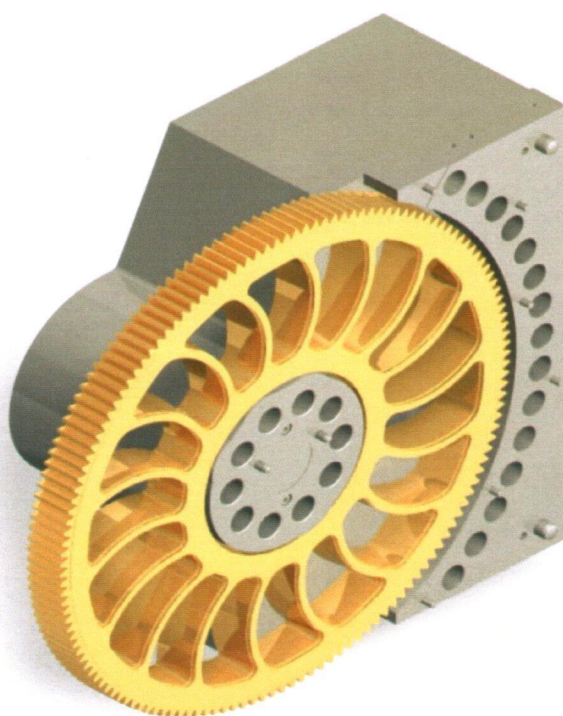




ROTARY FILTER Type CSD

Continuous constant pressure screen changer



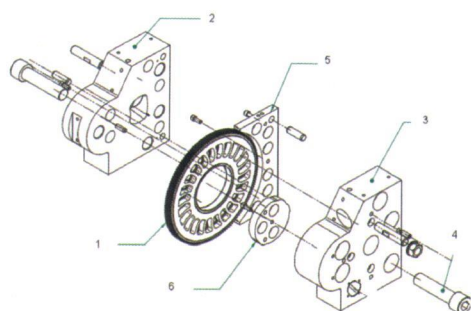
maag's ROTARY Disc Screen Changer type CSD is a continuous constant pressure screen changer for a wide variety of high end applications. Due to its robust design and state of the art manufacturing methods a reliable operation is guaranteed independently of the differential pressure. Filtration finesses below 40 micron can be achieved – making it the ideal solution for highest quality requirements.

Your benefits

- Maximum availability
- No throughput loss
- Little operator involvement
- Maintenance free
- Pressure constant operation
- No process interruption
- Screen change without intervention into the process
- Wide variety of applications and processes
- Metal to metal seal – leak free operation

ROTARY FILTER Type CSD

Continuous constant pressure screen changer



Technical description

- A rotatable disc (1) is arranged between two nonyielding plates (2,3)
- Rotation of disc is ensured, while sealing the system
- The plates are bolted together (4) with high torque
- Works without leakage
- The rotational movement is performed by means of a pneumatic drive
- The control of the rotational movement takes place on the differential pressure

Maximum availability

Throughput and quality of the processed polymer is permanently ensured by keeping the active filtration area constant within narrow tolerances. Filter changes can be done during normal production without any intervention into the process.

Superior quality

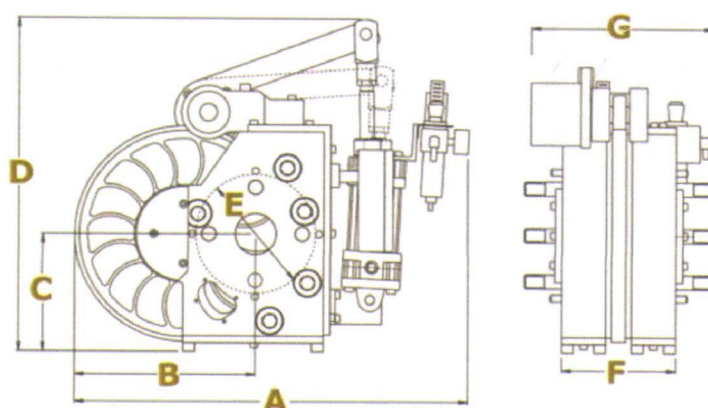
By maintaining constant pressure, even during screen changes, the ROTARY type CSD ensures that melt viscosity and temperature remain stable throughout the filtration process.

No throughput loss

Independent tests have shown that an increase in differential pressure, due to screen contamination, can reduce throughput by up to 24% per 1000 Psi (~70 bar). By maintaining constant differential pressure across the screens the ROTARY type CSD is able to eliminate this loss.

Principle of operation

Pressure transducers constantly monitor the differential across the ROTARY filter and compare it to the set point. The PLC varies the amount of clean screen surface area introduced into the flow channel in an effort to maintain constant differential pressure. This is achieved by varying the disk rotation, by as little as 1° to full stroke length, which introduces clean screen surface area equivalent to the contaminated surface area exiting the flow channel. Superior machining and surface treatment of the body blocks & disk allow for a metal to metal seal and rotation of the disk without a risk of seizing.



maag model	Filtration area cm ²	Screen area cm ²	Cavities	Through- put kg/h	Dimensions							Weight in kg	Wattage kW@240V
					A	B	C	D	E	F	G		
CSD 033/24	204	8.5	24	70-190	570	248.5	158	580		180	310	105	3.2
CSD 043/20	292	14.6	20	120-275	570	248.5	158	580		180	310	105	3.2
CSD 065/16	540	33.7	16	270-510	676	309.5	196	586		224	364	160	4.8
CSD 056/20	488	24.4	20	244-460	676	309.5	196	586		224	364	160	4.8
CSD 095/15	1,057	70.5	15	500-1,000	875	412.2	261	733		288	388	365	9.8
CSD 082/18	960	53.4	18	520-910	875	412.2	261	733		288	388	365	9.8
CSD 110/16	1,568	98	16	800-1,475	1,095	534.2	330	1,180		435	667	1,000	13
CSD 105/18	1,584	88	18	880-1,500	1,095	534.2	330	1,180		435	667	1,000	13