



OPERATING CONDITIONS

SPEED

10 - 1,750 rpm (Depending on the respective operating conditions)

PUMP PRINCIPLE

External spur gears

ROTATION

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

VISCOSITY

 $0.8 - 1,000,000 \, \text{ mPa·s}$ (Depending on the respective operating conditions)

DISPLACEMENTS CC/REV

See chart on page 5.

TEMPERATURE

-20°C up to +150°C (standard version) Special designs are available up to 350°C

PRESSURE

are typically achieved.

Operating pressure max. 200 bar Varies with size and material specification. See chart on page 5 for details.

MATERIALS

316 stainlesssteel body with 440B wear parts, or cast iron body with hardened steel wear parts.

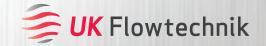
seal options and multiple bearing and wear plate choices. ZPD gear pumps are specifically used for wide flow range metering applications and transfer applications. Volumetric efficiency values of over 90%

COMMON APPLICATIONS

Metering of polyurethanes, isocyanate, polyol, catalyst, additives, silicones, adhesives, oils and diesel fuel

HIGHLIGHTS

- Low-pulsationand precise dosing of the medium being transferred
- · High pressures
- Largeflow range
- · Multiple constructionmaterial options
- Multiple sealingoptions



DISPLACEMENT SIZES & SPECIFICATION

Size	Displacements cc/rev	Operating pressure		Flowrate [l/min] at		
		bar		1,750 rpm 600 rpm 300 rpm		
		KIS	KIN	<200 mPa⋅s	<2,000 mPa⋅s	<10,000 mPa·s
1	0.30			0.53	0.18	0.09
1	0.50			0.88	0.30	0.15
1	0.87			1.52	0.52	0.26
1	1.17	180	40	2.05	0.70	0.35
1	1.46			2.56	0.88	0.44
1	1.90			3.33	1.14	0.57
1	2.50			4.38	1.50	0.75
1	3.20			5.60	1.92	0.96
1	3.80			6.65	2.28	1.14
1	5.10			8.93	3.06	1.53
1	7.30			12.78	4.38	2.19
2	3.90			6.83	2.34	1.17
2	7.80	180	40	13.65	4.68	2.34
2	11.80			20.65	7.08	3.54
2	15.70			27.48	9.42	4.71
2	19.60			34.30	11.76	5.88
2	23.60			41.30	14.16	7.08
3	17.30	160	40	30.28	10.38	5.19
3	22.00			38.50	13.20	6.60
3	29.40			51.45	17.64	8.82
3	37.40			65.45	22.44	11.22
3	45.40			79.45	27.24	13.62
3	60.00			105.00	36.00	18.00
3	72.00	140		126.00	43.20	21.60
4	44.40		40	77.70	26.64	13.32
4	57.90	180		101.33	34.74	17.37
4	74.50			130.38	44.70	22.35
4	89.30			156.28	53.58	26.79
4	110.00			192.50	66.00	33.00
4	131.00			229.25	78.60	39.30
4	149.00			260.75	89.40	44.70
4	166.80			291.90	100.08	50.04
4	184.60			323.05	110.76	55.38
4	223.00	120	40	390.25	133.80	66.90
4	236.00			413.00	141.60	70.80
4	280.00			490.00	168.00	84.00
4	316.00			553.00	189.60	94.80
4	354.00			619.50	212.40	106.20
4	400.00			700.00	240.00	120.00
4	434.00			759.50	260.40	130.20
4	472.00	50		826.00	283.20	141.60
4	517.00			904.75	310.20	155.10
	017.00			004.70	010.20	100.10

Sizesup to 2,600 cc/rev available on request.