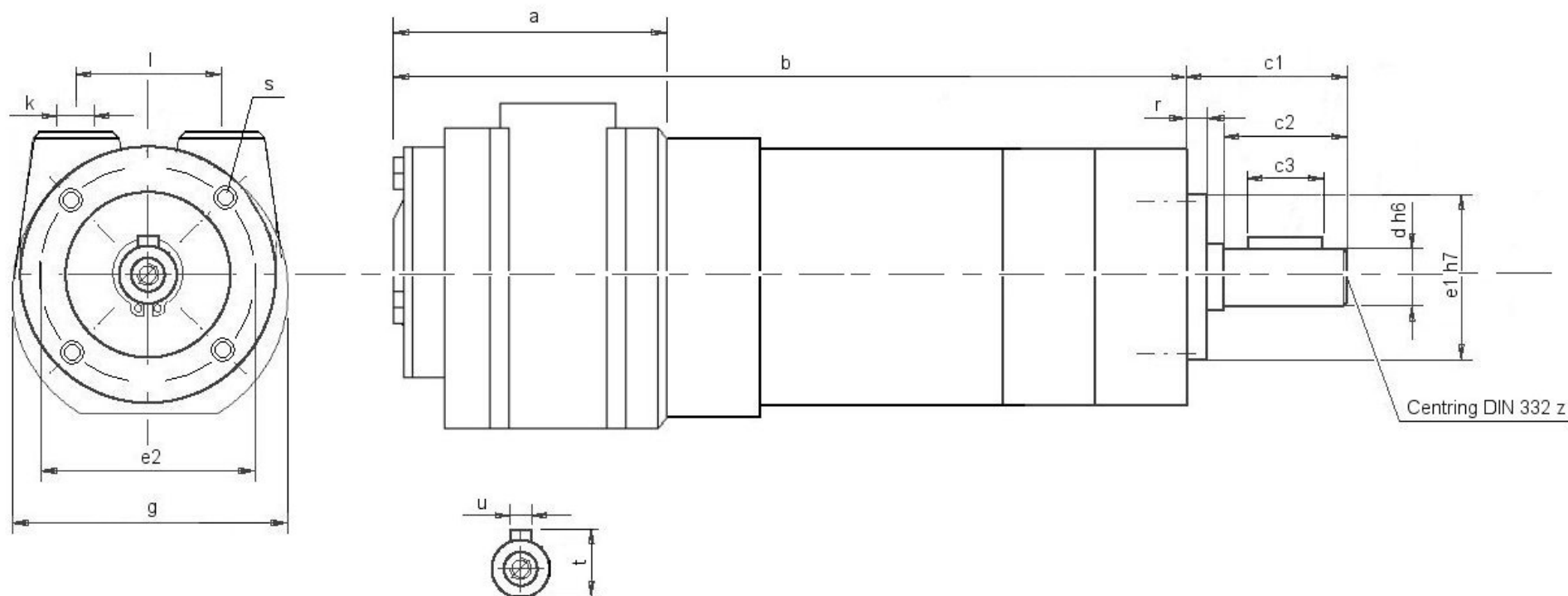
Max. Overhung Force on motor shaft 400 N (90 lbf.)
 Axial loads should be kept to a minimum

AIRLINE FILTRATION AND LUBRICATION

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Lubricator drop rate 4-5 drops/minute continuous operation

Lubricator drop rate 9-12 drops/minute intermittent operation



Motor	i	a	b	c1	c2	c3	d	e1	e2	f	g	k	l	r	s	t	u	v	w	z
VA4PFG03	3 5 7 10	89	213	49	40	32	20h6	55h7	70	85	102	1/2"NPT	55	8	M6x12	22,5	6	8,3	6	DM6
VA4PFG04	16 20	89	244	49	40	32	20h6	55h7	70	85	102	1/2"NPT	55	8	M6x12	22,5	6	8,3	6	DM6
VA4PFG06	20 28 40	89	271	61	50	40	25h6	80h7	100	120	102	1/2"NPT	55	10	M8x16	28,0	8	43	6	DM10
VA4PFG07	50 70	89	309	95	80	70	40h6	110h7	130	150	102	1/2"NPT	55	14	M10x20	43,0	12	43	6	DM16

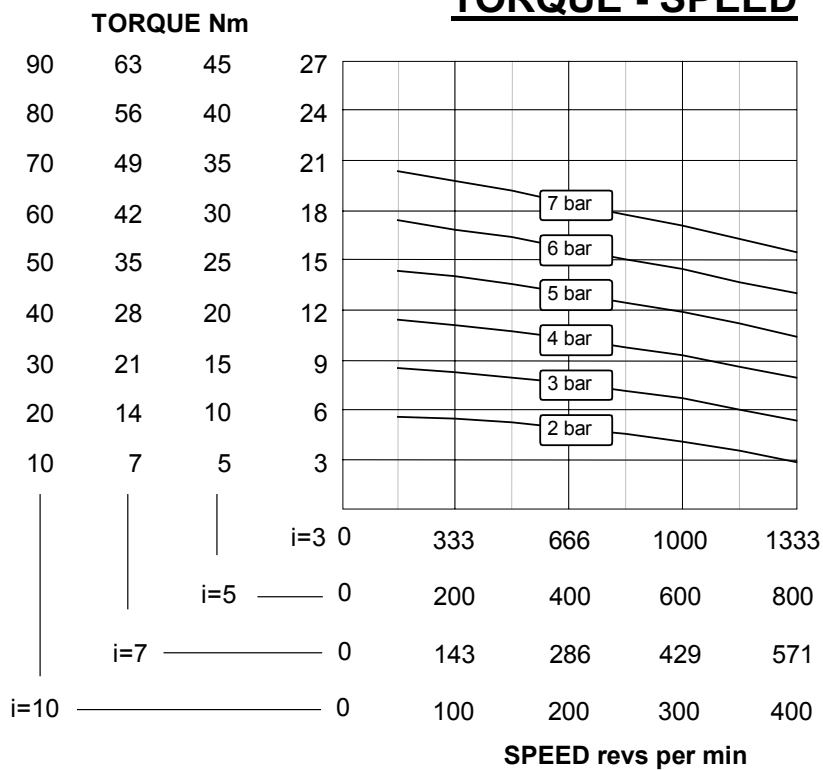


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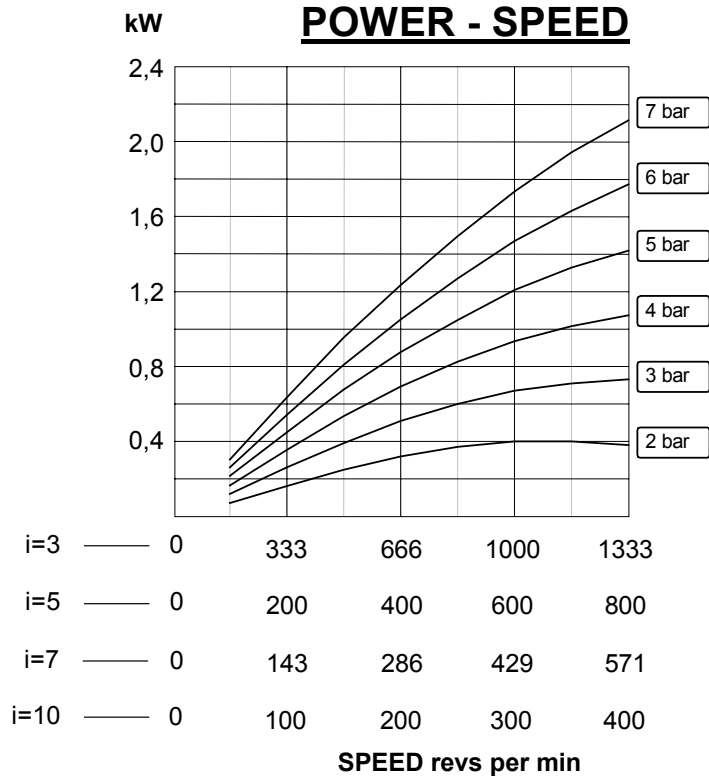
**Globe vane VA4 airmotors
with planetary gearbox**



TORQUE - SPEED

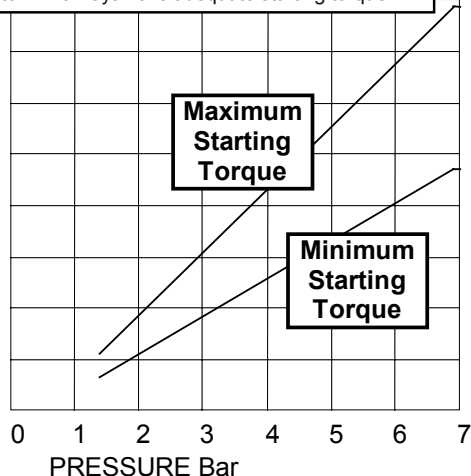


POWER - SPEED



TORQUE - PRESSURE

When designing for applications where the minimum start torque requirement is equal to the running torque (as for example on hoists), the motor should be operated in the area below the min starting torque. This will ensure that the motor will always have adequate starting torque



STARTING TORQUE will vary between the minimum and maximum levels shown. The actual starting torque will depend on the air inlet pressure and the motor crank position.

TORQUE Nm

90	63	45	27
80	56	40	24
70	49	35	21
60	42	30	18
50	35	25	15
40	28	20	12
30	21	15	9
20	14	10	6
10	7	5	3
i=10	i=7	i=5	i=3

Muffler supplied with motor

Motor is reversible

Attitude: The motor can be operated in all positions

Maximum temperature -20°C to +80°C (-4°F to +176°F)

Max. Overhung Force on motor shaft 400 N (90 lbf.)

Axial loads should be kept to a minimum

AIRLINE FILTRATION AND LUBRICATION

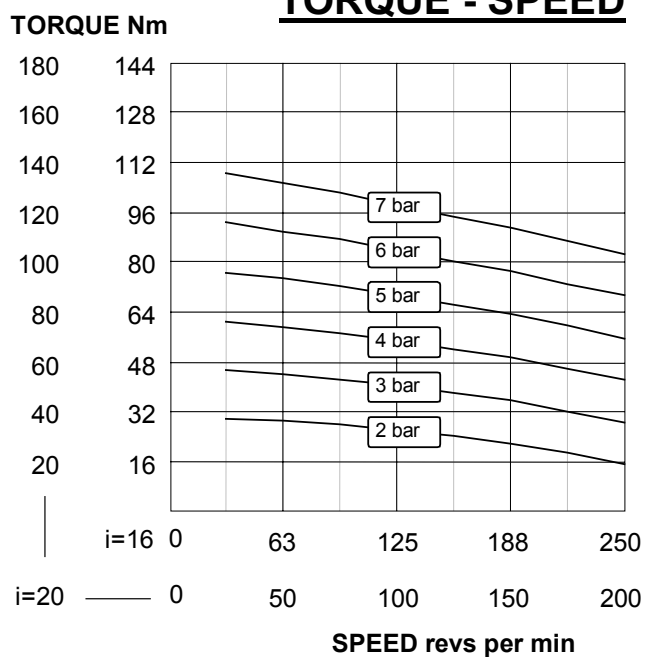
Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port.

Lubricator drop rate 4-5 drops/minute continuous operation

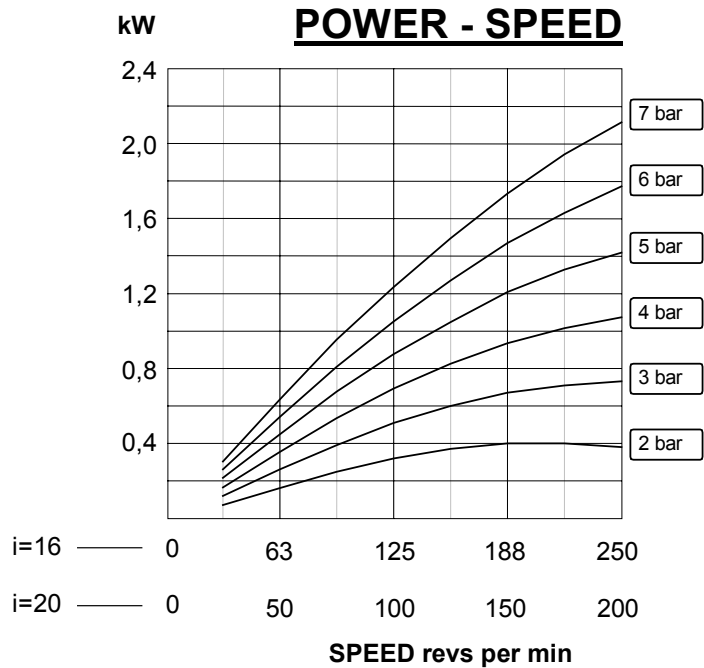
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED

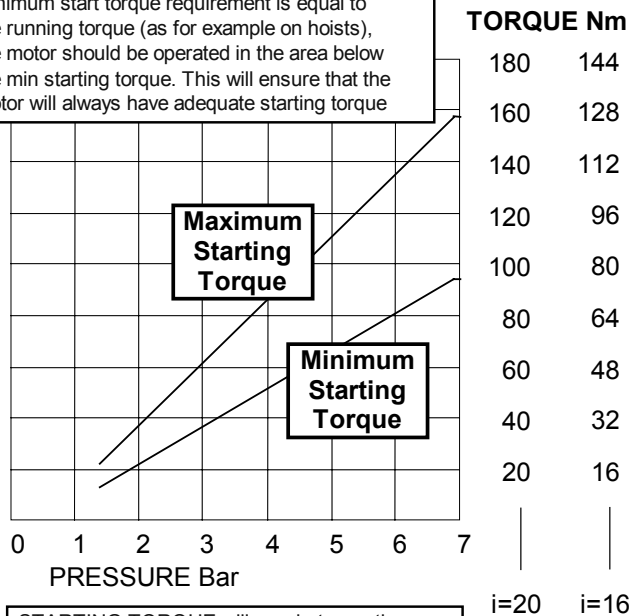


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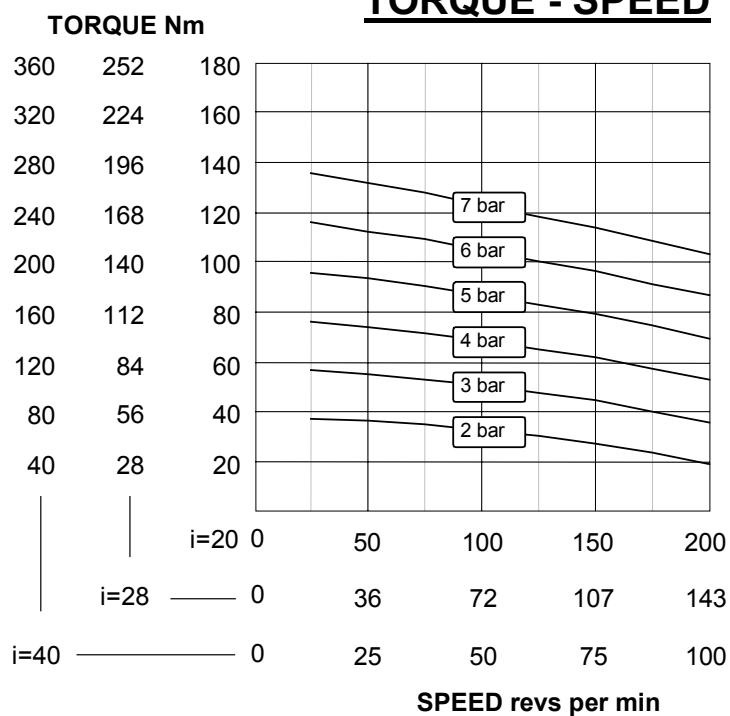
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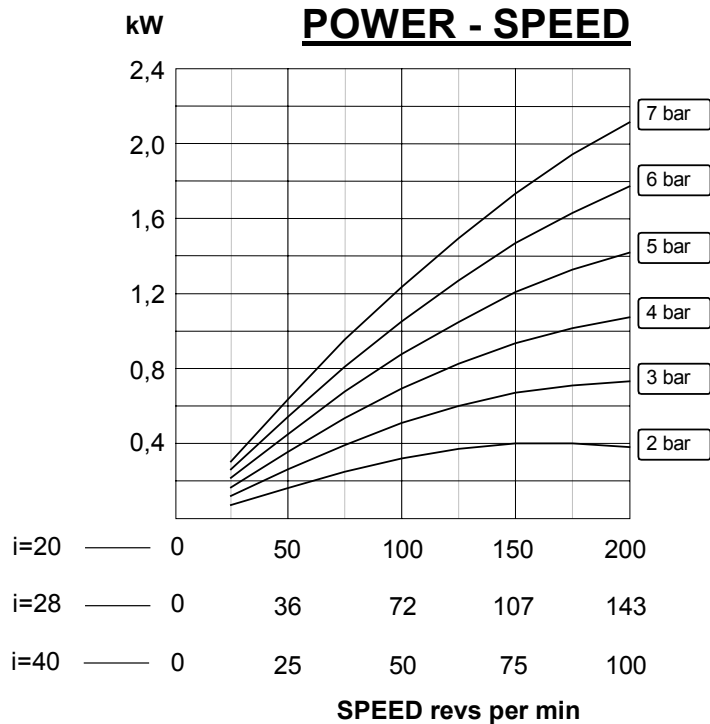
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED

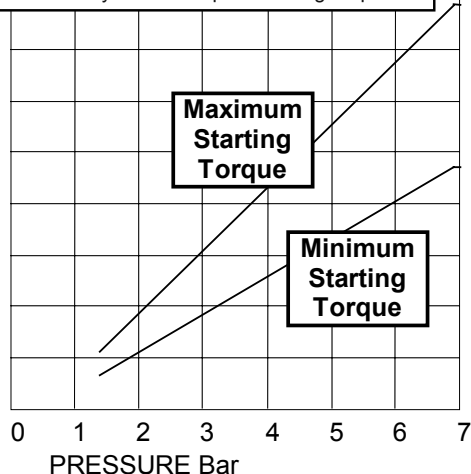


POWER - SPEED



TORQUE - PRESSURE

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STARTING TORQUE will vary between the minimum and maximum levels shown. The actual starting torque will depend on the air inlet pressure and the motor crank position.

TORQUE Nm		
360	252	180
320	224	160
280	196	140
240	168	120
200	140	100
160	112	80
120	84	60
80	56	40
40	28	20
i=40	i=28	i=20

Muffler supplied with motor

Motor is reversible

Attitude: The motor can be operated in all positions

Maximum temperature -20°C to +80°C (-4°F to +176°F)

Max. Overhung Force on motor shaft 400 N (90 lbf.)

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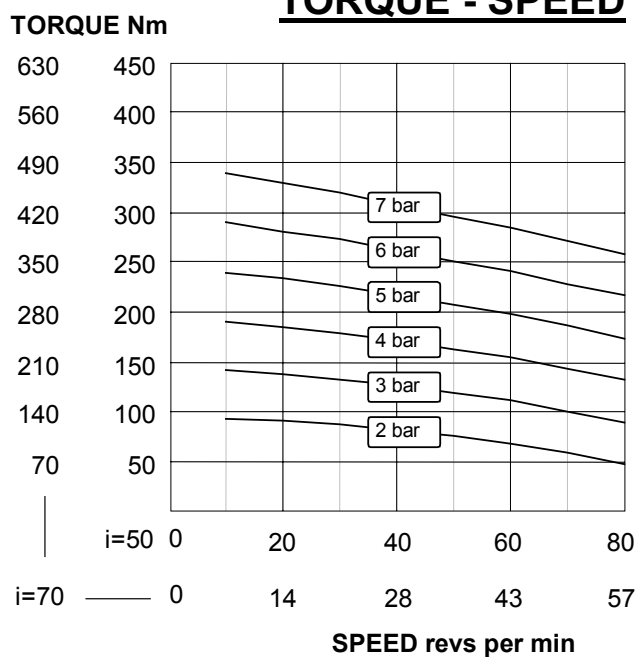
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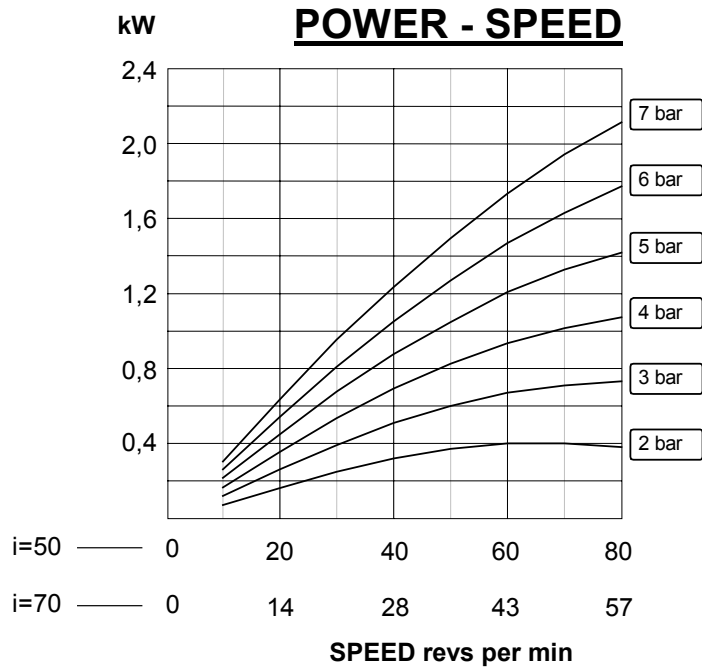
Lubricator drop rate 4-5 drops/minute continuous operation

Lubricator drop rate 9-12 drops/minute intermittent operation

TORQUE - SPEED

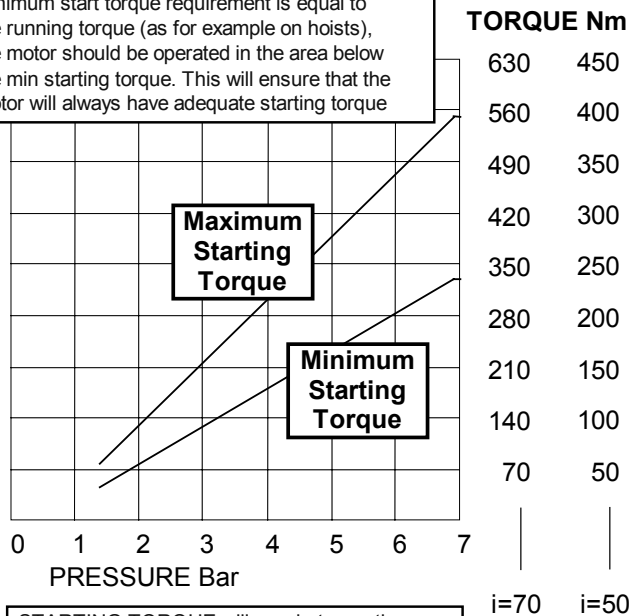


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