

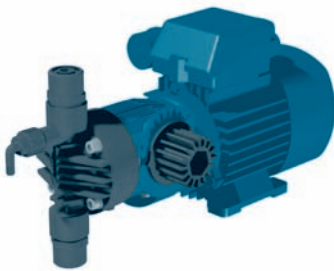
Diaphragm pumps

Flow capacity 1,2 l/h ... 30 l/h

Admiss. counterpressure up to 10 bar



R302



R302 in survey

- Compact underfloor design
- Low weight
- Leakage-free
- High dosing accuracy
- Safe to run dry
- High quality materials
- No-maintenance
- Robust korrosion resitant stroke mechanism housing

Infobox

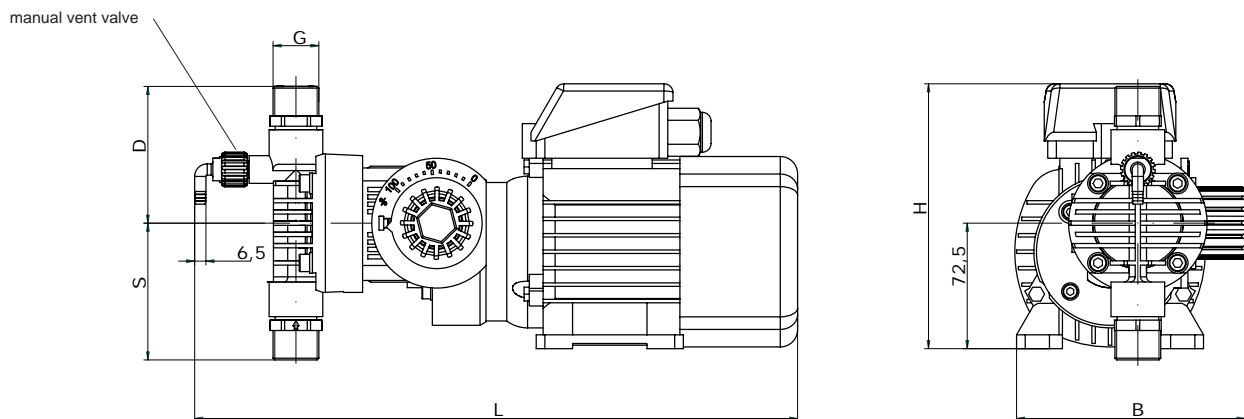
- Order information [Page 2.67](#)
- Options/accessories [Page 2.67](#)
- fittings-allocation [Page 2.69](#)
- connecting pieces [Chapter 4](#)
- resistance chart [Chapter 5](#)
- installation examples [Chapter 5](#)

Technical data

Type	Nominal capacity l/h		Nominal stroke frequency 1/min		Admiss. counter-pressure bar	Admiss. pressure at pump inlet bar	Max. suction height mWC	Inlet/ Outlet nominal width DN	Max. stroke length mm	Rated motor power kW
	50 Hz	60 Hz	50 Hz	60 Hz						
R302-1,2e	0 - 1,2	0 - 1,4	150	180	10	-0,3 / 0	3	5	1.5	0,06
R302-2,4e	0 - 2,4	0 - 2,8	150	180	10	-0,3 / 0	3	5	1.5	0,06
R302-6,0e	0 - 6	0 - 7,2	150	180	10	-0,3 / 0	3	5	1.5	0,06
R302-13e	0 - 13	0 - 15,6	150	180	6	-0,3 / 0	3	5	1.5	0,06
R302-25e	0 - 25	0 - 30	150	180	4	-0,3 / 0	3	10	1.5	0,06

e in type designation means: pump with single diaphragm

Dimensional drawing



Dimensional chart

All indications in mm

Type	G	S	D	L	B	H	Weight (kg)
R302-1,2e	G 3/4	79	79	350	133	153	5
R302-2,4e	G 3/4	79	79	350	133	153	5
R302-6,0e	G 3/4	79	79	350	133	153	5
R302-13e	G 3/4	79	79	350	133	153	5
R302-25e	G 3/4	75	75	310	133	153	5

■ Manual vent valve only with PP-FRP and PVDF-FRP design at pumps with a nominal capacity up to 13 l/h

Order information

Basic design

R302-1,2e up to R302-13e:

- Pump body PP-FRP
- Double valves PP-FRP
- Valve balls glass
- Valve seals FPM
- Working diaphragm PTFE-faced
- Manual vent valve PP-FRP with hose nozzle (only with pump body made of PP-FRP/PVDF-FRP)

R302-25e:

- Pump body PP-FRP
- Double valves PP-FRP
- Valve balls glass
- Valve seals FPM
- Working diaphragm PTFE-faced







Motor:

- 220-240/380-420V threephase, 50/60 Hz, IP 55, insul. cl. F

Further options and accessories:

- Connection pieces see chapter 4
- Product documentation see chapter 5

Type	Basic design	x
R302-1,2e	16000284	
R302-2,4e	16001284	
R302-6,0e	16000711	
R302-13e	16000754	
R302-25e	16000941	

Options/Accessories		R302-1,2e up to R302-13e	x	R302-25e	x
Pump body and valves 	PP-FRP	Double valve PP-FRP	●	●	
	PVC-U	Single valve PVC-U	–	▲	
		Chamber valve (double valve) PVC-U	▲	–	
	PVDF-FRP	Double valve PVDF-FRP	▲	⊙	
	PVDF	Double valve PVDF-FRP	–	⊙	
Valve balls 	Glass	Single valve	–	○	
		Double valve	●	●	
	1.4401	Single valve	–	○	
		Double valve	○	○	
	PTFE	Single valve	–	▲	
		Double valve	▲	▲	
Valve seals 	FPM	Single valve	–	●	
		Double valve	●	●	
	EPDM	Single valve	–	○	
		Double valve	○	○	
	FEP-covered	Single valve	–	▲	
		Double valve	▲	▲	
Diaphragm rupture monitoring 	MBE-02		▲	▲	
	Diaphragm rupture monitoring 	Electrode relay, control cabinet assembly			
		aux. energy 230 V AC	90022994		90022994
	ER-104/C	aux. energy 24 V DC	90022945		90022945
Drive motor 		Single phase AC 230 V +/- 10%, 0,09 kW, 50/60 Hz, IP55, ISO F	▲		▲

● = basic design ▲ = with add. price ○ = without add .price ⊙ = on request – = not available Art.-No. = available in basic design/accessories

R302

Order information

Basic design

R302-1,2e up to R302-13e:

- Pump body PP-FRP
- Double valves PP-FRP
- Valve balls glass
- Valve seals FPM
- Working diaphragm PTFE-faced
- Manual vent valve PP-FRP with hose nozzle (only with pump body made of PP-FRP/PVDF-FRP)

R302-25e:

- Pump body PP-FRP
- Double valves PP-FRP
- Valve balls glass
- Valve seals FPM
- Working diaphragm PTFE-faced

Motor:

- 220-240/380-420V threephase, 50/60 Hz, IP 55, insul. cl. F

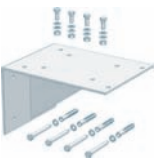
Further options and accesories:

- Connection pieces see chapter 4
- Product documentation see chapter 5

Type	Basic design	x
R302-1,2e	16000284	
R302-2,4e	16001284	
R302-6,0e	16000711	
R302-13e	16000754	
R302-25e	16000941	

Options/Accessories

Console



for wall mounting
incl. fixing screws

1.4301

PP

R302-1,2e
up to
R302-13e

x

R302-25e

x

90023872

90023872

90023844

90023844

● = basic design

▲ = with add. price

○ = without add .price

⊗ = on request

-- = not available

Art.-No. = available in basic design/accessories

Fittings for suction side of dosing pumps		R302-1,2e up to R302-6,0e		R302-13e		R302-25e	
		Type	P.	Type	P.	Type	P.
Pulsation damper without separating diaphragm	PVC-U / PP	702.1	3.14	702.1	3.14	702.1	3.14
	1.4571	⊗		⊗		⊗	
Suction lance	with level switch 1-stage	SL-11.1	3.34	SL-11.1	3.34	SL-11.1	3.34
	with level switch 2-stage	SL-12.1	3.34	SL-12.1	3.34	SL-12.1	3.34
	without level switch	S-01	3.46	S-01	3.46	S-01	3.46
		⊗		SH-04.1	3.47	SH-05.1	3.47
Priming aid /Siphon vessel	PVC-U-transparent	769.1	3.74	769.1	3.74	769.1	3.74
	PVC-U-transparent	770.2	3.76	770.2	3.76	770.2	3.76
Calibration pot	PVC-U	791.1	3.78	792.1	3.78	792.1	3.78
Foot valve	PVC-U	731	3.82	731	3.82	731	3.82
	1.4571	731	3.82	731	3.82	731	3.82
	PP-FRP / PVDF-FRP	781.1	3.86	781.1	3.86	781.1	3.86
Line strainer	PVC-U	751.1	3.88	751.1	3.88	751.1	3.88
	PVC-U / PP / PVDF	752.1	3.88	752.1	3.88	752.1	3.88
Float valve	PVC-U	871	3.92	871	3.92	871	3.92

Fittings for pressure side of dosing pumps		R302-1,2e up to R302-6,0e		R302-13e		R302-25e	
		Type	P.	Type	P.	Type	P.
Diaphragm-type relief valve		620.10	3.4	620.10	3.4	620.10	3.4
Diaphragm-type pressure keeping valve		620.D	3.8	620.D	3.8	620.D	3.8
Multi-function valve	4 bar opening pressure	MFV 05004	3.10	MFV 05004	3.10	MFV 05004	3.10
	6 bar opening pressure	MFV 05006	3.10	MFV 05006	3.10	⊗	
	10 bar opening pressure	MFV 05010	3.10	⊗		⊗	
Pulsation damper without separating diaphragm	PVC-U / PP	702.1	3.14	702.1	3.14	702.1	3.14
	1.4571	⊗		⊗		⊗	
Diaphragm-pulsation damper with PTFE/PTFE-faced diaphragm	PVC-U / PP / PVDF	720.1	3.22	720.1	3.22	720.1	3.22
Diaphragm-pulsation damper with Elastomer-diaphragm	1.4571	810.1-0,16/180	3.28	810.1-0,16/180	3.28	810.1-0,16/180	3.28
Check valve	PVC-U	661.2	3.50	661.2	3.50	661.2	3.50
	PP-FRP / PVDF-FRP	661.2	3.50	661.2	3.50	661.2	3.50
	1.4571	661.2	3.50	661.2	3.50	661.2	3.50
Dosing valve	PVC-U	691.1	3.56	691.1	3.56	691.1	3.56
	PP-FRP / PVDF-FRP	691.1	3.56	691.1	3.56	691.1	3.56
	1.4571	691.1	3.56	691.1	3.56	691.1	3.56
	PVC-U / PP / PVDF	681.1	3.60	681.1	3.60	681.1	3.60
Injection fitting	PVC-U / PP / PVDF	8061.1	3.62	8061.1	3.62	8061.1	3.62

⊗ = on request – = not available

The above allocation considers the fittings which have to be used at least regarding their nominal width in order to ensure the safe and trouble-free operation of the respective pumps when feeding liquids which are similar to water. Absolutely note the max. admissible operating pressure of the fittings.

The use of fittings of a bigger nominal width is unproblematically possible in most cases.

When choosing the fittings note the installation instructions for dosing pumps or confer with **sera**.