



# Okta 4000

Roots pump with a pumping speed of 2,160 to 6,490 m<sup>3</sup>/h:





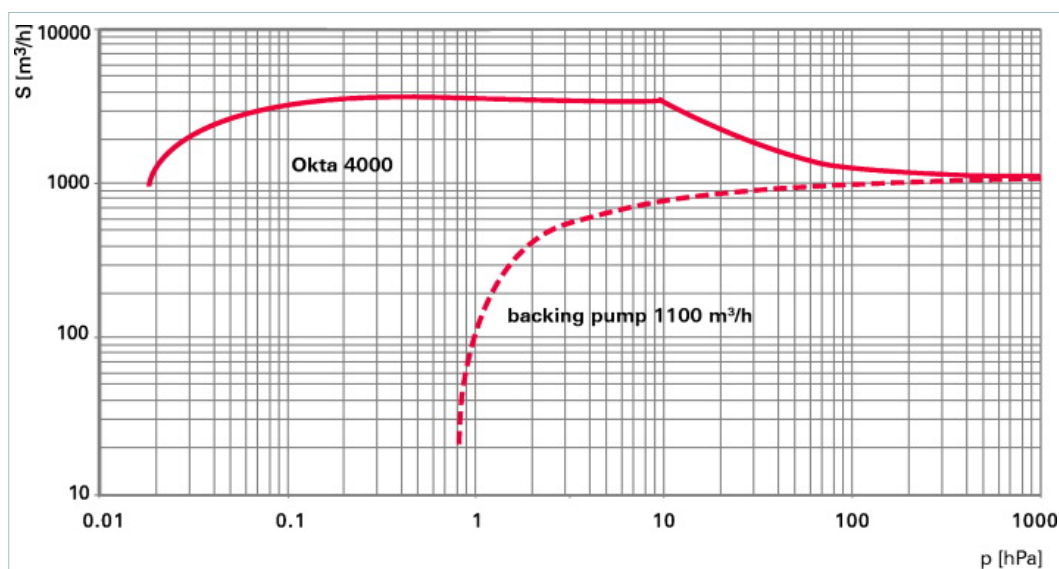
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## Okta 4000, Roots pump, 400/690 V, 50 Hz; 460 V, 60 Hz

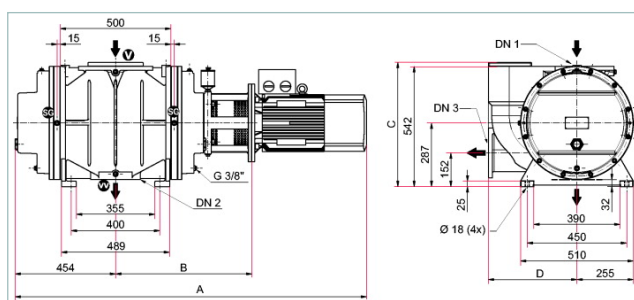
- High-performance Roots pump with a pumping speed of 2160 to 6490 m<sup>3</sup>/h
- For mains voltage: 400/690 V, 50 Hz respectively 460 V, 60 Hz
- No thermal overload thanks to integral overflow valve
- For applications in the low and medium vacuum
- With IE3 motor

Okta = Standard pumps with radial shaft sealing rings, housing parts made of gray cast iron or nodular graphite cast iron, flange connection in accordance with ISO-F

Okta M = Standard pumps, hermetically sealed thanks to magnetic coupling, housing parts made of gray cast iron or nodular graphite cast iron, flange connection in accordance with ISO-F



### Dimensions



A	1589 mm
B	616 mm
C	560 mm
D	400 mm
DN 1	DN 250 ISO-F/DN 250 PN 16
DN 2	DN 160 ISO-F/DN 150 PN 16
DN 3	DN 160 ISO-F/DN 150 PN 16

### Technical Data

#### Okta 4000, Roots pump, 400/690 V, 50 Hz; 460 V, 60 Hz

Ambient temperature	5-40 °C   41-104 °F   278-313 K
Cooling method, standard	Air
Differential pressure at the overflow valve	25 hPa   18.75 Torr   25 mbar
Emission sound pressure level (EN ISO 2151) at intake pressure 10 hPa	79 dB (A)
Emission sound pressure level (EN ISO 2151) at intake pressure 1 hPa	74 dB (A)
Flange (in)	DN 250 ISO-F/DN 250 PN 16

Technical Data		Okta 4000, Roots pump, 400/690 V, 50 Hz; 460 V, 60 Hz
Flange (out)		DN 160 ISO-F/DN 150 PN 16
Leak rate		1 · 10 <sup>-3</sup> Pa m <sup>3</sup> /s   7.5 · 10 <sup>-3</sup> Torr l/s   1 · 10 <sup>-2</sup> mbar l/s
Mains requirement: voltage 50 Hz		400/690 V
Mains requirement: voltage 60 Hz		460 V
Motor protection		3TF
Nominal pumping speed		2160-6490 m <sup>3</sup> /h
Nominal pumping speed at 50 Hz		4325 m <sup>3</sup> /h
Nominal pumping speed at 60 Hz		5190 m <sup>3</sup> /h
Nominal rotation speed at 50 Hz		3000 min <sup>-1</sup>
Nominal rotation speed at 60 Hz		3600 min <sup>-1</sup>
Operating fluid		P3
Operating fluid filling		6.8 l
Protection category		IP 55
Rated power 50 Hz		11 kW
Rated power 60 Hz		13.2 kW
Rotation speed		from 1500 to 4500 min <sup>-1</sup>
Rotation speed max.		4500 min <sup>-1</sup>
Rotation speed min.		1500 min <sup>-1</sup>
Version		Standard with motor
Weight: with motor		670 kg   1,477.08 lb
Weight: without motor		550 kg   1,212.53 lb

Order number	
Okta 4000	PP W71 000

Accessories	
<b>Accessories</b>	
Oil level monitoring 20-250 V AC for Okta 250 / M / Okta 500 / M / Okta 1000 / M / Okta 2000 / M / Okta 4000 / M / Okta 6000 / M, G 1 1/4	PK 004 930 -U
Oil level monitoring 24 V DC for Okta 250 / M / Okta 500 / M / Okta 1000 / M / Okta 2000 / M / Okta 4000 / M / Okta 6000 / M, G 1 1/4	PK 005 639 -U
<b>Adjusting elements for fastening the feet.</b>	
Setting elements for foot mounting for Okta 2000 / M / Okta 4000 / M / Okta 6000 / M / Okta 1500 G, 29 mm	PP 144 118 -T
<b>Blank flange sets</b>	
Blank flange set (Stainless steel) for Okta 4000 / M / ATEX / Okta 6000 / M, DN PN16/PN10	PP 045 889 -T
Blank flange set (Stainless steel) for Okta 4000 / M / Okta 6000 / M, DN ISO-K	PP 045 888 -T
Blank flange set for Okta 4000 / M / Okta 6000 / M, Stainless steel	PP 045 887 -T
<b>DN ISO-F</b>	
Mounting bolts (Stainless steel) for Okta 4000 / M / Okta 4000 / M, Okta 6000 / M, DN ISO-F	PP 045 876 -T
Mounting bolts (Zinc-plated Steel) for Okta 4000 / M / Okta 4000 / M, Okta 6000 / M, DN ISO-F	PP 045 875 -T
<b>DN ISO-K</b>	
Claw set (Stainless steel) for Okta 4000 / M / Okta 4000 / M, Okta 6000 / M, DN ISO-K	PP 045 881 -T
Claw set (Zinc-plated Steel) * for Okta 4000 / M / Okta 4000 / M, Okta 6000 / M, DN ISO-K	PP 045 883 -T
Claw set (Zinc-plated Steel) for Okta 4000 / M / Okta 4000 / M, Okta 6000 / M, DN ISO-K	PP 045 882 -T
<b>DN PN16/PN10</b>	
Mounting bolts (Zinc-plated Steel) for Okta 4000 / M / ATEX / Okta 4000 / M / ATEX, Okta 6000 / M, DN PN16/PN10	PP 045 884 -T
<b>Frequency converter</b>	
Frequency converter (Complete with control box) Okta 4000 / M	PP 078 284 -T
<b>Gear chamber evacuation</b>	
Gear box exhaust (Flexible hose) for Okta 4000 / M / Okta 6000 / M, G 3/8 (3x)	PP 045 892 -T
Gear box exhaust (Plastic hose) for Okta 4000 / M / Okta 6000 / M, G 3/8 (3x)	PP 045 891 -T
<b>Oil compensating line (with oil level monitoring)</b>	
Oil compensating line with oil level monitoring for Okta 250 / M / Okta 500 / M, G 3/8 (4x), G 1 1/4 (1x)	PP 031 449 -T
<b>Purge gas kit</b>	
Sealing gas kit for Okta 250 / M / Okta 500 / M / Okta 1000 / M / Okta 2000 / M / Okta 4000 / M / Okta 6000 / M / Okta 8000 / Okta 1500 G / Okta 4000 G / Okta 8000 G, G 3/8 (4x)	PP 027 401 -T
<b>Sealing kits</b>	
Centering ring with outer ring for vacuum flange for Okta 1000 / M / Okta 2000 / M, DN ISO-F	PF 303 116 -T
Centering ring with outer ring for vacuum flange for Okta 4000 / M / Okta 6000 / M / Okta 4000 G, DN ISO-F	PF 303 125 -T
Seal kit (FKM) for Okta 4000 / M / ATEX, DN PN16/PN10	PP 045 890 -T

Accessories	
<b>Splinter shield</b>	
Splinter shield for Okta 4000/4000 M/4000 G/6000/6000 M	PP 031 136 -X
Splinter shield for Okta 4000 / 6000, hermetically sealed	PP 031 137 -X
<b>Sprayer</b>	
Sprayer DN ISO-F for Okta 4000 / M / Okta 6000 / M / Okta 4000 G	PP 045 872 -T
Sprayer DN PN16/PN10 for Okta 4000 / M / Okta 6000 / M	PP 031 245 -T
<b>Temperature sensor</b>	
Temperature sensor for Okta 250 / M / Okta 500 / M / Okta 1000 / M / Okta 2000 / M / Okta 4000 / M / Okta 6000 / M / Okta 500 G / Okta 1500 G / Okta 4000 G, G 3/8	PP 041 457 -T
<b>Consumables</b>	
P3, mineral oil, 1 l	PK 001 106 -T
P3, mineral oil, 5 l	PK 001 107 -T