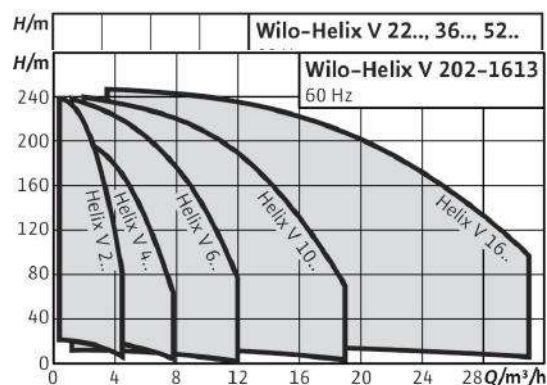


## Series description: Wilo-Helix V



Pump curves in accordance with ISO 9906, class 2

### Design

Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical design, made of stainless steel throughout, with in-line connections

### Application

- Water supply and pressure boosting
- Industrial circulation systems
- Process water
- Cooling water circulation systems
- Fire extinguishing systems
- Washing systems
- Irrigation

Versions with 1.44xx stainless steel for aggressive fluids

### Type key

Example: **Helix V1602-1/16/E/K/. /380-60**

<b>Helix V</b>	Vertical, multistage high-pressure centrifugal pump in in-line design
<b>16</b>	Volume flow in m³/h
<b>02</b>	Number of impellers
<b>1</b>	Pump material

### Equipment/function

- Corrosion-resistant impellers, diffusors and stage housing

### Description/design

- Pumps can be adapted to specific uses on request (e.g. motor protection, AteX, expanded ambient temperature range).
- The Helix series is also available with integrated frequency converter

### Materials

- Standard version
  - Impellers and stage housing made of stainless steel 1.4307
  - Pump housing made of stainless steel 1.4301.
  - Baseplate and lantern in EN-GJL-250 (cataphoretic coated)
  - Shaft in stainless steel 1.4301 or 1.4462 (depending on model)
  - Sleeve underneath the mechanical seal 1.4404
  - O-ring made of EPDM (FKM gasket on request)
  - Jacket pipe made of stainless steel 1.4301
  - Impellers, stage housing and diffusors made of stainless steel 1.4404
- Pump housing made of stainless steel 1.4404.
- Shaft of stainless steel 1.4404 or 1.4462 (depending on model)
- Sleeve under the mechanical seal 1.4404
- O-ring made of EPDM (FKM gasket on request)
- Jacket pipe made of stainless steel 1.4404

## Series description: Wilo-Helix V

1 =	Pump housing 1.4301 (AISI 304) hydraulics 1.4307 (AISI 304L)
2 =	Pump housing 1.4404 (AISI 316L) hydraulics 1.4404 (AISI 316L)
<b>E</b>	Seal type E = EPDM V = FKM
<b>K</b>	Mechanical seal in cartridge design
..	Optional
<b>380</b>	Connection voltage in V
<b>60</b>	Frequency in Hz

### Scope of delivery

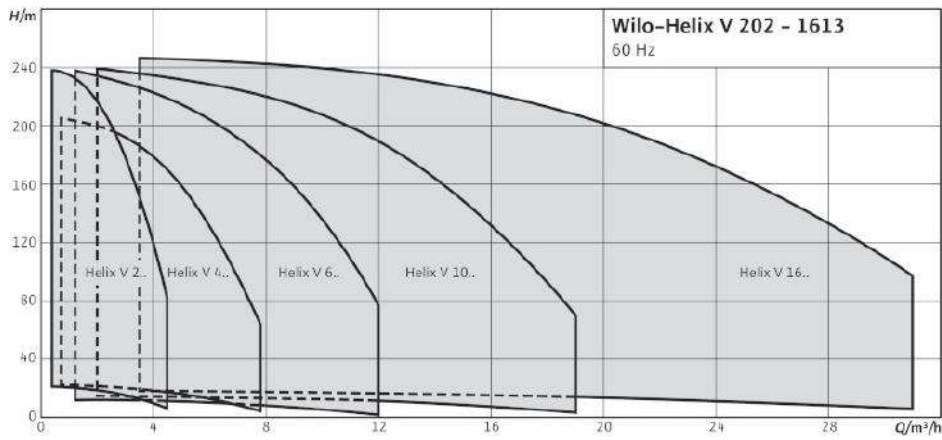
- Multistage high-pressure centrifugal pump Helix V
- Counter flanges with corresponding screws and O-rings (PN16 variant) or bolts and gaskets if a counter flange is used (PN25 variant)
- Installation and operating instructions
- Integrated funnel for easier pump filling

### Special features/product advantages

- Efficiency-optimised, laser-welded 2D/3D high-efficiency hydraulics
- IEC standard motor conform with INMETRO PORTARIA 488, 3-phase, 2 pole (IE3 on request)
- The entire HELIX series is available with a user-friendly **X-Seal** cartridge mechanical seal (with standard gasket) which allows fast and easy maintenance
- The spacer coupling enables the mechanical seal to be replaced without dismantling the motor (from 7.5 kW and higher)
- The new flexible lantern design, which is available in two alignments, enables direct access to the mechanical seal.
- Additional roller bearing in the lantern for maximum compensation of the hydraulic axial thrust and for use of standard motors
- Specially designed, permanently attached lifting eyes for easy pump installation
- The terminal box is normally positioned aligned with the suction flange, but this can be changed if needed
- Intermediate bearings (AI203/CW) ensure a long service life
- Corrosion-resistant shaft thanks to stainless steel sleeve
- WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version)

## Duty chart: Wilo-Helix V

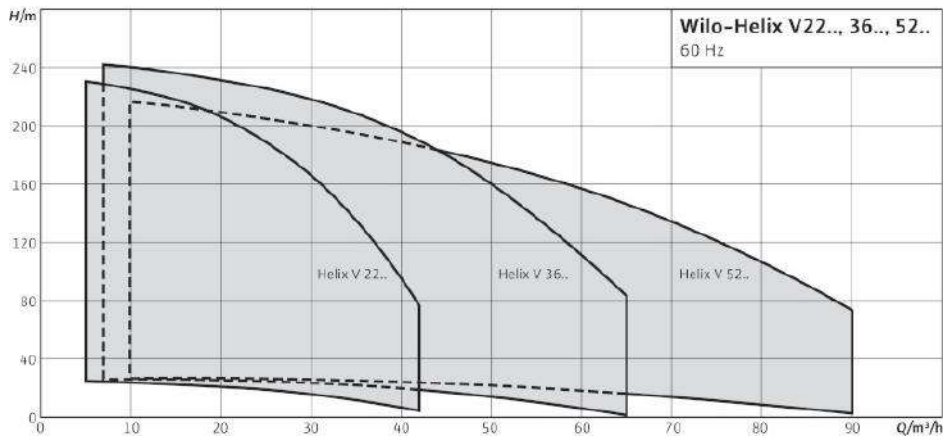
### Pump curves Helix V



Pump curves in accordance with ISO 9906, class 2

## Duty chart: Wilo-Helix V

### Pump curves Helix V



Pump curves in accordance with ISO 9906, class 2

## Product list: Wilo-Helix V

Designation	Mains connection	Rated pressure	Nominal motor	Gross weight	Art no.
			power		
			$P_2$ /kW	$m$ /kg	
Helix V 202	3~460 V, 60 Hz	PN 16	0.37	26.0	4192388
Helix V 203	3~460 V, 60 Hz	PN 16	0.55	28.0	4192389
Helix V 204	3~460 V, 60 Hz	PN 16	0.55	28.0	4192390
Helix V 205	3~460 V, 60 Hz	PN 16	0.75	33.0	4192391
Helix V 206	3~460 V, 60 Hz	PN 16	1.1	35.0	4192392
Helix V 207	3~460 V, 60 Hz	PN 16	1.1	35.0	4192393
Helix V 208	3~460 V, 60 Hz	PN 16	1.1	36.0	4192394
Helix V 209	3~460 V, 60 Hz	PN 16	1.5	40.0	4192395
Helix V 210	3~460 V, 60 Hz	PN 16	1.5	41.0	4192396
Helix V 211	3~460 V, 60 Hz	PN 16	1.5	41.0	4192397
Helix V 212	3~460 V, 60 Hz	PN 16	2.2	45.0	4192398
Helix V 213	3~460 V, 60 Hz	PN 25	2.2	48.0	4192399
Helix V 214	3~460 V, 60 Hz	PN 25	2.2	48.0	4192400
Helix V 216	3~460 V, 60 Hz	PN 25	2.2	49.0	4192401
Helix V 218	3~380/460 V, 60 Hz	PN 25	3.0	68.0	4192402
Helix V 220	3~380/460 V, 60 Hz	PN 25	3.0	69.0	4192403
Helix V 220	3~380/460 V, 60 Hz	PN 30	3.0	73.0	4192407
Helix V 222	3~380/460 V, 60 Hz	PN 25	3.0	70.0	4192404
Helix V 222	3~380/460 V, 60 Hz	PN 30	3.0	74.0	4192408
Helix V 224	3~380/460 V, 60 Hz	PN 30	4.0	87.0	4192405
Helix V 227	3~380/460 V, 60 Hz	PN 30	4.0	88.0	4192406
Helix V 402	3~460 V, 60 Hz	PN 16	0.55	27.0	4192409
Helix V 403	3~460 V, 60 Hz	PN 16	0.75	30.0	4192410
Helix V 404	3~460 V, 60 Hz	PN 16	1.1	33.0	4192411
Helix V 405	3~460 V, 60 Hz	PN 16	1.1	34.0	4192412
Helix V 406	3~460 V, 60 Hz	PN 16	1.5	38.0	4192413
Helix V 407	3~460 V, 60 Hz	PN 16	1.5	39.0	4192414
Helix V 408	3~460 V, 60 Hz	PN 16	2.2	43.0	4192415
Helix V 409	3~460 V, 60 Hz	PN 16	2.2	43.0	4192416
Helix V 410	3~460 V, 60 Hz	PN 16	2.2	44.0	4192417
Helix V 411	3~380/460 V, 60 Hz	PN 16	3.0	49.0	4192418
Helix V 412	3~380/460 V, 60 Hz	PN 25	3.0	52.0	4192419
Helix V 413	3~380/460 V, 60 Hz	PN 25	3.0	53.0	4192420
Helix V 414	3~380/460 V, 60 Hz	PN 25	4.0	76.0	4192421
Helix V 416	3~380/460 V, 60 Hz	PN 25	4.0	77.0	4192422
Helix V 418	3~380/460 V, 60 Hz	PN 25	4.0	78.0	4192423
Helix V 602	3~460 V, 60 Hz	PN 16	0.75	30.0	4192425
Helix V 603	3~460 V, 60 Hz	PN 16	1.1	34.0	4192426
Helix V 604	3~460 V, 60 Hz	PN 16	1.5	39.0	4192427
Helix V 605	3~460 V, 60 Hz	PN 16	2.2	43.0	4192428
Helix V 606	3~460 V, 60 Hz	PN 16	2.2	44.0	4192429
Helix V 607	3~380/460 V, 60 Hz	PN 16	3.0	50.0	4192430
Helix V 608	3~380/460 V, 60 Hz	PN 16	3.0	51.0	4192431
Helix V 609	3~380/460 V, 60 Hz	PN 16	4.0	62.0	4192432
Helix V 610	3~380/460 V, 60 Hz	PN 16	4.0	76.0	4192433
Helix V 611	3~380/460 V, 60 Hz	PN 25	4.0	79.0	4192434
Helix V 612	3~380/460 V, 60 Hz	PN 25	5.5	78.0	4192435
Helix V 614	3~380/460 V, 60 Hz	PN 25	5.5	80.0	4192436
Helix V 616	3~380/460 V, 60 Hz	PN 25	5.5	82.0	4192437
Helix V 616	3~380/460 V, 60 Hz	PN 30	5.5	87.0	4192442
Helix V 617	3~460 V, 60 Hz	PN 25	7.5	121.0	4192438
Helix V 617	3~460 V, 60 Hz	PN 30	7.5	126.0	4192443
Helix V 619	3~460 V, 60 Hz	PN 25	7.5	122.0	4192439
Helix V 619	3~460 V, 60 Hz	PN 30	7.5	127.0	4192444
Helix V 621	3~460 V, 60 Hz	PN 30	7.5	129.0	4192440
Helix V 623	3~460 V, 60 Hz	PN 30	9.0	183.5	4192441
Helix V 1002	3~460 V, 60 Hz	PN 16	1.5	43.0	4192446
Helix V 1003	3~460 V, 60 Hz	PN 16	2.2	47.0	4192447

## Product list: Wilo-Helix V

Designation	Mains connection	Rated pressure	Nominal motor	Gross weight	Art no.
			power		
			$P_2$ /kW	$m$ /kg	
Helix V 1004	3~380/460 V, 60 Hz	PN 16	3.0	51.0	4192448
Helix V 1005	3~380/460 V, 60 Hz	PN 16	4.0	63.0	4192449
Helix V 1006	3~380/460 V, 60 Hz	PN 16	4.0	64.0	4192450
Helix V 1007	3~380/460 V, 60 Hz	PN 16	5.5	64.0	4192451
Helix V 1008	3~380/460 V, 60 Hz	PN 16	5.5	65.0	4192453
Helix V 1009	3~380/460 V, 60 Hz	PN 25	5.5	76.0	4192454
Helix V 1010	3~460 V, 60 Hz	PN 25	7.5	88.0	4192455
Helix V 1011	3~460 V, 60 Hz	PN 25	7.5	90.0	4192456
Helix V 1012	3~460 V, 60 Hz	PN 25	9.0	139.5	4192457
Helix V 1013	3~460 V, 60 Hz	PN 25	9.0	141.5	4192458
Helix V 1014	3~460 V, 60 Hz	PN 25	9.0	142.5	4192459
Helix V 1016	3~460 V, 60 Hz	PN 25	11.0	159.5	4192460
Helix V 1016	3~460 V, 60 Hz	PN 30	11.0	220.0	4192462
Helix V 1602	3~380/460 V, 60 Hz	PN 16	3.0	52.0	4192464
Helix V 1603	3~380/460 V, 60 Hz	PN 16	4.0	63.0	4192465
Helix V 1604	3~380/460 V, 60 Hz	PN 16	5.5	87.0	4192466
Helix V 1605	3~460 V, 60 Hz	PN 16	7.5	87.0	4192467
Helix V 1606	3~460 V, 60 Hz	PN 16	7.5	88.0	4192468
Helix V 1607	3~460 V, 60 Hz	PN 16	9.0	138.5	4192469
Helix V 1608	3~460 V, 60 Hz	PN 16	11.0	126.5	4192470
Helix V 1609	3~460 V, 60 Hz	PN 25	11.0	132.5	4192471
Helix V 1610	3~460 V, 60 Hz	PN 25	15.0	223.0	4192472
Helix V 1611	3~460 V, 60 Hz	PN 25	15.0	223.0	4192473
Helix V 1611	3~460 V, 60 Hz	PN 30	15.0	233.0	4192478
Helix V 1612	3~460 V, 60 Hz	PN 25	15.0	223.0	4192474
Helix V 1612	3~460 V, 60 Hz	PN 30	15.0	233.0	4192479
Helix V 1613	3~460 V, 60 Hz	PN 25	18.5	264.0	4192475
Helix V 1613	3~460 V, 60 Hz	PN 30	18.5	274.0	4192480
Helix V 1614	3~460 V, 60 Hz	PN 30	18.5	274.0	4192476
Helix V 1615	3~460 V, 60 Hz	PN 30	18.5	274.0	4192477
Helix V 2201	3~460 V, 60 Hz	PN 16	2.2	77.0	4192556
Helix V 2202/2	3~380/460 V, 60 Hz	PN 16	4.0	90.0	4192557
Helix V 2202	3~380/460 V, 60 Hz	PN 16	5.5	92.0	4192558
Helix V 2203/2	3~380/460 V, 60 Hz	PN 16	5.5	91.0	4192559
Helix V 2203	3~460 V, 60 Hz	PN 16	7.5	100.0	4192560
Helix V 2204/3	3~460 V, 60 Hz	PN 16	7.5	117.0	4192561
Helix V 2204	3~460 V, 60 Hz	PN 16	11.0	136.5	4192562
Helix V 2205/3	3~460 V, 60 Hz	PN 16	11.0	134.5	4192563
Helix V 2205	3~460 V, 60 Hz	PN 16	11.0	138.5	4192564
Helix V 2206/3	3~460 V, 60 Hz	PN 25	15.0	202.0	4192565
Helix V 2206	3~460 V, 60 Hz	PN 25	15.0	203.0	4192566
Helix V 2207/1	3~460 V, 60 Hz	PN 25	15.0	204.0	4192567
Helix V 2208	3~460 V, 60 Hz	PN 25	18.5	218.0	4192568
Helix V 2209	3~460 V, 60 Hz	PN 25	22.0	220.0	4192569
Helix V 2210	3~460 V, 60 Hz	PN 30	22.0	249.0	4192570
Helix V 2211	3~460 V, 60 Hz	PN 30	30.0	321.2	4192571
Helix V 3601/1	3~380/460 V, 60 Hz	PN 16	4.0	102.0	4192572
Helix V 3601	3~380/460 V, 60 Hz	PN 16	5.5	101.0	4192573
Helix V 3602/1	3~460 V, 60 Hz	PN 16	9.0	145.5	4192575
Helix V 3602/2	3~460 V, 60 Hz	PN 16	7.5	130.0	4192574
Helix V 3602	3~460 V, 60 Hz	PN 16	11.0	150.5	4192576
Helix V 3603/1	3~460 V, 60 Hz	PN 25	15.0	213.0	4192578
Helix V 3603/2	3~460 V, 60 Hz	PN 25	15.0	213.0	4192577
Helix V 3603	3~460 V, 60 Hz	PN 25	15.0	213.0	4192579
Helix V 3604/1	3~460 V, 60 Hz	PN 25	18.5	227.0	4192581
Helix V 3604/2	3~460 V, 60 Hz	PN 25	18.5	227.0	4192580
Helix V 3604	3~460 V, 60 Hz	PN 25	22.0	227.0	4192582
Helix V 3605/1	3~460 V, 60 Hz	PN 25	30.0	299.2	4192584

## Product list: Wilo-Helix V

Designation	Mains connection	Rated pressure	Nominal motor power	Gross weight	Art no.
			$P_2$ /kW	$m$ /kg	
Helix V 3605/2	3~460 V, 60 Hz	PN 25	22.0	229.0	4192583
Helix V 3605	3~460 V, 60 Hz	PN 25	30.0	299.2	4192585
Helix V 3606/1	3~460 V, 60 Hz	PN 25	30.0	330.2	4192587
Helix V 3606/2	3~460 V, 60 Hz	PN 25	30.0	330.2	4192586
Helix V 3606	3~460 V, 60 Hz	PN 25	30.0	330.2	4192588
Helix V 3607/1	3~460 V, 60 Hz	PN 30	37.0	336.2	4192590
Helix V 3607/2	3~460 V, 60 Hz	PN 25	37.0	336.2	4192589
Helix V 3607	3~460 V, 60 Hz	PN 30	37.0	336.2	4192591
Helix V 3608/2	3~460 V, 60 Hz	PN 30	37.0	337.2	4192592
Helix V 5201/1	3~380/460 V, 60 Hz	PN 16	5.5	113.0	4192593
Helix V 5201	3~460 V, 60 Hz	PN 16	7.5	139.0	4192594
Helix V 5202/1	3~460 V, 60 Hz	PN 16	11.0	160.5	4192596
Helix V 5202/2	3~460 V, 60 Hz	PN 16	11.0	160.5	4192595
Helix V 5202	3~460 V, 60 Hz	PN 25	15.0	223.0	4192597
Helix V 5203/1	3~460 V, 60 Hz	PN 25	18.5	235.0	4192599
Helix V 5203/2	3~460 V, 60 Hz	PN 25	18.5	235.0	4192598
Helix V 5203	3~460 V, 60 Hz	PN 25	22.0	238.0	4192600
Helix V 5204/1	3~460 V, 60 Hz	PN 25	30.0	339.2	4192602
Helix V 5204/2	3~460 V, 60 Hz	PN 25	22.0	239.0	4192601
Helix V 5204	3~460 V, 60 Hz	PN 25	30.0	339.2	4192603
Helix V 5205/2	3~460 V, 60 Hz	PN 25	30.0	343.2	4192604
Helix V 5205	3~460 V, 60 Hz	PN 25	37.0	345.2	4192605
Helix V 5206/2	3~460 V, 60 Hz	PN 25	37.0	349.2	4192606