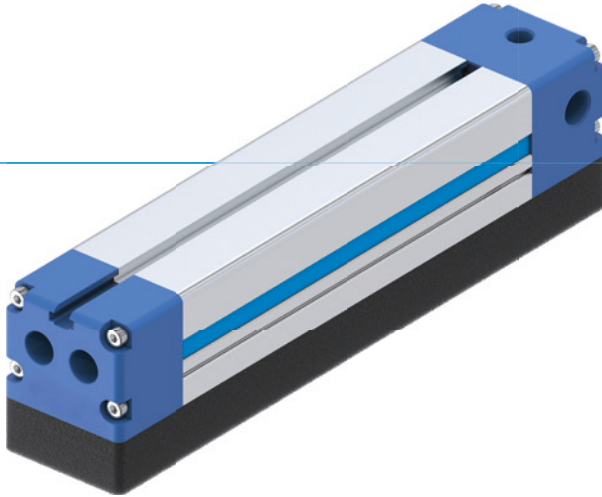


VACUUM GRIPPING SYSTEM

SERIES ZGM

► PRODUCT ADVANTAGES



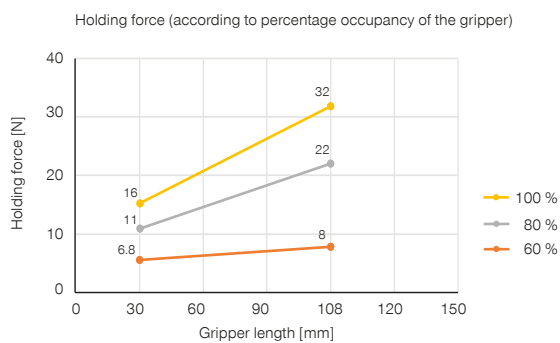
- **Dimensions: 16x60 mm–50x600 mm**
- **High-performance**
 - Volume flow: 41 l/min - 724 l/min
 - Air consumption: 32 l/min - 208 l/min
 - Max. vacuum level: -92 kPa
- **Compatible with EPDM foam and Magic Cups**
- **Vacuum gripping system can be expanded modularly**

► PRODUCT KEY

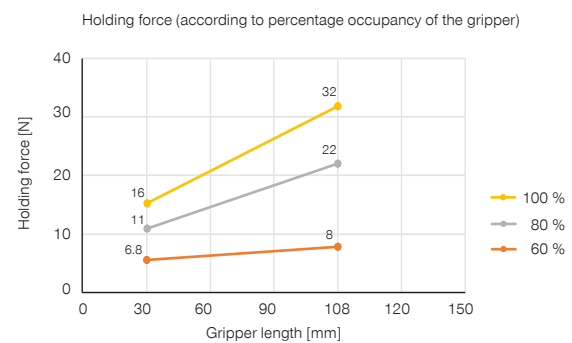
ZGM	40X150	21	FS2	A
Series	Dimensions	Levels and number of vacuum cartridges	Valve technology and hole pattern	Air and blow-off control valve, sensor

► DIAGRAMS

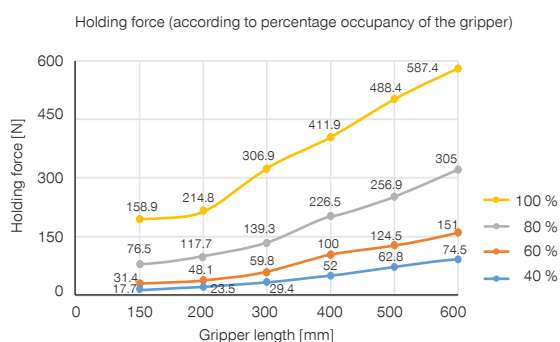
ZGM16 round



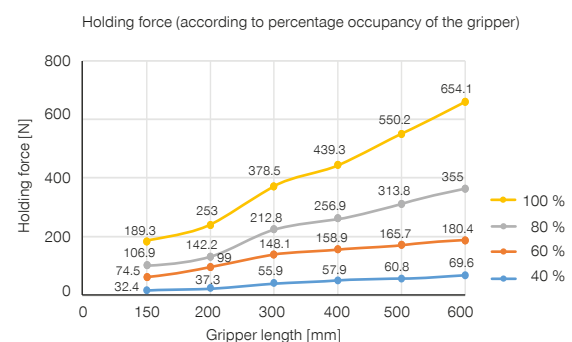
ZGM20 round



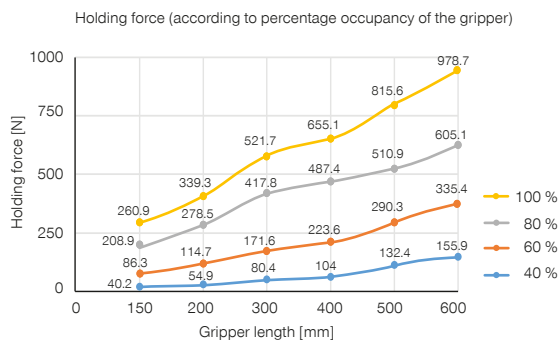
ZGM40 round



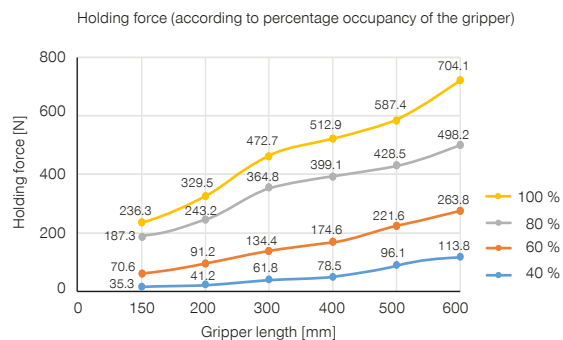
ZGM40 oval



ZGB50 round

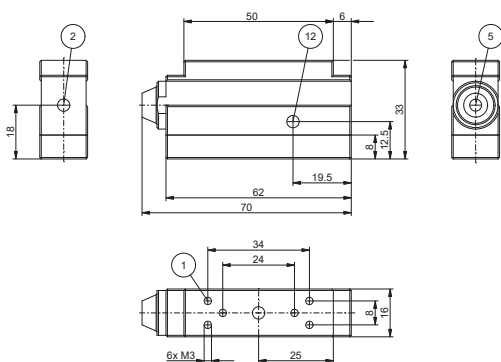


ZGM50 oval



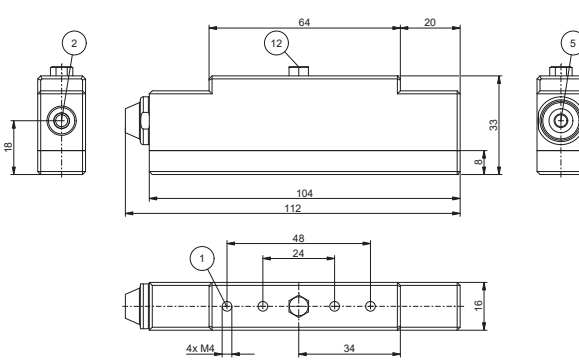
TECHNICAL DRAWINGS

ZGM16X60



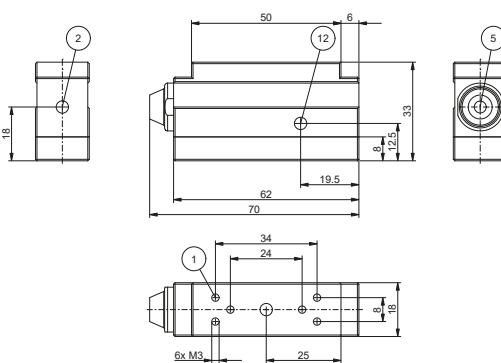
- ② Pneumatic connection ⑫ Vacuum switch connection
⑤ Exhaust air/exhaust air valve

ZGM16X108



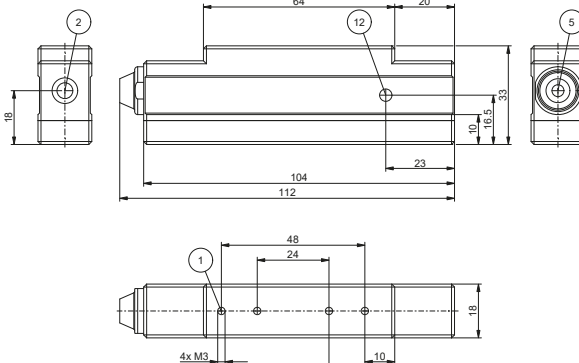
- ② Pneumatic connection ⑫ Vacuum switch connection
⑤ Exhaust air/exhaust air valve

ZGM20X60



- ② Pneumatic connection ⑫ Vacuum switch connection
⑤ Exhaust air/exhaust air valve

ZGM20X108

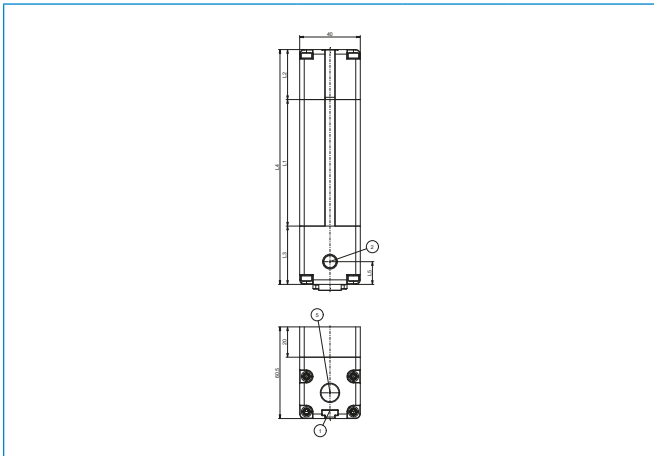


- ② Pneumatic connection ⑫ Vacuum switch connection
⑤ Exhaust air/exhaust air valve

VACUUM GRIPPING SYSTEM

SERIES ZGM

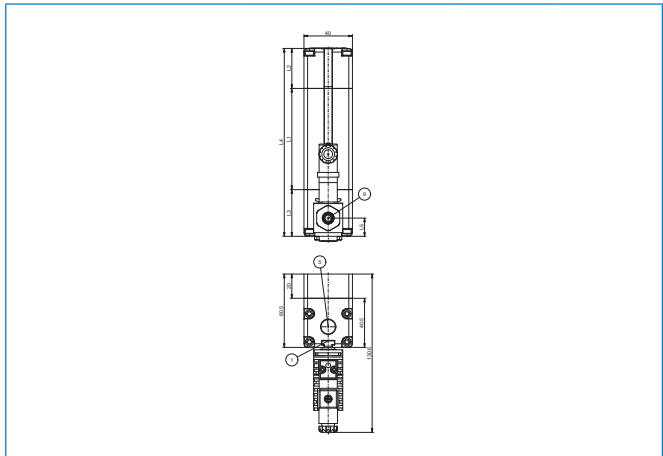
ZGM40



- ① Fixing
- ② Pneumatic connection

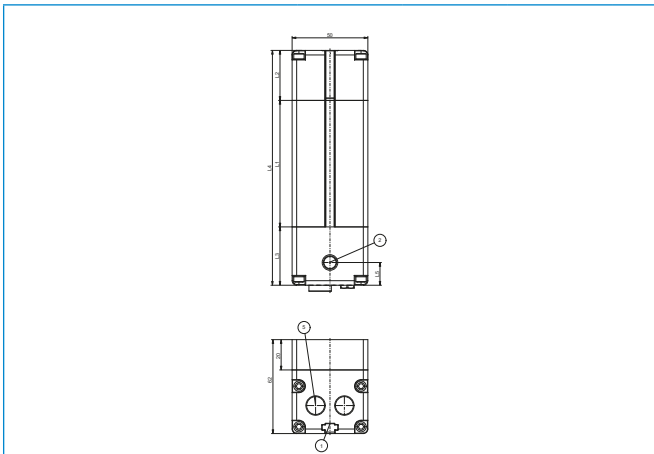
Model	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
ZGM40X150	83.5	33	38.5	155	15
ZGM40X200	133.5	33	38.5	205	15
ZGM40X300	233.5	33	38.5	305	15
ZGM40X400	333.5	33	38.5	405	15
ZGM40X500	433.5	33	38.5	505	15
ZGM40X600	533.5	33	38.5	605	15

ZGM40 with accessories



- ⑤ Exhaust air/exhaust air valve
- ⑨ Air control valve

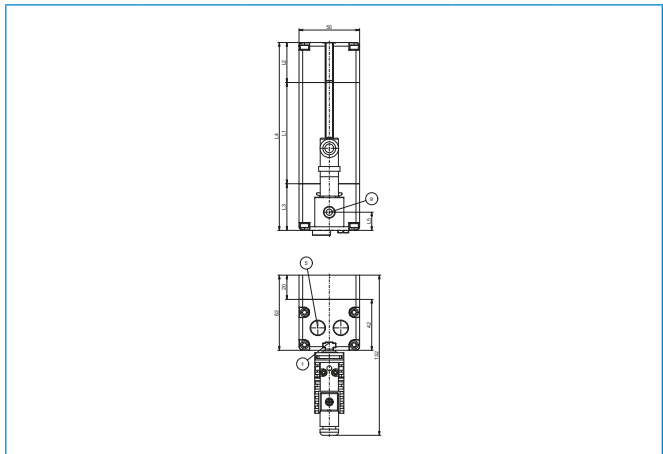
ZGM50



- ① Fixing
- ② Pneumatic connection

Model	L1 [mm]	L2 [mm]	L3 [mm]	L4 [mm]	L5 [mm]
ZGM50X150	83.5	33	38.5	155	15
ZGM50X200	133.5	33	38.5	205	15
ZGM50X300	233.5	33	38.5	305	15
ZGM50X400	333.5	33	38.5	405	15
ZGM50X500	433.5	33	38.5	505	15
ZGM50X600	533.5	33	38.5	605	15

ZGM50 with accessories



- ⑤ Exhaust air/exhaust air valve
- ⑨ Air control valve

► TECHNICAL DATA

Order no.	► Technical data							
	Max. vacuum level [kPa]	Volume flow [l/min]	Air consumption at 4 bar [l/min]	Air consumption at 6 bar [l/min]	Hole pattern of the sealing foam mat	Air control valve	Valve type of the area gripper	Weight [kg]
ZGM16X60-21	-90	41		32	Round Ø5	No	Flow resistance	0.049
ZGM16X108-31	-90	85		32	Round Ø5	No	Flow resistance	0.082
ZGM20X60-21	-90	41		32	Round Ø5	No	Flow resistance	0.062
ZGM20X108-31	-90	85		32	Round Ø5	No	Flow resistance	0.092
ZGM40X150-21-FL2	-92	171	152		Round Ø12	No	Flow resistance	0.264
ZGM40X150-21-FL2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.339
ZGM40X150-21-FL3	-92	171	152		Oval	No	Flow resistance	0.27
ZGM40X150-21-FL3-A	-92	171	152		Oval	Yes	Flow resistance	0.345
ZGM40X150-21-FS2	-92	171	152		Round Ø12	No	Flow resistance	0.264
ZGM40X150-21-FS2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.339
ZGM40X150-21-FS3	-92	171	152		Oval	No	Flow resistance	0.27
ZGM40X150-21-FS3-A	-92	171	152		Oval	Yes	Flow resistance	0.345
ZGML40X150-21-FL2	-75	200		104	Round Ø12	No	Flow resistance	0.264
ZGML40X150-21-FL2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.339
ZGML40X150-21-FL3	-75	200		104	Oval	No	Flow resistance	0.27
ZGML40X150-21-FL3-A	-75	200		104	Oval	Yes	Flow resistance	0.345
ZGML40X150-21-FS2	-75	200		104	Round Ø12	No	Flow resistance	0.264
ZGML40X150-21-FS2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.339
ZGML40X150-21-FS3	-75	200		104	Oval	No	Flow resistance	0.27
ZGML40X150-21-FS3-A	-75	200		104	Oval	Yes	Flow resistance	0.345
ZGM40X200-21-FL2	-92	171	152		Round Ø12	No	Flow resistance	0.35
ZGM40X200-21-FL2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.425
ZGM40X200-21-FL3	-92	171	152		Oval	No	Flow resistance	0.356
ZGM40X200-21-FL3-A	-92	171	152		Oval	Yes	Flow resistance	0.431
ZGM40X200-21-FS2	-92	171	152		Round Ø12	No	Flow resistance	0.35
ZGM40X200-21-FS2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.425
ZGM40X200-21-FS3	-92	171	152		Oval	No	Flow resistance	0.356
ZGM40X200-21-FS3-A	-92	171	152		Oval	Yes	Flow resistance	0.431
ZGML40X200-21-FL2	-75	200		104	Round Ø12	No	Flow resistance	0.35
ZGML40X200-21-FL2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.425
ZGML40X200-21-FL3	-75	200		104	Oval	No	Flow resistance	0.356
ZGML40X200-21-FL3-A	-75	200		104	Oval	Yes	Flow resistance	0.431
ZGML40X200-21-FS2	-75	200		104	Round Ø12	No	Flow resistance	0.35
ZGML40X200-21-FS2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.425
ZGML40X200-21-FS3	-75	200		104	Oval	No	Flow resistance	0.356
ZGML40X200-21-FS3-A	-75	200		104	Oval	Yes	Flow resistance	0.431
ZGM40X300-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	0.523
ZGM40X300-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.598
ZGM40X300-31-FL3	-92	341	152		Oval	No	Flow resistance	0.529
ZGM40X300-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	0.604
ZGM40X300-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	0.523
ZGM40X300-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.598
ZGM40X300-31-FS3	-92	341	152		Oval	No	Flow resistance	0.529
ZGM40X300-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	0.604
ZGML40X300-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	0.523
ZGML40X300-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.598
ZGML40X300-31-FL3	-75	362		104	Oval	No	Flow resistance	0.529
ZGML40X300-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	0.604
ZGML40X300-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	0.523
ZGML40X300-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.598
ZGML40X300-31-FS3	-75	362		104	Oval	No	Flow resistance	0.529
ZGML40X300-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	0.604
ZGM40X400-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	0.695
ZGM40X400-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.77
ZGM40X400-31-FL3	-92	341	152		Oval	No	Flow resistance	0.701
ZGM40X400-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	0.776

VACUUM GRIPPING SYSTEM

SERIES ZGM

Order no.	► Technical data							
	Max. vacuum level [kPa]	Volume flow [l/min]	Air consumption at 4 bar [l/min]	Air consumption at 6 bar [l/min]	Hole pattern of the sealing foam mat	Air control valve	Valve type of the area gripper	Weight [kg]
ZGM40X400-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	0.695
ZGM40X400-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.77
ZGM40X400-31-FS3	-92	341	152		Oval	No	Flow resistance	0.701
ZGM40X400-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	0.776
ZGML40X400-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	0.695
ZGML40X400-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.77
ZGML40X400-31-FL3	-75	362		104	Oval	No	Flow resistance	0.701
ZGML40X400-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	0.776
ZGML40X400-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	0.695
ZGML40X400-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.77
ZGML40X400-31-FS3	-75	362		104	Oval	No	Flow resistance	0.701
ZGML40X400-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	0.776
ZGM40X500-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	0.868
ZGM40X500-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.943
ZGM40X500-31-FL3	-92	341	152		Oval	No	Flow resistance	0.874
ZGM40X500-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	0.949
ZGM40X500-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	0.868
ZGM40X500-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.943
ZGM40X500-31-FS3	-92	341	152		Oval	No	Flow resistance	0.874
ZGM40X500-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	0.949
ZGML40X500-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	0.868
ZGML40X500-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.943
ZGML40X500-31-FL3	-75	362		104	Oval	No	Flow resistance	0.874
ZGML40X500-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	0.949
ZGML40X500-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	0.868
ZGML40X500-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.943
ZGML40X500-31-FS3	-75	362		104	Oval	No	Flow resistance	0.874
ZGML40X500-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	0.949
ZGM40X600-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	1.040
ZGM40X600-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	1.115
ZGM40X600-31-FL3	-92	341	152		Oval	No	Flow resistance	1.046
ZGM40X600-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	1.121
ZGM40X600-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	1.040
ZGM40X600-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	1.115
ZGM40X600-31-FS3	-92	341	152		Oval	No	Flow resistance	1.046
ZGM40X600-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	1.121
ZGML40X600-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	1.040
ZGML40X600-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	1.115
ZGML40X600-31-FL3	-75	362		104	Oval	No	Flow resistance	1.046
ZGML40X600-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	1.121
ZGML40X600-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	1.040
ZGML40X600-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	1.115
ZGML40X600-31-FS3	-75	362		104	Oval	No	Flow resistance	1.046
ZGML40X600-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	1.121
ZGM50X150-21-FL2	-92	171	152		Round Ø12	No	Flow resistance	0.363
ZGM50X150-21-FL2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.438
ZGM50X150-21-FL3	-92	171	152		Oval	No	Flow resistance	0.352
ZGM50X150-21-FL3-A	-92	171	152		Oval	Yes	Flow resistance	0.427
ZGM50X150-21-FS2	-92	171	152		Round Ø12	No	Flow resistance	0.363
ZGM50X150-21-FS2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.438
ZGM50X150-21-FS3	-92	171	152		Oval	No	Flow resistance	0.352
ZGM50X150-21-FS3-A	-92	171	152		Oval	Yes	Flow resistance	0.427
ZGM50X150-22-FL2	-92	342	304		Round Ø12	No	Flow resistance	0.388
ZGM50X150-22-FL2-A	-92	342	304		Round Ø12	Yes	Flow resistance	0.463
ZGM50X150-22-FL3	-92	342	304		Oval	No	Flow resistance	0.377
ZGM50X150-22-FL3-A	-92	342	304		Oval	Yes	Flow resistance	0.452
ZGM50X150-22-FS2	-92	342	304		Round Ø12	No	Flow resistance	0.388
ZGM50X150-22-FS2-A	-92	342	304		Round Ø12	Yes	Flow resistance	0.463
ZGM50X150-22-FS3	-92	342	304		Oval	No	Flow resistance	0.377

Order no.	► Technical data							
	Max. vacuum level [kPa]	Volume flow [l/min]	Air consumption at 4 bar [l/min]	Air consumption at 6 bar [l/min]	Hole pattern of the sealing foam mat	Air control valve	Valve type of the area gripper	Weight [kg]
ZGM50X150-22-FS3-A	-92	342	304		Oval	Yes	Flow resistance	0.452
ZGML50X150-21-FL2	-75	200		104	Round Ø12	No	Flow resistance	0.363
ZGML50X150-21-FL2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.438
ZGML50X150-21-FL3	-75	200		104	Oval	No	Flow resistance	0.352
ZGML50X150-21-FL3-A	-75	200		104	Oval	Yes	Flow resistance	0.427
ZGML50X150-21-FS2	-75	200		104	Round Ø12	No	Flow resistance	0.363
ZGML50X150-21-FS2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.438
ZGML50X150-21-FS3	-75	200		104	Oval	No	Flow resistance	0.352
ZGML50X150-21-FS3-A	-75	200		104	Oval	Yes	Flow resistance	0.427
ZGML50X150-22-FL2	-75	400		208	Round Ø12	No	Flow resistance	0.388
ZGML50X150-22-FL2-A	-75	400		208	Round Ø12	Yes	Flow resistance	0.463
ZGML50X150-22-FL3	-75	400		208	Oval	No	Flow resistance	0.377
ZGML50X150-22-FL3-A	-75	400		208	Oval	Yes	Flow resistance	0.452
ZGML50X150-22-FS2	-75	400		208	Round Ø12	No	Flow resistance	0.388
ZGML50X150-22-FS2-A	-75	400		208	Round Ø12	Yes	Flow resistance	0.463
ZGML50X150-22-FS3	-75	400		208	Oval	No	Flow resistance	0.377
ZGML50X150-22-FS3-A	-75	400		208	Oval	Yes	Flow resistance	0.452
ZGM50X200-21-FL2	-92	171	152		Round Ø12	No	Flow resistance	0.461
ZGM50X200-21-FL2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.536
ZGM50X200-21-FL3	-92	171	152		Oval	No	Flow resistance	0.45
ZGM50X200-21-FL3-A	-92	171	152		Oval	Yes	Flow resistance	0.525
ZGM50X200-21-FS2	-92	171	152		Round Ø12	No	Flow resistance	0.461
ZGM50X200-21-FS2-A	-92	171	152		Round Ø12	Yes	Flow resistance	0.536
ZGM50X200-21-FS3	-92	171	152		Oval	No	Flow resistance	0.45
ZGM50X200-21-FS3-A	-92	171	152		Oval	Yes	Flow resistance	0.525
ZGM50X200-22-FL2	-92	342	304		Round Ø12	No	Flow resistance	0.486
ZGM50X200-22-FL2-A	-92	342	304		Round Ø12	Yes	Flow resistance	0.561
ZGM50X200-22-FL3	-92	342	304		Oval	No	Flow resistance	0.475
ZGM50X200-22-FL3-A	-92	342	304		Oval	Yes	Flow resistance	0.55
ZGM50X200-22-FS2	-92	342	304		Round Ø12	No	Flow resistance	0.486
ZGM50X200-22-FS2-A	-92	342	304		Round Ø12	Yes	Flow resistance	0.561
ZGM50X200-22-FS3	-92	342	304		Oval	No	Flow resistance	0.475
ZGM50X200-22-FS3-A	-92	342	304		Oval	Yes	Flow resistance	0.55
ZGML50X200-21-FL2	-75	200		104	Round Ø12	No	Flow resistance	0.461
ZGML50X200-21-FL2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.536
ZGML50X200-21-FL3	-75	200		104	Oval	No	Flow resistance	0.45
ZGML50X200-21-FL3-A	-75	200		104	Oval	Yes	Flow resistance	0.525
ZGML50X200-21-FS2	-75	200		104	Round Ø12	No	Flow resistance	0.461
ZGML50X200-21-FS2-A	-75	200		104	Round Ø12	Yes	Flow resistance	0.536
ZGML50X200-21-FS3	-75	200		104	Oval	No	Flow resistance	0.45
ZGML50X200-21-FS3-A	-75	200		104	Oval	Yes	Flow resistance	0.525
ZGML50X200-22-FL2	-75	400		208	Round Ø12	No	Flow resistance	0.486
ZGML50X200-22-FL2-A	-75	400		208	Round Ø12	Yes	Flow resistance	0.561
ZGML50X200-22-FL3	-75	400		208	Oval	No	Flow resistance	0.475
ZGML50X200-22-FL3-A	-75	400		208	Oval	Yes	Flow resistance	0.55
ZGML50X200-22-FS2	-75	400		208	Round Ø12	No	Flow resistance	0.486
ZGML50X200-22-FS2-A	-75	400		208	Round Ø12	Yes	Flow resistance	0.561
ZGML50X200-22-FS3	-75	400		208	Oval	No	Flow resistance	0.475
ZGML50X200-22-FS3-A	-75	400		208	Oval	Yes	Flow resistance	0.55
ZGM50X300-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	0.658
ZGM50X300-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.733
ZGM50X300-31-FL3	-92	341	152		Oval	No	Flow resistance	0.647
ZGM50X300-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	0.722
ZGM50X300-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	0.658
ZGM50X300-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.733
ZGM50X300-31-FS3	-92	341	152		Oval	No	Flow resistance	0.647
ZGM50X300-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	0.722
ZGM50X300-32-FL2	-92	682	304		Round Ø12	No	Flow resistance	0.683
ZGM50X300-32-FL2-A	-92	682	304		Round Ø12	Yes	Flow resistance	0.758

VACUUM GRIPPING SYSTEM

SERIES ZGM

Order no.	► Technical data							
	Max. vacuum level [kPa]	Volume flow [l/min]	Air consumption at 4 bar [l/min]	Air consumption at 6 bar [l/min]	Hole pattern of the sealing foam mat	Air control valve	Valve type of the area gripper	Weight [kg]
ZGM50X300-32-FL3	-92	682	304		Oval	No	Flow resistance	0.672
ZGM50X300-32-FL3-A	-92	682	304		Oval	Yes	Flow resistance	0.747
ZGM50X300-32-FS2	-92	682	304		Round Ø12	No	Flow resistance	0.683
ZGM50X300-32-FS2-A	-92	682	304		Round Ø12	Yes	Flow resistance	0.758
ZGM50X300-32-FS3	-92	682	304		Oval	No	Flow resistance	0.672
ZGM50X300-32-FS3-A	-92	682	304		Oval	Yes	Flow resistance	0.747
ZGML50X300-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	0.658
ZGML50X300-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.733
ZGML50X300-31-FL3	-75	362		104	Oval	No	Flow resistance	0.647
ZGML50X300-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	0.722
ZGML50X300-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	0.658
ZGML50X300-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.733
ZGML50X300-31-FS3	-75	362		104	Oval	No	Flow resistance	0.647
ZGML50X300-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	0.722
ZGML50X300-32-FL2	-75	724		208	Round Ø12	No	Flow resistance	0.683
ZGML50X300-32-FL2-A	-75	724		208	Round Ø12	Yes	Flow resistance	0.758
ZGML50X300-32-FL3	-75	724		208	Oval	No	Flow resistance	0.672
ZGML50X300-32-FL3-A	-75	724		208	Oval	Yes	Flow resistance	0.747
ZGML50X300-32-FS2	-75	724		208	Round Ø12	No	Flow resistance	0.683
ZGML50X300-32-FS2-A	-75	724		208	Round Ø12	Yes	Flow resistance	0.758
ZGML50X300-32-FS3	-75	724		208	Oval	No	Flow resistance	0.672
ZGML50X300-32-FS3-A	-75	724		208	Oval	Yes	Flow resistance	0.747
ZGM50X400-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	0.855
ZGM50X400-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.93
ZGM50X400-31-FL3	-92	341	152		Oval	No	Flow resistance	0.844
ZGM50X400-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	0.919
ZGM50X400-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	0.855
ZGM50X400-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	0.93
ZGM50X400-31-FS3	-92	341	152		Oval	No	Flow resistance	0.844
ZGM50X400-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	0.919
ZGM50X400-32-FL2	-92	682	304		Round Ø12	No	Flow resistance	0.88
ZGM50X400-32-FL2-A	-92	682	304		Round Ø12	Yes	Flow resistance	0.955
ZGM50X400-32-FL3	-92	682	304		Oval	No	Flow resistance	0.869
ZGM50X400-32-FL3-A	-92	682	304		Oval	Yes	Flow resistance	0.944
ZGM50X400-32-FS2	-92	682	304		Round Ø12	No	Flow resistance	0.905
ZGM50X400-32-FS2-A	-92	682	304		Round Ø12	Yes	Flow resistance	0.98
ZGM50X400-32-FS3	-92	682	304		Oval	No	Flow resistance	0.894
ZGM50X400-32-FS3-A	-92	682	304		Oval	Yes	Flow resistance	0.969
ZGML50X400-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	0.855
ZGML50X400-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.93
ZGML50X400-31-FL3	-75	362		104	Oval	No	Flow resistance	0.844
ZGML50X400-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	0.919
ZGML50X400-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	0.855
ZGML50X400-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	0.93
ZGML50X400-31-FS3	-75	362		104	Oval	No	Flow resistance	0.844
ZGML50X400-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	0.919
ZGML50X400-32-FL2	-75	724		208	Round Ø12	No	Flow resistance	0.88
ZGML50X400-32-FL2-A	-75	724		208	Round Ø12	Yes	Flow resistance	0.955
ZGML50X400-32-FL3	-75	724		208	Oval	No	Flow resistance	0.869
ZGML50X400-32-FL3-A	-75	724		208	Oval	Yes	Flow resistance	0.944
ZGML50X400-32-FS2	-75	724		208	Round Ø12	No	Flow resistance	0.905
ZGML50X400-32-FS2-A	-75	724		208	Round Ø12	Yes	Flow resistance	0.98
ZGML50X400-32-FS3	-75	724		208	Oval	No	Flow resistance	0.894
ZGML50X400-32-FS3-A	-75	724		208	Oval	Yes	Flow resistance	0.969
ZGM50X500-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	1.051
ZGM50X500-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	1.126
ZGM50X500-31-FL3	-92	341	152		Oval	No	Flow resistance	1.040
ZGM50X500-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	1.115
ZGM50X500-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	1.051

Order no.	► Technical data							
	Max. vacuum level [kPa]	Volume flow [l/min]	Air consumption at 4 bar [l/min]	Air consumption at 6 bar [l/min]	Hole pattern of the sealing foam mat	Air control valve	Valve type of the area gripper	Weight [kg]
ZGM50X500-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	1.126
ZGM50X500-31-FS3	-92	341	152		Oval	No	Flow resistance	1.040
ZGM50X500-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	1.115
ZGM50X500-32-FL2	-92	682	304		Round Ø12	No	Flow resistance	1.076
ZGM50X500-32-FL2-A	-92	682	304		Round Ø12	Yes	Flow resistance	1.151
ZGM50X500-32-FL3	-92	682	304		Oval	No	Flow resistance	1.065
ZGM50X500-32-FL3-A	-92	682	304		Oval	Yes	Flow resistance	1.14
ZGM50X500-32-FS2	-92	682	304		Round Ø12	No	Flow resistance	1.076
ZGM50X500-32-FS2-A	-92	682	304		Round Ø12	Yes	Flow resistance	1.151
ZGM50X500-32-FS3	-92	682	304		Oval	No	Flow resistance	1.065
ZGM50X500-32-FS3-A	-92	682	304		Oval	Yes	Flow resistance	1.14
ZGML50X500-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	1.051
ZGML50X500-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	1.126
ZGML50X500-31-FL3	-75	362		104	Oval	No	Flow resistance	1.040
ZGML50X500-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	1.115
ZGML50X500-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	1.051
ZGML50X500-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	1.126
ZGML50X500-31-FS3	-75	362		104	Oval	No	Flow resistance	1.040
ZGML50X500-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	1.115
ZGML50X500-32-FL2	-75	724		208	Round Ø12	No	Flow resistance	1.076
ZGML50X500-32-FL2-A	-75	724		208	Round Ø12	Yes	Flow resistance	1.151
ZGML50X500-32-FL3	-75	724		208	Oval	No	Flow resistance	1.065
ZGML50X500-32-FL3-A	-75	724		208	Oval	Yes	Flow resistance	1.14
ZGML50X500-32-FS2	-75	724		208	Round Ø12	No	Flow resistance	1.076
ZGML50X500-32-FS2-A	-75	724		208	Round Ø12	Yes	Flow resistance	1.151
ZGML50X500-32-FS3	-75	724		208	Oval	No	Flow resistance	1.065
ZGML50X500-32-FS3-A	-75	724		208	Oval	Yes	Flow resistance	1.14
ZGM50X600-31-FL2	-92	341	152		Round Ø12	No	Flow resistance	1.248
ZGM50X600-31-FL2-A	-92	341	152		Round Ø12	Yes	Flow resistance	1.323
ZGM50X600-31-FL3	-92	341	152		Oval	No	Flow resistance	1.237
ZGM50X600-31-FL3-A	-92	341	152		Oval	Yes	Flow resistance	1.312
ZGM50X600-31-FS2	-92	341	152		Round Ø12	No	Flow resistance	1.248
ZGM50X600-31-FS2-A	-92	341	152		Round Ø12	Yes	Flow resistance	1.323
ZGM50X600-31-FS3	-92	341	152		Oval	No	Flow resistance	1.237
ZGM50X600-31-FS3-A	-92	341	152		Oval	Yes	Flow resistance	1.312
ZGM50X600-32-FL2	-92	682	304		Round Ø12	No	Flow resistance	1.273
ZGM50X600-32-FL2-A	-92	682	304		Round Ø12	Yes	Flow resistance	1.348
ZGM50X600-32-FL3	-92	682	304		Oval	No	Flow resistance	1.262
ZGM50X600-32-FL3-A	-92	682	304		Oval	Yes	Flow resistance	1.337
ZGM50X600-32-FS2	-92	682	304		Round Ø12	No	Flow resistance	1.273
ZGM50X600-32-FS2-A	-92	682	304		Round Ø12	Yes	Flow resistance	1.348
ZGM50X600-32-FS3	-92	682	304		Oval	No	Flow resistance	1.262
ZGM50X600-32-FS3-A	-92	682	304		Oval	Yes	Flow resistance	1.337
ZGML50X600-31-FL2	-75	362		104	Round Ø12	No	Flow resistance	1.248
ZGML50X600-31-FL2-A	-75	362		104	Round Ø12	Yes	Flow resistance	1.323
ZGML50X600-31-FL3	-75	362		104	Oval	No	Flow resistance	1.237
ZGML50X600-31-FL3-A	-75	362		104	Oval	Yes	Flow resistance	1.312
ZGML50X600-31-FS2	-75	362		104	Round Ø12	No	Flow resistance	1.248
ZGML50X600-31-FS2-A	-75	362		104	Round Ø12	Yes	Flow resistance	1.323
ZGML50X600-31-FS3	-75	362		104	Oval	No	Flow resistance	1.237
ZGML50X600-31-FS3-A	-75	362		104	Oval	Yes	Flow resistance	1.312
ZGML50X600-32-FL2	-75	724		208	Round Ø12	No	Flow resistance	1.273
ZGML50X600-32-FL2-A	-75	724		208	Round Ø12	Yes	Flow resistance	1.348
ZGML50X600-32-FL3	-75	724		208	Oval	No	Flow resistance	1.262
ZGML50X600-32-FL3-A	-75	724		208	Oval	Yes	Flow resistance	1.337
ZGML50X600-32-FS2	-75	724		208	Round Ø12	No	Flow resistance	1.273
ZGML50X600-32-FS2-A	-75	724		208	Round Ø12	Yes	Flow resistance	1.348
ZGML50X600-32-FS3	-75	724		208	Oval	No	Flow resistance	1.262
ZGML50X600-32-FS3-A	-75	724		208	Oval	Yes	Flow resistance	1.337