



✓ We have been certified
by Turolla to build and test D Series
cast iron gear pumps



Advantages at a glance:

- Individual and flexible assembly of the units
- "Cut-in" procedure due to own bench test
- Large selection ex warehouse
- Own type plate available on customer's request
- Single and multiple pumps in various designs
- Short lead times
- Customized models using standard features
- Over 480 single pump models to choose from
- Over 23000 tandem pump models to choose from

>> [More information on our cast iron pumps and motors](#)

Technical features:

- **Flange options:** SAE "A" 2-hole, SAE "B" 2-hole
- **Shaft design:** cylindrical, tapered and toothed with 9, 11 & 13 teeth
- **Hydraulic connectors:** O-ring boss, BSPP and SAE flange connectors
- **Delivery volume:** Wide selection of cubic capacities from 7 ccm – 45 ccm
- **Maximum pressure:** Up to 276 bar *
– short peak pressure period up to 303 bar *
- **Maximum speed:** Up to 3400 rpm *
- **Admissible temperature range:** -40°C to +115°C *

* depending on cubic capacity

Technical Details

D-Pumps

Leistung / Ratings	Einheiten/ Units	07	10	11	13	14	17	19	21	23	25	29	32	36	38	41	45
Fördervolumen	cm ³ /rev	7.0	9.5	10.8	12.6	14.3	17.0	19.0	20.5	22.5	25.4	29.0	31.8	36.1	38.0	41.0	45.1
Displacement	in ³ /rev	0.43	0.58	0.66	0.77	0.87	1.04	1.16	1.25	1.37	1.55	1.77	1.94	2.20	2.32	2.50	2.75
Nenndruck	bar	276	276	276	276	276	276	276	276	276	276	276	276	241	228	207	190
Rated pressure	psi	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3500	3300	3000	2750
Maximaldruck	bar	303	303	303	303	303	303	303	303	303	303	303	303	265	250	228	209
Peak pressure	psi	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400	3850	3630	3300	3025
Drehzahl (U/min)	maximum	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3200	3000	2750	2750	2500	2500
Speed min ⁻¹ (rpm)	minimum*	1200	900	900	700	700	600	600	600	600	600	600	600	600	600	600	600
Fördermenge (theor.) bei max. Geschwindigkeit	l/min	24.0	32.3	36.7	42.9	48.5	57.9	64.6	69.6	76.3	86.4	92.8	95.4	99.0	104.5	102.4	112.7
Theoretical flow at max speed	US gal/min	6.3	8.5	9.7	11.3	12.8	15.3	17.1	18.4	20.2	22.8	24.5	25.2	26.2	27.6	27.1	29.8
Gewicht	kg	7.2	7.3	7.4	7.5	7.6	7.8	7.9	7.9	8.1	8.3	8.4	8.6	8.8	9.0	9.1	9.4
Weight	lb	15.8	16.1	16.3	16.5	16.7	17.1	17.4	17.5	17.8	18.2	18.6	19.0	19.6	19.8	20.2	20.7
Massenträgheitsmoment	x10 ⁻⁶ kg·m ²	60	71	77	85	92	104	105	119	128	141	157	170	188	197	218	228
Mass moment of inertia	x10 ⁻⁶ slug·ft ²	44	53	57	63	68	77	77	88	95	104	116	125	139	145	155	168

* min. Drehzahl bei Maximaldruck
* minimum speed at maximum pressure

D-Motors

Leistung / Ratings	Einheiten/ Units	14	17	19	21	23	25	29	32	36	38	41	45
Fördervolumen	cm ³ /rev	14.9	17.6	19.9	22.4	23.2	26.2	30.6	34.4	38.6	40.9	42.9	48.3
Displacement	in ³ /rev	0.91	1.08	1.22	1.37	1.42	1.6	1.87	2.1	2.36	2.5	2.62	2.95
Nenndruck	bar	276	276	276	276	276	276	276	276	276	276	241	210
Rated pressure	psi	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3495	3045
Maximaldruck	bar	303	303	303	303	303	303	303	303	303	303	265	231
Peak pressure	psi	4400	4400	4400	4400	4400	4400	4400	4400	4400	4400	3843	3350
zul. Höchst-drehzahl	maximum	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3000	3000
Speed at rated pressure	minimum*	600	600	600	600	600	600	600	600	600	600	600	600
Anlaufgeschwindigkeit mit 68,9 bar	U/min	400	400	400	400	400	400	400	400	400	400	400	400
Start speed at 1000 PSI	/rpm	400	400	400	400	400	400	400	400	400	400	400	400
Normgewicht	kg	8.46	8.53	8.66	8.80	8.94	9.07	9.38	9.53	9.84	9.93	10.16	10.43
Standard Weight	lb	18.7	18.8	19.1	19.4	19.7	20.0	20.7	21.0	21.7	21.9	22.4	23.0
Massenträgheitsmoment (interne rotierende Bauteile)	x10 ⁻⁶ kg·m ²	113	127	138	146	156	172	191	206	228	239	255	276
mass moment of inertia (internal rotating components)	x10 ⁻⁶ slug·ft ²	83	94	102	107	115	127	141	152	168	176	188	204
Drehmoment bei Nenn- druck	N·m	62.6	65.7	73.4	79.2	87.0	98.2	112.1	122.9	139.6	146.9	138.4	132.4
Theoretical torque at rated pressure	lbf·ft	46.2	48.5	54.2	58.4	64.2	72.4	82.7	90.7	102.9	108.3	102.1	97.6
Nenn-drehzahl	kW	22.3	23.4	26.1	28.2	31.0	35.0	39.9	43.8	49.7	46.1	43.5	41.6
Theoretical power at rated speed	hp	29.9	31.2	34.9	37.6	41.3	46.6	53.2	58.4	66.3	61.1	58.0	55.5
Leckflüssigkeitsdruck	bar	5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Case drain pressure	psi	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5

* min. Drehzahl bei Maximaldruck
* minimum speed at maximum pressure

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