



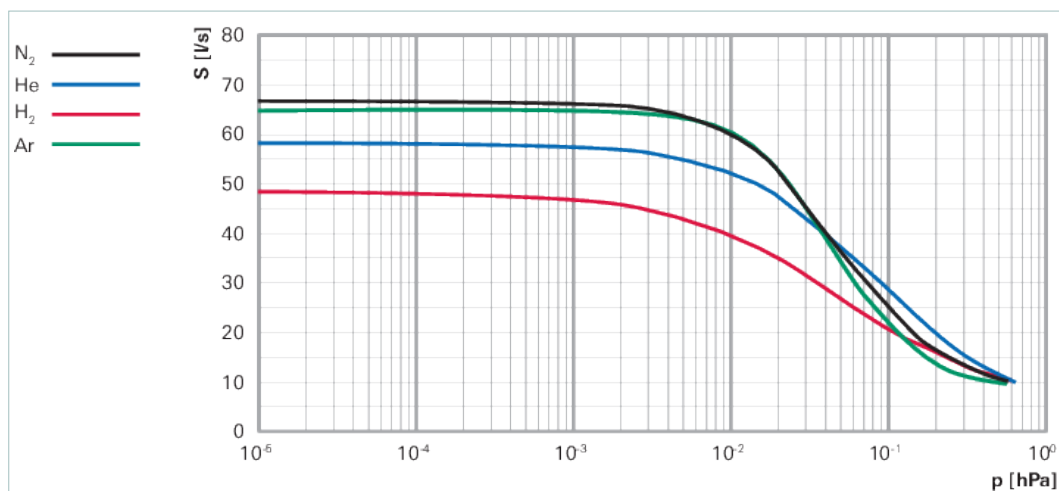
HiPace[®] 80 for TCP 350, DN 63 ISO-K



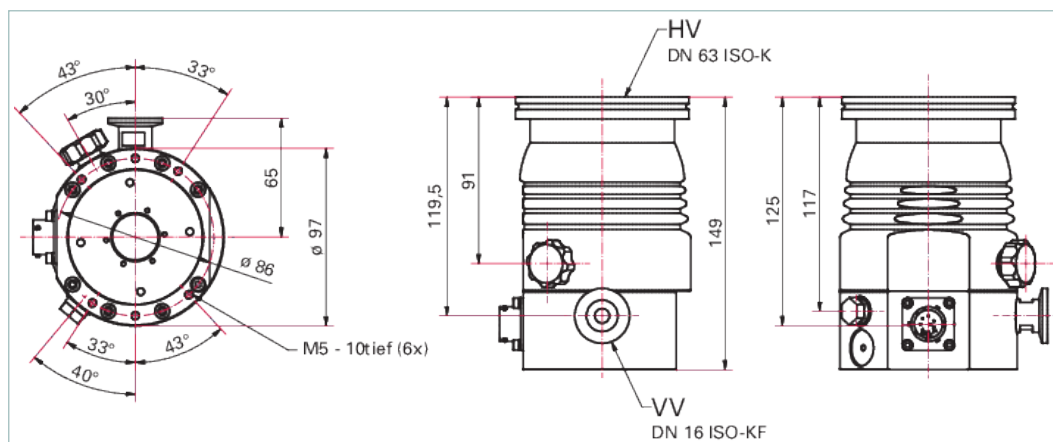
Similar Image

HiPace® 80 for TCP 350, DN 63 ISO-K

- Small yet powerful turbopump with a pumping speed of up to 67 l/s for N₂
- External TCP 350 drive electronics
- For installation in any orientation
- Ideal for dependable systems integration
- Extensive accessories expand the range of applications



Dimensions



Technical Data	HiPace® 80 for TCP 350, DN 63 ISO-K
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{11}$
Compression ratio for H ₂	$1.4 \cdot 10^5$
Compression ratio for He	$1.3 \cdot 10^7$
Compression ratio for N ₂	$> 1 \cdot 10^{11}$
Cooling method, optional	Air/Water
Cooling method, standard	Convection
Cooling water consumption	75 l/h
Cooling water temperature	5-25 °C 41-77 °F 278-298 K
Electronic drive unit	for TCP 350
Flange (in)	DN 63 ISO-K
Flange (out)	DN 16 ISO-KF/G 1/4"
Fore-vacuum max. for N ₂	22 hPa 16.5 Torr 22 mbar
Gas throughput at full rotational speed for Ar	0.54 hPa·l/s

Technical Data	HiPace® 80 for TCP 350, DN 63 ISO-K
Gas throughput at full rotational speed for H ₂	15.3 hPa·l/s
Gas throughput at full rotational speed for He	2.7 hPa·l/s
Gas throughput at full rotational speed for N ₂	1.3 hPa·l/s
Mounting orientation	in any orientation
Permissible magnetic field max.	3.3 mT
Protection category	IP54
Pumping speed for Ar	66 l/s
Pumping speed for H ₂	48 l/s
Pumping speed for He	58 l/s
Pumping speed for N ₂	67 l/s
Rotation speed ± 2 %	90,000 rpm 90,000 min ⁻¹
Rotation speed variable	50 – 100 %
Run-up time	3 min
Separate electronic drive unit	YES
Sound pressure level	≤ 48 dB(A)
Ultimate pressure according to PNEUROP	< 1 · 10 ⁻⁷ hPa < 7.5 · 10 ⁻⁸ Torr < 1 · 10 ⁻⁷ mbar
Venting connection	G 1/8"
Weight	2.1 kg 4.63 lb

Order number	
HiPace® 80	PM P03 943

Accessories	
Mains cables	
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	P 4564 309 ZA
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	P 4564 309 ZE
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	P 4564 309 ZF
RS-485 accessories	
Y-Connector M12 to RS-485	P 4723 010
USB converter to RS-485 interface	PM 061 207 -T
Connector M12 to RS-485	PM 061 270 -X
Termination resistor for RS-485	PT 348 105 -T
Power separator for RS-485	PT 348 132 -T
Vibration damper	
Vibration damper for HiPace 60/80, DN 63 ISO-K	PM 006 800 -X
Centering ring with multifunctional coating	
Centering ring with multifunction coating, DN 63 ISO-K/-F	PM 016 206 -U
Centering ring with multifunctional coating, including protection screen	
Centering ring with multifunction coating and integrated splinter shield, DN 63 ISO-K/-F	PM 016 207 -U
Centering ring with multifunctional coating, including splinter shield	
Centering ring with multifunction coating and integrated protection screen, DN 63 ISO-K/-F	PM 016 208 -U
Mounting kits for HiPace, including coated centering ring and bracket screws	
Mounting kit for HiPace 60/80, DN 63 ISO-K, including coated centering ring and bracket screws	PM 016 360 -T
Mounting kits for HiPace, including coated centering ring, splinter shield and bracket screws	
Mounting kit for HiPace 60/80, DN 63 ISO-K, including coated centering ring, splinter shield and bracket screws	PM 016 361 -T
Mounting kits for HiPace, including coated centering ring, protection screen and bracket screws	
Mounting kit for HiPace 60/80, DN 63 ISO-K, including coated centering ring, protection screen and bracket screws	PM 016 362 -T
Mounting kits for HiPace, including coated centering ring and claws	
Mounting kit for HiPace 60/80, DN 63 ISO-K, including coated centering ring and claws	PM 016 510 -T
Mounting kits for HiPace, including coated centering ring, splinter shield and claws	
Mounting kit for HiPace 60/80, DN 63 ISO-K, including coated centering ring, splinter and claw grips	PM 016 511 -T
Mounting kits for HiPace, including coated centering ring, protection screen and claws	
Mounting kit for HiPace 60/80, DN 63 ISO-K, including coated centering ring with integrated protection screen and claws grips	PM 016 512 -T
Water cooling	
Water cooling for HiPace 60 P, HiPace 80 and for SplitFlow 50/80 with push-in fitting, 8 mm	PM 016 623 -T

Accessories	
Venting accessory with small flange, G 1/8", hoses, air drier	
Screw-on flange, DN 16 ISO-KF, G 1/8"	PM 016 780 -T
Push-in fitting for 6 mm hose, G 1/8"	PM 016 781 -T
Push-in fitting for 8 mm hose, G 1/8"	PM 016 782 -T
Hose nozzle for 9 mm hose, G 1/8"	PM 016 783 -T
Banjo fitting	PM 016 787 -T
Screw-in flange, DN 10 ISO-KF, G 1/8"	PM 033 737 -T
Banjo fitting, small	PM 143 877 -T
TTV 001, dryer for venting turbopumps	PM Z00 121
Accessories RS-485	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T
Connection cables	
Connection cable from TCP 350 to HiPace with 2 accessory ports M8, 3 m	PM 061 353 -T
Relay boxes suitable for TC 110, TC 400 and TCP 350	
Relay box for backing pump, single phase 20 A for TC 110/120 and TCP 350, M8 plug	PM 061 373 -T
Adapter and control cables	
Adapter cable, TCP 350 - backing pump relay box, M8	PM 061 376 -T
Front panel kit as spare part	
Front panel kit for TPS 111	PM 061 393 -T
Extension cables	
Extension cable M8 on M8	PM 061 783 -T
Interface cables	
Interface cable, M12 m straight/ M12 m angled 0.7 m	PM 061 791 -T
Shielded relay boxes suitable for TC 110/TC 400 with PB, TC 1200 and TM 700	
Relay box, shielded, for backing pumps, 1-phase 7A for TC 110/120 and TCP 350, plug M8	PM 071 282 -X
External drive units	
TCP 350 electronic drive unit	PM C01 740
TCP 350 PB, drive electronics, Profibus	PM C01 741
TCP 350 DN, drive electronics, DeviceNet	PM C01 742
Fore-vacuum safety valves	
TVV 001 fore-vacuum safety valve, 230 V AC	PM Z01 205
TVV 001 fore-vacuum safety valve, 115 V AC	PM Z01 206
Venting valve (normally closed)	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 110/120	PM Z01 290
Venting valve, 24 V DC, G 1/8" without cable	PM Z01 293
Air coolings (unshielded)	
Air cooling for HiPace 60 P, HiPace 80 and SplitFlow 50/80 with TC 110/120	PM Z01 300
Sealing gas valve, shielded (normally closed)	
Sealing gas valve, shielded for HiPace 30/60/80 with TC 110	PM Z01 310
Sealing gas throttle	
Sealing gas throttle for HiPace 30/60/80	PM Z01 316
Power failure venting units (normally open)	
Shielded power failure venting unit, 24 V DC, G 1/8", for connection to TC 110/120	PM Z01 330

Accessories	
Air coolings 115/230 V	
Air cooling for HiPace 60/80, SplitFlow 50/80, 230 V	PM Z01 343
Air cooling for HiPace 60 P and 80, SplitFlow 50/80, 115 V	PM Z01 344
Mounting kit with collar flange, coated centering ring, Hexagon bolts	
Mounting kit for DN 63 ISO-K to ISO-F, with collar flange, coated centering ring, hexagon bolts	PM 016 930 -T
Mounting kit with collar flange, coated centering ring with splinter shield, hexagon bolts	
Mounting kit for DN 63 ISO-K to ISO-F, with collar flange, coated centering ring with splinter shield, hexagon bolts	PM 016 931-T
Mounting kit with collar flange, coated centering ring with protection screen, hexagon bolts	
Mounting kit for DN 63 ISO-K to ISO-F, with collar flange, coated centering ring with protection screen, hexagon bolts	PM 016 932 -T
DN ISO-K-F Mounting kit with collar flange, coated centering ring, stud screws	
Mounting kit for DN 63 ISO-K to ISO-F, with collar flange, coated centering ring, stud screws	PM 016 935 -T
Mounting kit with collar flange, coated centering ring with splinter shield, stud screws	
Mounting kit for DN 63 ISO-K to ISO-F, with collar flange, coated centering ring with splinter shield, stud screws	PM 016 936 -T
Mounting kit with collar flange, coated centering ring with protection screen, stud screws	
Mounting kit for DN 63 ISO-K to ISO-F, with collar flange, coated centering ring with protection screen, stud screws	PM 016 937 -T

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