



SYVOL

Volumetric lateral design unit

SYVOL is a volumetric dosing unit for metering of granules or granulated materials. Simple and versatile, SYVOL is suitable for all extrusion processes which require volumetric dosing of additives, masterbatch or granulated materials.

It is available with or without control for ease of integration with the extrusion line.



PRINCIPLE OF OPERATION

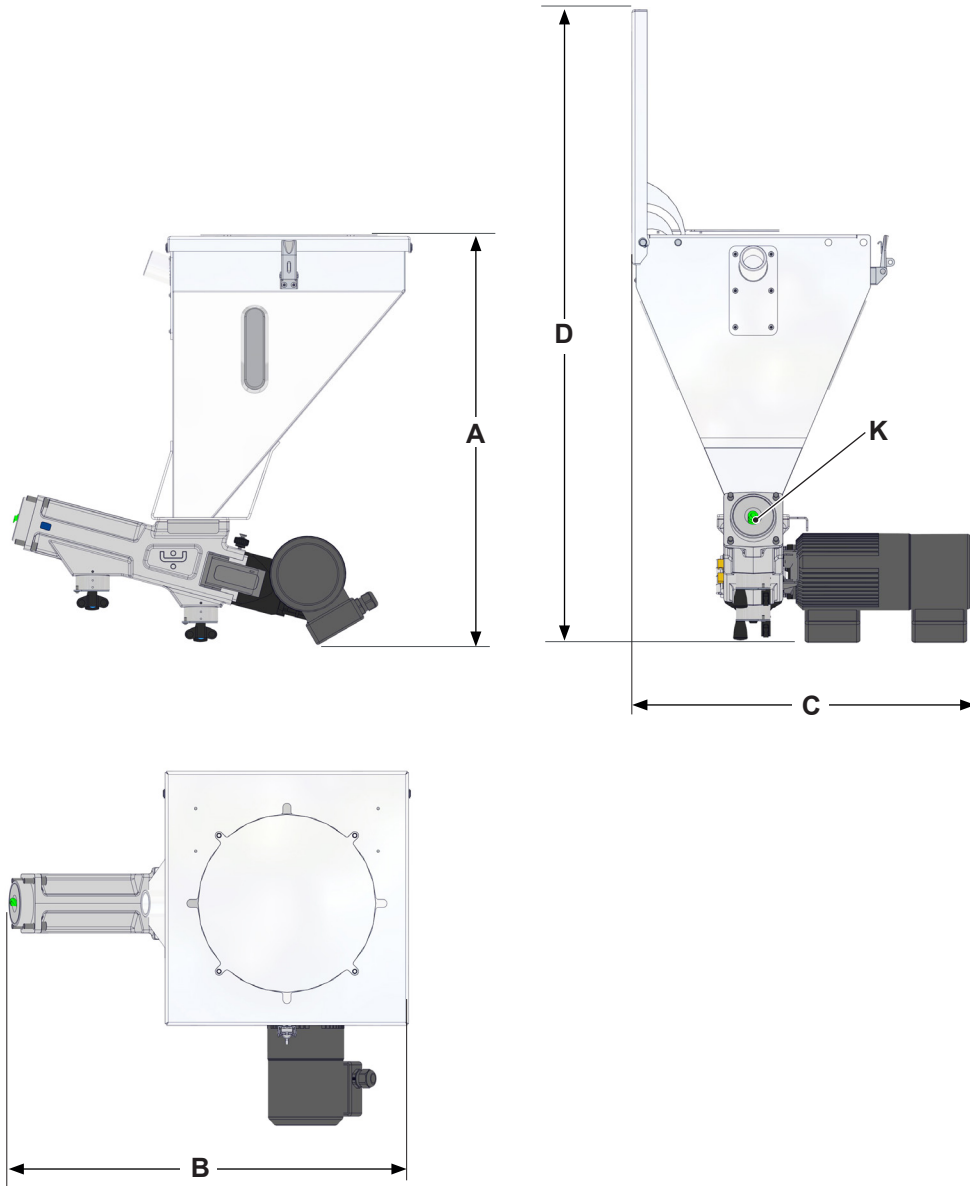
The material is transported via a motor driven metering screw.

The nominal throughput is directly proportional to the motor revs that are regulated by an inverter positioned in the dosing unit control panel.

MAIN FEATURES

- The dosing unit is assembled on a inclined axis to guarantee an optimal filling of the screw
- Quick screw change system
- Several screw kits are available for outputs up to 1000 Kg/h
- Servo-ventilated three-phase asynchronous dosing screw motor (Brushless is optional)
- Cleaning and maintenance are fast and simple
- Process calibration and self-learning dosing procedures possible via the shutter
- Optional lower drainpipe for material discharge
- Optional lower drainpipe for material sampling
- Material hopper made of powder coated carbon steel complete with visual lights and lower shutter, hopper is also available in optional stainless steel
- Optional material missing alarm via capacitive sensor
- Upper cover to protect housing, also allows for future installation of a feeder
- Optional high temperature version available

TECHNICAL DATA



Model	A (mm)	B (mm)	C (mm)	D (mm)
Syvol Ø 43 *	560	540	470	830
Syvol Ø 60 **	600	585	510	925
Syvol Ø 82	750	660	550	1150

Dosing screws (K)											
Diameter x pitch (mm)	10 x 8	10 x 10	15 x 10	15 x 15	20 x 20	25 x 25	30 x 30	40 x 40	50 x 50	60 x 60	70 x 70
Flow rate** @ 450 rpm (kg/h)	23	28	50	75	110	220	320	600	1000	1500	2050
Flow rate** @ 5 rpm (kg/h)	0,1	0,4	0,6	1	1,3	2,9	3,5	7	11,5	17	25

* For Ø 43 model, possible dosing screws range from 10 x 8 to 20 x 20; ** For Ø 60 model, possible dosing screws range from 10 x 8 to 40 x 40;

*** Flow rate values are calculated considering the apparent density of the granule = 0,55 kg/dm³. They vary according to the grain size of the material.

1_ Communication interface; 2_ Power supply; 3_ Compressed air inlet.