

## Series description: Wilo-Multivert MVI

Multivert MVI 4

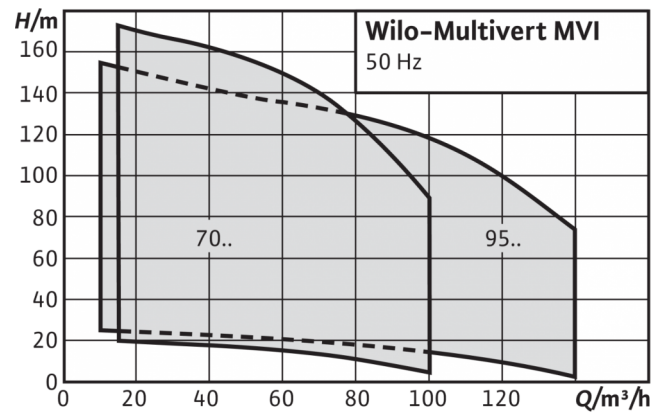


Similar to figure

### Design type

Non-self-priming, multistage high-pressure centrifugal pump in vertical design with in-line connections.

Multivert MVI



### Special features/product advantages

- Corrosion-resistant impellers, diffusors and stage housings
- Drinking water approval for all components that come in contact with the fluid (EPDM version)

## Series description: Wilo-Multivert MVI

### Application

- Water supply and pressure boosting
- Fire extinguishing systems
- Boiler feed
- Industrial circulation systems
- Process engineering
- Cooling water circulation systems
- Washing and sprinkling systems

### Equipment/function

- Stainless steel pump in inline design (only MVI 1.. to 8..)
- MVI 1.. to 8..: PN16 version with oval flange; PN25 version with round flange
- MVI 70.. and 95..: PN16 and PN25 version with round flange

### Scope of delivery

- MVI high-pressure multistage centrifugal pump
- MVI 1.. – 8..: Oval counter flanges with corresponding screws and O-rings (PN16 variant)
- Installation and operating instructions

### Type key

Example:	<b>MVI 7002/1-3/16/E/3-400-50-2</b>
<b>MVI</b>	Vertical high-pressure multistage centrifugal pump
<b>70</b>	Flow rate in m <sup>3</sup> /h
<b>02</b>	Number of impellers
<b>1</b>	Number of trimmed impellers
<b>3</b>	Material 1 = 1.4301 (AISI 304); [only MVI 8.. and smaller] 2 = 1.4404 (AISI 316L) 3 = pump housing EN-GJL-250 (cataphoretic coating), hydraulics 1.4301 (AISI 304); [only MVI 70.. and 95..]
<b>16</b>	Flange type 16 = flange PN16 (round or oval) 25 = flange PN25 (round or oval) P = Victaulic coupling [only MVI 8.. and smaller]
<b>E</b>	Gasket type E = EPDM V = FKM (Viton)
<b>3</b>	1 = 1~ (alternating current); [only MVI 8.. and smaller] 3 = 3~ (three-phase current)
<b>400</b>	Connection voltage in V
<b>50</b>	Frequency in Hz
<b>2</b>	Number of poles

### Technical data

- Electrical connection:
  - 1~230 V (±10 %), 50 Hz only MVI 1.. – 8..
  - 3~400 V (±10 %), 50 Hz
  - ≤ 4 kW 230 V/ 400 V; Δ/Y
  - > 4 kW 400 V/ 690 V; Δ/Y
- Fluid temperature of -15 to +120 °C (with EPDM), (-15 to +90 °C with FKM)
- Operating pressure max. 16/25 bar
- Max. inlet pressure of 10 bar
- Protection class IP 55
- Flange connections:
  - MVI 1.. – 8.., PN 16; oval flange (G1 – G2)
  - MVI 1.. – 8.., PN 25: Round flange (DN25 – DN40)
- MVI 1.. – 8.., PN 25: with optional Victaulic connections
- MVI 70../95.. PN 16/PN 25: Round flange (DN 100)

### Materials

#### MVI 1.. to 8..:

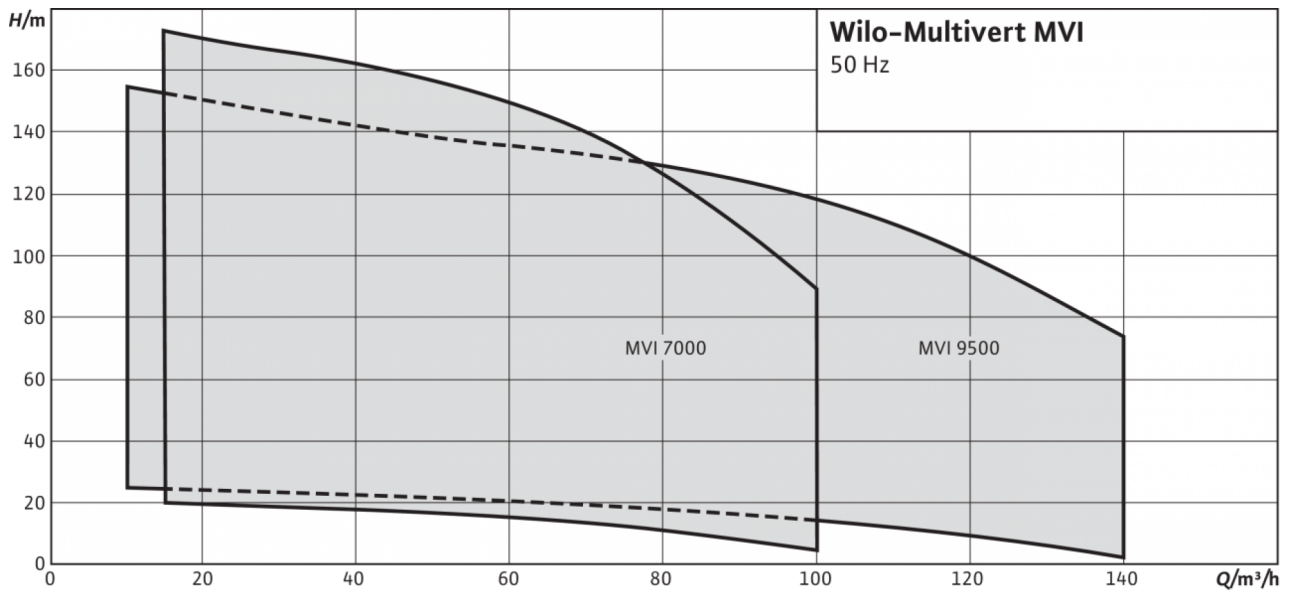
- Impellers and stage chambers of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Pump housing of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Shaft, depending on type, of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Gasket of EPDM/FKM (Viton)
- Housing cover of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Housing bottom of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Mechanical seal of B-carbon/tungsten carbide, SiC/carbon
- Jacket pipe of stainless steel 1.4301 (AISI 304) (1.4404 (AISI 316) for aggressive media)
- Bearing of tungsten carbide
- Baseplate EN-GJL-250

#### MVI 70../95..:

- Impellers of stainless steel 1.4408 (AISI 316)
- Stage chambers made of 1.4301 (AISI 304) stainless steel
- Pump housing made of cataphoretic-coated grey cast iron EN-GJL 250
- Shaft 1.4057 (AISI 431) stainless steel
- Gasket EPDM
- Housing cover made of 1.4301 (AISI 304) stainless steel
- Housing bottom made of 1.4301 (AISI 304) stainless steel
- Mechanical seal of B-carbon/tungsten carbide, SiC/carbon
- Pressure shroud made of 1.4301 (AISI 304) stainless steel
- Bearing of tungsten carbide

## Duty chart: Wilo-Multivert MVI

Multivert MVI 1 - 95



Pump curves in accordance with ISO 9906: 2012 3B

## Product list: Wilo-Multivert MVI

Product description	Rated power $P_2$	Pipe connection	Gross weight, approx. $m$	Article number
Multivert MVI 9505 (3~400V, EPDM, PN 25)	45.00 kW	DN 100	430.0 kg	4082574
Multivert MVI 9505/1 (3~400V, EPDM, PN 25)	45.00 kW	DN 100	430.0 kg	4082573
Multivert MVI 9505/2 (3~400V, EPDM, PN 25)	45.00 kW	DN 100	430.0 kg	4082572
Multivert MVI 9504 (3~400V, EPDM, PN 25)	37.00 kW	DN 100	347.0 kg	4082571
Multivert MVI 9504/1 (3~400V, EPDM, PN 25)	37.00 kW	DN 100	347.0 kg	4082570
Multivert MVI 9504/2 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	347.0 kg	4082569
Multivert MVI 9503 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	331.0 kg	4082568
Multivert MVI 9503/1 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	331.0 kg	4082567
Multivert MVI 9503/2 (3~400V, EPDM, PN 25)	22.00 kW	DN 100	250.0 kg	4082566
Multivert MVI 9502 (3~400V, EPDM, PN 25)	18.50 kW	DN 100	245.0 kg	4082565
Multivert MVI 9502/1 (3~400V, EPDM, PN 25)	15.00 kW	DN 100	217.0 kg	4082564
Multivert MVI 9502/2 (3~400V, EPDM, PN 25)	15.00 kW	DN 100	217.0 kg	4082563
Multivert MVI 9501 (3~400V, EPDM, PN 25)	9.00 kW	DN 100	145.0 kg	4082561
Multivert MVI 9501/1 (3~400V, EPDM, PN 25)	7.50 kW	DN 100	130.0 kg	4082560
Multivert MVI 9504 (3~400V, EPDM, PN 16)	37.00 kW	DN 100	347.0 kg	4082544
Multivert MVI 9504/1 (3~400V, EPDM, PN 16)	37.00 kW	DN 100	347.0 kg	4082543
Multivert MVI 9504/2 (3~400V, EPDM, PN 16)	30.00 kW	DN 100	347.0 kg	4082542
Multivert MVI 9503 (3~400V, EPDM, PN 16)	30.00 kW	DN 100	331.0 kg	4082541
Multivert MVI 9503/1 (3~400V, EPDM, PN 16)	30.00 kW	DN 100	331.0 kg	4082540
Multivert MVI 9503/2 (3~400V, EPDM, PN 16)	22.00 kW	DN 100	250.0 kg	4082539
Multivert MVI 9502 (3~400V, EPDM, PN 16)	18.50 kW	DN 100	245.0 kg	4082538
Multivert MVI 9502/1 (3~400V, EPDM, PN 16)	15.00 kW	DN 100	217.0 kg	4082537
Multivert MVI 9502/2 (3~400V, EPDM, PN 16)	15.00 kW	DN 100	217.0 kg	4082536

## Product list: Wilo-Multivert MVI

Product description	Rated power $P_2$	Pipe connection	Gross weight, approx. $m$	Article number
Multivert MVI 9501 (3~400V, EPDM, PN 16)	9.00 kW	DN 100	145.0 kg	4082534
Multivert MVI 9501/1 (3~400V, EPDM, PN 16)	7.50 kW	DN 100	130.0 kg	4082533
Multivert MVI 7007/1 (3~400V, EPDM, PN 25)	37.00 kW	DN 100	355.0 kg	4071200
Multivert MVI 7007/2 (3~400V, EPDM, PN 25)	37.00 kW	DN 100	355.0 kg	4071199
Multivert MVI 7006 (3~400V, EPDM, PN 25)	37.00 kW	DN 100	350.0 kg	4071198
Multivert MVI 7006/1 (3~400V, EPDM, PN 25)	37.00 kW	DN 100	350.0 kg	4071197
Multivert MVI 7006/2 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	350.0 kg	4071196
Multivert MVI 7005 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	346.0 kg	4071195
Multivert MVI 7005/1 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	346.0 kg	4071194
Multivert MVI 7005/2 (3~400V, EPDM, PN 25)	30.00 kW	DN 100	346.0 kg	4071193
Multivert MVI 7004 (3~400V, EPDM, PN 25)	22.00 kW	DN 100	252.0 kg	4071192
Multivert MVI 7004/1 (3~400V, EPDM, PN 25)	22.00 kW	DN 100	252.0 kg	4071191
Multivert MVI 7004/2 (3~400V, EPDM, PN 25)	18.50 kW	DN 100	251.0 kg	4071190
Multivert MVI 7003 (3~400V, EPDM, PN 25)	18.50 kW	DN 100	246.0 kg	4071189
Multivert MVI 7003/1 (3~400V, EPDM, PN 25)	15.00 kW	DN 100	218.0 kg	4071188
Multivert MVI 7003/2 (3~400V, EPDM, PN 25)	15.00 kW	DN 100	218.0 kg	4071187
Multivert MVI 7002 (3~400V, EPDM, PN 25)	11.00 kW	DN 100	151.0 kg	4071185
Multivert MVI 7002/1 (3~400V, EPDM, PN 25)	9.00 kW	DN 100	149.0 kg	4071183
Multivert MVI 7002/2 (3~400V, EPDM, PN 25)	7.50 kW	DN 100	134.0 kg	4071182
Multivert MVI 7001 (3~400V, EPDM, PN 25)	5.50 kW	DN 100	112.0 kg	4071180
Multivert MVI 7001/1 (3~400V, EPDM, PN 25)	4.00 kW	DN 100	107.0 kg	4071179
Multivert MVI 7005 (3~400V, EPDM, PN 16)	30.00 kW	DN 100	346.0 kg	4071178
Multivert MVI 7005/1 (3~400V, EPDM, PN 16)	30.00 kW	DN 100	346.0 kg	4071177

## Product list: Wilo-Multivert MVI

Product description	Rated power $P_2$	Pipe connection	Gross weight, approx. $m$	Article number
Multivert MVI 7005/2 (3~400V, EPDM, PN 16)	30.00 kW	DN 100	346.0 kg	4071176
Multivert MVI 7004 (3~400V, EPDM, PN 16)	22.00 kW	DN 100	252.0 kg	4071175
Multivert MVI 7004/1 (3~400V, EPDM, PN 16)	22.00 kW	DN 100	252.0 kg	4071174
Multivert MVI 7004/2 (3~400V, EPDM, PN 16)	18.50 kW	DN 100	251.0 kg	4071173
Multivert MVI 7003 (3~400V, EPDM, PN 16)	18.50 kW	DN 100	246.0 kg	4071172
Multivert MVI 7003/1 (3~400V, EPDM, PN 16)	15.00 kW	DN 100	218.0 kg	4071171
Multivert MVI 7003/2 (3~400V, EPDM, PN 16)	15.00 kW	DN 100	218.0 kg	4071170
Multivert MVI 7002 (3~400V, EPDM, PN 16)	11.00 kW	DN 100	151.0 kg	4071168
Multivert MVI 7002/1 (3~400V, EPDM, PN 16)	9.00 kW	DN 100	149.0 kg	4071166
Multivert MVI 7002/2 (3~400V, EPDM, PN 16)	7.50 kW	DN 100	134.0 kg	4071165
Multivert MVI 7001 (3~400V, EPDM, PN 16)	5.50 kW	DN 100	112.0 kg	4071163
Multivert MVI 7001/1 (3~400V, EPDM, PN 16)	4.00 kW	DN 100	107.0 kg	4071162
Multivert MVI 804 (1~230 V, EPDM, PN 16)	1.50 kW	G 1½	42.1 kg	4018792
Multivert MVI 803 (1~230 V, EPDM, PN 16)	1.10 kW	G 1½	33.1 kg	4018791
Multivert MVI 802 (1~230 V, EPDM, PN 16)	0.75 kW	G 1½	28.1 kg	4018790
Multivert MVI 802 (1~230 V, EPDM, PN 25)	0.75 kW	DN 40	28.5 kg	4018805
Multivert MVI 804 (1~230 V, EPDM, PN 25)	1.50 kW	DN 40	42.4 kg	4018807
Multivert MVI 803 (1~230 V, EPDM, PN 25)	1.10 kW	DN 40	33.4 kg	4018806
Multivert MVI 804 (1~230 V, FKM, PN 25)	1.50 kW	DN 40	42.4 kg	4019111
Multivert MVI 803 (1~230 V, FKM, PN 25)	1.10 kW	DN 40	33.4 kg	4019110
Multivert MVI 802 (1~230 V, FKM, PN 25)	0.75 kW	DN 40	28.5 kg	4019109
Multivert MVI 407 (1~230V, EPDM, PN 16)	1.50 kW	G 1¼	41.0 kg	4018783
Multivert MVI 406 (1~230V, EPDM, PN 16)	1.50 kW	G 1¼	40.3 kg	4018782

## Product list: Wilo-Multivert MVI

Product description	Rated power $P_2$	Pipe connection	Gross weight, approx. $m$	Article number
Multivert MVI 405 (1~230V, EPDM, PN 16)	1.10 kW	G 1¼	29.0 kg	4018781
Multivert MVI 404 (1~230V, EPDM, PN 16)	1.10 kW	G 1¼	28.4 kg	4018780
Multivert MVI 403 (1~230V, EPDM, PN 16)	0.75 kW	G 1¼	26.0 kg	4018779
Multivert MVI 402 (1~230V, EPDM, PN 16)	0.55 kW	G 1¼	23.8 kg	4018778
Multivert MVI 407 (1~230V, FKM, PN 25)	1.50 kW	DN 32	42.3 kg	4019108
Multivert MVI 405 (1~230V, FKM, PN 25)	1.10 kW	DN 32	32.8 kg	4019106
Multivert MVI 403 (1~230V, FKM, PN 25)	0.75 kW	DN 32	27.3 kg	4019104
Multivert MVI 407 (1~230 V, EPDM, PN 25)	1.50 kW	DN 32	42.3 kg	4018789
Multivert MVI 406 (1~230 V, EPDM, PN 25)	1.50 kW	DN 32	41.6 kg	4018788
Multivert MVI 405 (1~230 V, EPDM, PN 25)	1.10 kW	DN 32	30.3 kg	4018787
Multivert MVI 404 (1~230 V, EPDM, PN 25)	1.10 kW	DN 32	29.7 kg	4018786
Multivert MVI 403 (1~230 V, EPDM, PN 25)	0.75 kW	DN 32	27.3 kg	4018785
Multivert MVI 402 (1~230 V, EPDM, PN 25)	0.55 kW	DN 32	25.1 kg	4018784
Multivert MVI 210 (1~230 V, EPDM, PN 16)	1.50 kW	G 1½	42.7 kg	4018769
Multivert MVI 208 (1~230 V, EPDM, PN 16)	1.50 kW	G 1½	41.5 kg	4018768
Multivert MVI 207 (1~230 V, EPDM, PN 16)	1.10 kW	G 1½	34.2 kg	4018766
Multivert MVI 206 (1~230 V, EPDM, PN 16)	1.10 kW	G 1½	32.0 kg	4018765
Multivert MVI 205 (1~230 V, EPDM, PN 16)	0.75 kW	G 1½	27.2 kg	4018763
Multivert MVI 204 (1~230 V, EPDM, PN 16)	0.75 kW	G 1½	26.6 kg	4018761
Multivert MVI 203 (1~230 V, EPDM, PN 16)	0.55 kW	G 1½	23.8 kg	4018760
Multivert MVI 202 (1~230 V, EPDM, PN 16)	0.37 kW	G 1½	23.0 kg	4018746
Multivert MVI 210 (1~230 V, EPDM, PN 25)	1.50 kW	DN 25	44.1 kg	4018777
Multivert MVI 208 (1~230 V, EPDM, PN 25)	1.50 kW	DN 25	42.8 kg	4018776

## Product list: Wilo-Multivert MVI

Product description	Rated power $P_2$	Pipe connection	Gross weight, approx. $m$	Article number
Multivert MVI 207 (1~230 V, EPDM, PN 25)	1.10 kW	DN 25	35.5 kg	4018775
Multivert MVI 206 (1~230 V, EPDM, PN 25)	1.10 kW	DN 25	33.4 kg	4018774
Multivert MVI 205 (1~230 V, EPDM, PN 25)	0.75 kW	DN 25	31.0 kg	4018773
Multivert MVI 204 (1~230 V, EPDM, PN 25)	0.75 kW	DN 25	27.9 kg	4018772
Multivert MVI 203 (1~230 V, EPDM, PN 25)	0.55 kW	DN 25	25.1 kg	4018771
Multivert MVI 202 (1~230 V, EPDM, PN 25)	0.37 kW	DN 25	24.3 kg	4018770
Multivert MVI 210 (1~230V, FKM, PN 25)	1.50 kW	DN 25	44.1 kg	4019102
Multivert MVI 207 (1~230V, FKM, PN 25)	1.10 kW	DN 25	35.5 kg	4019100
Multivert MVI 205 (1~230V, FKM, PN 25)	0.75 kW	DN 25	31.0 kg	4019098
Multivert MVI 203 (1~230V, FKM, PN 25)	0.55 kW	DN 25	25.1 kg	4019096
Multivert MVI 114 (1~230 V, EPDM, PN 16)	1.50 kW	G 1½	46.8 kg	4070519
Multivert MVI 112 (1~230 V, EPDM, PN 16)	1.10 kW	G 1½	36.7 kg	4070518
Multivert MVI 110 (1~230 V, EPDM, PN 16)	1.10 kW	G 1½	32.9 kg	4070517
Multivert MVI 109 (1~230 V, EPDM, PN 16)	1.10 kW	G 1½	32.2 kg	4070516
Multivert MVI 108 (1~230 V, EPDM, PN 16)	0.75 kW	G 1½	30.3 kg	4070515
Multivert MVI 107 (1~230 V, EPDM, PN 16)	0.75 kW	G 1½	29.1 kg	4070514
Multivert MVI 106 (1~230 V, EPDM, PN 16)	0.75 kW	G 1½	28.4 kg	4070513
Multivert MVI 105 (1~230 V, EPDM, PN 16)	0.55 kW	G 1½	26.3 kg	4070512
Multivert MVI 104 (1~230 V, EPDM, PN 16)	0.55 kW	G 1½	25.1 kg	4070511
Multivert MVI 103 (1~230 V, EPDM, PN 16)	0.37 kW	G 1½	24.1 kg	4070510
Multivert MVI 102 (1~230 V, EPDM, PN 16)	0.37 kW	G 1½	23.9 kg	4070509
Multivert MVI 114 (1~230 V, FKM, PN 25)	1.50 kW	DN 25	47.9 kg	4070545
Multivert MVI 112 (1~230 V, FKM, PN 25)	1.10 kW	DN 25	37.8 kg	4070544



## Product list: Wilo-Multivert MVI

Product description	Rated power $P_2$	Pipe connection	Gross weight, approx. $m$	Article number
Multivert MVI 110 (1~230 V, FKM, 1.10 kW PN 25)		DN 25	36.5 kg	4070543
Multivert MVI 109 (1~230 V, FKM, 1.10 kW PN 25)		DN 25	35.8 kg	4070542
Multivert MVI 108 (1~230 V, FKM, 0.75 kW PN 25)		DN 25	31.4 kg	4070541
Multivert MVI 107 (1~230 V, FKM, 0.75 kW PN 25)		DN 25	30.2 kg	4070540
Multivert MVI 106 (1~230 V, FKM, 0.75 kW PN 25)		DN 25	29.5 kg	4070539
Multivert MVI 105 (1~230 V, FKM, 0.55 kW PN 25)		DN 25	27.4 kg	4070538
Multivert MVI 104 (1~230 V, FKM, 0.55 kW PN 25)		DN 25	26.2 kg	4070537
Multivert MVI 103 (1~230 V, FKM, 0.37 kW PN 25)		DN 25	25.2 kg	4070536
Multivert MVI 102 (1~230 V, FKM, 0.37 kW PN 25)		DN 25	25.0 kg	4070535
Multivert MVI 114 (1~230 V, 1.50 kW EPDM, PN 25)		DN 25	47.9 kg	4070530
Multivert MVI 112 (1~230 V, 1.10 kW EPDM, PN 25)		DN 25	37.8 kg	4070529
Multivert MVI 110 (1~230 V, 1.10 kW EPDM, PN 25)		DN 25	36.5 kg	4070528
Multivert MVI 109 (1~230 V, 1.10 kW EPDM, PN 25)		DN 25	35.8 kg	4070527
Multivert MVI 108 (1~230 V, 0.75 kW EPDM, PN 25)		DN 25	31.4 kg	4070526
Multivert MVI 107 (1~230 V, 0.75 kW EPDM, PN 25)		DN 25	30.2 kg	4070525
Multivert MVI 106 (1~230 V, 0.75 kW EPDM, PN 25)		DN 25	29.5 kg	4070524
Multivert MVI 105 (1~230 V, 0.55 kW EPDM, PN 25)		DN 25	27.4 kg	4070523
Multivert MVI 104 (1~230 V, 0.55 kW EPDM, PN 25)		DN 25	26.2 kg	4070522
Multivert MVI 103 (1~230 V, 0.37 kW EPDM, PN 25)		DN 25	25.2 kg	4070521
Multivert MVI 102 (1~230 V, 0.37 kW EPDM, PN 25)		DN 25	25.0 kg	4070520