

extrex® RV-Q/ RB-Q



A range of typical pumping media:

- Silicone rubber
- Adhesive and sticky elastomere
- Butadiene rubber
- Chloroprene rubber
- Ethylene-propylene-terpolymer rubber
- Nitril-butadiene rubber
- Styrene-butadiene rubber
- Natural rubber
- TPE on request
- Polyvinylchloride
- Others upon request

Quick maintenance of gear pump parts

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® RB-Q/RV-Q from Maag Pump Systems 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.

The extrex® RQ series is specifically designed to handle high viscose and sticky elastomeric products of up to 100 ML and rates of up to 1,500 kg per hour for constant product conveyance, gentle pressure build up of extruding piping or sheeting as well preformer.

There are two types to choose from:

- **extrex® RV-Q** a high output elastomeric gear pump
- **extrex® RB-Q** a high counter pressure elastomeric gear pump

Your benefits:

- reduce housekeeping
- minimize cleaning and handling costs
- gear shaft-bearing-sealing package quick removable
- set of different gear shaft design quick exchangeable

| | extrex® RV-Q | extrex® RB-Q |
|--|---------------|--------------|
| Discharge pressure in bar | to 350 | to 450 |
| Differential pressure in bar | to max. 250 | to max. 350 |
| Pump sizes | 36 to 140 | 56 to 140 |
| Specific volume in cm³/rev | 25.6 to 1,432 | 59 to 874 |
| Throughput range in kg/h | 15 to 1,500 | 50 to 1,500 |

design values, application range may differ depending on product

Standard features:

- easy to maintain one tool (shaft+bearing) disassembly
- application specific shaft design helical (or spur, herringbone)
- modular construction to meet product specific requirements
- no O-Ring seals
- heavy duty construction for ultimate high pressure (up to 450 bar counter pressure)

Theoretical conveying capacities:

| Rubber applications | | Butadiene/ nitril-butadiene | Ethylene-propylene- terpolymer | Chloroprene/ styrene-butadiene/ natural rubber | | | |
|-----------------------------------|---|--------------------------------|-----------------------------------|--|--------|-----------|--------|
| Density [g/cm³] | | 1.10 | 1.20 | 1.35 | | | |
| Mooney [ML 100] | | 20 to 70 | 20 to 70 | 20 to 70 | | | |
| extrex® RV-Q | | | | | | | |
| Pump size | Specific volume [cm ³ /rev] | [rev/min] | [kg/h] | [rev/min] | [kg/h] | [rev/min] | [kg/h] |
| 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 |
| 140 | 1,432.0 | 20 | >1,500 | 18 | >1,500 | 18 | >1,500 |
| extrex® RB-Q | | | | | | | |
| 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 |
| 140 | 874.0 | 20 | >1,500 | 18 | >1,500 | 18 | 1,500 |

Application limits:

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

Technical specifications:

| | |
|-----------------------------|---|
| 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 |
| Shaft heating: | liquid temperature controlled |



expac® extrusion package:
retrofit gear pump to extruder

- extrusion nozzles and cutting devices
- strainer heads
- quick release opening systems
- heating and cooling packages
- complete electrical systems
- product temperature/density and metering controls
- gear box and motor

Switzerland

Maag Pump Systems AG
Aspstrasse 12
8154 Oberglatt
Schweiz
Phone +41 44 278 82 00
Fax +41 44 278 82 01
welcome@maag.com
www.maag.com

Singapore

Maag Pump Systems Pte Ltd.
25 International Business Park
04-73 German Center
Singapore 609916
Phone +65 6562 8720
Fax +65 6562 8729
MaagSingapore@maag.com
www.maag.com

USA

Maag Pump Systems Inc.
1500 Continental Boulevard
Charlotte, NC 28273
USA
Phone +1 704 716 9000
Fax +1 704 716 9001
MaagAmericas@maag.com
www.maag.com

France

Maag Pump Systems SAS
111, Rue du 1er Mars 1943
69100 Villeurbanne
France
Phone +33 4 72 68 67 30
Fax +33 4 72 68 67 31
MaagFrance@maag.com
www.maag.com

Germany

Maag Pump Systems GmbH
August-Kümpers-Strasse 9
48493 Wetrtringen
Deutschland
Phone +49 2557 92 80 0
Fax +49 2557 92 80 20
MaagGermany@maag.com
www.maag.com

China

Maag Pump Systems Shanghai
Room 1204A, Silver Tower
218 South Xi Zang Road
200021 Shanghai, China
Phone +86 21 6334 3666
Fax +86 21 6334 3336
MaagChina@maag.com
www.maag.com

Italy

Maag Pump Systems S.r.l.
Viale Romagna 7
20089 Rozzano (MI)
Italia
Phone +39 02 575 932 1
Fax +39 02 575 932 32
MaagItaly@maag.com
www.maag.com

www.maag.com