

Stormwater management

Stormwater storage



Quadro®Lift

Pump shaft for stormwater retention systems

Pre-assembled, block-shaped system pump shaft for integration, with and without pump sump for a 80 cm x 80 cm modular block type structure; consisting of one shaft base body plus cone; material: polyethylene (PE); colour: black; with a project-specific, selected pump unit incl. accessories; extension pipe DO 600



Technical data

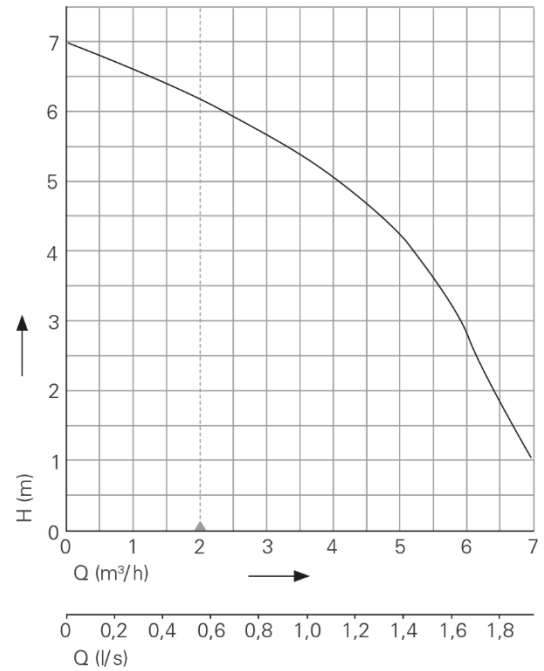
| | | | | | | | |
|--|--|-----------|---------|-----------|---------|--|---------|
| Application: | Multifunctional system shaft for Rigofill systems, can be integrated anywhere in the modular block type structure, suitable for pumping faecal-free water (e.g., stormwater, groundwater, infiltration and drainage water) from Rigofill storage systems | | | | | | |
| Material / raw material: | PE-HD (polyethylene) | | | | | | |
| Dimensions: Length x width [m] | 0.80 x 0.80 | | | | | | |
| Number of connected layers: | 1-layer | 1 ½-layer | 2-layer | 2 ½-layer | 3-layer | 3 ½-layer | 4-layer |
| Height without pump sump (without cone): [m] | 0.68 | 1.03 | 1.34 | 1.69 | 2.00 | 2.35 | 2.66 |
| Height with pump sump (without cone): [m] | 1.03 | 1.38 | 1.69 | 2.04 | 2.35 | 2.70 | 3.01 |
| Height of cone: [m] | 0.23 | | | | | | |
| Inside diameter of cone: [m] | 0.50 | | | | | | |
| Nominal diameter of extension pipe: | DN/ID 500 | | | | | | |
| Pipe connections at extension pipe: | Connection DN/OD 110 (execution electrics) Connection DN/OD 315 (execution 2" pressure line) | | | | | | |
| Accessories: | QuadroLift – product range overview see “Quadro®Lift – pump sump” product brochure | | | | |  www.fraenkische.com | |
| Miscellaneous: | Project shafts according to order form Installation according to “Quadro®Lift – pump sump” installation manual | | | | |  www.fraenkische.com | |

Technical data – pumps:

MULTIDRAIN UV 3



Example illustration



| Pumping head H: [m] | 1 | 2 | 3 | 4 | 5 | 6 |
|----------------------------|-----|-----|-----|-----|-----|-----|
| Pumping quantity Q: [m³/h] | | | | | | |
| UV 3 | 7.0 | 6.4 | 5.9 | 5.2 | 4.1 | 2.6 |

Mechanical data:

| | | | |
|--------------------------|---------------------------------|-----------------|--------------------------|
| Pump: | Vertical single-stage | Shaft | Stainless steel |
| Free flow | 10 mm | Impeller | Vortex impeller, GRP |
| Bearing | Ball bearing, grease-lubricated | Pressure outlet | iG 1 1/4" / hose cuff 2" |
| Motor-side sealing | Shaft sealing ring | Motor housing | Stainless steel |
| Medium-side sealing | 2-fold shaft sealing ring | Pump housing | GRP |
| Oil chamber | yes | Floodable | yes |
| Capable of dry operation | yes | | |

Electric data:

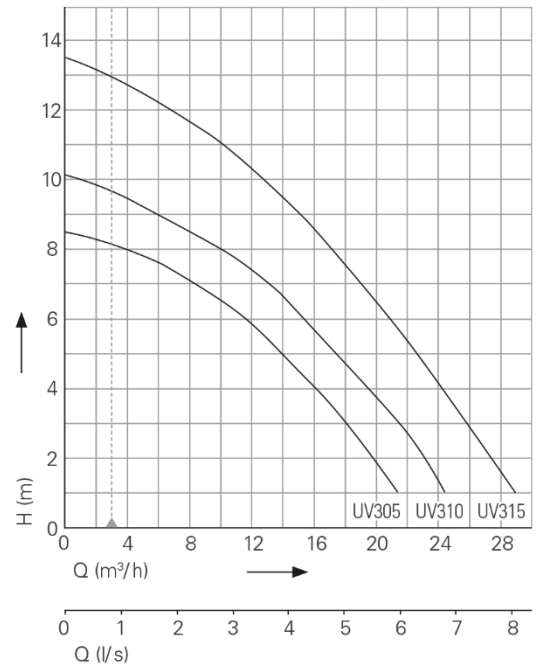
| | | | |
|----------------|--------------|---------------------------|------------|
| Pump voltage | 1/N/PE~230 V | Protection type | IP 68 |
| Motor power P1 | 0.34 kW | Insulation material class | F |
| Motor power P2 | 0.23 kW | Winding thermostat | yes |
| Current | 1.5 A | Motor protection | Integrated |

Technical data – pumps:

MULTIDRAIN UV 300



Example illustration



| Pumping head H: [m] | 1 | 3 | 5 | 7 | 9 | 11 | 13 |
|--------------------------------------|------|------|------|------|------|------|-----|
| Pumping quantity Q: [m³/h] | | | | | | | |
| UV 305-3 | 22.0 | 18.5 | 14.0 | 8.5 | | | |
| UV 310-3 | 24.5 | 21.5 | 17.5 | 13.5 | 6.0 | | |
| UV 315-3 | 29.0 | 25.5 | 23.0 | 19.0 | 15.0 | 10.0 | 3.0 |

Mechanical data:

| | | | |
|---------------------|---------------------------------|--------------------------|--------------------------|
| Pump: | Vertical single-stage | Shaft | Stainless steel |
| Free flow | 10 mm | Impeller | Stainless steel |
| Oil chamber | yes | Motor housing | Stainless steel |
| Bearing | Ball bearing, grease-lubricated | Pressure outlet | iG 1 1/2" / hose cuff 2" |
| Motor-side sealing | Mechanical seal | Capable of dry operation | yes |
| Medium-side sealing | SiC mechanical seal | Floodable | yes |

Electric data:

| | | | |
|---------------------------|-------|--------------------|------------|
| Protection type | IP 68 | Winding thermostat | yes |
| Insulation material class | F | Motor protection | Integrated |

MULTIDRAIN UV 300:

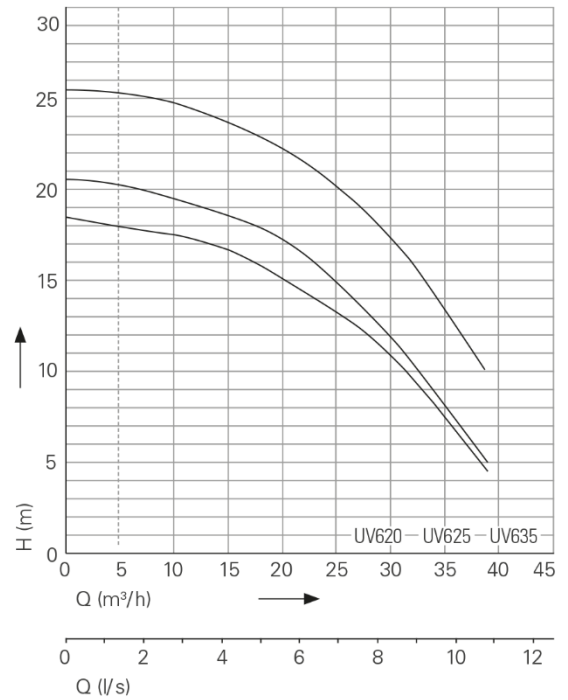
| Type | Voltage | Motor power | | Current | Cores | Plug | Weight |
|----------|------------|-------------|---------|---------|-------|---------|--------|
| | | P1 | P2 | | | | |
| UV 305-3 | 3/PE~400 V | 1.15 kW | 0.84 kW | 2.6 A | 4G1.0 | without | 18 kg |
| UV 310-3 | 3/PE~400 V | 1.35 kW | 1.08 kW | 3.0 A | 4G1.0 | without | 19 kg |
| UV 315-3 | 3/PE~400 V | 1.85 kW | 1.45 kW | 3.6 A | 4G1.0 | without | 19 kg |

Technical data – pumps:

MULTIDRAIN UV 600



Example illustration



| Pumping head H: [m] | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|--------------------------------------|----|----|----|----|----|----|----|----|----|----|
| Pumping quantity Q: [m³/h] | | | | | | | | | | |
| UV 620-3 | 37 | 34 | 32 | 28 | 24 | 18 | 5 | | | |
| UV 625-3 | 38 | 36 | 33 | 31 | 27 | 23 | 18 | 5 | | |
| UV 635-3 | | | 39 | 37 | 34 | 32 | 28 | 25 | 20 | 14 |

Mechanical data:

| | | | |
|-------------|---------------------------------|--------------------------|----------------------|
| Pump: | Vertical single-stage | Motor-side sealing | Mechanical seal |
| Free flow | 10 mm | Medium-side sealing | SiC mechanical seal |
| Bearing | Ball bearing, grease-lubricated | Pressure outlet | iG 2" / hose cuff 2" |
| Oil chamber | yes | Capable of dry operation | yes |
| | | Floodable | yes |

Mechanical data:

| | | | |
|---------------------------|-------|--------------------|-----|
| Protection type | IP 68 | Winding thermostat | yes |
| Insulation material class | F | | |

MULTIDRAIN UV 600:

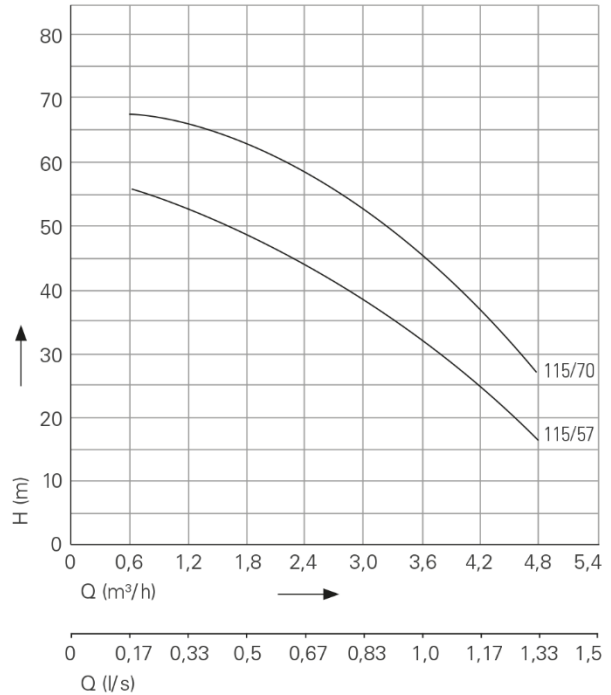
| Type | Voltage | Motor power | | Current | Cores | Plug | Weight |
|----------|------------|-------------|---------|---------|-------|---------|--------|
| | | P1 | P2 | | | | |
| UV 620-3 | 3/PE~400 V | 2.38 kW | 1.95 kW | 4.6 A | 4G1.0 | without | 23 kg |
| UV 625-3 | 3/PE~400 V | 2.80 kW | 2.28 kW | 5.2 A | 4G1.0 | without | 23 kg |
| UV 635-3 | 3/PE~400 V | 3.70 kW | 3.05 kW | 6.2 A | 4G1.0 | without | 26 kg |

Technical data – pumps:

DOMINATOR 4 PLUS



Example illustration



| Pumping quantity Q: [m³/h] | 0 | 1.2 | 2.4 | 3.6 | 4.8 |
|-------------------------------|------|------|------|------|------|
| Pumping head H: [m] | | | | | |
| 115/57 M | 57.0 | 52.0 | 44.4 | 31.5 | 16.6 |
| 115/70 M | 70.0 | 65.0 | 59.0 | 45.4 | 27.0 |

Mechanical data:

| | | | |
|-------------|-------------------------------|---------------|---|
| Bearing | Self-lubricating ball bearing | Check valve | Thermoplastic with an integrated NBR O-ring |
| Oil chamber | yes | Floodable | yes |
| Shaft | Stainless steel | Motor housing | Stainless steel |
| Impeller | Acetal resin | Pump housing | Stainless steel |

Electric data:

| | | | |
|-----------------|--------------|---------------------------|--------------------|
| Voltage | 1/N/PE~230 V | Insulation material class | F |
| Mains line | 10 m H07RN-F | Motor cooling | by the pump medium |
| Protection type | IP 68 | | |

DOMINATOR 4 PLUS:

| Type | Motor power | | Current | Weight |
|----------|-------------|---------|---------|---------|
| | P1 | P2 | | |
| 115/57 M | 1.10 kW | 0.80 kW | 5.0 A | 10.8 kg |
| 115/70 M | 1.30 kW | 0.80 kW | 6.0 A | 12.5 kg |