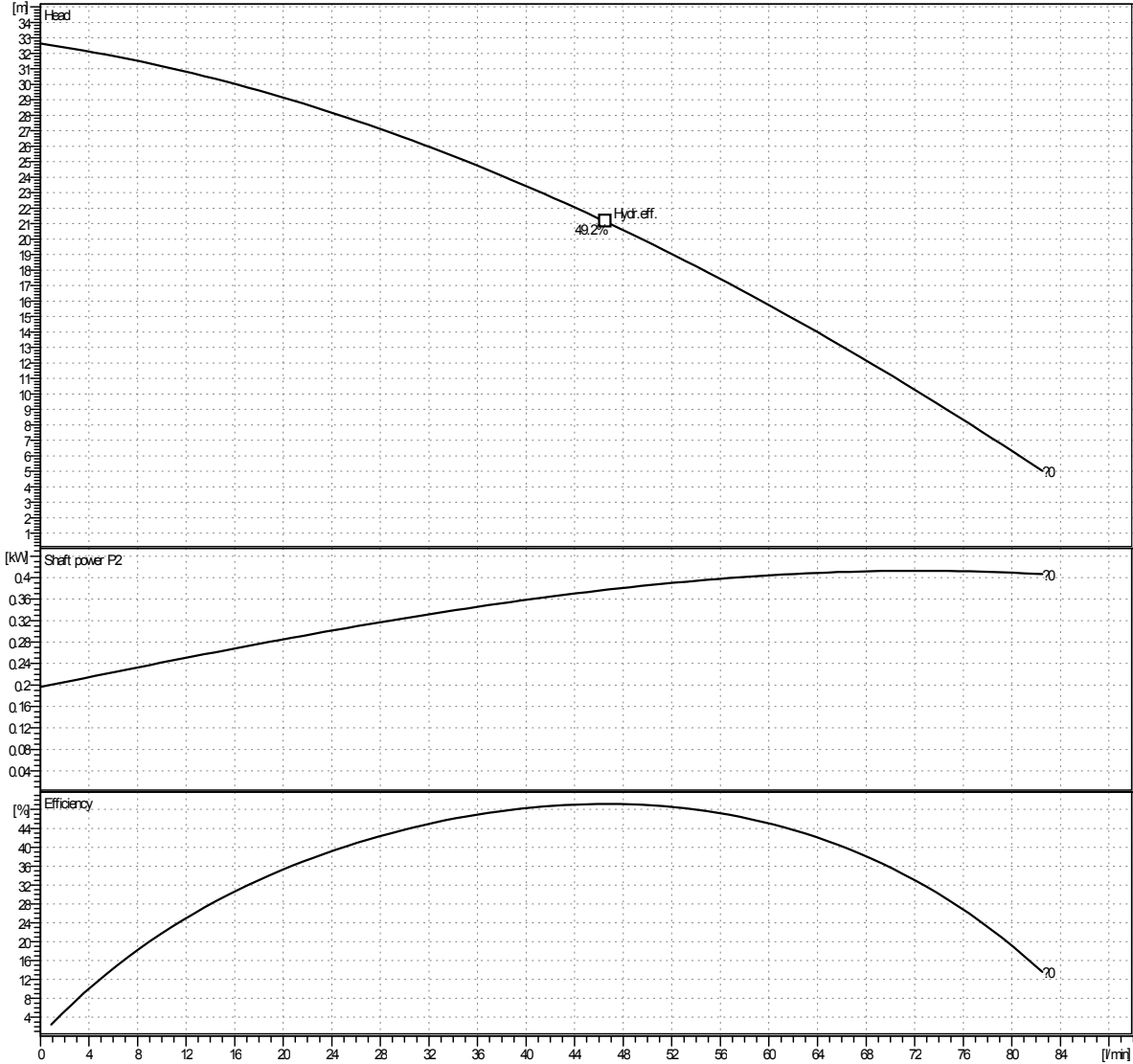


					Sheet No.		
					Customer		
					Item No.		
					Date	2015-12-14	
1	MODEL		Helix V203 / PN16		Title		
2	Location				Agent		
3	Service				Plant Name		
4	Quantity		Set(s)		Installation		☒ Indoor ☐ Outdoor
5	OPERATING CONDITION						
6	Liquid		Water		Flow		0 l/min
7	Pumping Temp.		Ambient		Suc. Pressure		
8	S.G.		1		Dis. Pressure		
9	Vap. Pressure		1kg/cm2A		Diff. Pressure		
10	Viscosity		1 cP		Total Head		0 m
11	PERFORMANCE AND CONSTRUCTION					MATERIAL	
12	Vertical		Efficiency		%		Part Name Symbol
13	No. of Stages		3		Rated Power		Casing STS304
14	Speed		3550 rpm		NPSHre		Impeller STS304L
15	Rotation		CW		(view from drive end)		Shaft STS304
16	Bore		Size(Dia)		Rating		Face Position Tube STS304
17	Suction		25 mm		PN 16		RF Side Diffuser STS304L
18	Discharge		25 mm		PN 16		RF Side Top Cover STS304
19	Impeller Type		Closed		Vertical Multi-Stage		HYDROSTATIC
20	Flow Direction		Radial		Casing		3 min
21	Shaft Seal		M/Seal		Shaft Sleeve		No Jacket 3 min
22	Mounting		Foot		TESTING		
23	Lubrication		☒ Grease		Items		Witness
24	Cooling		☒ No Cooling		Run Perform.		☒ Yes ☐ No ☐ Yes ☒ No
25	Radial Bearing		-		Thrust Bearing		- Hydrostatic(Air Press.) ☒ Yes ☐ No ☐ Yes ☒ No
26	MOTOR SPECIFICATION					SPARE PART	
27	Supplier		WILO		Phase / V / Hz		3~ 380V ~ 60 Hz Set(s)
28	Type		TEFC		Furnished by		☒ WILO ☐ Customer Set(s)
29	Power		0.55 kW		Mounted by		☒ WILO ☐ Customer Set(s)
30	No. of Pole		2 P		Enclosure		☒ IP 55 ☐ Set(s)
31	Insulation		☒ F ☐				Set(s)
32	ACCESSORY(☒ Supplied : WILO)					Set(s)	
33	☐ Common Base					Set(s)	
34	☐ Foundation Bolts & Nuts					Set(s)	
35	☒ Coupling		Half (Rigid & Split Type)		☒ Coupling Guard		Set(s)
36	☐ Pressure Guage					Set(s)	
37	☒ Plug for Drain & Air vent.					Set(s)	
38	☐ Seal Flushing					Set(s)	
39	M/Seal		Maker		Eagle-Burgmann		Model & Size MG12 Set(s)
40			Type		Unbalanced		Cooler ☐ Yes ☒ No Set(s)
41			API 610 Plan				WEIGHT
42			Material Code		SiC/Carbon,EPDM		Pump 29 kg
43	☐ Companion Flanges						
44	☐ Special Tool						
					Total wt.		29 kg

Estimated Performance Curve

Sheet No.	
Customer	
Item No.	
Date	2015-12-14

SPECIFICATION					
PUMP	CAPACITY	0 l/min	MOTOR	OUTPUT	0.55 kW
	TOTAL HEAD	0 m		VOLTAGE	380V
	SUCTION BORE	25 mm		FREQUENCY	60 Hz
	DISCHARGE BORE	25 mm		SPEED	3550 1/min
	LIQUID	WATER		TYPE	TEFC
	MAKER	WILO		SUPPLIER	WILO



A/B Efficiency	Capacity	Efficiency(%)
A Efficiency	46.558 l/min	49.2
B Efficiency		

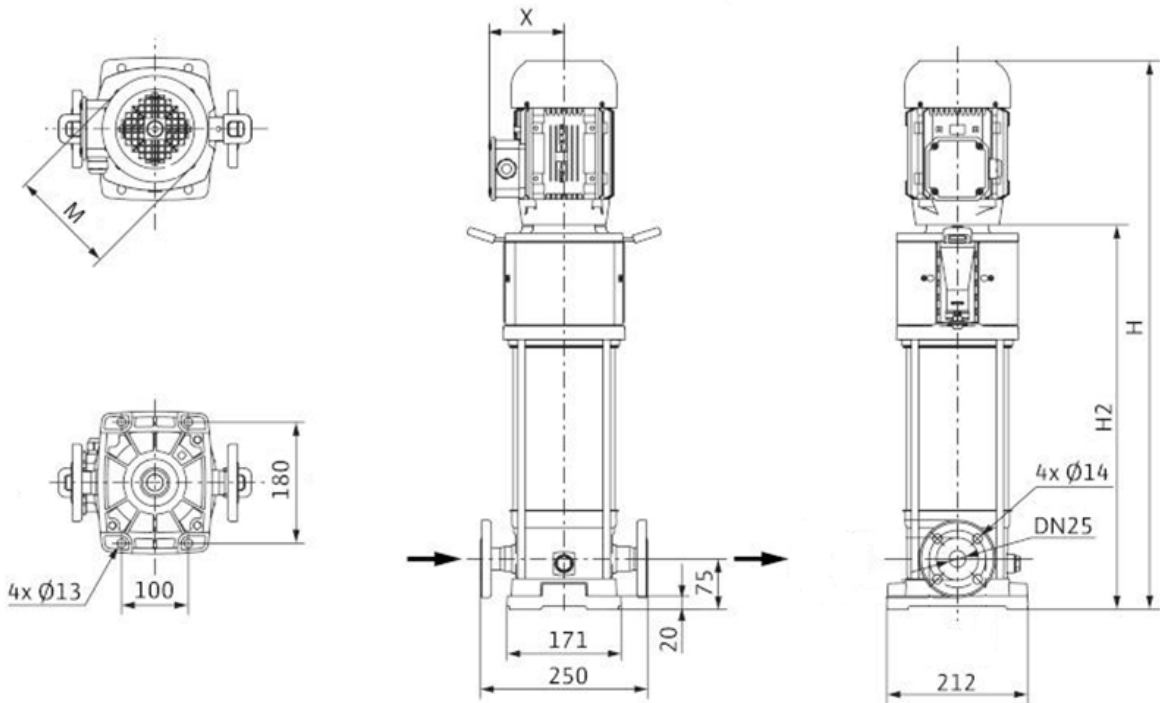
* Performance curve of some models is subject to have 10% deviation.
* Subject to change without prior notice.

TYPE	Vertical Multi-Stage
MODEL	Helix V203 / PN16
SERVICE	

Outline Drawing

Sheet No.	
Customer	
Item No.	
Date	2015-12-14

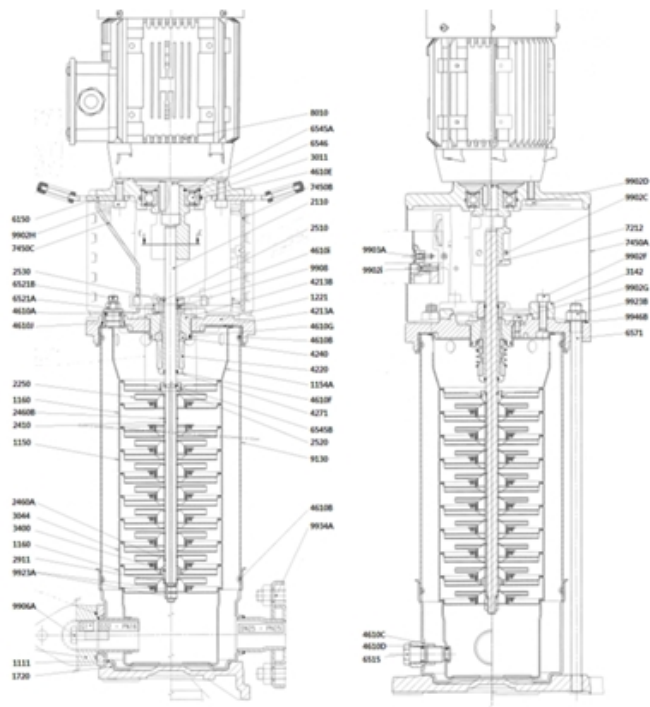
SPECIFICATION					
PUMP	CAPACITY	0 l/min	MOTOR	OUTPUT	0.55 kW
	TOTAL HEAD	0 m		VOLTAGE	380V
	SUCTION BORE	25 mm		FREQUENCY	60 Hz
	DISCHARGE BORE	25 mm		SPEED	3550 1/min
	LIQUID	WATER		TYPE	TEFC
	MAKER	WILO		SUPPLIER	WILO



H	618	H2	417	M	149	X	125
				TYPE		Vertical Multi-Stage	
				MODEL		Helix V203 / PN16	
				SERVICE			

Sectional Drawing

Sheet No.	
Customer	
Item No.	
Date	2015-12-14

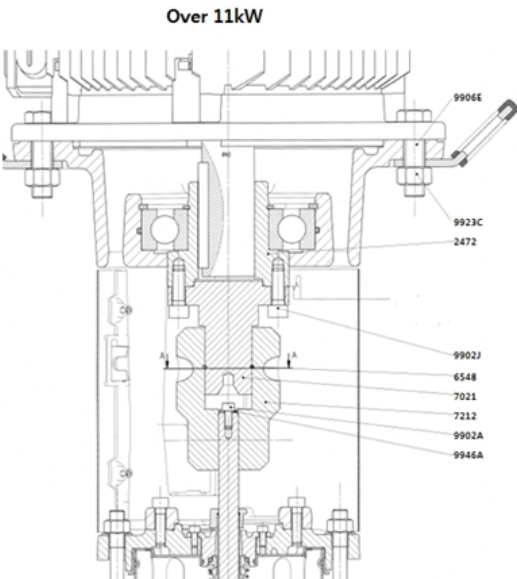
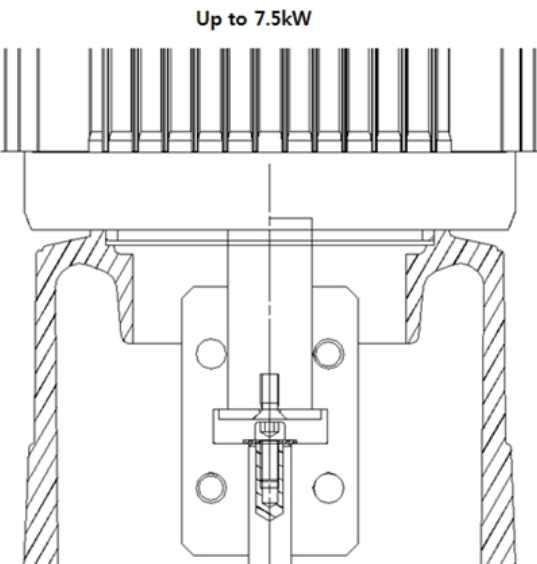


No.	Description	No.	Description	No.	Description
1111	Pump casing	8010	Motor	7450A	Sheet coupling protector
1150	Stage casing with return guide vane serial 4	9130	Tube	7450	Coupling guard support
1154A	Discharge chamber with return guide vane serial 4	9908	Screw	9902C	Screw for coupling
1160	Stage casing without return guide vane serial 4	2460A	Sleeve spacer	9902D	Screw fix. motor
1221	End shield	2460B	Flat washer	9902F	Screw fix. lantern/end shield
1720	Base	3400	Shaft sleeve	9902G	Screw
2110	Pump shaft	4213A	Assembled ring cover of mechanical seal	9902H	Srew fix. Platinize handling
2250	Impeller M=4	4213B	Mechanical seal ø18 ring holder	9902I	Plastic support screw
2410	Spacer	4220	Rotating part-mechanical seal	9906A	Screw
2510	Setting shim shaft	4240	Stationary part-mechanical seal	9923A	Shaft end nut
2520	Back-up ring(or Thrust ring)	4610A	O'ring for filling and venting plug	9923B	Nut for tie bolt
2530	Drive ring for mechanical seal	4610B	O'ring	9934A	Bolt
2911	Shaft end washer	4610C	O'ring drain and priming plug	9946B	Washer under 9923B nut
3011	Lantern ball bearing	4610D	O'ring drain and priming plug	No.	Description
3044	Bearing stage casing with return guide vane serial 4	4610E	O'ring for ball bearing	2472	Hub
3142	Lantern	4610F	O'ring	6548	Stop-rush
4271	Shaft sleeve	4610G	O'ring	7021	Spacer
6150	Platinize handling	4610I	O'ring	7212	Coupling
6515	Drain and priming plug	4610J	O'ring	9902J	Screw for spacer
6521	Filling and venting plug	4610K	O'ring	9906E	Screw fix. motor
6546	Circlip(lantern ball bearing)	6545A	Circlip shaft for ball bearing	9923C	Nut for fixing motor
6571	Tie bolt	6545B	Half keeper(thrust ring)		

TYPE	Vertical Multi-Stage
MODEL	Helix V203 / PN16
SERVICE	

Sectional Drawing

Sheet No.	
Customer	
Item No.	
Date	2015-12-14



No.	Description
9906E	Screw fix. Motor
9923C	Motor fastening nut
2472	Hub
9902J	Screw for spacer
6548	Stop-rush
7021	Spacer
7212	Coupling

TYPE	Vertical Multi-Stage
MODEL	Helix V203 / PN16
SERVICE	