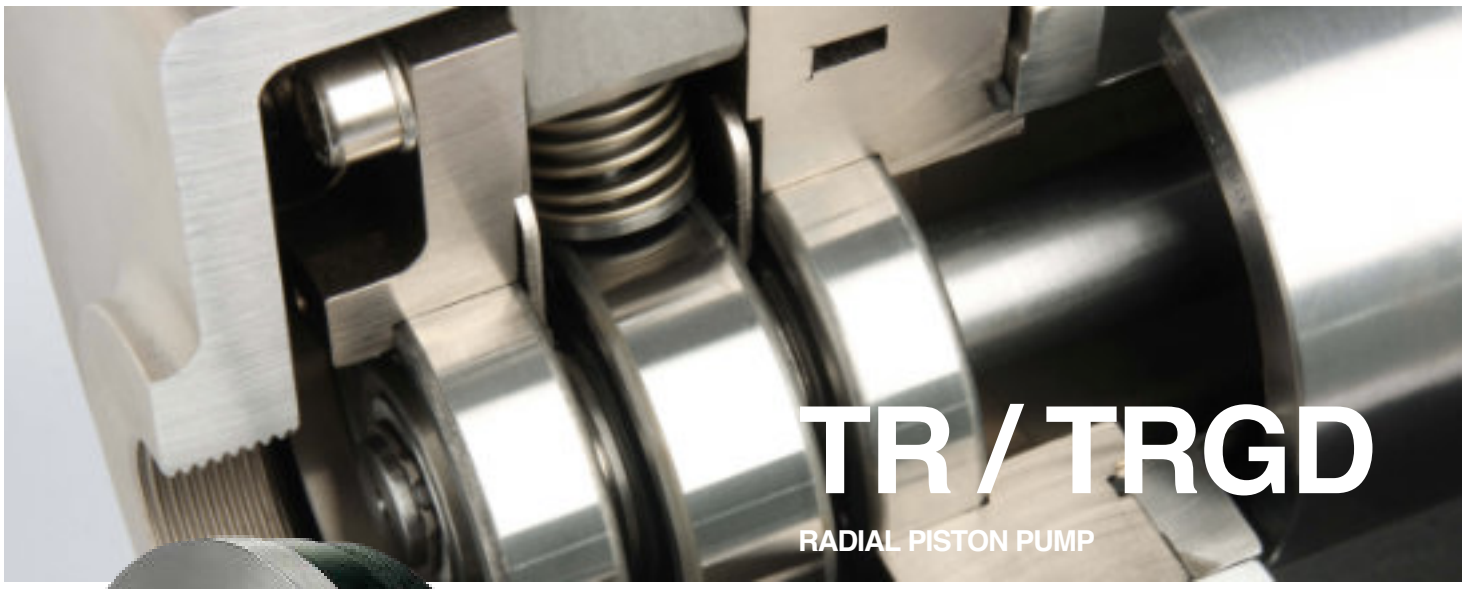

TR / TRGD

RADIAL PISTON PUMP

The TR / TRG radial piston pump was designed for the high pressure range up to 700 bar and for uncritical, clear media. The pump is also available in the TRD / TRGD versions including coated pistons for poorly and non-lubricating media. Additionally, various seals can be assembled to meet the different requirements (triple shaft seal with block chamber, mechanical seal with block chamber or magnetic coupling).

OPERATING CONDITIONS

SPEED
300 – 2,000rpm
(Depending on the respective operating conditions)

PUMP PRINCIPLE
Radial piston

ROTATION
Clockwise (cw), right
Counterclockwise (ccw), left

VISCOSITY
0.4 – 2,000 mPa·s
(Depending on the respective operating conditions)

DISPLACEMENTS CC/REV
0.42 up to 42.88cc/rev

TEMPERATURE
-20°C up to +150°C

PRESSURE
Operating pressure 200 - 700 bar

(Because of its valve-checked radial piston design it will require an inlet pressure of min. 2 bar)

MATERIALS
Steel wear and wetted parts, with cast iron body

COMMON APPLICATIONS
Test Stands
High pressure hydraulics
High pressure dosing - metering of isocyanate, catalyst or additives

HIGHLIGHTS
- High pressures
- Low flow range
- Multiple sealing options

DISPLACEMENT SIZES & SPECIFICATION

Piston dia	cc per piston	No. of pistons	3	4	5	6	7	8	Pressure
(mm)			Flow in cc/rev at the number pistons shown						(Bar)
5	0,14	1 Stage	0,42	0,56	0,70	0,84	0,98	1,12	700
6	0,20		0,60	0,80	1,00	1,20	1,40	1,60	700
8	0,32		1,14	1,52	1,90	2,28	2,66	3,04	550
10	0,59		1,77	2,36	2,95	3,54	4,13	4,72	450
12	0,89		2,58	3,44	4,30	5,16	6,02	6,88	350
13	1,00		3,00	4,00	5,00	6,00	7,00	8,00	300
14	1,17		3,51	4,68	5,85	7,02	8,19	9,36	250
15	1,34		4,02	5,36	6,70	8,04	9,38	10,72	200
Piston dia	cc per piston	No. of pistons	6	8	10	12	14	16	Pressure
(mm)			Flow in cc/rev at the number pistons shown						(Bar)
5	0,14	2 Stage	0,84	1,12	1,40	1,68	1,96	2,24	700
6	0,20		1,20	1,60	2,00	2,40	2,80	3,20	700
8	0,32		2,28	3,04	3,80	4,56	5,32	6,08	550
10	0,59		3,54	4,72	5,90	7,08	8,26	9,44	450
12	0,89		5,16	6,88	8,60	10,32	12,04	13,76	350
13	1,00		6,00	8,00	10,00	12,00	14,00	16,00	300
14	1,17		7,02	9,36	11,70	14,04	16,38	18,72	250
15	1,34		8,04	10,72	13,40	16,08	18,76	21,44	200
Piston dia	cc per piston	No. of pistons	9	12	15	18	21	24	Pressure
(mm)			Flow in cc/rev at the number pistons shown						(Bar)
5	0,14	3 Stage	1,26	1,68	2,10	2,52	2,94	3,36	700
6	0,20		1,80	2,40	3,00	3,60	4,20	4,80	700
8	0,32		3,42	4,56	5,70	6,84	7,98	9,12	550
10	0,59		5,31	7,08	8,85	10,62	12,39	14,16	450
12	0,89		7,74	10,32	12,90	15,48	18,06	20,64	350
13	1,00		9,00	12,00	15,00	18,00	21,00	24,00	300
14	1,17		10,53	14,04	17,55	21,06	24,57	28,08	250
15	1,34		12,06	16,08	21,10	24,12	28,14	32,16	200
Piston dia	cc per piston	No. of pistons	12	16	20	24	28	32	Pressure
(mm)			Flow in cc/rev at the number pistons shown						(Bar)
5	0,14	4 Stage	1,68	2,24	2,80	3,36	3,90	4,48	700
6	0,20		2,40	3,20	4,00	4,80	5,60	6,40	700
8	0,32		4,56	6,08	7,60	9,12	10,64	12,16	550
10	0,59		7,08	9,44	11,80	14,16	16,52	18,88	450
12	0,89		10,32	13,76	17,20	20,64	24,08	27,52	350
13	1,00		12,00	16,00	20,00	24,00	28,00	32,00	300
14	1,17		14,04	18,72	23,40	23,40	32,76	37,44	250
15	1,34		16,08	21,44	26,80	26,80	37,52	42,88	200