



GLOBE AIRMOTORS B.V.

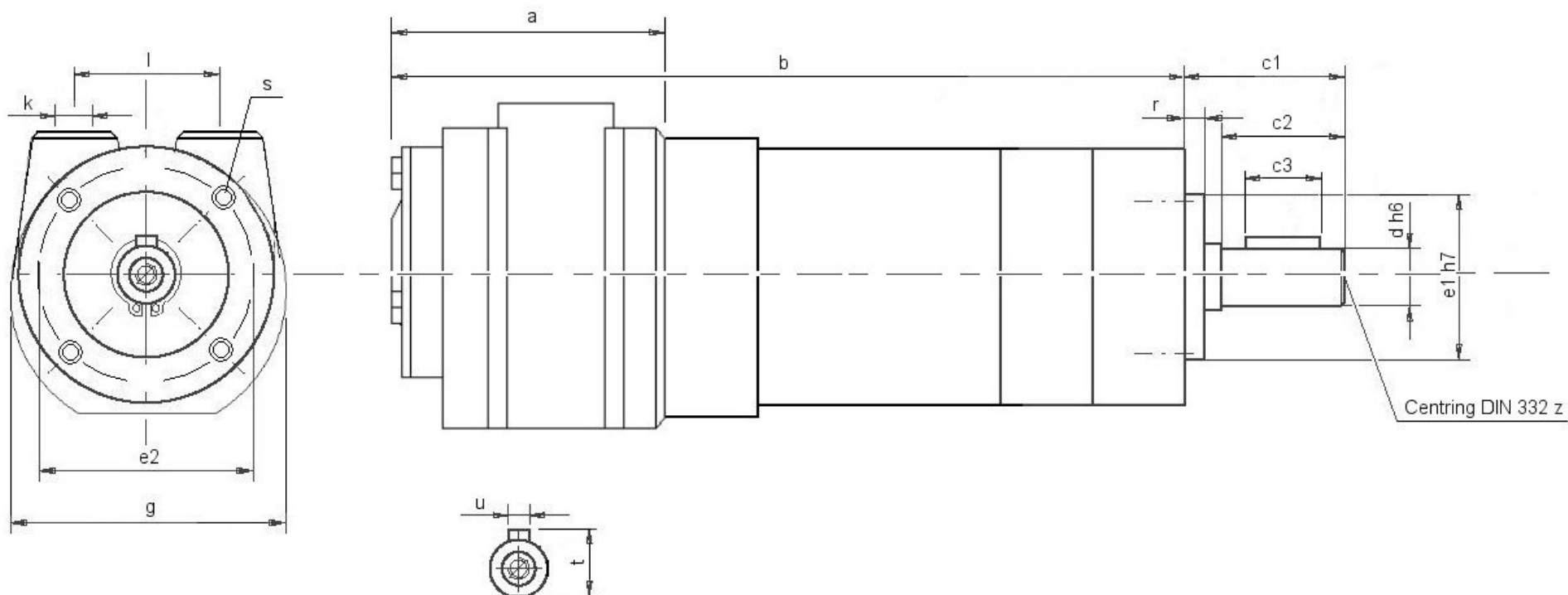


GLOBE PFG-red planetary geared vane motors

The GLOBE PFG-red motors are of the vane type and are available with a wide range of planetary reducers ranging from $i = 3:1$ to $i = 1000:1$ (reductions above $i = 100:1$ on request)

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
- Explosion proof according ATEX directive EU 94/9/EC (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

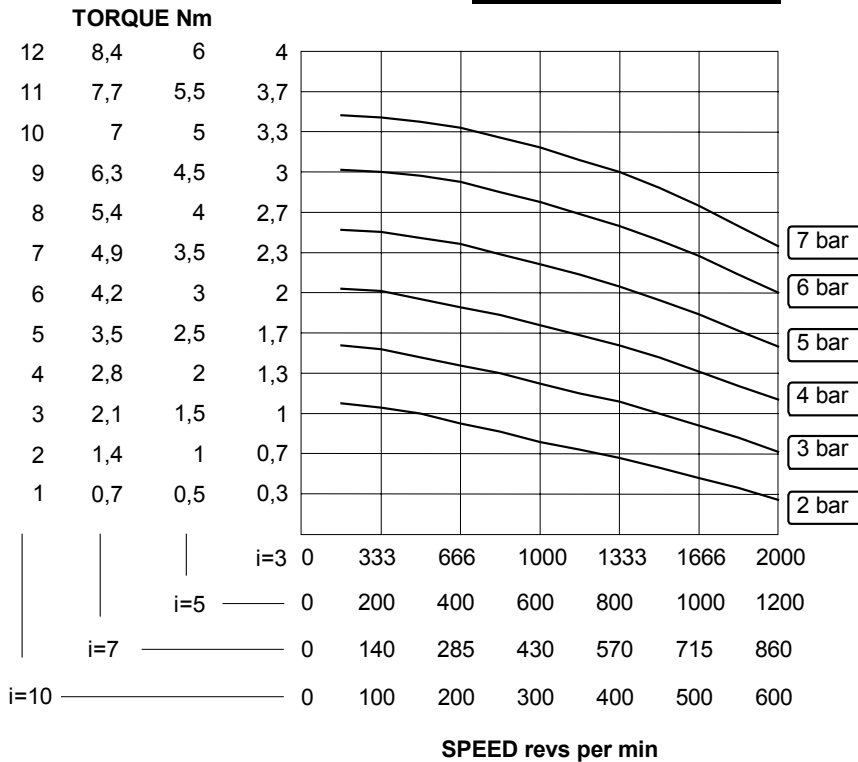


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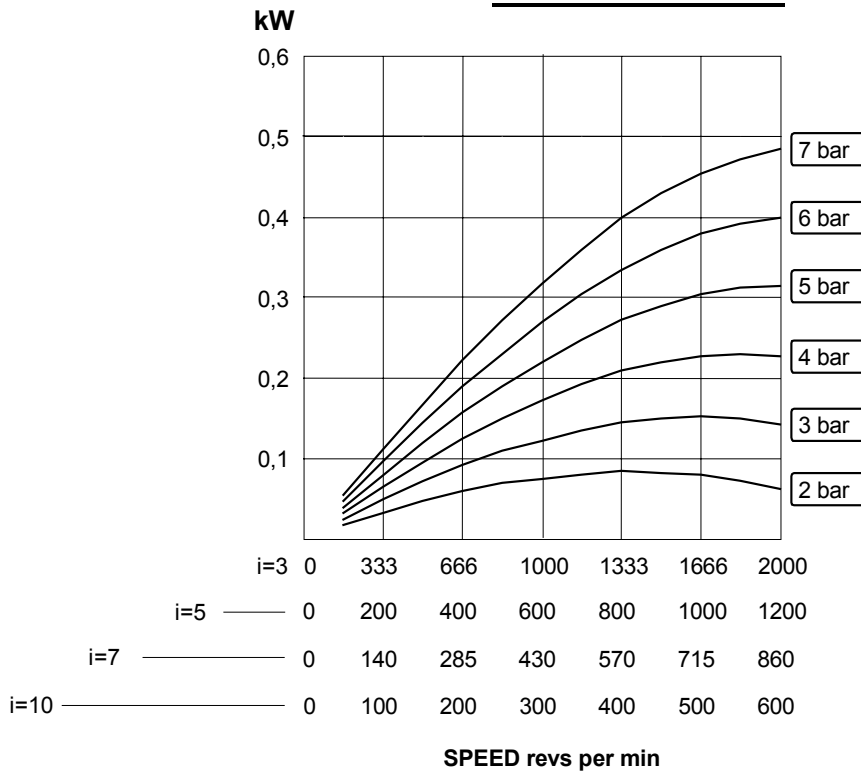
**Globe vane VA1 airmotors
 with planetary gearbox**



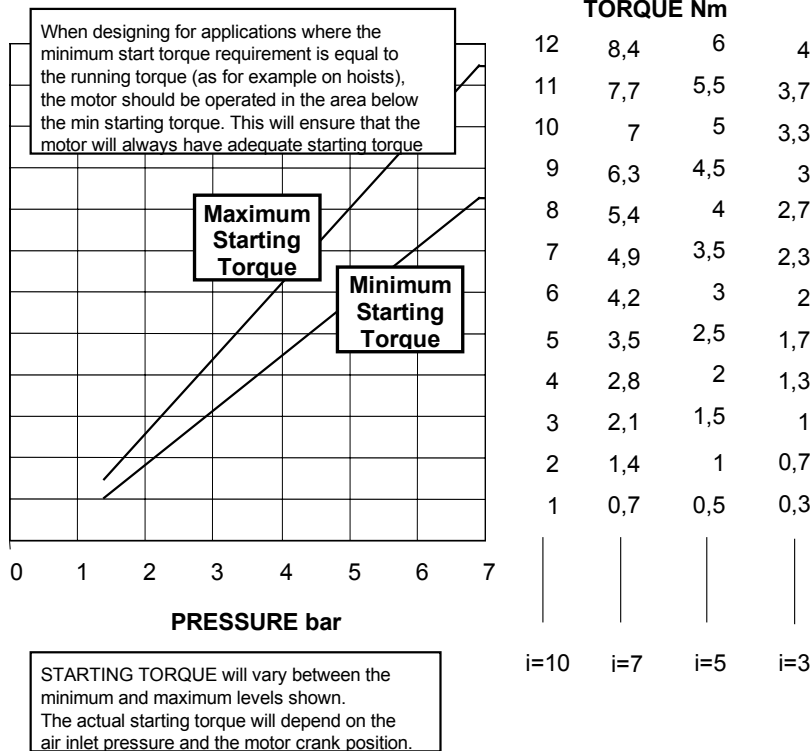
TORQUE - SPEED



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)

Maximum radial load: 930 N

Maximum axial load: 1080 N

AIRLINE FILTRATION AND LUBRICATION

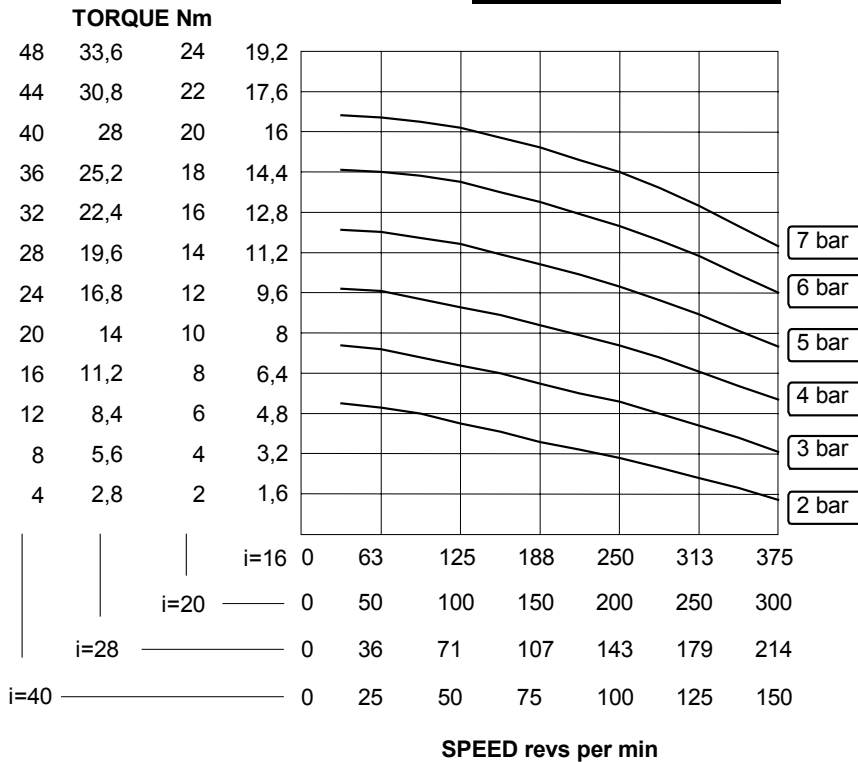
Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port

Lubricator drop rate 4-5 drops/minute continuous operation

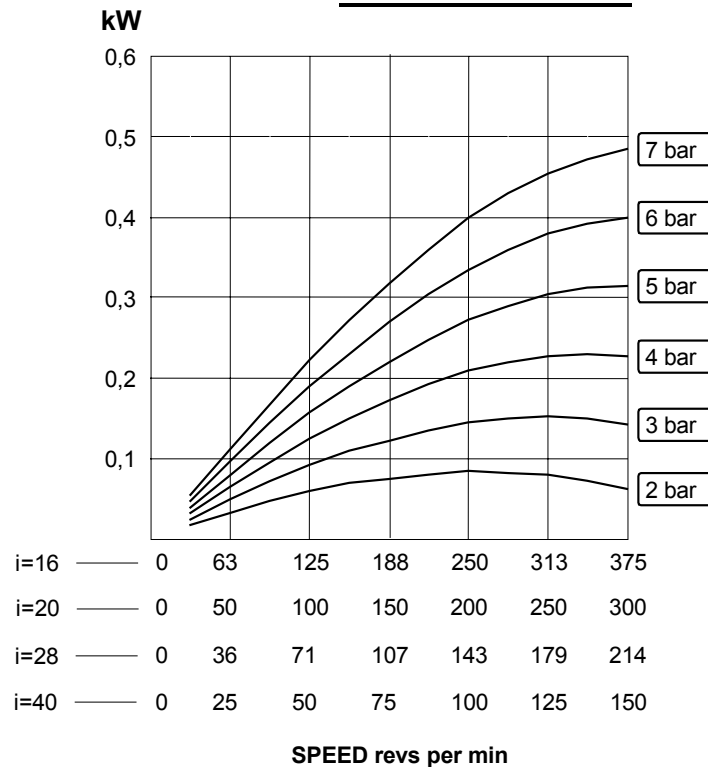
Lubricator drop rate 9-12 drops/minute intermittent operation



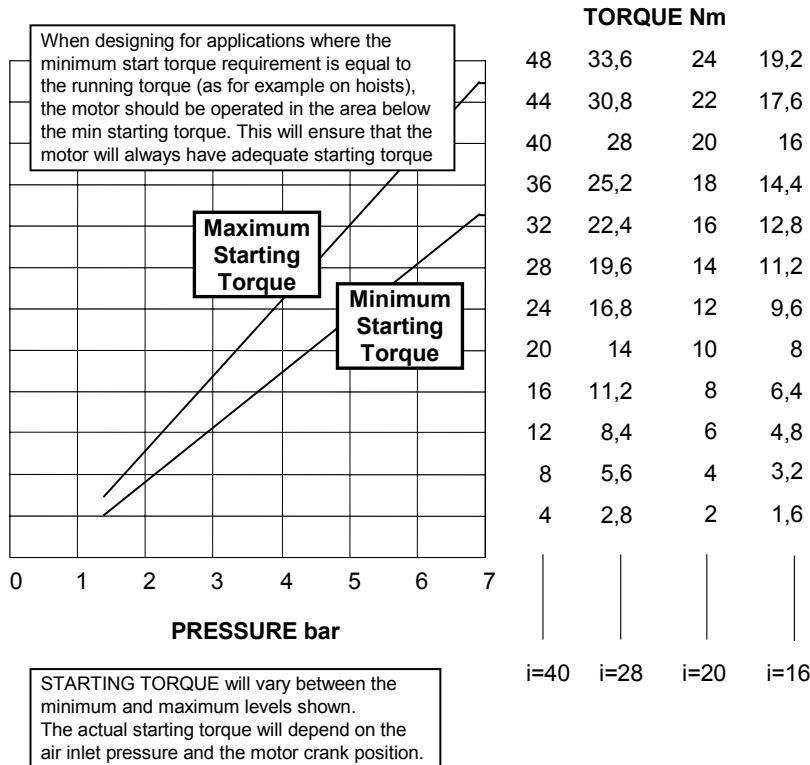
TORQUE - SPEED



POWER - SPEED



TORQUE - PRESSURE



Motor is reversible

Attitude: The motor can be operated in all positions

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

Max. radial load: 930 N

Max. axial load: 1080 N

AIRLINE FILTRATION AND LUBRICATION

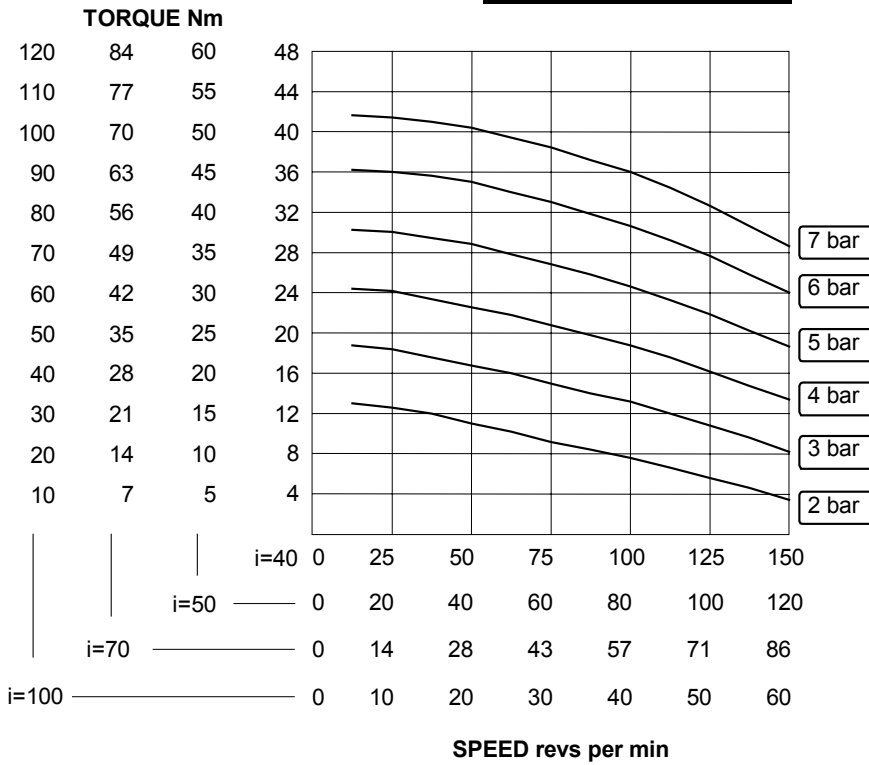
Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port

Lubricator drop rate 4-5 drops/minute continuous operation

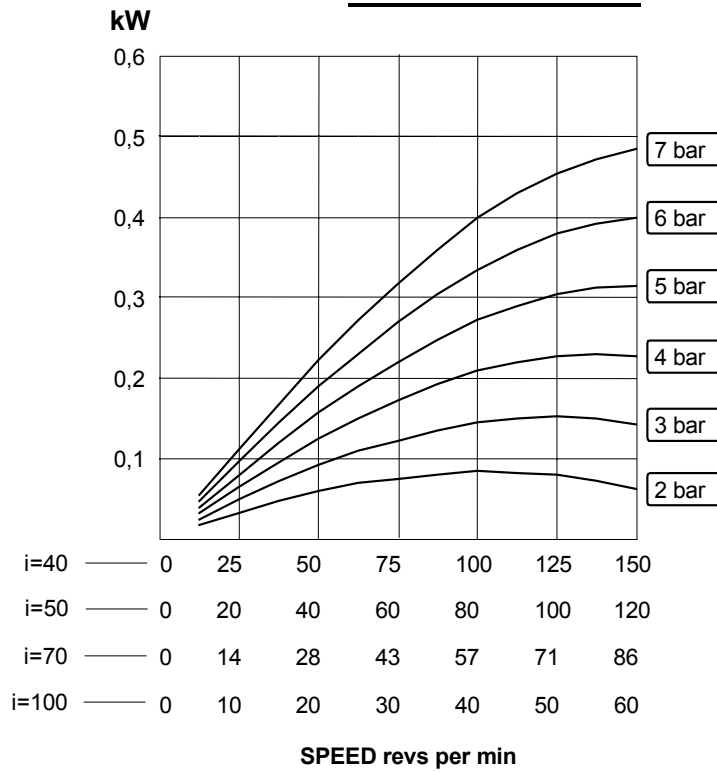
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED

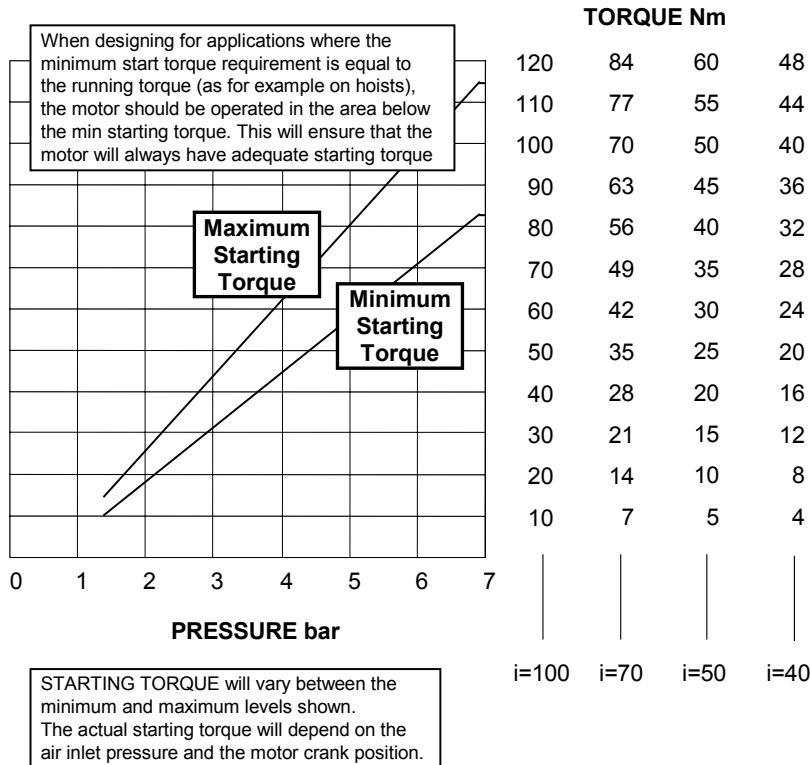


POWER - SPEED





TORQUE - PRESSURE

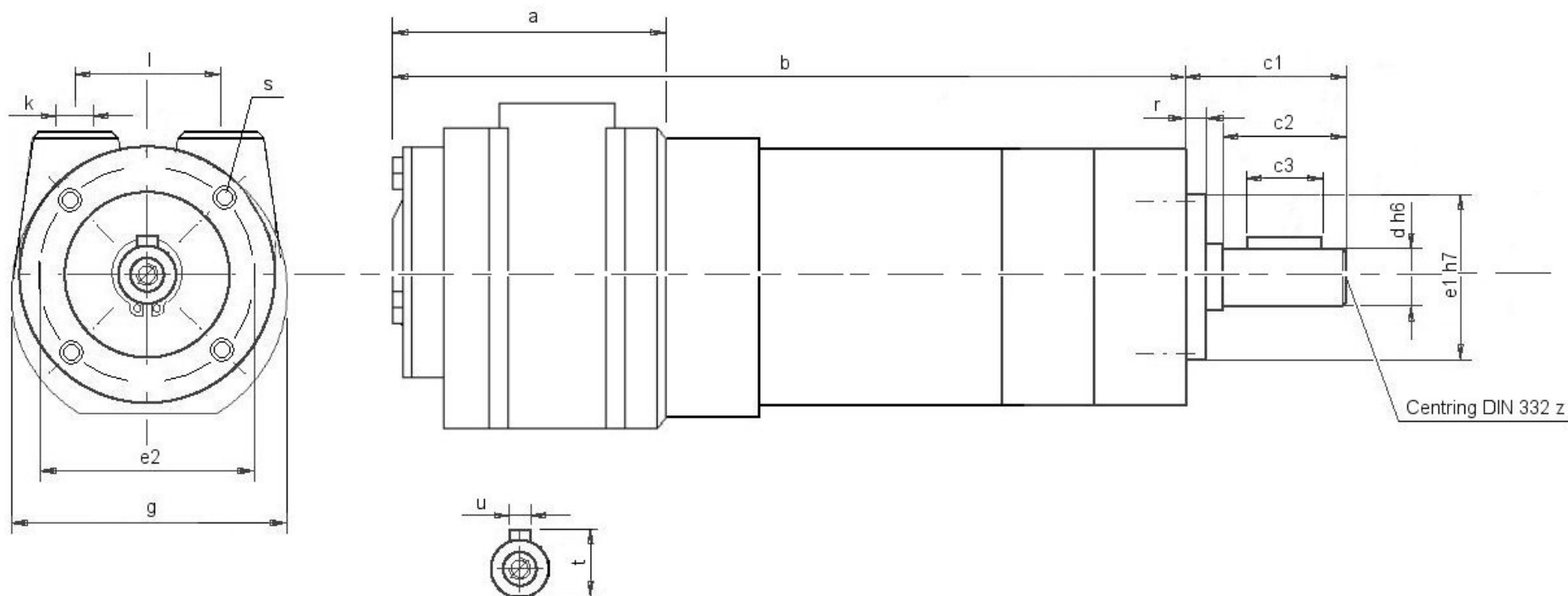


Motor is reversible
Attitude: The motor can be operated in all positions
Maximum temperature -20°C to +80°C (-4°F to +176°F)

Maximum radial load: 1770 N
Maximum axial load: 2180 N

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



	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

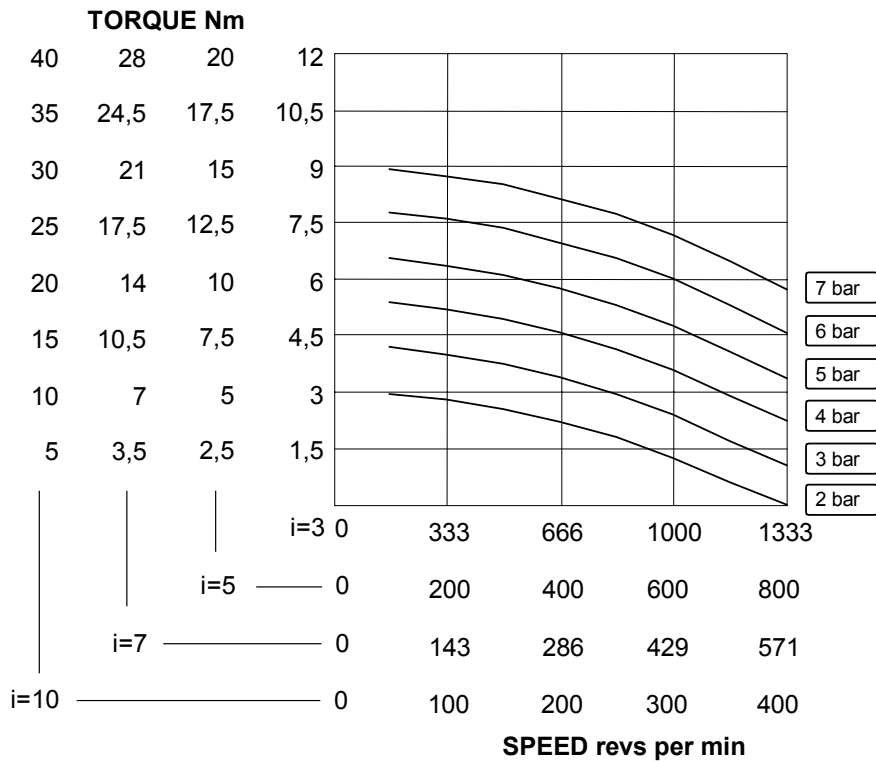


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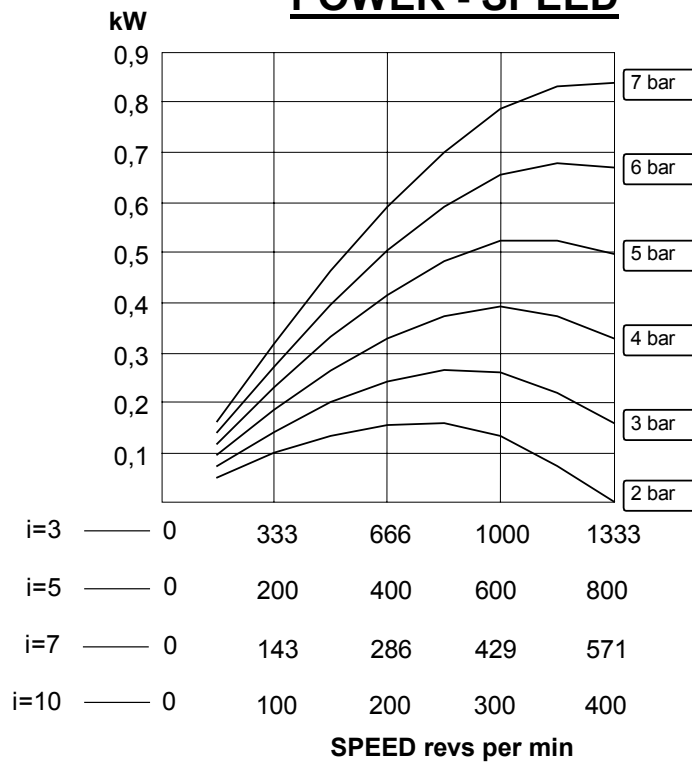
**Globe vane VA2 airmotors
 with planetary gearbox**



TORQUE - SPEED

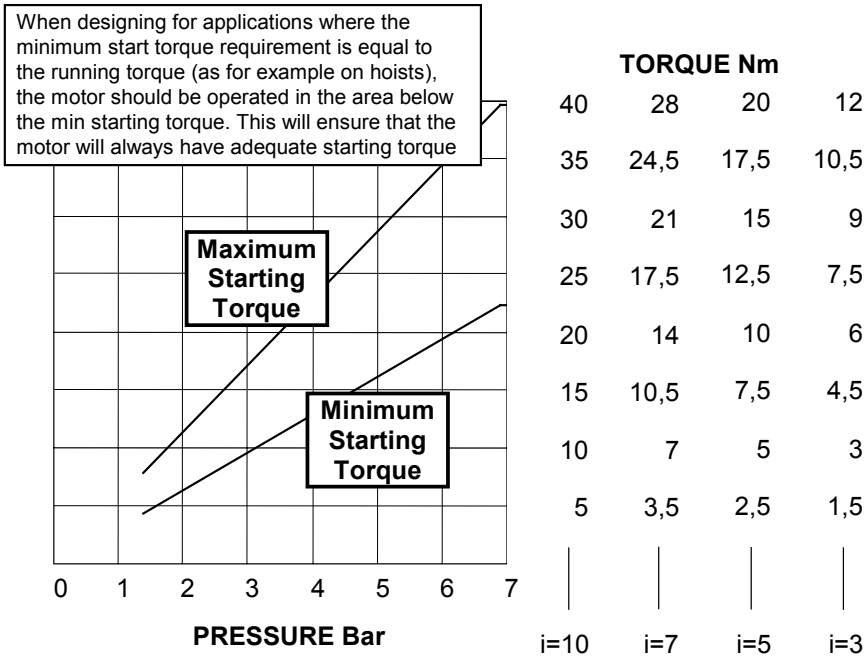


POWER - SPEED





TORQUE - PRESSURE



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

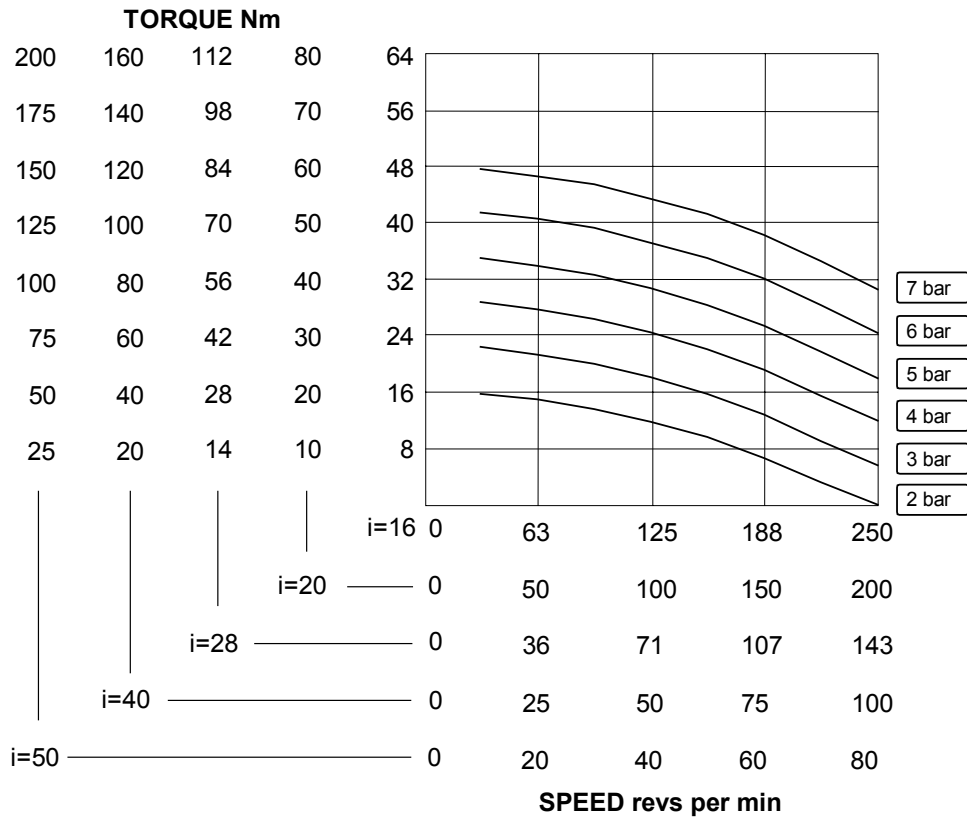
Attitude: The motor can be operated in all positions
 Maximum temperature -20°C to +80°C (-4°F to +176°F)

Maximum radial load: 930 N
 Maximum axial load: 1080 N

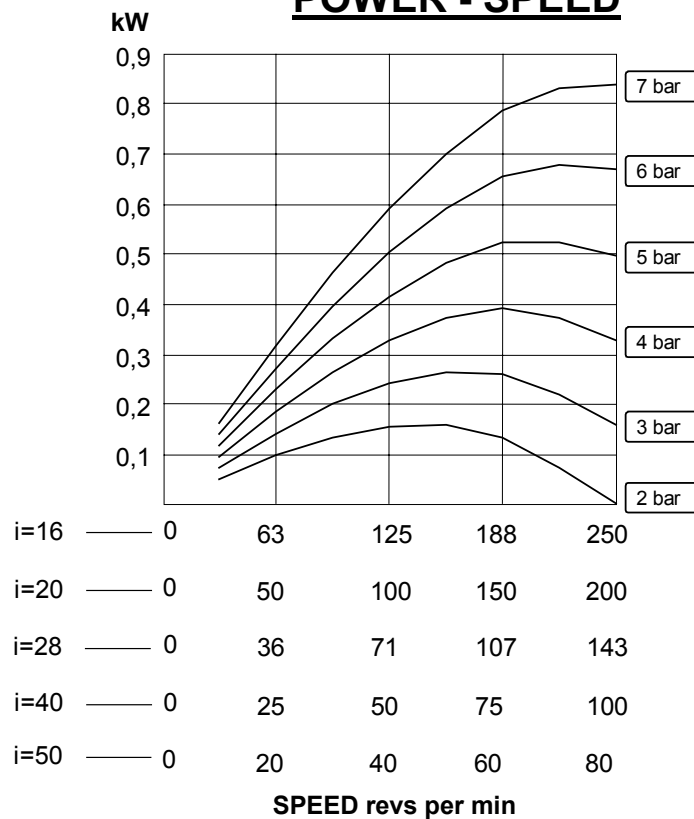
AIRLINE FILTRATION AND LUBRICATION

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

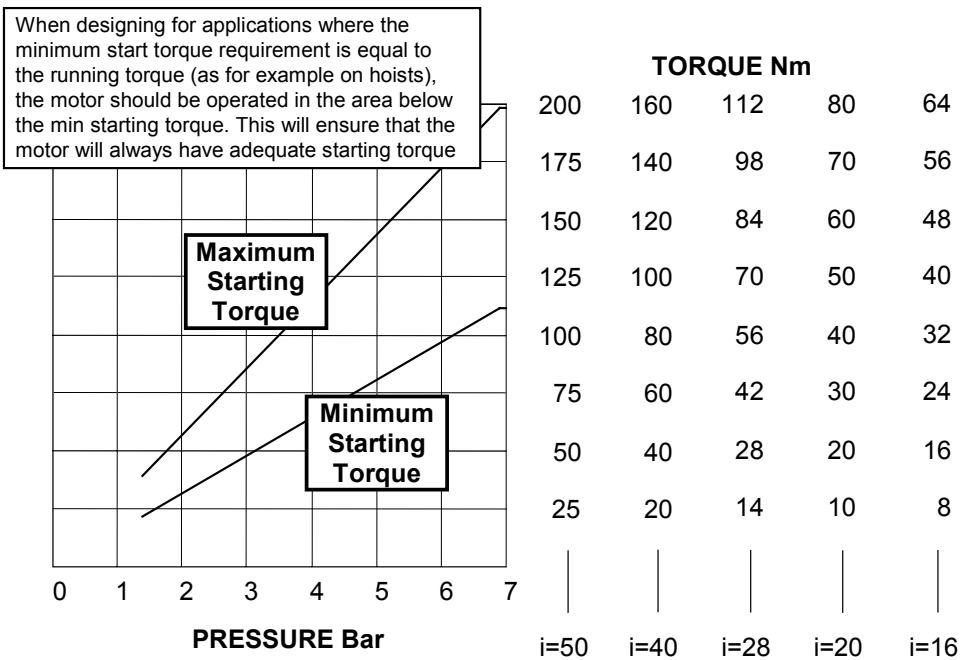
TORQUE - SPEED



POWER - SPEED



TORQUE - PRESSURE



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)

Maximum radial load: 1770 N
 Maximum axial load: 2180 N

AIRLINE FILTRATION AND LUBRICATION

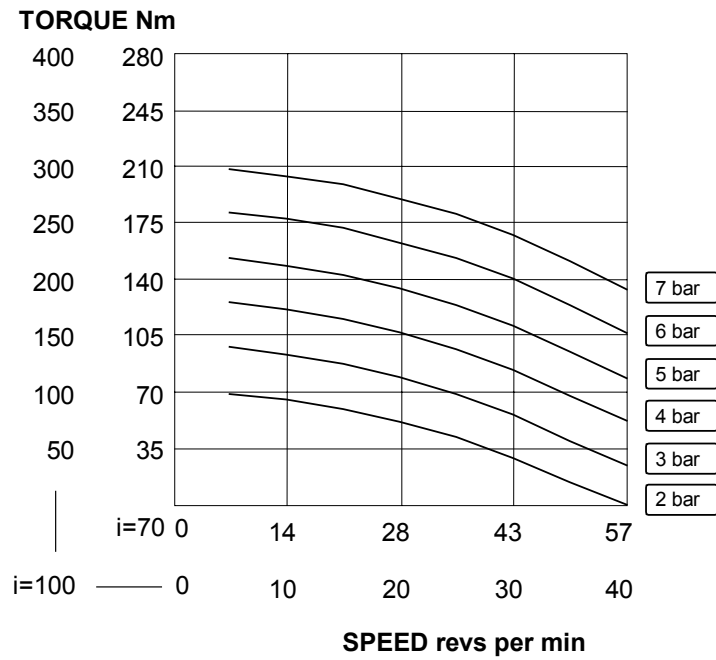
Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port.

Lubricator drop rate 4-5 drops/minute continuous operation

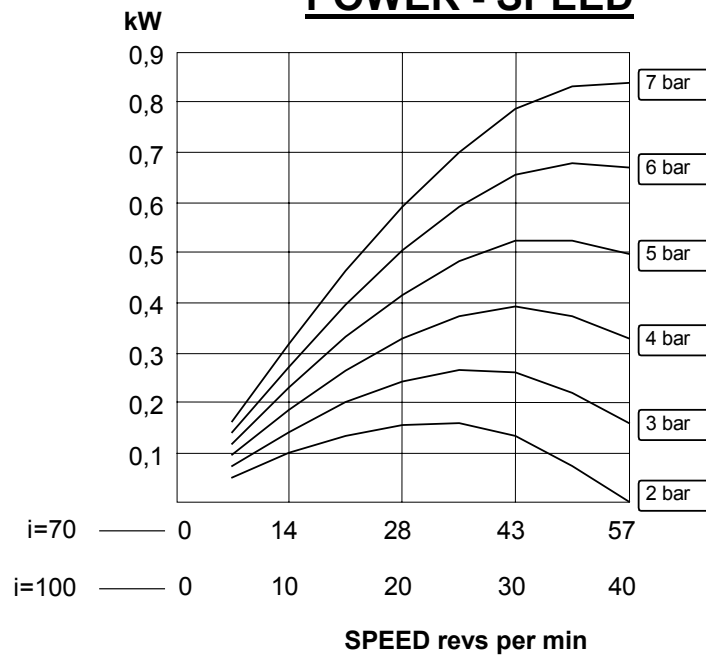
Lubricator drop rate 9-12 drops/minute intermittent operation



TORQUE - SPEED

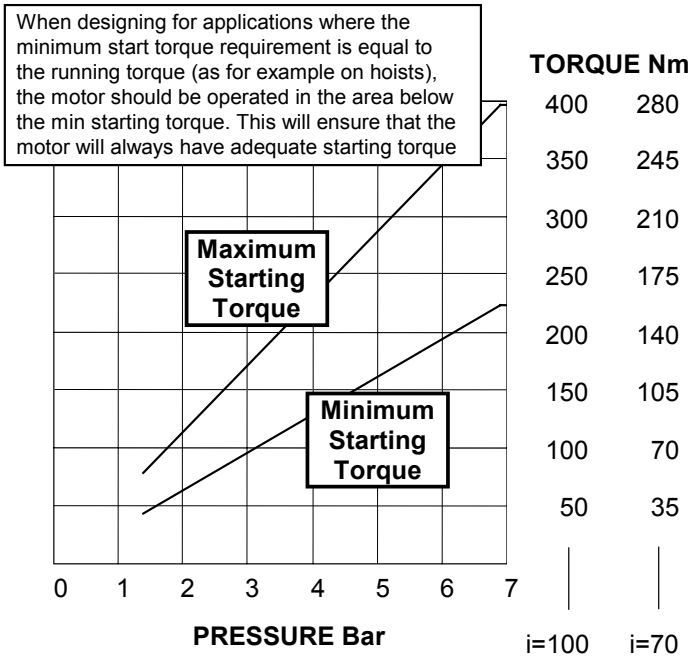


POWER - SPEED





TORQUE - PRESSURE



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)

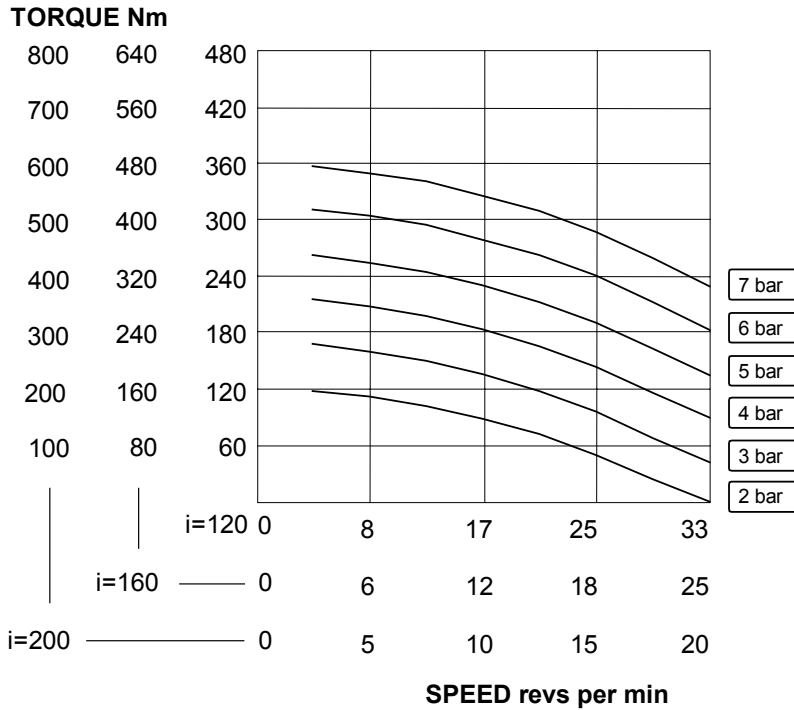
Maximum radial load: 3000 N
Maximum axial load: 3730 N

AIRLINE FILTRATION AND LUBRICATION

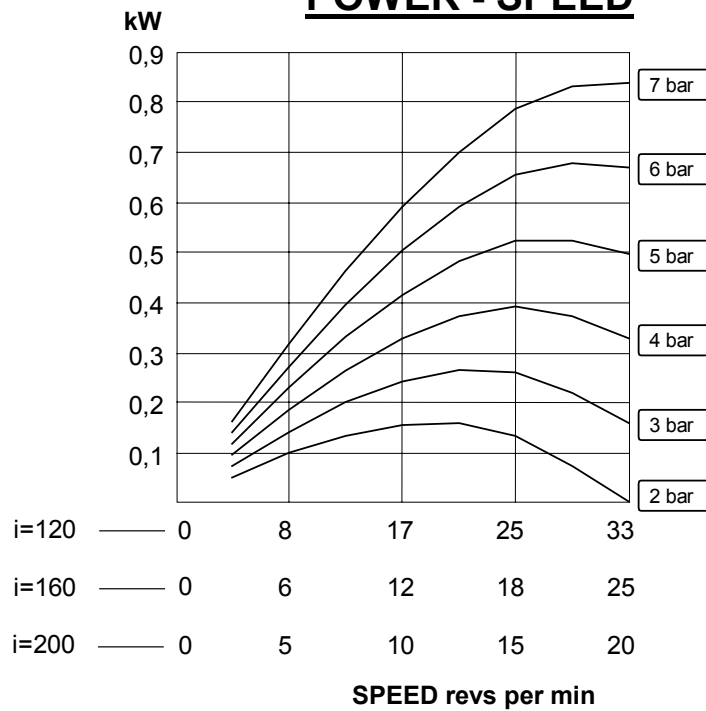
Use 64 micron filtration or better. Choose a lubricator suitable for the flow required. Prior to initial start-up, inject oil into the inlet port.
Lubricator drop rate 4-5 drops/minute continuous operation
Lubricator drop rate 9-12 drops/minute intermittent operation



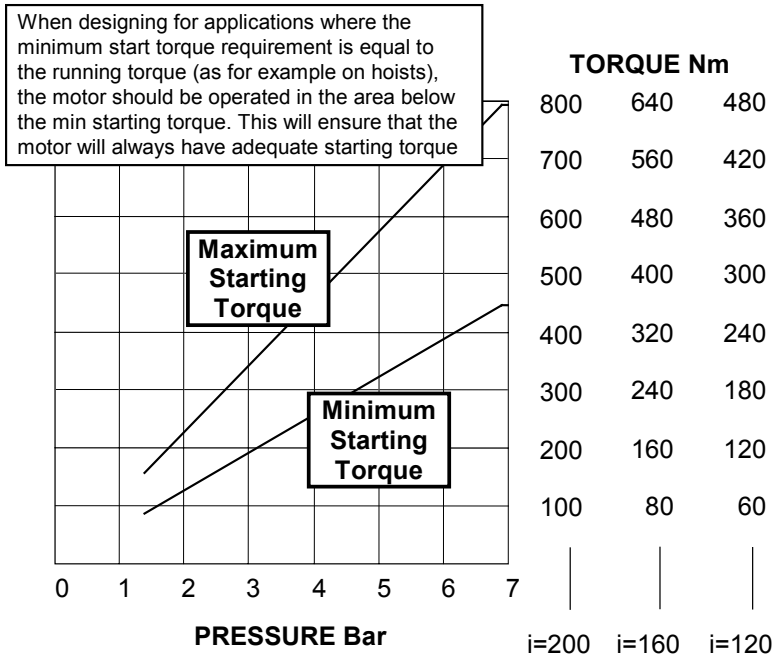
TORQUE - SPEED



POWER - SPEED



TORQUE - PRESSURE



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

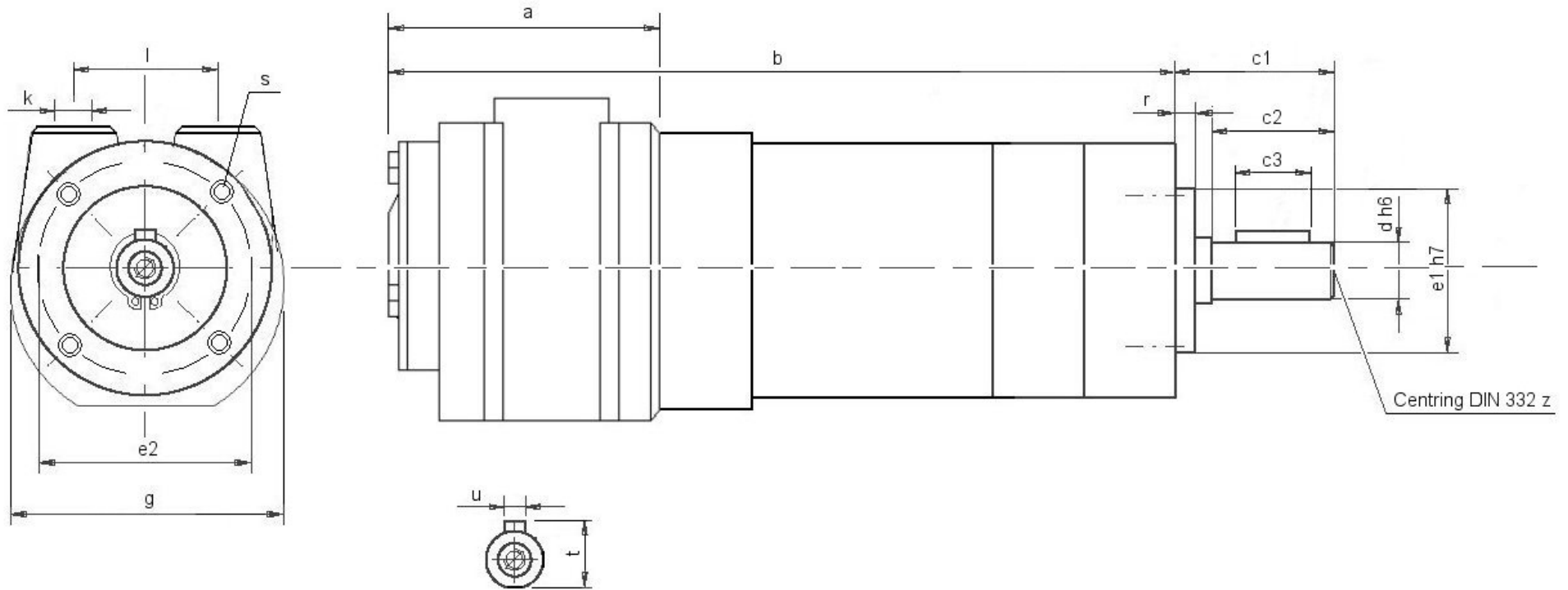
Attitude: The motor can be operated in all positions
 Maximum temperature -20°C to +80°C (-4°F to +176°F)

Maximum radial load: 6770 N
 Maximum axial load: 7730 N

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



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

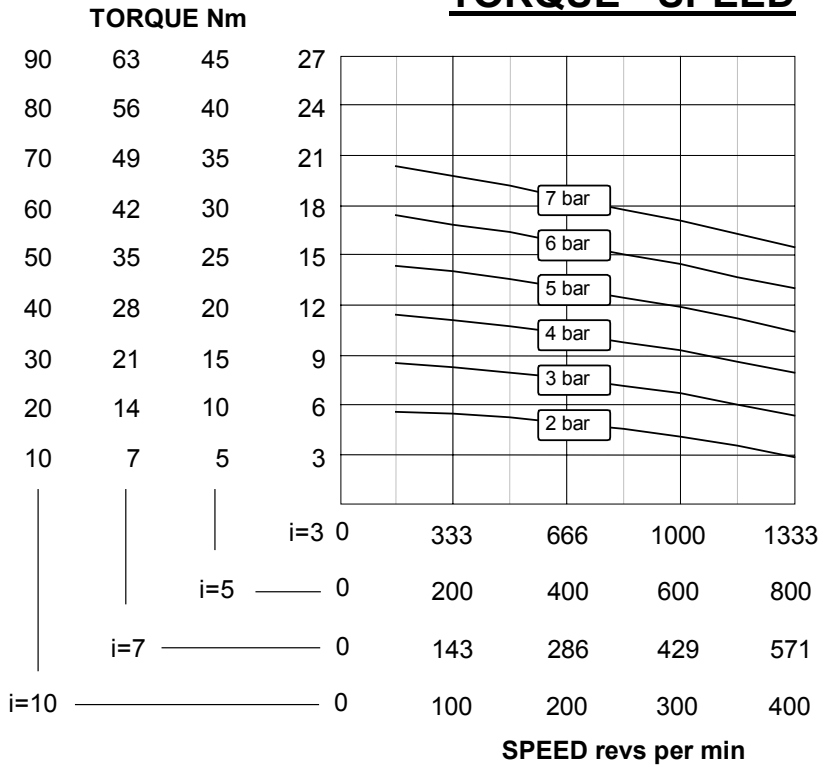


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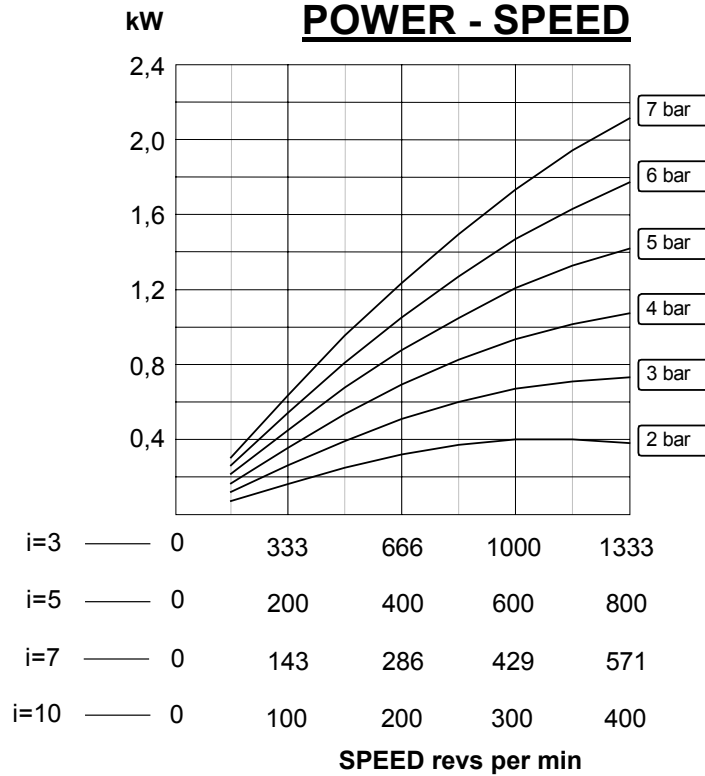
**Globe vane VA4 airmotors
 with planetary gearbox**



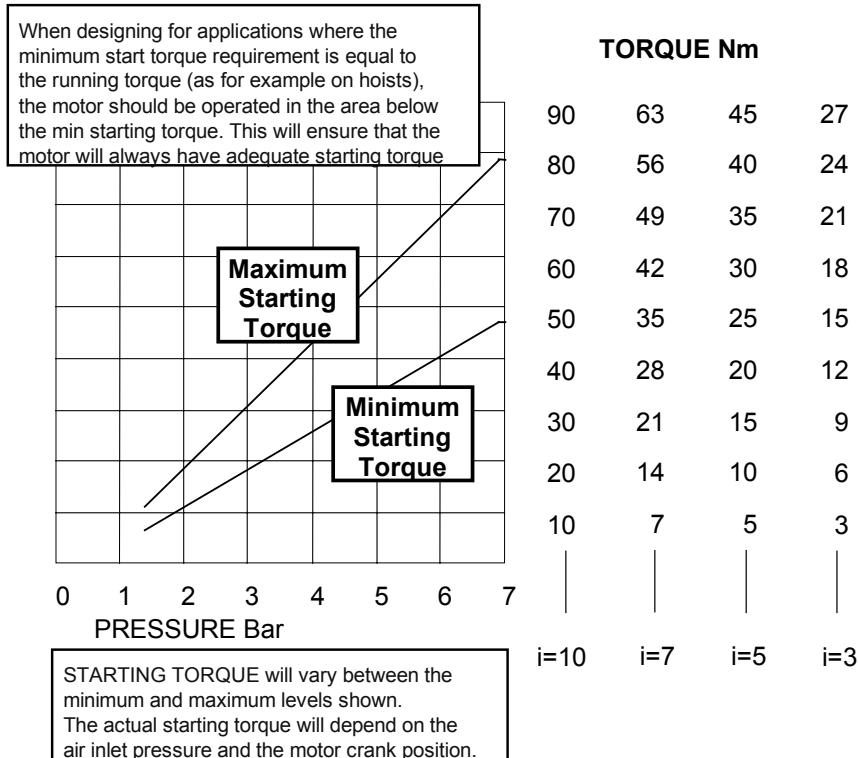
TORQUE - SPEED



POWER - SPEED



TORQUE - PRESSURE



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)

Maximum radial load: 1770 N
 Maximum axial load: 2180 N

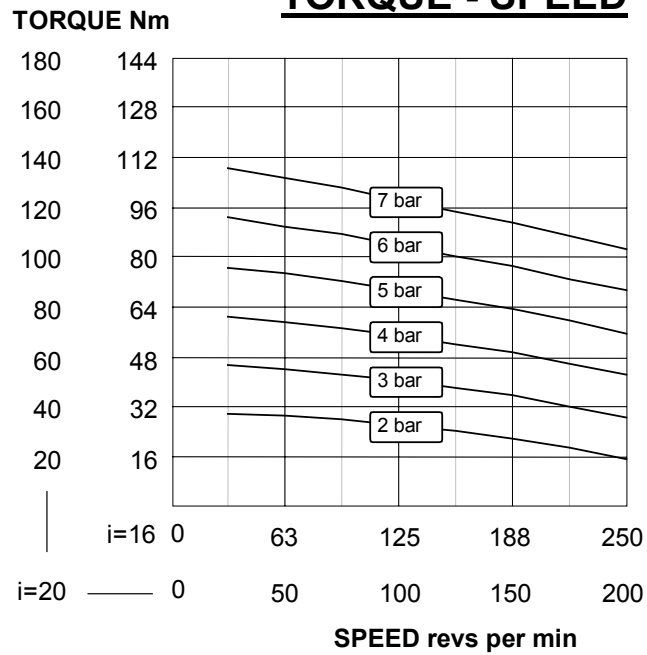
AIRLINE FILTRATION AND LUBRICATION

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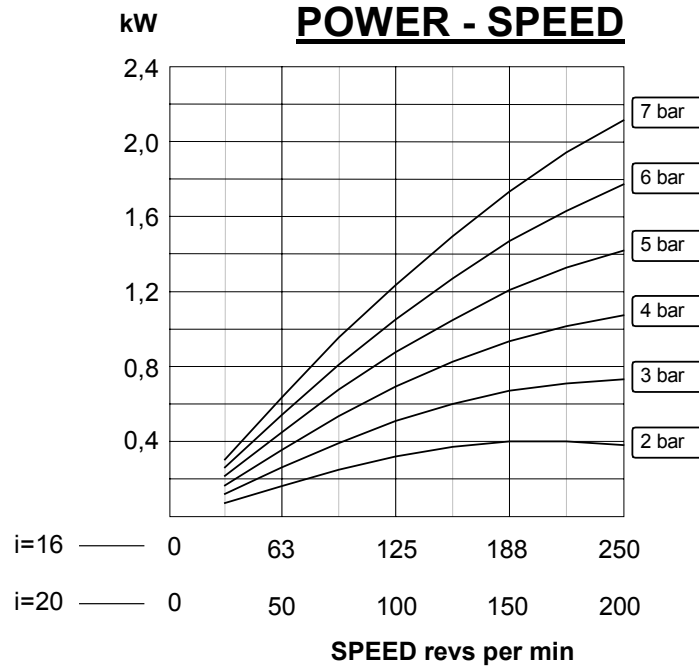
Lubricator drop rate 4-5 drops/minute continuous operation
 Lubricator drop rate 9-12 drops/minute intermittent operation



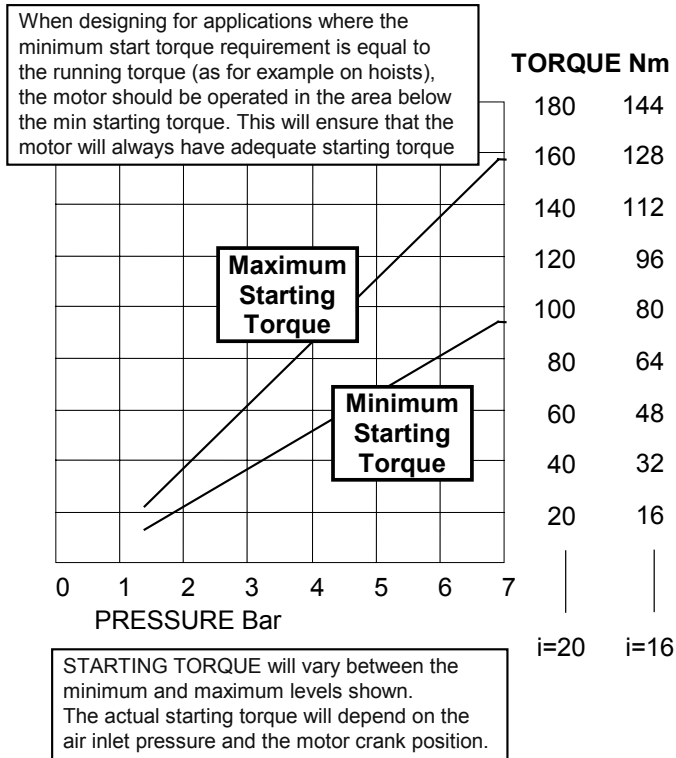
TORQUE - SPEED



POWER - SPEED



TORQUE - PRESSURE



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AIRLINE FILTRATION AND LUBRICATION

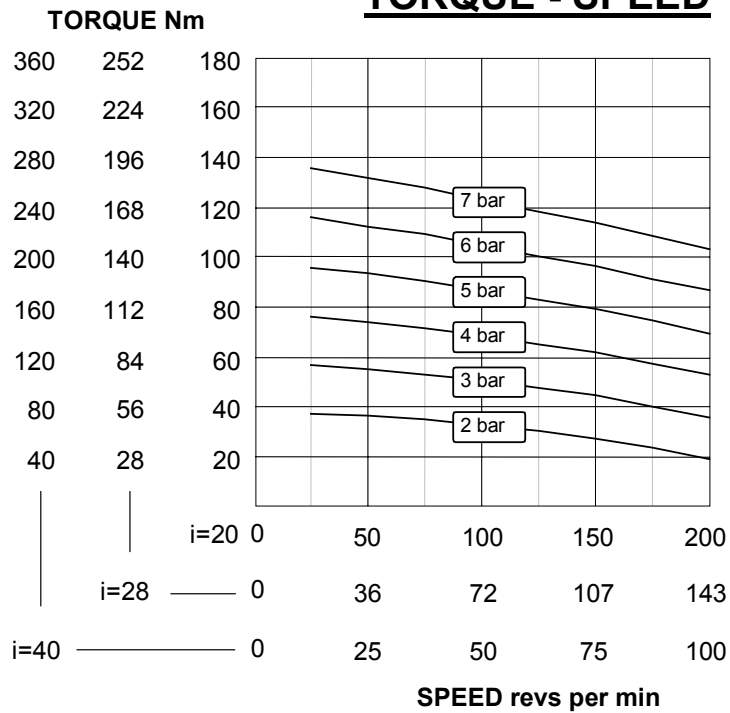
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Lubricator drop rate 4-5 drops/minute continuous operation

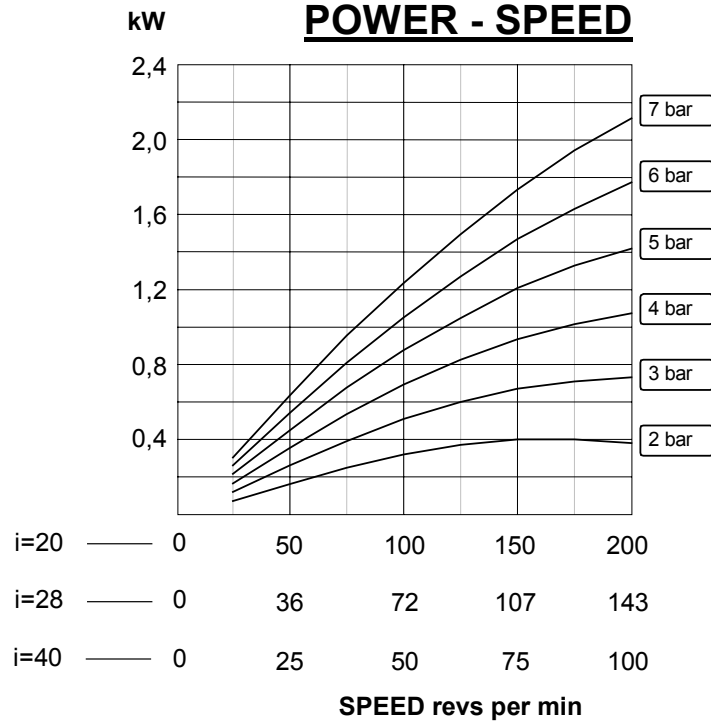
Lubricator drop rate 9-12 drops/minute intermittent operation



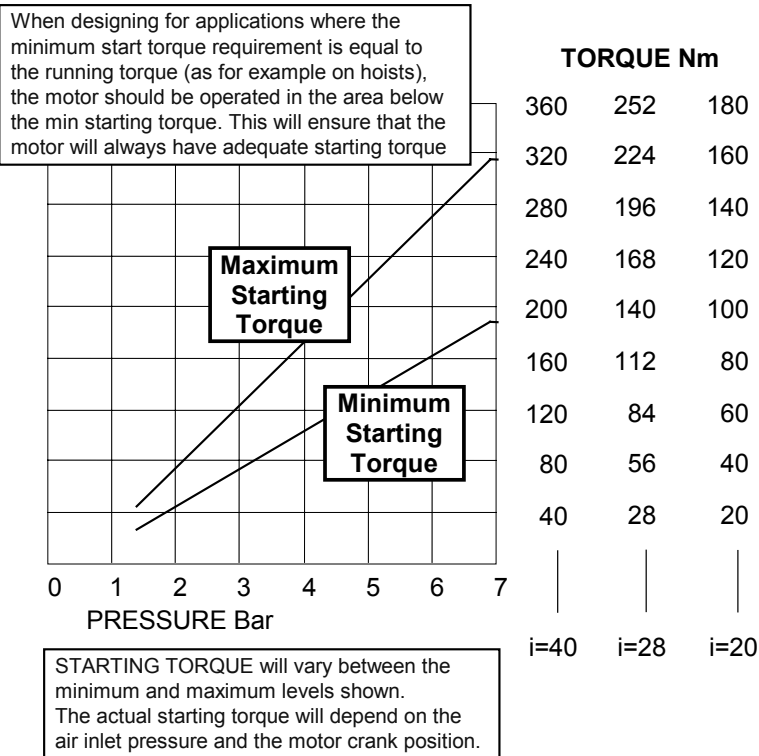
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 Motor is reversible

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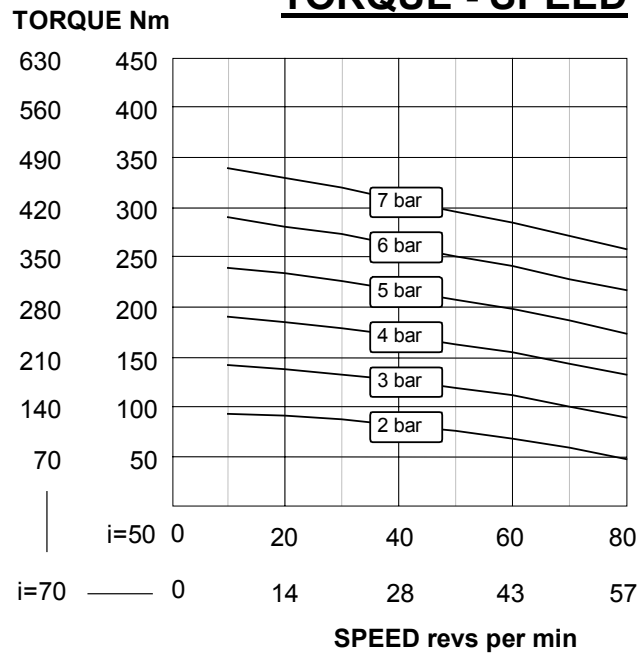
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Lubricator drop rate 4-5 drops/minute continuous operation

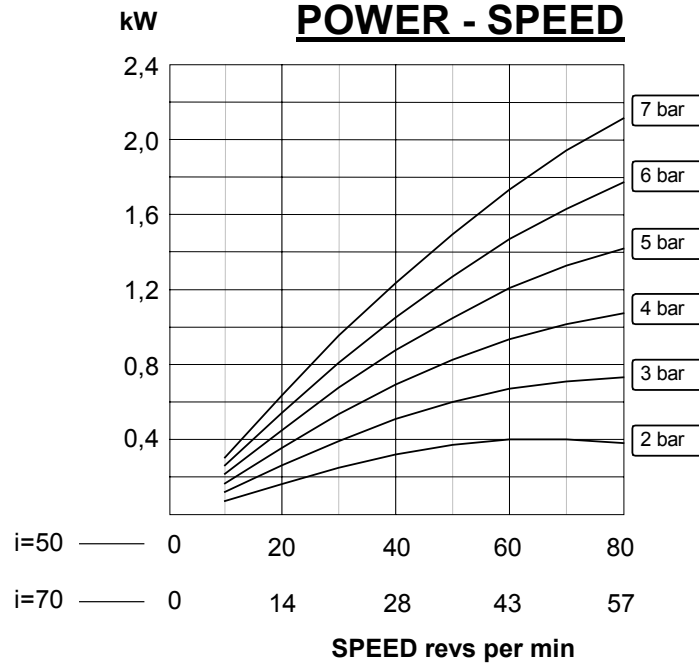
Lubricator drop rate 9-12 drops/minute intermittent operation



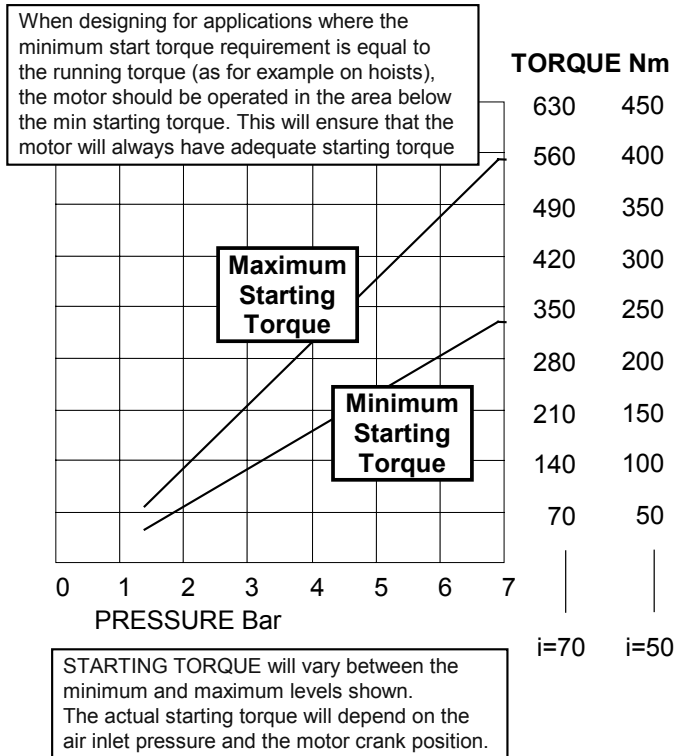
TORQUE - SPEED



POWER - SPEED



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