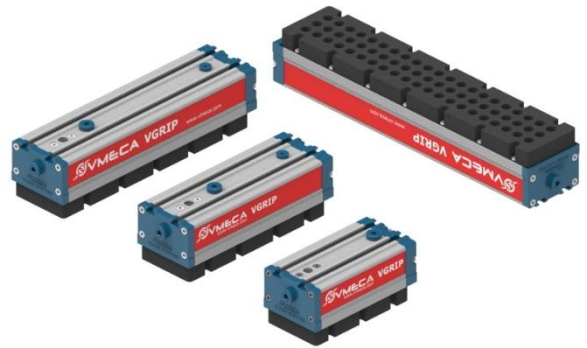


G 80 Series

Max. vacuum level	: - 75 kPa (-563 mmHg) - 85 kPa (-638 mmHg)
Max. flow rate	: 724 NI/min (25.4 scfm)
Supply air pressure	: 4 ~ 6bar, max 7bar (58~87psi, Max.101.5 psi)
Air consumption	: 208 NI/min (14.6 scfm)
Supply air type	: Dry compressed air
Working temperature	: - 20°C ~ 80°C (-4°F ~ 176°F)
Noise level	: 55 ~ 65 dBA



Features

- ✓ Handles various products with different shapes, sizes and porous material
- ✓ Flexible sealing foam(EPDM) sponge pad to excellent grip.
- ✓ Adjustable check valve holes and perfect closure of the idle suction ports
- ✓ Durable and light weight aluminum body frame
- ✓ Easy Installation and low maintenance

Ordering Information

G 80 X 250 - L2 - ES1 - A3 R3 - DN - G



① G Series (width)

- **G 80** - VGRIP Width 84mm

② Length

150	- VGRIP Length 150mm
200	- VGRIP Length 200mm
220	- VGRIP Length 220mm
● 250	- VGRIP Length 250mm
300	- VGRIP Length 300mm

③ Vacuum Cartridge Type

	Feed Pressure MPa (psi)	Max Vacuum -kPa (-mmHg)	Max Vacuum flow NI/min (scfm)
MC2	0.4 (58)	85 (638)	171.6 (1.73)
LC2	0.6 (87)	75 (563)	400 (4.03)
● L2	0.6 (87)	75 (563)	724(7.3)

Cartridge's selection according to the length (No②)

MC2 : 150 ~ 200 (VC203)
LC2 : 220 ~ 250 (VCL302)
L2 : 300 (VCL303)

④ Check Valve & Sponge Type

● ES1	- Round suction hole, For leakage / Non-porous objects
ES2	- Round suction hole, For non leakage / Porous objects
ES1-P1	- Round suction hole (Ø5), For leakage / Non-porous objects
ES2-P1	- Round suction hole (Ø5), For non leakage / Porous objects
AW	- Adjustable Check Valve (Wide round shape)
AO	- Smart efficiency valve, A Type, No Leakage Object, Round shape suction hole
BO	- Smart efficiency valve, B Type, 10~39% Leakage Object, Round shape suction hole
CO	- Smart efficiency valve, C Type, 40~50% Leakage Object, Round shape suction hole
AL	- Smart efficiency valve, A Type, No Leakage Object, Oval shape suction hole
BL	- Smart efficiency valve, B Type, 10~39% Leakage Object, Oval shape suction hole
CL	- Smart efficiency valve, C Type, 40~50% Leakage Object, Oval shape suction hole

⑤ Air Control Valve

A1	- G1/4", N/C, AC110V
A2	- G1/4", N/C, AC220V
● A3	- G1/4", N/C, DC24V

⑥ Release Valve

R1	- G1/4", N/C, AC110V
R2	- G1/4", N/C, AC220V
● R3	- G1/4", N/C, DC24V

⑦ Solenoid Terminal

● DN	- DIN type without lead wire
DL	- DIN type with lamp, without lead wire
CL	- Connector Type with lamp & 0.3 m lead wire

⑧ Vacuum Switch

● G	- Digital Gauge Attached (VTG-18)
-	- Not attached
S2(P)	- Digital output 2 points, No analog supply M8-4Pin male connector (0.3m lead wire)
SG2(P)	- Digital output 2 points, No analog supply (Grommet type 4 core, 2m lead wire)
SG3(P)	- Digital output 2 points, Analog Supply (Grommet type 5 core, 2m lead wire)
SG3X(P)	- Digital output 2 points, No analog Supply (Grommet type 4 core, 2m lead wire)

※Mark : ① S..(P)
L Output type : PNP open collector
② VC M8-4-2 : M8-4 pin female connector
L Option for 'S2' or 'S2P'

G80 Series Characteristics

Model	Air inlet Pressure Mpa (psi)	Air consumption N/m (scfm)	Max. Vacuum Flows N/m (scfm)	Max. Vacuum level -kPa (-mmHg)
G 80 X 150 MC2 ES...	0.4 (58)	64 (2.24)	171.6 (6)	85 (637.6)
G 80 X 200 L2 ES...	0.6 (87)	208 (7.28)	400 (14)	75 (563)
G 80 X 220 L2 ES...	0.6 (87)	208 (7.28)	400 (14)	75 (563)
G 80 X 250 L2 ES...	0.6 (87)	208 (7.28)	400 (14)	75 (563)
G 80 X 300 L2 ES...	0.6 (87)	208 (7.28)	724 (25.4)	75 (563)

G80 Series Holding Force (N) % according to the length (mm)

■ ES TYPE

Model	Holding force at 40% Sealing (N)	Holding force at 60% Sealing (N)	Holding force at 80% Sealing (N)	Holding force at 100% Sealing (N)	Weight (Kg)
G 80 X 150 MC2 ES...	48	53	114	290	1
G 80 X 200 L2 ES...	66	90	180	412	1.38
G 80 X 220 L2 ES...	108	144	240	458	1.48
G 80 X 250 L2 ES...	138	190	344	550	1.62
G 80 X 300 L2 ES...	199	249	390	733	1.84

■ AW TYPE

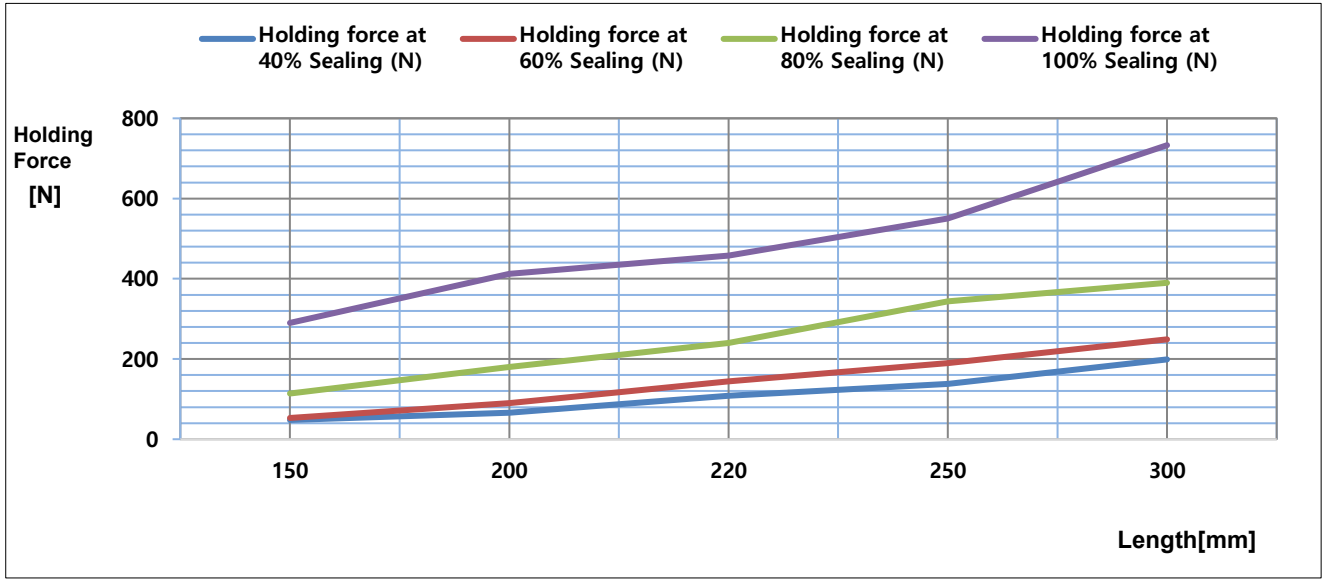
Model	Holding force at 40% Sealing (N)*	Holding force at 60% Sealing (N)*	Holding force at 80% Sealing (N)*	Holding force at 100% Sealing (N)*	Weight (Kg)
G 80 X 150 MC2 AW...	23	28	94	224	0.8
G 80 X 200 L2 AW...	46	61	161	320	1.24
G 80 X 220 L2 AW...	88	115	220	448	1.4
G 80 X 250 L2 AW...	119	161	325	512	1.55
G 80 X 300 L2 AW...	179	220	370	640	1.8

** Values may vary by workpiece surface and permeability. For reference only.

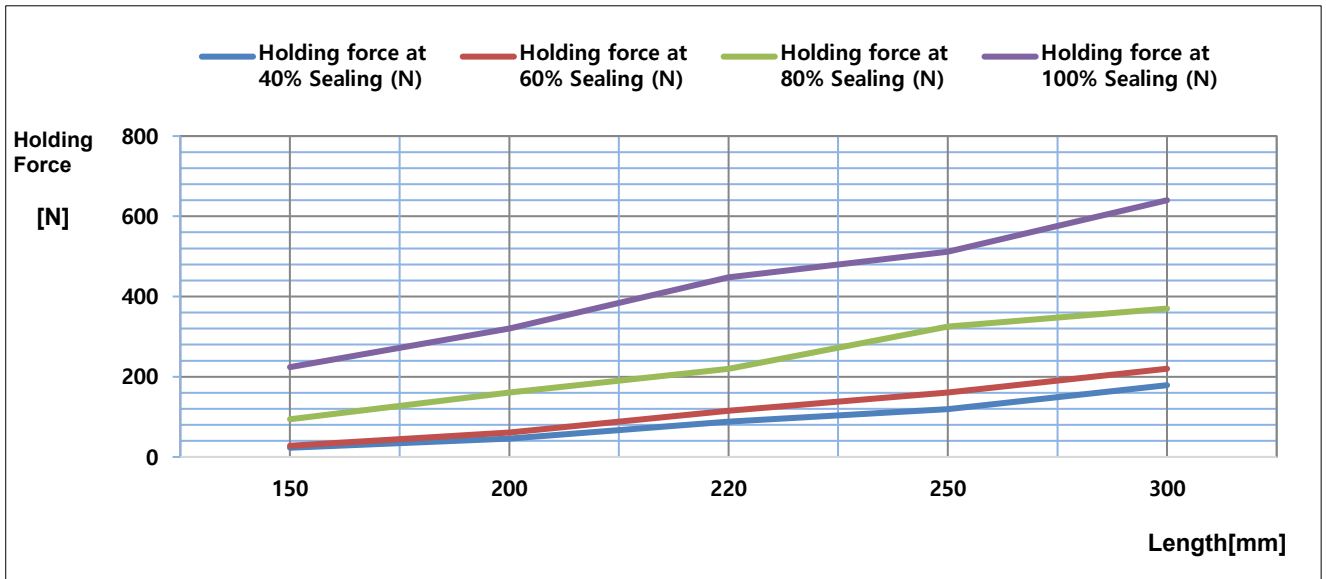
** Data set does not include safety factors. Apply appropriate safety factors for actual applications.

G80 Series Holding Force(N) according to the length(mm)

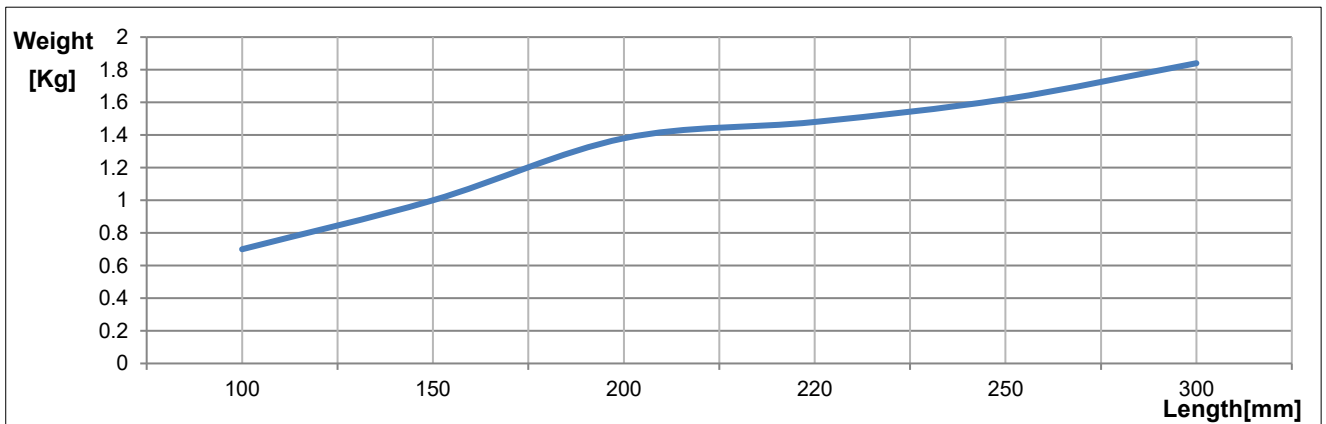
► **ES Type**



► **AW Type**

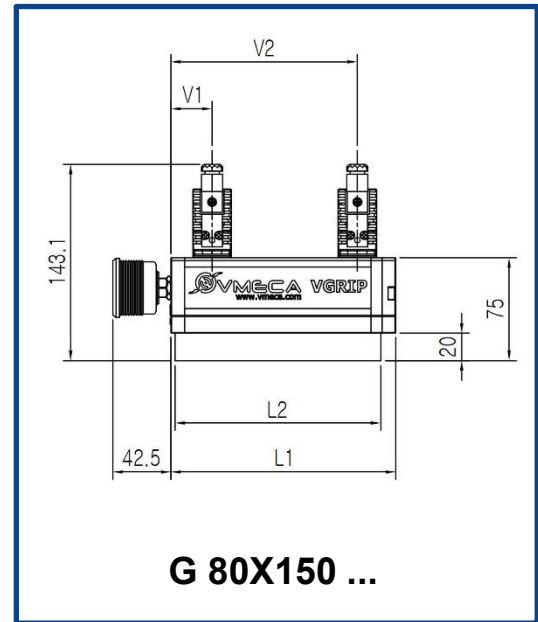
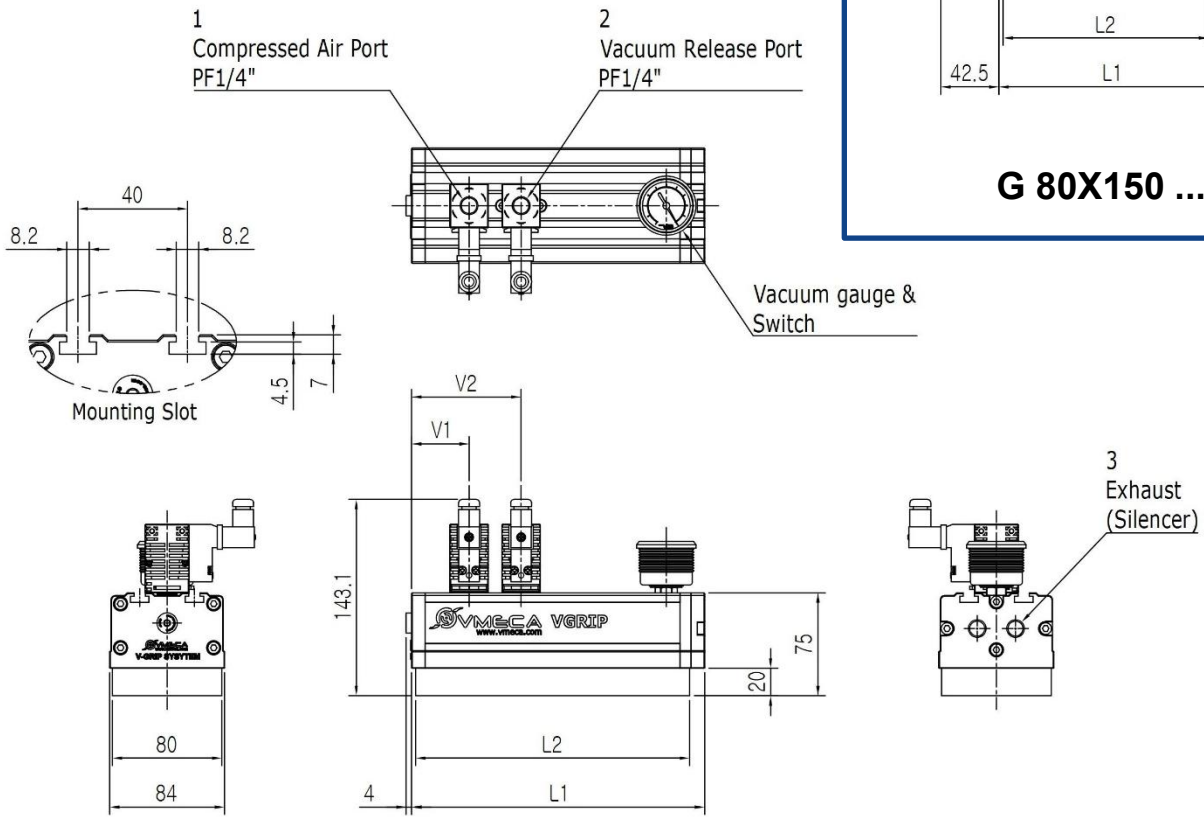


G80 Series Weight (kg) according to the length (mm)



Dimensional Information

▼ G 80 ... Series (150~300)



Measure unit : mm

Model	Length	Sponge Pad length	Air Control Valve		Release valve	
	L1	L2	V1	Type	V2	Type
G 80 X 150...	164	150	30	VMS14	136	VMS14
G 80 X 200...	214	200	80	VMS14	108	VMS14
G 80 X 220...	234	220	42	VMS14	83	VMS14
G 80 X 250...	264	250	72	VMS14	34	VMS14
G 80 X 300...	314	300	42	VMS14	70	VMS14