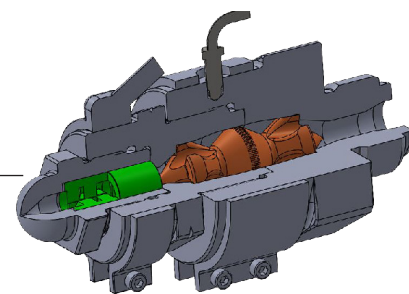


your way into the circular economy

OFS-RECYCLATENOZZLE TYPE RDS

well suitable for processing shear- and friction sensitive and technical materials



APPLICATION FIELDS:

The OFS-recyclatenozzle type RDS paves the way to a sustainable circular economy and enables also a higher process reliability, plus cost reductions in the injection molding process.

The filtertorpedo protects the hotrunner or the gate system against foreign bodies. The integrated mixinginsert ensures the optimal homogenisation of the melt.

Due the optimal rheological design, the OFS-recyclingnozzle type RDS is well suitable for processing technical plastics. The melt channel, the transitions are designed accordingly so that no flow shadows, dead corners or impact edges are caused. Because of that, friction and shear-sensitive as well as reinforced materials can also be processed. To increase the lifespan, an anti-wear coating is available as an option, which minimizes the abrasive and corrosive wear.

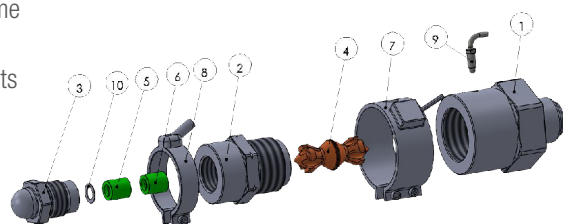
The size of the nozzle is dependent on the screw dia, the existing hotrunner / gate system, the material (MFI), the injection rate and the current pressure ratio.

YOUR BENEFIT:

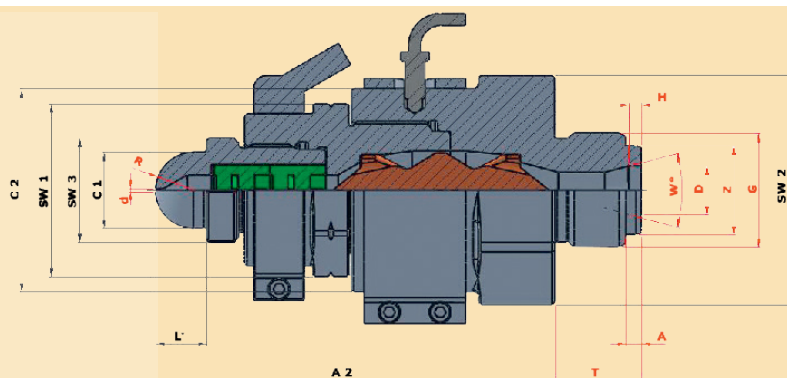
- ▶ no foreign bodies in hotrunner / gate system
- ▶ thermal homogeneous melt
- ▶ homogeneous melt viscosity – especially at high percent of recyclate
- ▶ tighter tolerances, higher surface quality at the mold parts, less rejects
- ▶ homogeneous color
- ▶ higher process reliability / less downtime
- ▶ lower maintenance costs
- ▶ amortization through production benefits within shortest time

PRODUCT FEATURES:

- ▶ modular, robust construction
- ▶ easy handling / cleaning
- ▶ all parts can be delivered separately
- ▶ delivery includes heater and thermocoupler
- ▶ flexible, customer-specific design
- ▶ easy to retrofit
- ▶ suitable for all injection molding machines
- ▶ optimal rheological design
- ▶ easy to maintain



exploded view of the OFS-recyclatenozzle type RDS



DATA AND STANDARD DIMENSIONS (mm)

Sizes		RDS I	RDS II	RDS III	RDS IV	RDS V
appr. screw dia	mm	bis 30	30-60	60-90	90-130	ab 130
max. injection pressure	bar	2.000	2.000	2.000	2.000	2.000
filtration gap S (standard S**)	mm	0,6	0,8	1,2	1,5	2,5
length (at standard L*)	A2	131	157	223	254	306
nozzlehead dia	C1	24	30	30	30	30
nozzlehead length L (standard)	L	10	20	15	15	15
nozzlebase dia	C2	60	80	100	110	130
hexagon nozzlehead	SW 1	41	60	60	60	80
hexagon nozzlebase	SW 2	60	80	90	90	100
hexagon nozzletip	SW 3	27	41	32	32	32

REQUIRED MEASUREMENTS

machine thread	G	
T/A/D/Z/W°/H		specify if required
drill	d	
radius / surface	R	
special length of nozzlehead	L*	
special filtration gap	S**	

REQUIRED PARAMETERS

material (MFI)		
shot weight	gr.	
melt temperature	°C	
injection time	sec	
injection pressure spec.	bar	
holding pressure time	sec.	
holding pressure spec.	bar	
machine type		
screw dia	mm	