



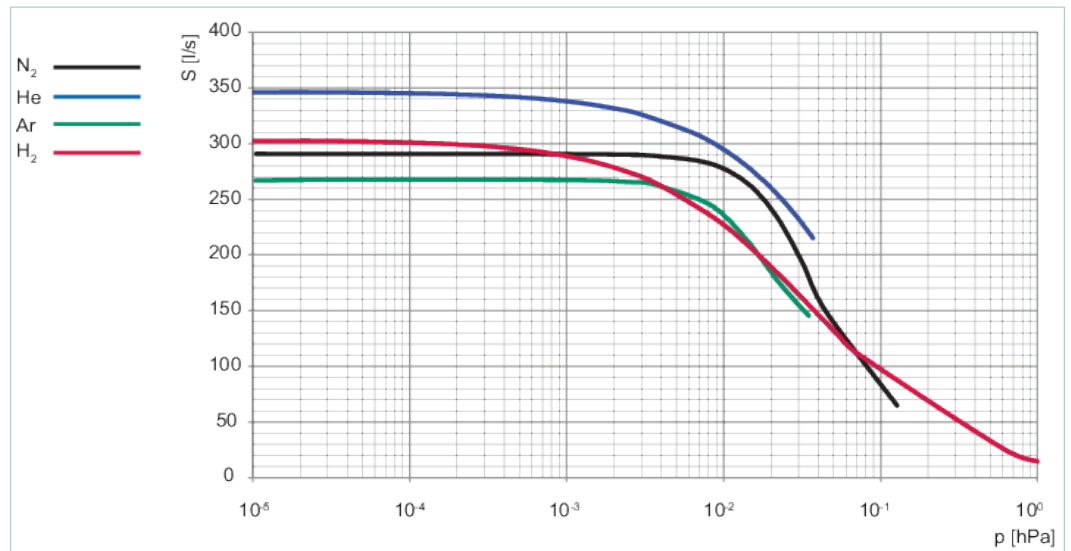
HiPace[®] 350



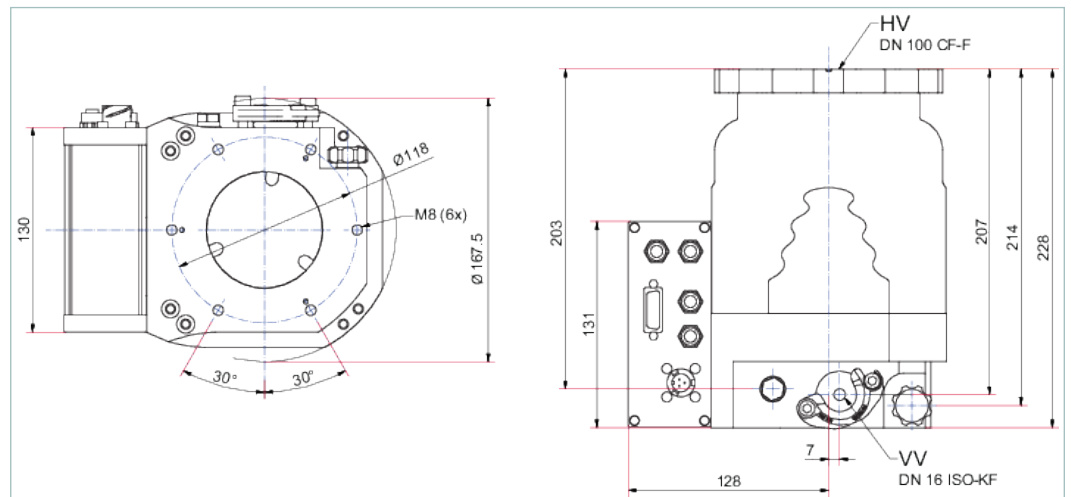
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HiPace® 350 with TC 400, DN 100 CF-F

- Robust, high-performance turbopump with a pumping speed of up to 300 l/s for N₂
- Compact and powerful
- Exceptional pumping speed for light gases
- Laser balancing technology
- For installation in any orientation
- TC 400 integrated electronic drive unit
- Comprehensive accessories extend the range of applications



Dimensions



Technical Data

HiPace® 350 with TC 400, DN 100 CF-F

Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$2 \cdot 10^6$
Compression ratio for He	$> 1 \cdot 10^8$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Connection flange (in)	DN 100 CF-F
Connection flange (out)	DN 16 ISO-KF / G 3/8"
Cooling method	Convection

Technical Data	HiPace® 350 with TC 400, DN 100 CF-F
Cooling method, optional	Air Water
Cooling water flow	100 l/h
Cooling water flow, max.	100 l/h
Cooling water flow, min.	100 l/h
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Current, max.	8,4 A
Electronic drive unit	with TC 400
Final pressure without gas ballast	5 · 10 ⁻¹⁰ hPa 3.75 · 10 ⁻¹⁰ Torr 5 · 10 ⁻¹⁰ mbar
Fore-vacuum max. for N ₂	10 mbar
Gas throughput at final rotation speed for Ar	0.7 mbar l/s
Gas throughput at final rotation speed for H ₂	11 mbar l/s
Gas throughput at final rotation speed for He	7 mbar l/s
Gas throughput at final rotation speed for N ₂	2 mbar l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Arbitrary
Permissible axial magnetic field max.	20 mT
Permissible radial magnetic field max.	4.5 mT
Power consumption max.	420 W
Protection degree	IP54; Type 12
Pumping speed for Ar	270 l/s
Pumping speed for H ₂	300 l/s
Pumping speed for He	350 l/s
Pumping speed for N ₂	300 l/s
Rotation speed ± 2 %	66,000 rpm 66,000 min ⁻¹
Rotation speed variable	60 – 100 %
Run-up time	2 min
Sound pressure level	≤50 dB(A)
Venting connection	G 1/8"
Weight	10.6 kg 23.37 lb

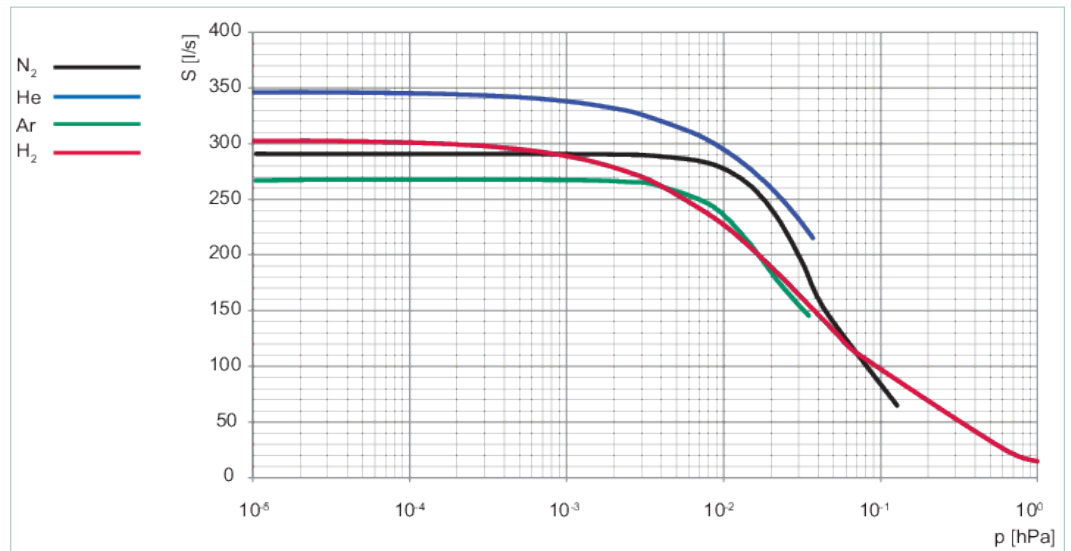
Order number	
HiPace® 350	PM P070 411 50



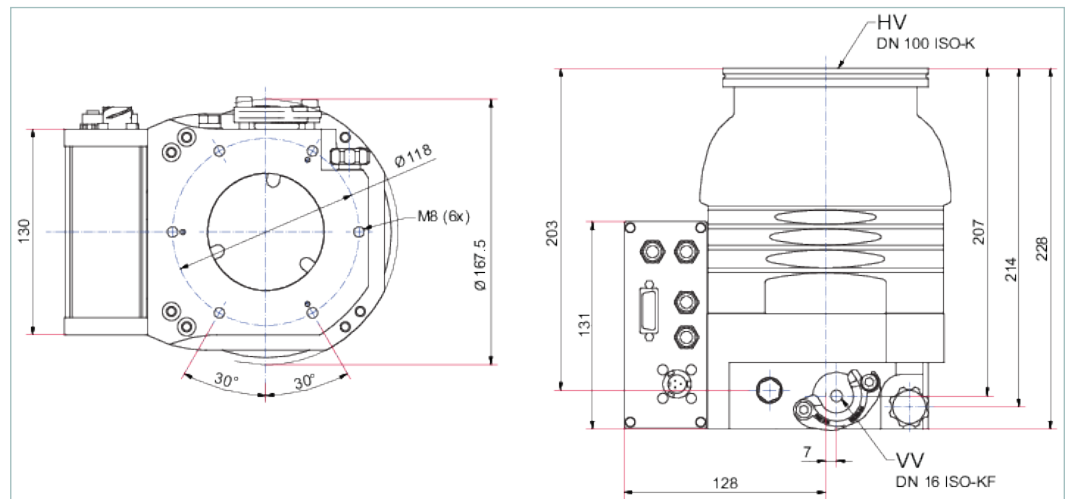
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HiFace® 350 with TC 400, DN 100 ISO-K

- Robust, high-performance turbopump with a pumping speed of up to 300 l/s for N₂
- Compact and powerful
- Exceptional pumping speed for light gases
- Laser balancing technology
- For installation in any orientation
- TC 400 integrated electronic drive unit
- Comprehensive accessories extend the range of applications



Dimensions



Technical Data

HiFace® 350 with TC 400, DN 100 ISO-K

Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$2 \cdot 10^6$
Compression ratio for He	$> 1 \cdot 10^8$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Connection flange (in)	DN 100 ISO-K
Connection flange (out)	DN 16 ISO-KF / G 3/8"
Cooling method	Convection

Technical Data	HiPace® 350 with TC 400, DN 100 ISO-K
Cooling method, optional	Air Water
Cooling water flow	100 l/h
Cooling water flow, max.	100 l/h
Cooling water flow, min.	100 l/h
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Current, max.	8,4 A
Electronic drive unit	with TC 400
Final pressure without gas ballast	1 · 10 ⁻⁷ hPa 7,5 · 10 ⁻⁸ Torr 1 · 10 ⁻⁷ mbar
Fore-vacuum max. for N ₂	10 mbar
Gas throughput at final rotation speed for Ar	0.7 mbar l/s
Gas throughput at final rotation speed for H ₂	11 mbar l/s
Gas throughput at final rotation speed for He	7 mbar l/s
Gas throughput at final rotation speed for N ₂	2 mbar l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Arbitrary
Permissible axial magnetic field max.	20 mT
Permissible radial magnetic field max.	4.5 mT
Power consumption max.	420 W
Protection degree	IP54; Type 12
Pumping speed for Ar	270 l/s
Pumping speed for H ₂	300 l/s
Pumping speed for He	350 l/s
Pumping speed for N ₂	300 l/s
Rotation speed ± 2 %	66,000 rpm 66,000 min ⁻¹
Rotation speed variable	60 – 100 %
Run-up time	2 min
Sound pressure level	≤50 dB(A)
Venting connection	G 1/8"
Weight	7.8 kg 17.2 lb

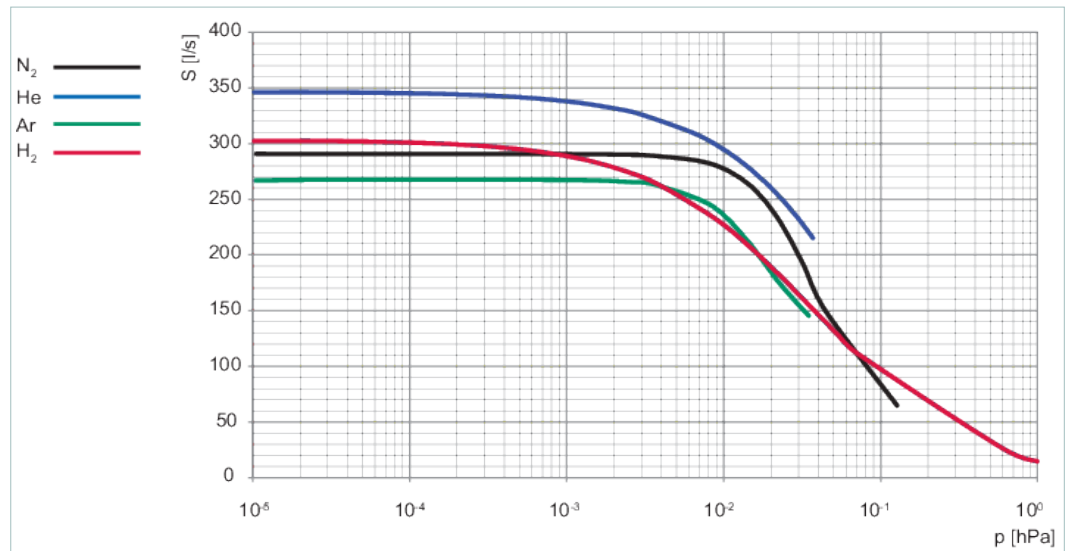
Order number	
HiPace® 350	PM P070 401 50



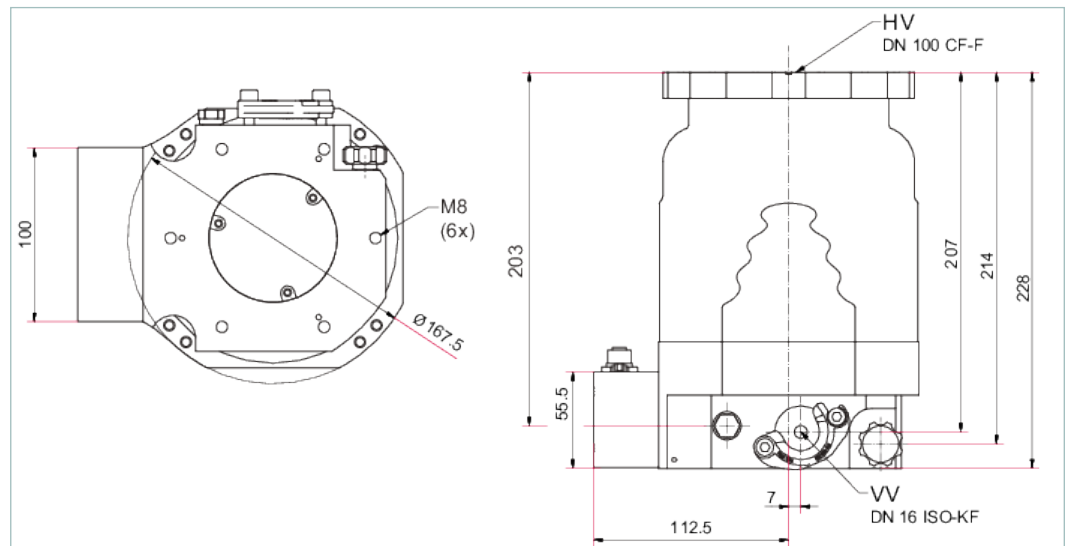
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HiPace® 350 with TC 120, DN 100 CF-F

- Robust, high-performance turbopump with a pumping speed of up to 300 l/s for N₂
- Compact and powerful
- Exceptional pumping speed for light gases
- Laser balancing technology
- For installation in any orientation
- TC 120 integrated electronic drive unit
- Comprehensive accessories extend the range of applications



Dimensions



Technical Data	HiPace® 350 with TC 120, DN 100 CF-F
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$2 \cdot 10^6$
Compression ratio for He	$> 1 \cdot 10^8$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Connection flange (in)	DN 100 CF-F

Technical Data	HiPace® 350 with TC 120, DN 100 CF-F
Connection flange (out)	DN 16 ISO-KF / G 3/8"
Cooling method	Convection
Cooling method, optional	Air Water
Cooling water flow	100 l/h
Cooling water flow, max.	100 l/h
Cooling water flow, min.	100 l/h
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Current, max.	3.75 A
Electronic drive unit	with TC 120
Final pressure without gas ballast	5 · 10 ⁻¹⁰ hPa 3.75 · 10 ⁻¹⁰ Torr 5 · 10 ⁻¹⁰ mbar
Fore-vacuum max. for N ₂	10 mbar
Gas throughput at final rotation speed for Ar	0.7 mbar l/s
Gas throughput at final rotation speed for H ₂	11 mbar l/s
Gas throughput at final rotation speed for He	7 mbar l/s
Gas throughput at final rotation speed for N ₂	2 mbar l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Arbitrary
Permissible axial magnetic field max.	20 mT
Permissible radial magnetic field max.	4.5 mT
Power consumption max.	180 W
Protection degree	IP54; Type 12
Pumping speed for Ar	270 l/s
Pumping speed for H ₂	300 l/s
Pumping speed for He	350 l/s
Pumping speed for N ₂	300 l/s
Rotation speed ± 2 %	66,000 rpm 66,000 min ⁻¹
Rotation speed variable	60 – 100 %
Run-up time	4 min
Sound pressure level	≤50 dB(A)
Venting connection	G 1/8"
Weight	10 kg 22.05 lb

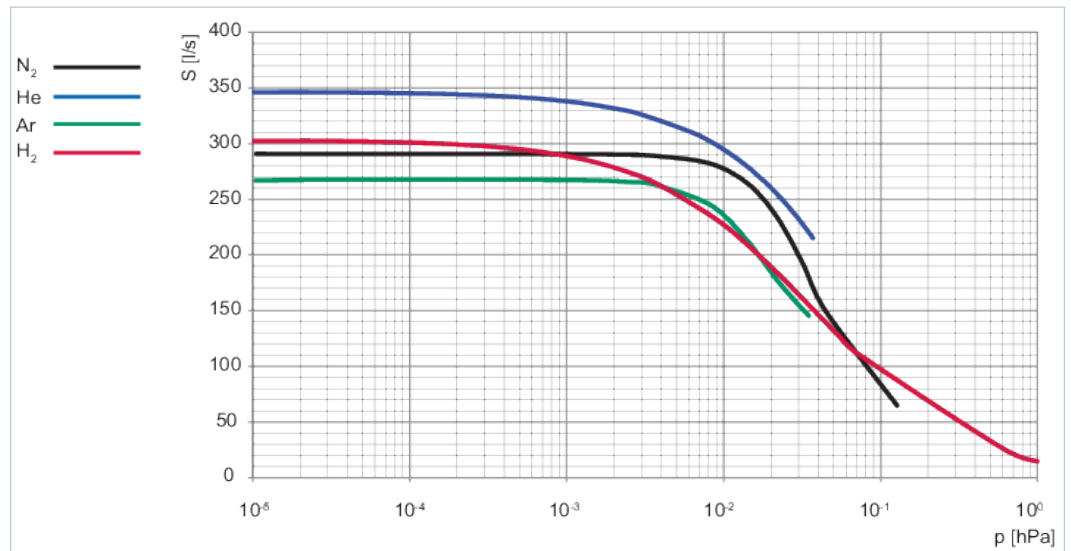
Order number	
HiPace® 350	PM P070 411 30



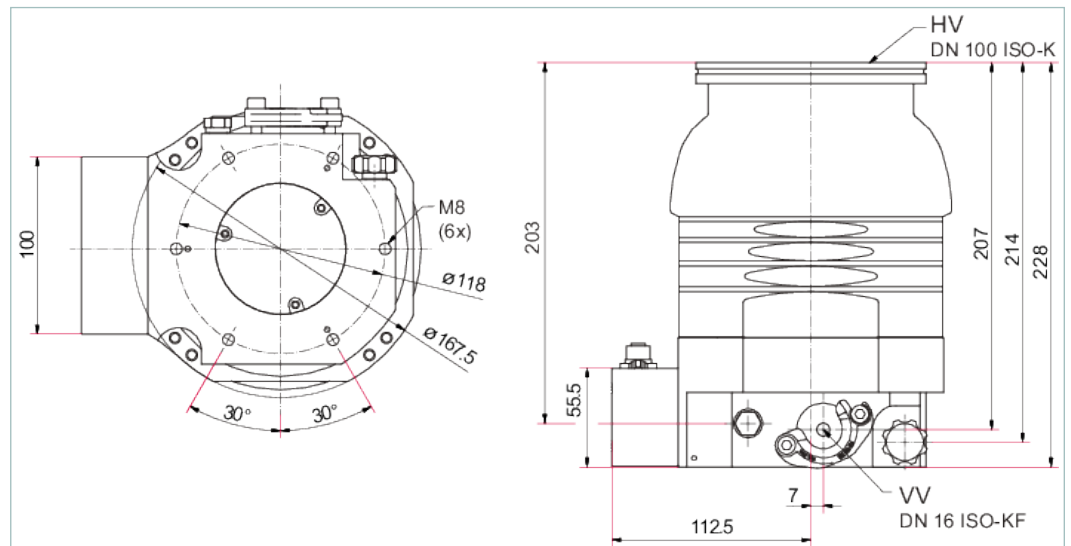
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HiPace® 350 with TC 120, DN 100 ISO-K

- Robust, high-performance turbopump with a pumping speed of up to 300 l/s for N₂
- Compact and powerful
- Exceptional pumping speed for light gases
- Laser balancing technology
- For installation in any orientation
- TC 120 integrated electronic drive unit
- Comprehensive accessories extend the range of applications



Dimensions



Technical Data

HiPace® 350 with TC 120, DN 100 ISO-K

Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$2 \cdot 10^6$
Compression ratio for He	$> 1 \cdot 10^8$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Connection flange (in)	DN 100 ISO-K

Technical Data	HiPace® 350 with TC 120, DN 100 ISO-K
Connection flange (out)	DN 16 ISO-KF / G 3/8"
Cooling method	Convection
Cooling method, optional	Air Water
Cooling water flow	100 l/h
Cooling water flow, max.	100 l/h
Cooling water flow, min.	100 l/h
Cooling water temperature	15-25 °C 59-77 °F 288-298 K
Current, max.	3,75 A
Electronic drive unit	with TC 120
Final pressure without gas ballast	1 · 10 ⁻⁷ hPa 7.5 · 10 ⁻⁸ Torr 1 · 10 ⁻⁷ mbar
Fore-vacuum max. for N ₂	10 mbar
Gas throughput at final rotation speed for Ar	0.7 mbar l/s
Gas throughput at final rotation speed for H ₂	11 mbar l/s
Gas throughput at final rotation speed for He	7 mbar l/s
Gas throughput at final rotation speed for N ₂	2 mbar l/s
I/O interfaces	RS-485, Remote
Mounting orientation	Arbitrary
Permissible axial magnetic field max.	20 mT
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Pumping speed for He	350 l/s
Pumping speed for N ₂	300 l/s
Rotation speed ± 2 %	66,000 rpm 66,000 min ⁻¹
Rotation speed variable	60 – 100 %
Run-up time	4 min
Sound pressure level	≤50 dB(A)
Venting connection	G 1/8"
Weight	7.2 kg 15.87 lb

Order number	
HiPace® 350	PM P070 401 30

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