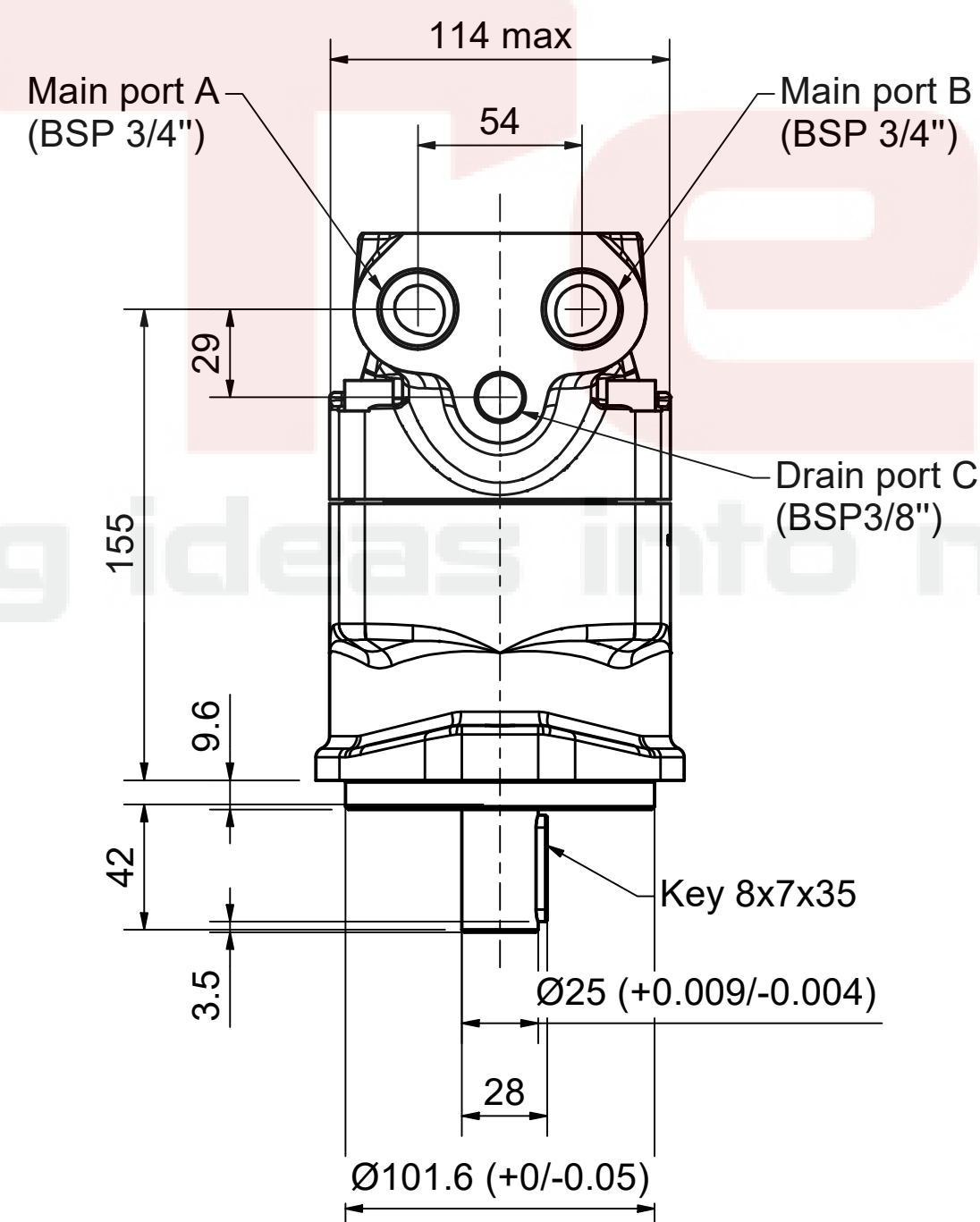
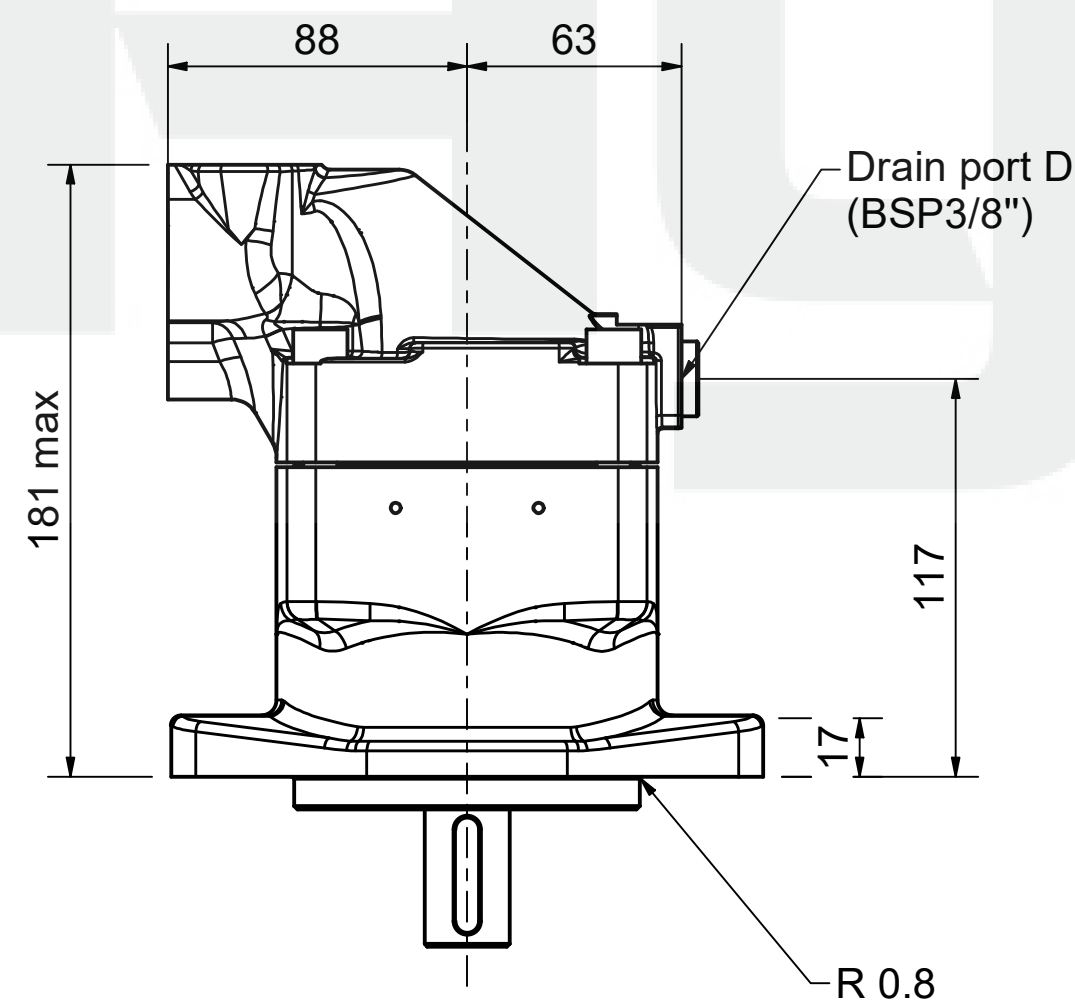
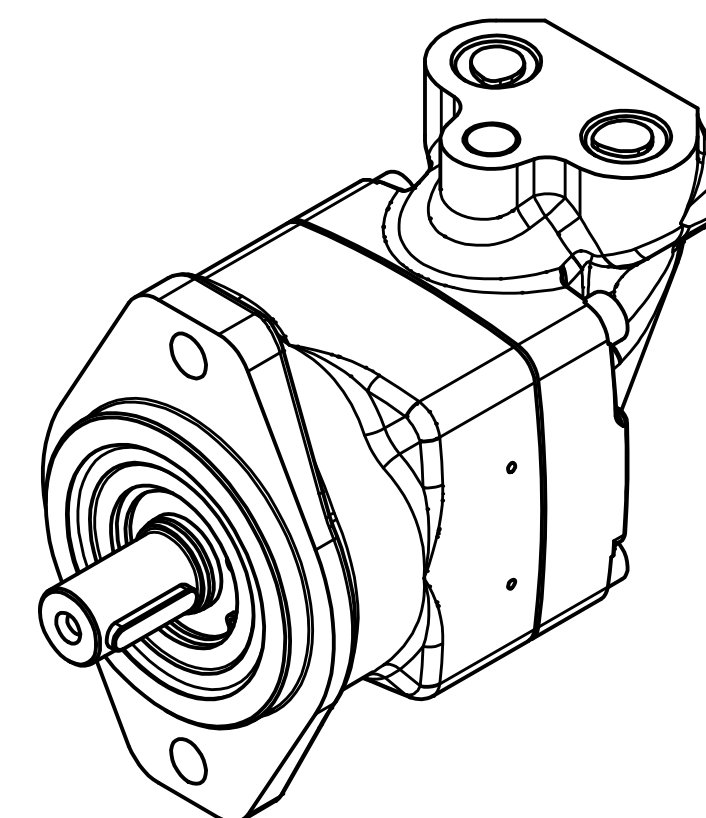
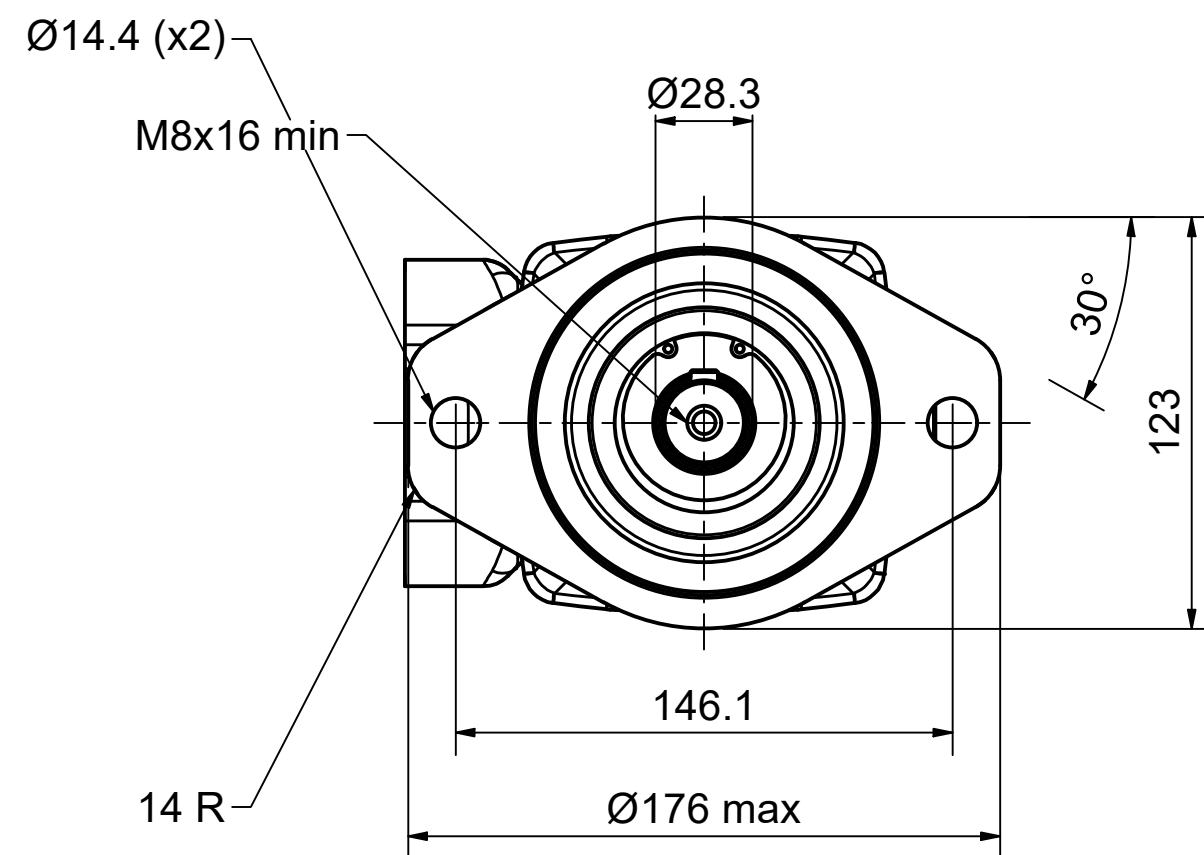




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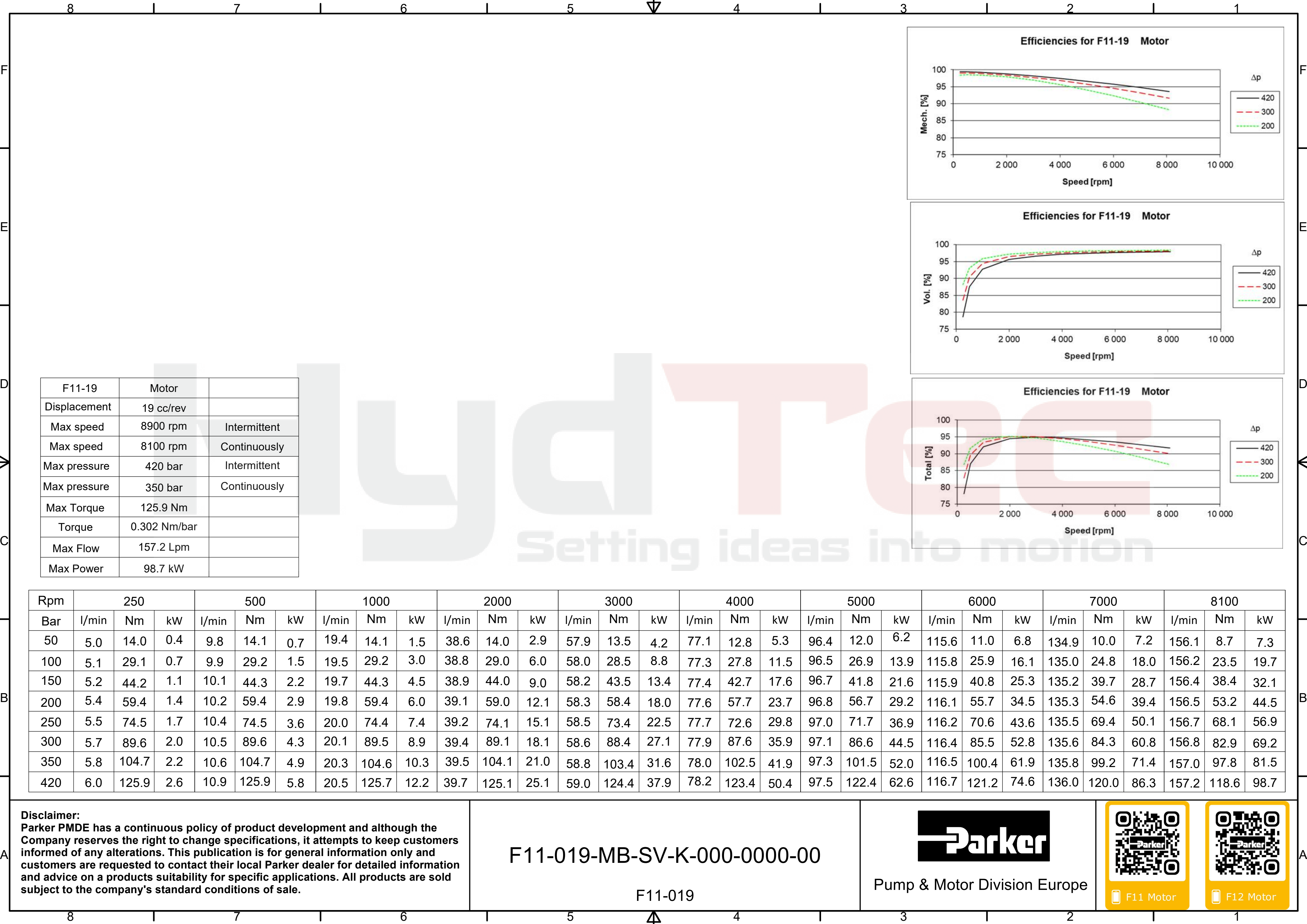
Pump & Motor Division Europe



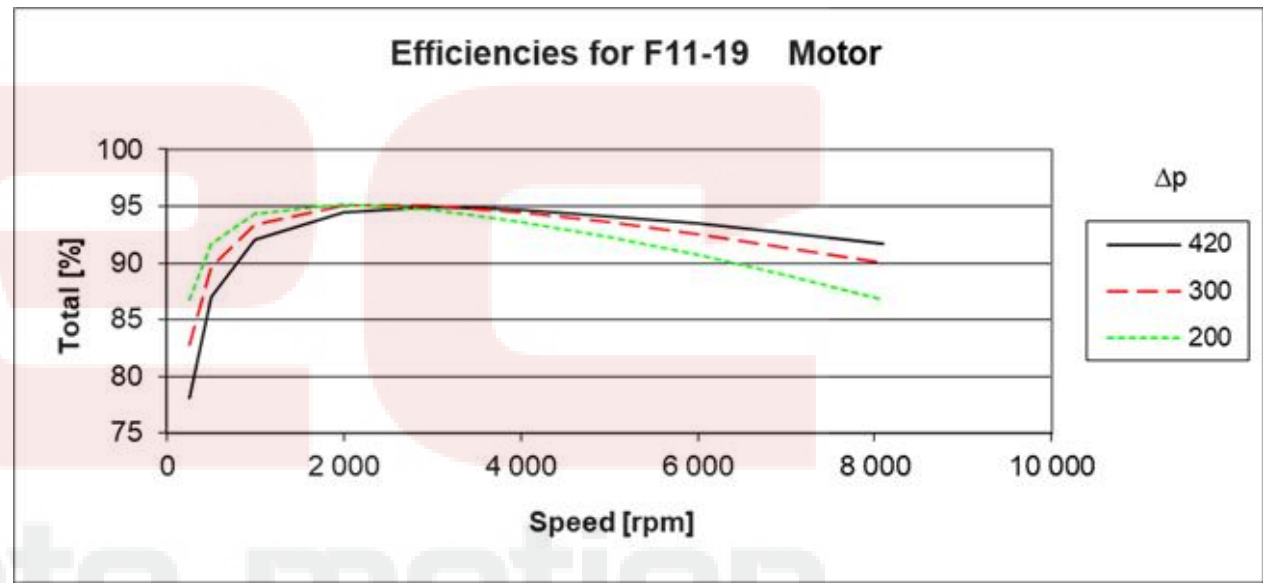
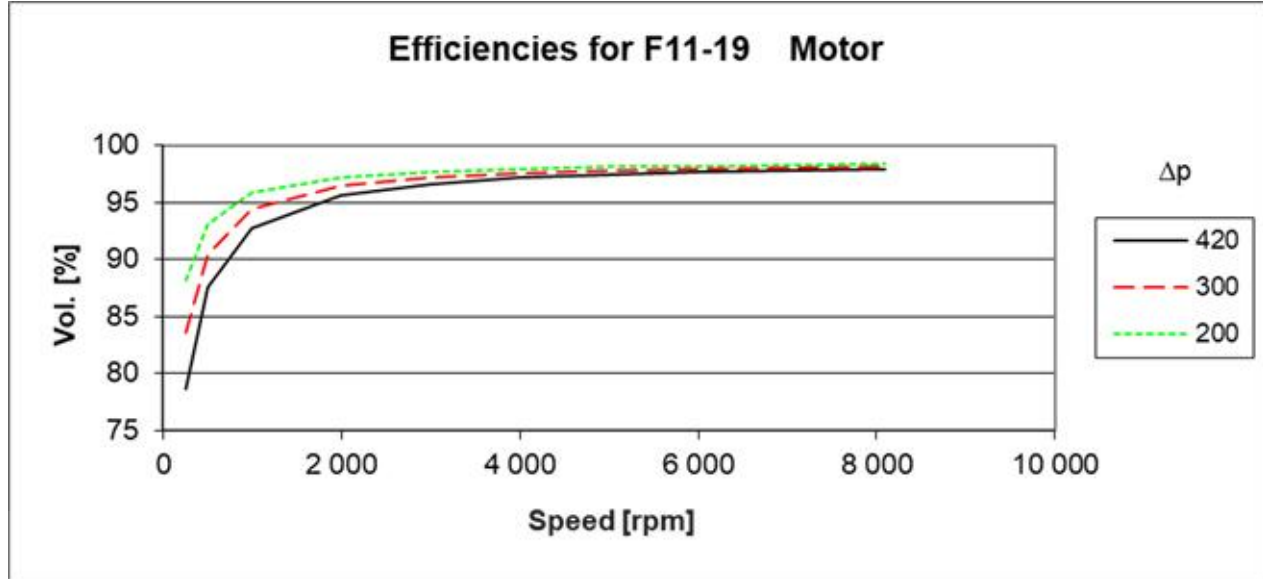
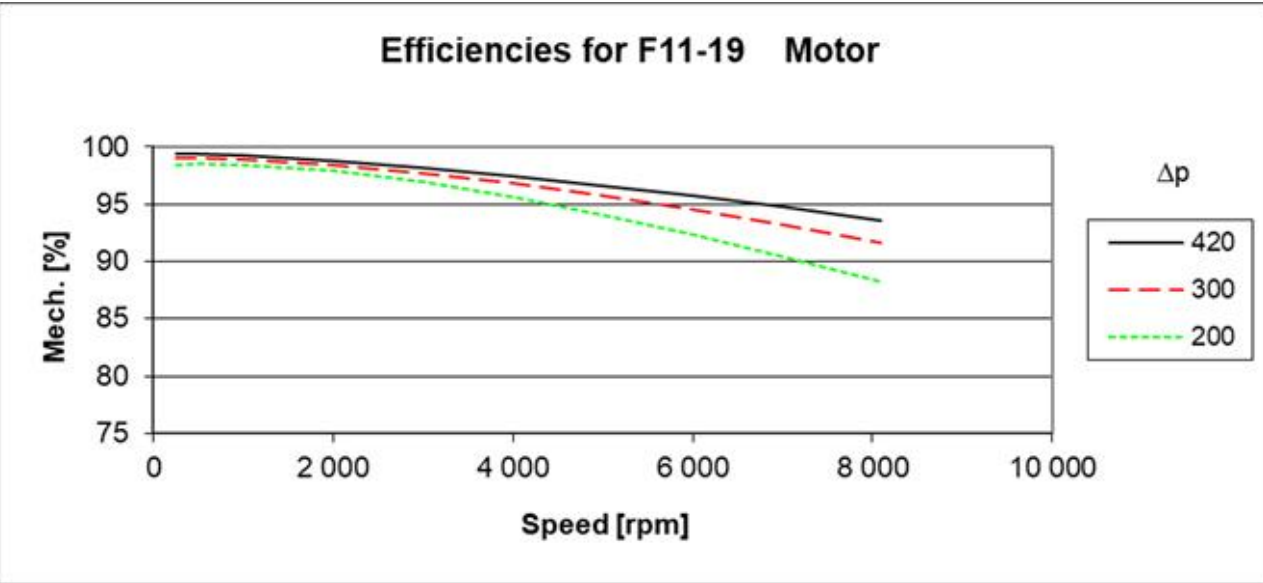
F11 Motor



F12 Motor



F11-19	Motor	
Displacement	19 cc/rev	
Max speed	8900 rpm	Intermittent
Max speed	8100 rpm	Continuously
Max pressure	420 bar	Intermittent
Max pressure	350 bar	Continuously
Max Torque	125.9 Nm	
Torque	0.302 Nm/bar	
Max Flow	157.2 Lpm	
Max Power	98.7 kW	



Rpm	250			500			1000			2000			3000			4000			5000			6000			7000			8100		
Bar	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW	l/min	Nm	kW
50	5.0	14.0	0.4	9.8	14.1	0.7	19.4	14.1	1.5	38.6	14.0	2.9	57.9	13.5	4.2	77.1	12.8	5.3	96.4	12.0	6.2	115.6	11.0	6.8	134.9	10.0	7.2	156.1	8.7	7.3
100	5.1	29.1	0.7	9.9	29.2	1.5	19.5	29.2	3.0	38.8	29.0	6.0	58.0	28.5	8.8	77.3	27.8	11.5	96.5	26.9	13.9	115.8	25.9	16.1	135.0	24.8	18.0	156.2	23.5	19.7
150	5.2	44.2	1.1	10.1	44.3	2.2	19.7	44.3	4.5	38.9	44.0	9.0	58.2	43.5	13.4	77.4	42.7	17.6	96.7	41.8	21.6	115.9	40.8	25.3	135.2	39.7	28.7	156.4	38.4	32.1
200	5.4	59.4	1.4	10.2	59.4	2.9	19.8	59.4	6.0	39.1	59.0	12.1	58.3	58.4	18.0	77.6	57.7	23.7	96.8	56.7	29.2	116.1	55.7	34.5	135.3	54.6	39.4	156.5	53.2	44.5
250	5.5	74.5	1.7	10.4	74.5	3.6	20.0	74.4	7.4	39.2	74.1	15.1	58.5	73.4	22.5	77.7	72.6	29.8	97.0	71.7	36.9	116.2	70.6	43.6	135.5	69.4	50.1	156.7	68.1	56.9
300	5.7	89.6	2.0	10.5	89.6	4.3	20.1	89.5	8.9	39.4	89.1	18.1	58.6	88.4	27.1	77.9	87.6	35.9	97.1	86.6	44.5	116.4	85.5	52.8	135.6	84.3	60.8	156.8	82.9	69.2
350	5.8	104.7	2.2	10.6	104.7	4.9	20.3	104.6	10.3	39.5	104.1	21.0	58.8	103.4	31.6	78.0	102.5	41.9	97.3	101.5	52.0	116.5	100.4	61.9	135.8	99.2	71.4	157.0	97.8	81.5
420	6.0	125.9	2.6	10.9	125.9	5.8	20.5	125.7	12.2	39.7	125.1	25.1	59.0	124.4	37.9	78.2	123.4	50.4	97.5	122.4	62.6	116.7	121.2	74.6	136.0	120.0	86.3	157.2	118.6	98.7

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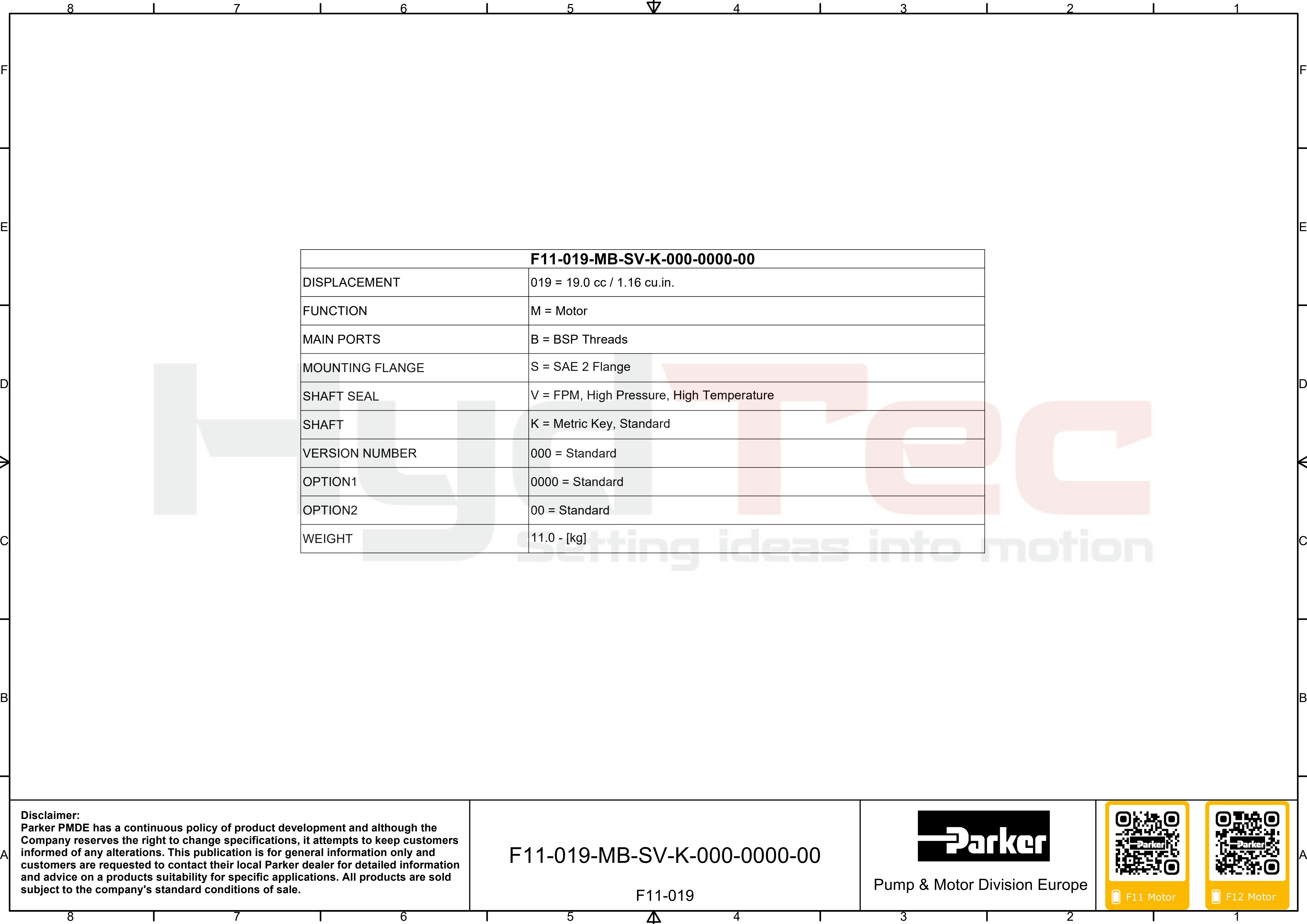
Pump & Motor Division Europe



F11 Motor



F12 Motor



F11-019-MB-SV-K-000-0000-00	
DISPLACEMENT	019 = 19.0 cc / 1.16 cu.in.
FUNCTION	M = Motor
MAIN PORTS	B = BSP Threads
MOUNTING FLANGE	S = SAE 2 Flange
SHAFT SEAL	V = FPM, High Pressure, High Temperature
SHAFT	K = Metric Key, Standard
VERSION NUMBER	000 = Standard
OPTION1	0000 = Standard
OPTION2	00 = Standard
WEIGHT	11.0 - [kg]

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Pump & Motor Division Europe



F11 Motor



F12 Motor