

PUMP & FILTRATION SYSTEMS >



extrex® RV/RB

High performance gear pump
for rubber extruder



When it comes to manufacturing profiles and dealing with strainers, high requirements are placed on pumping consistency and extrusion lines. The new gear pump series extrex® RV/RB from MAAG raises the performance of gear pumps for elastomer extrusion to new levels in terms of both economy and processing technology. Product quality is guaranteed by a stable discharge, the lowest tolerance deviations and achieving process stability in quick time.

Your benefits

- Optimized flow channels
- Highly efficient self-cleaning properties
- Low pulsation pumping even at high differential pressures
- Compact design
- Gentle pressure increases
- Minimal temperature increase
- Leak-free operation depending on compound sensitivity possible

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A range of typical pumping media

- Butadiene rubber
- Chloroprene rubber
- Ethylene-propylene-terpolymer rubber
- Nitril-butadiene rubber
- Styrene-butadiene rubber
- Natural rubber
- Others upon request

Accessories

- Base and base frame
- Adapter flange
- Sensors
- Controllers, expac® complete solutions
- Drives

Options

- Various tolerance classes
- Choice of materials for every application
- Shaft cooling with contact protection
- Bearing lubrication with internal recirculation

Application limits:

Mooney ML 1+4 (100):	To 100
Viscosity:	To 30,000 Pas
Temperature:	To 130 °C
Inlet pressure:	To 120 bar

Technical specifications:	extrex® RV	extrex® RB
Housing, cover:	Alloy steel	
Gear shafts:	Nitrided tool steel, prepared for shaft cooling	
Bearing:	Tool steel	
Shaft seals:	Alloy steel	
Pump heating:	Liquid temperature controlled	
Discharge pressure in bar:	To max. 350	To max. 450
Differential pressure in bar:	To max. 250	To max. 350
Pump sizes:	36 to 110	56 to 110
Specific volume in cm³/rev:	25.6 to 718	59 to 457
Throughput range in kg/h:	15 to 1,500	50 to 1,000

Design values, application range may differ depending on product.

The recently developed series is characterized by the optimized conveying characteristics for gear pumps. This series expands the processing scope for temperature, degree of plasticizing and pressure build-up when working the compounds. It simplifies the operating mode of the extrusion line and dramatically improves the quality of the end product. extrex® gear pumps have optimized flow channel geometry and a temperature-controlled pump housing.

There are two types to choose from

- extrex® RV for a broad application range
- extrex® RB for applications with high discharge pressure

Rubber		Butadiene/ nitril-butadiene		Ethylene-propylene/ terpolymer		Chloroplene/styrene-butadiene/ natural rubber	
Density [g/cm³]		1.10		1.20		1.35	
Viscosity [P]		5,000 to 15,000		5,000 to 12,000		7,000 to 12,000	
Pump size	Spec. vol. [cm³/rev]	[rev/min]	[kg/h]	[rev/min]	[kg/h]	[rev/min]	[kg/h]
extrex® RV							
36	25.6	60	90	70	105	70	130
45	46.3	50	140	55	150	55	190
56	92.6	40	230	45	270	45	300
70	176.0	35	380	40	460	40	510
90	371.0	30	690	35	840	35	950
110	718.0	25	1,120	25	1,160	25	1,300
extrex® RB							
56	56.0	45	160	50	180	50	210
70	108.0	40	270	45	320	45	360
90	219.0	35	480	40	570	40	640
110	433.0	30	810	35	980	35	950