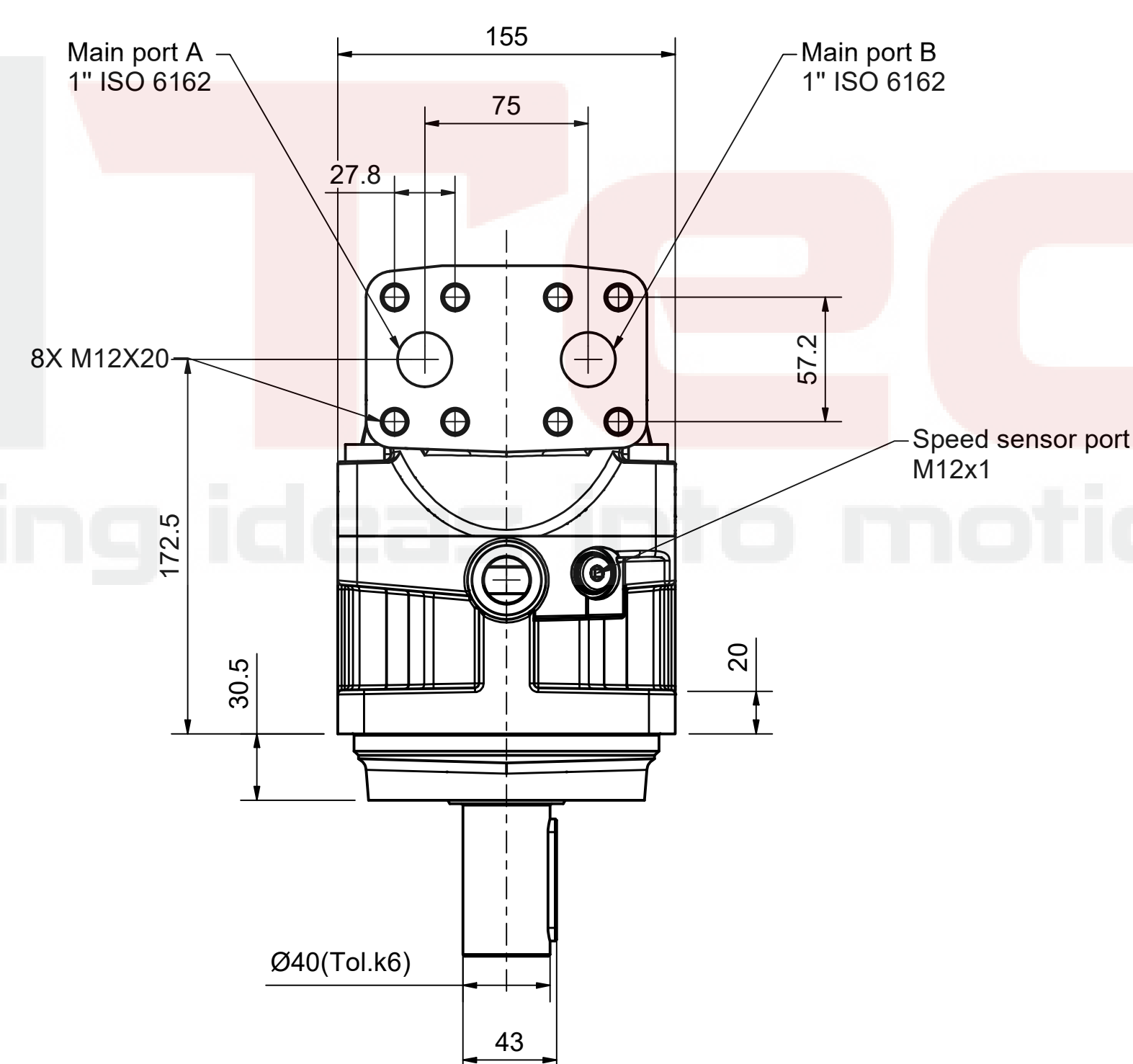
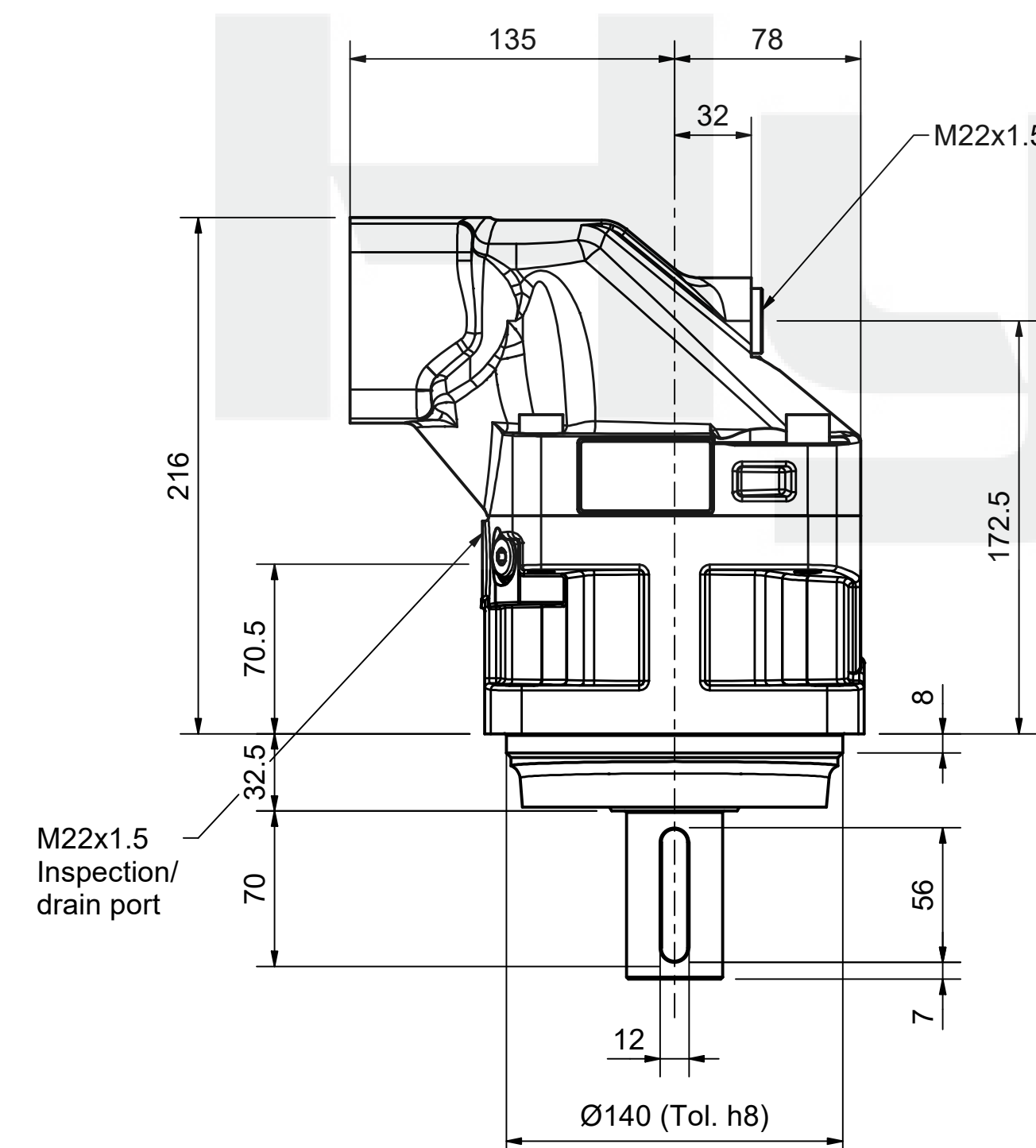
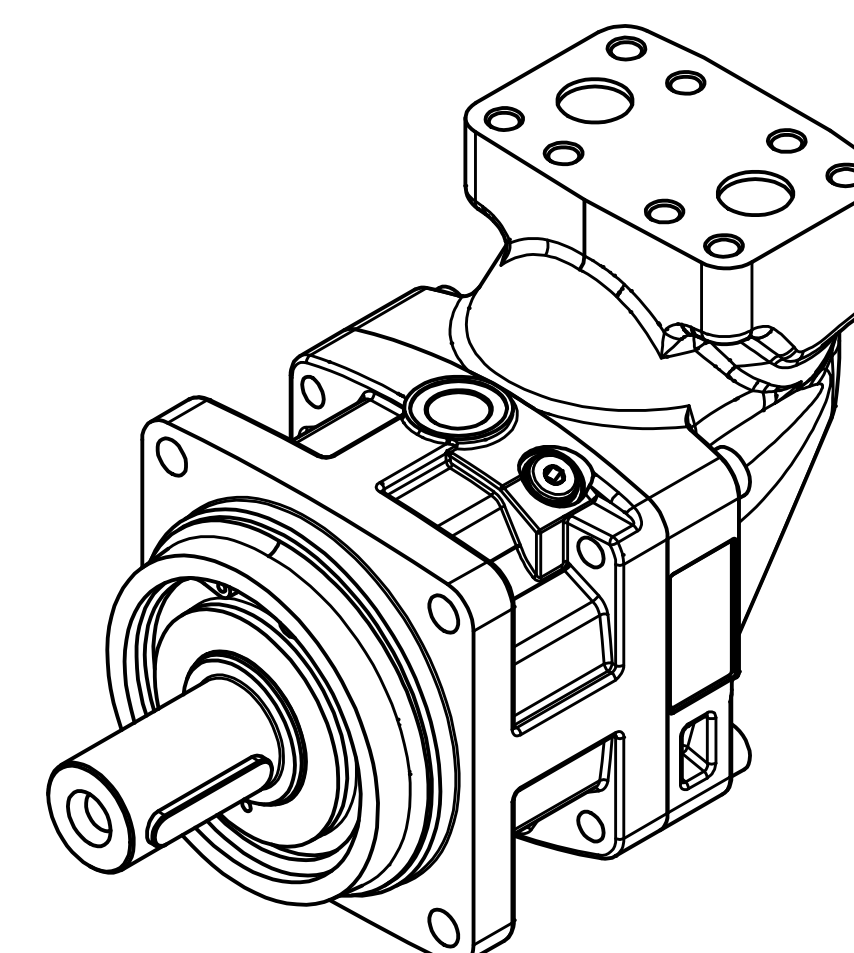
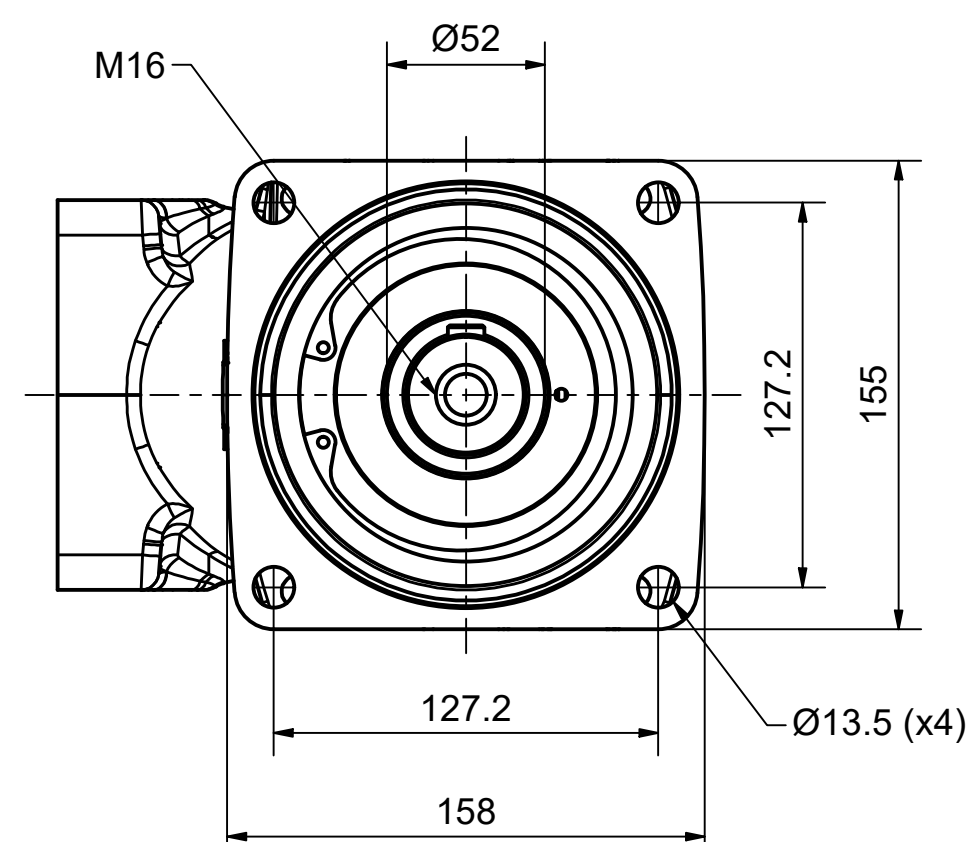




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Pump & Motor Division Europe

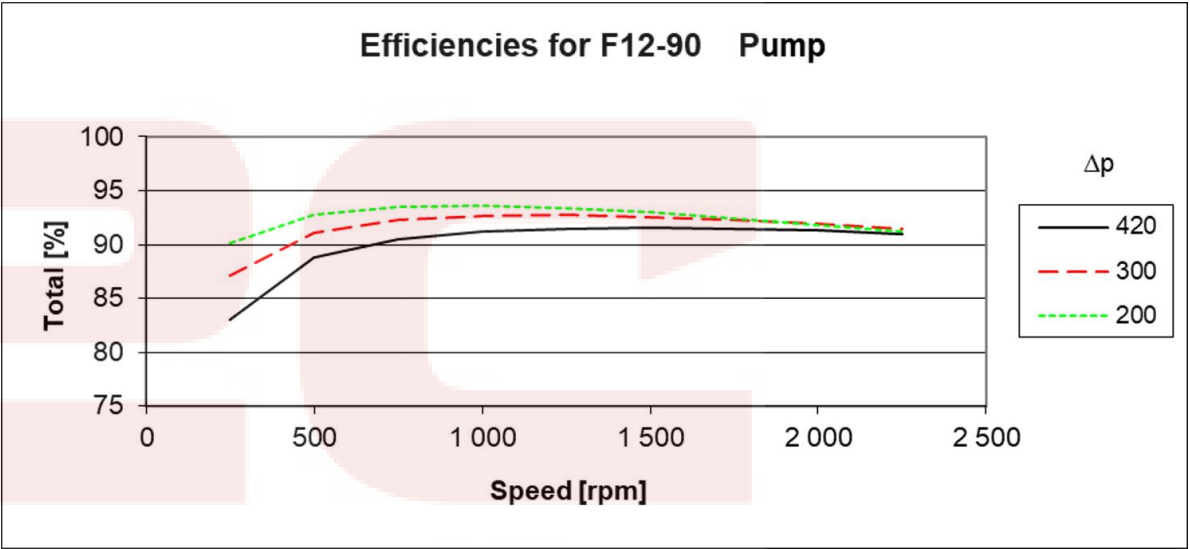
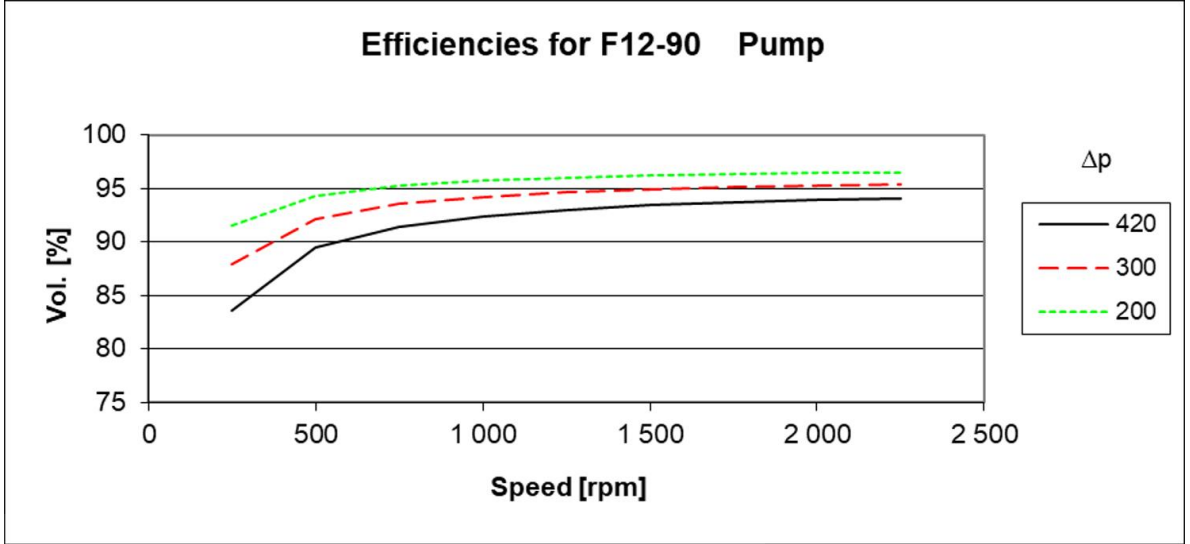
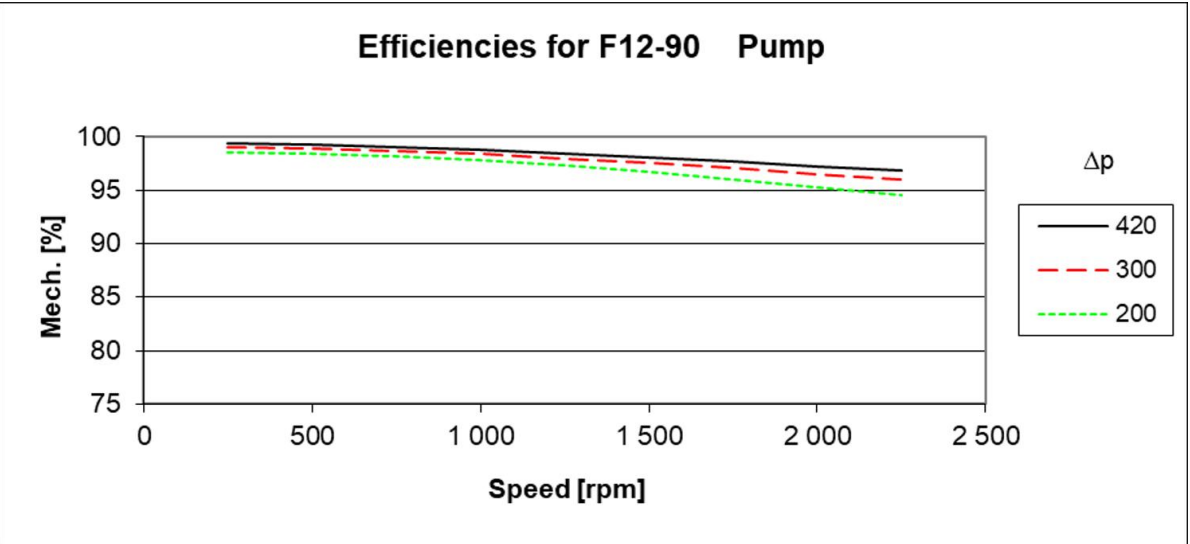


F11 Pump



F12 Pump

F12-90	Pump	
Displacement	93 cc/rev	
Max speed	2250 rpm	Intermittent
Max speed	2250 rpm	Continuously
Max pressure	420 bar	Intermittent
Max pressure	350 bar	Continuously
Max Torque	640.7 Nm	
Torque	1.476 Nm/bar	
Max Flow	205.3 Lpm	
Max Power	160.9 kW	



Rpm	250			500			750			1000			1250			1500			1750			2000			2250		
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
50	22.5	78.7	2.1	45.4	78.5	4.2	68.2	78.8	6.3	91.1	79.7	8.5	113.9	80.9	10.8	136.8	82.4	13.2	159.6	84.3	15.8	182.5	205.3	18.5	205.3	88.7	21.4
100	22.1	152.4	4.2	44.9	152.3	8.3	67.6	152.8	12.4	90.4	153.8	16.6	113.2	155.1	20.9	135.9	156.8	25.3	158.7	158.7	29.9	181.4	204.2	34.6	204.2	163.3	39.5
150	21.7	226.1	6.4	44.4	226.2	12.4	67.0	226.8	18.6	89.7	227.9	24.8	112.4	229.4	31.1	135.0	231.1	37.6	157.7	233.2	44.2	180.4	203.1	51.0	203.1	237.9	57.9
200	21.3	299.8	8.6	43.9	300.0	16.7	66.4	300.8	24.9	89.0	302.0	33.1	111.6	303.6	41.5	134.2	305.5	50.0	156.7	307.6	58.7	179.3	201.9	67.5	201.9	312.5	76.5
250	20.9	373.5	10.9	43.4	373.9	21.1	65.8	374.8	31.3	88.3	376.1	41.6	110.8	377.8	52.0	133.3	379.8	62.6	155.8	382.0	73.3	178.3	200.8	84.2	200.8	387.1	95.3
300	20.4	447.2	13.3	42.8	447.7	25.5	65.2	448.8	37.8	87.6	450.3	50.2	110.0	452.1	62.7	132.4	454.1	75.4	154.8	456.5	88.2	177.2	199.6	101.2	199.6	461.7	114.4
350	20.0	520.9	15.9	42.3	521.6	30.1	64.6	522.8	44.4	86.9	524.4	58.9	109.2	526.3	73.5	131.5	528.5	88.3	153.8	530.9	103.2	176.1	198.4	118.3	198.4	536.3	133.6
400	19.6	594.6	18.5	41.8	595.5	34.8	64.0	596.8	51.2	86.2	598.5	67.8	108.4	600.5	84.5	130.7	602.8	101.4	152.9	605.3	118.4	175.1	197.3	135.6	197.3	610.9	153.1
420	19.4	624.0	19.6	41.6	625.0	36.7	63.8	626.4	53.9	86.0	628.1	71.4	108.1	630.2	88.9	130.3	632.5	106.7	152.5	635.1	124.6	174.6	196.8	142.6	196.8	640.7	160.9

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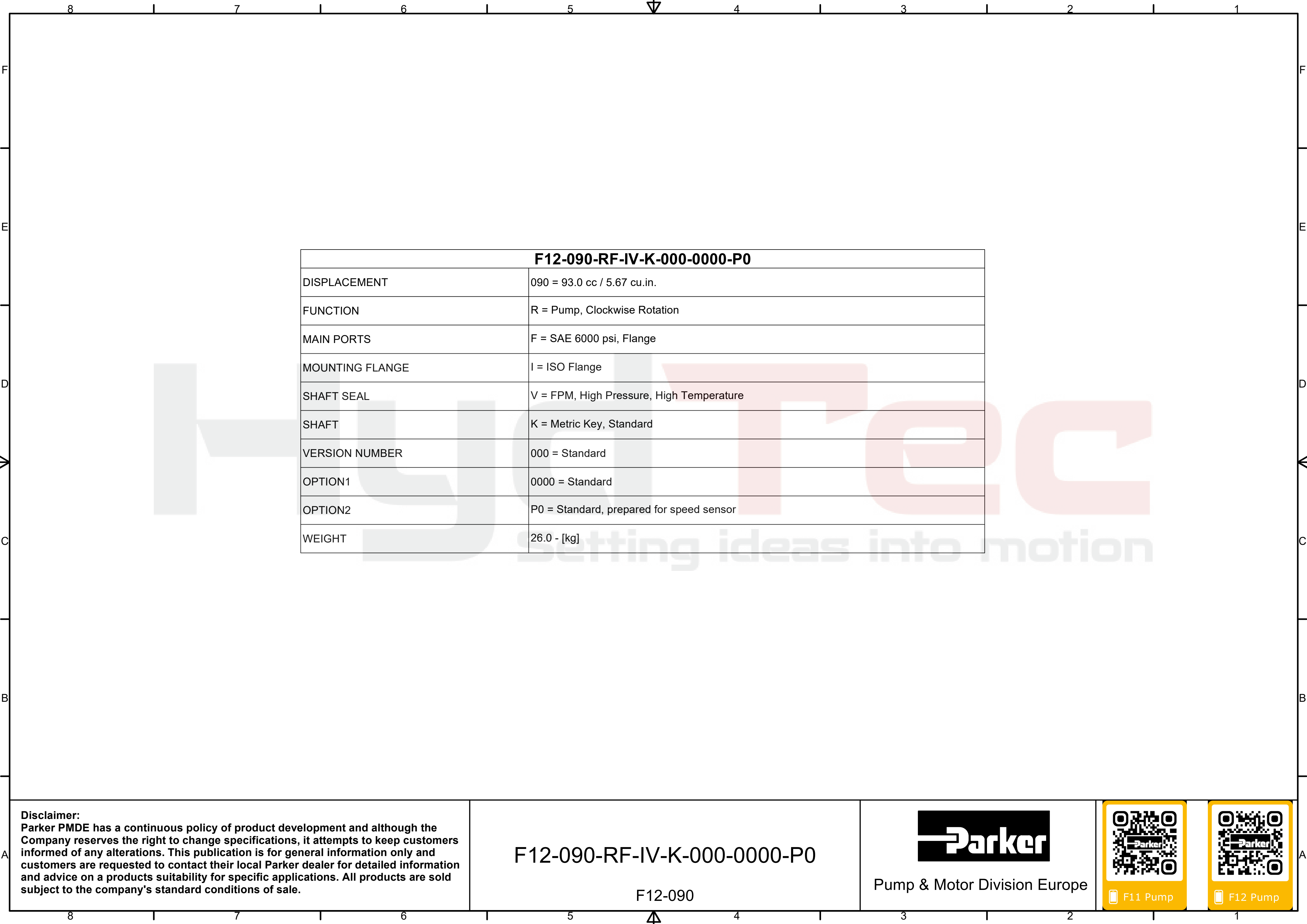
Pump & Motor Division Europe



F11 Pump



F12 Pump



F12-090-RF-IV-K-000-0000-P0	
DISPLACEMENT	090 = 93.0 cc / 5.67 cu.in.
FUNCTION	R = Pump, Clockwise Rotation
MAIN PORTS	F = SAE 6000 psi, Flange
MOUNTING FLANGE	I = ISO Flange
SHAFT SEAL	V = FPM, High Pressure, High Temperature
SHAFT	K = Metric Key, Standard
VERSION NUMBER	000 = Standard
OPTION1	0000 = Standard
OPTION2	P0 = Standard, prepared for speed sensor
WEIGHT	26.0 - [kg]

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F11 Pump



F12 Pump