

Grinder - 40002 Muffin Monster® - Inline series

SULZER

The 40002 Muffin Monster excels in wet and dry grinding applications. It protects pumps and other sensitive equipment by grinding down the toughest wastewater solids. Its powerful, dual-shafted, slow speed, high-torque design shreds the toughest solids.

Construction

- Inline pipe configuration
- Pipe flange diameters from 300 mm to 500 mm
- Hardened alloy steel cutters (standard), 190 mm diameter
- Ductile iron housings
- Hardened alloy steel shafts, 64 mm hex
- Mechanical seals with tungsten carbide faces, 10.3 bar maximum dry working pressure

Performance

- Flow rates up to 1558 m³/hr

Applications

- Large sludge lines
- Pump stations
- Private facility discharge to municipal sewer system
- Prison sewage system protection
- Industrial wet waste grinding and maceration

Monster Renew grinder

In place of repairing a worn grinder, choose a Monster Renew unit. Sulzer provides a new, factory-built grinder cartridge to replace the worn grinder cartridge. Remove the motor and reducer from the worn unit, install the motor and reducer on the Monster Renew unit, and install the new assembly in place of the worn unit. Benefits include:

- Minimizes operational downtime
- Quick turnaround
- All new parts
- Great time to upgrade unit
- Full factory warranty on the Monster Renew grinder cartridge



Muffin Monster motor assembly

- 7.5 kW power
- Optional explosion proof and immersible motors available
- 35:1 reducer, cycloidal design

Muffin Monster controller

- Ensures maximum grinding ability with minimum stoppage
- Designed and programmed for specified motor

Muffin Monster grinder cutters

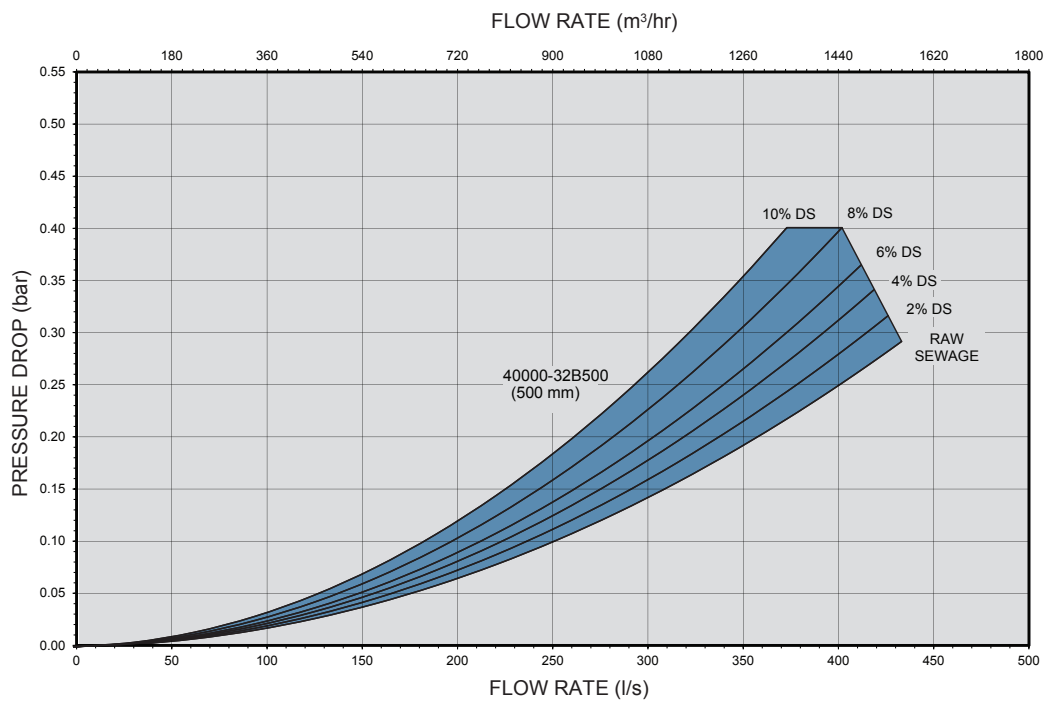
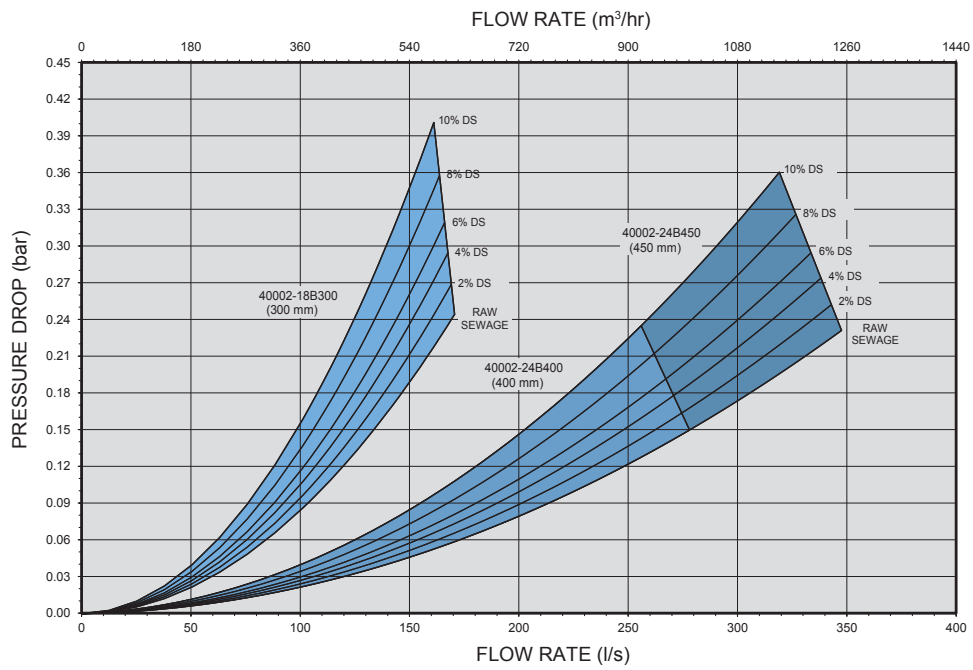
Tooth count	Thickness	Material
11-tooth	11 mm	Hardened alloy steel

Muffin Monster grinder materials

Part	Standard
Housings	Ductile iron
Cutters	Hardened alloy steel
Shafts	Hardened alloy steel
Mechanical seals	Tungsten carbide faces
Gaskets	Viton

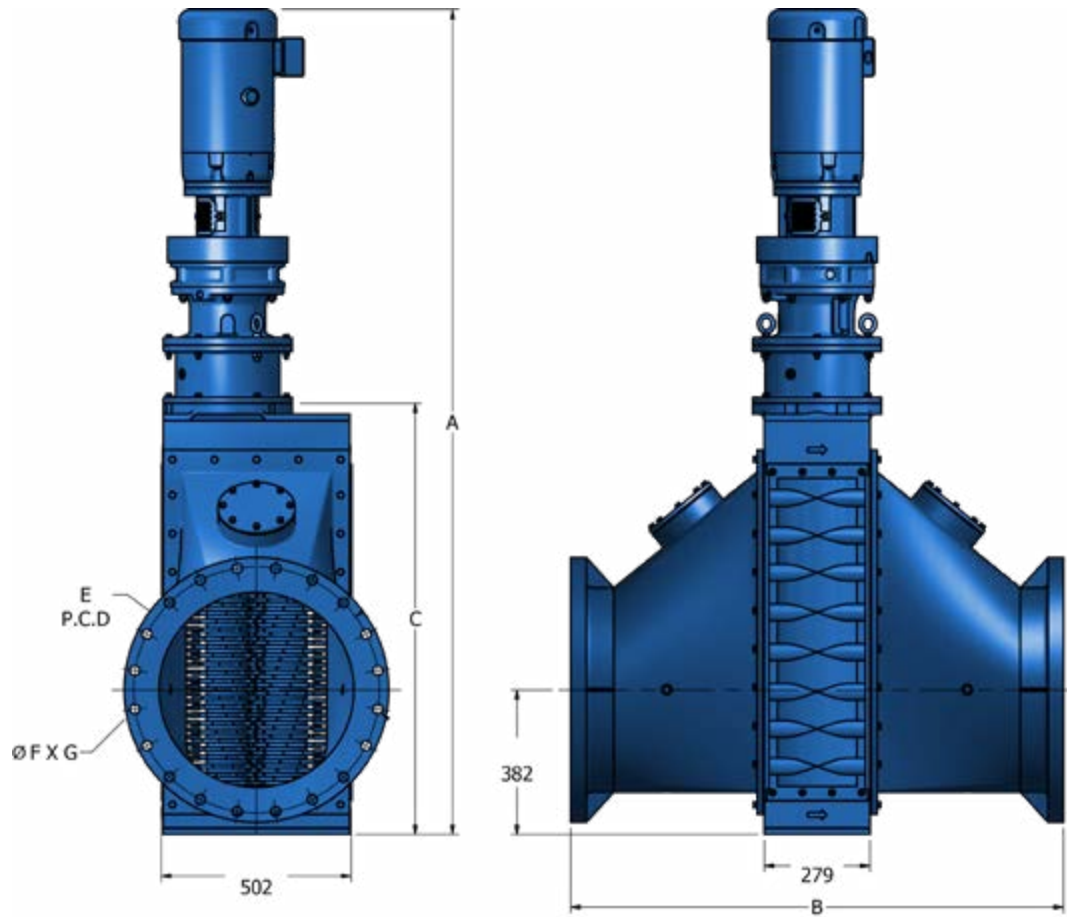
For guidance in selecting a 40002 Muffin Monster, please contact Sulzer.

Performance curves



DS = dissolved solids

Dimensions (mm)



Inline model	Flow rate ¹ - m ³ /hr	Pipeline size - mm	Pressure drop - bar	Standard dimensions ² - mm				Flange dimensions - mm			Approximate net weight - kg
				A (IP55)	A (IP68)	B	C	E	F	G	
40002-18B300	612	300	0.24	1704	1848	895	768	410	28 (M24)	12	690
40002-24B400	999	400	0.15	1882	2027	1099	946	525	31 (M27)	16	860
40002-24B450	1249	450	0.23	1882	2027	1200	946	585	28 (M24)	20	950
40002-32B500	1558	500	0.29	2080	2117	1301	1114	650	32 (M30)	20	1184

1. In-Line unit typically installed prior to suction side of pump. Consult factory for analysis of application.

2. Drive dimensions are a maximum based on a unit with a 7.5 kW drive.

40002 Inline Muffin Monster grinder model coding

Product family	Solids reduction sewage grinder	Q																			
Grinder family	40K Muffin Monster		4																		
Grinder configuration	New unit with motor (specified separately)			1																	
	Monster Renew unit				A																
	Monster Renew unit with spool					B															
Cutter stack height and flange diameter	450 mm stack, 300 mm flange						L	5													
	600 mm stack, 400 mm flange							M	6												
	600 mm stack, 450 mm flange								M	7											
	800 mm stack, 500 mm flange									N	8										
Flange type	BS EN 1092, PN16										D										
Cutter material	Alloy steel											1									
Cutter	11-tooth, 11 mm thick													F	4						
Body material & colour	Cast iron blue																			S	
Seals & gaskets material	Severe duty seals & Viton gaskets																			V	
Drum information	Not applicable																			X	X
Drive configuration	Single drive																				S
Example:	40002-24B400 with 11-tooth cutters	Q	4	1	M	6	D	1	F	4	S	V	X	X	S						

Muffin Monster motor assembly

Power	Voltage	Protection type	Motor model code
7.5 kW TEFC	400V, 3-phase, 50 Hz	IP55	QF1435B2R
7.5 kW TEFC	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QF2435B2R
7.5 kW Immersible	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QF3435B1R

Muffin Monster controller

Grinder motor type	Model code for IP65 control panel enclosure	
	Powder coated mild steel material	Stainless steel material
7.5 kW IP55	QN1P45XXX	QN1S45XXX
7.5 kW IP68	QN2P45XXX	QN2S45XXX