## **PB PAC**

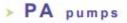






The PA, PAC pump series comprises two ranges, all designed for truck applications at working pressures up to 5800 psi (400 bar) continuous and 7252 psi (500 bar) peak.





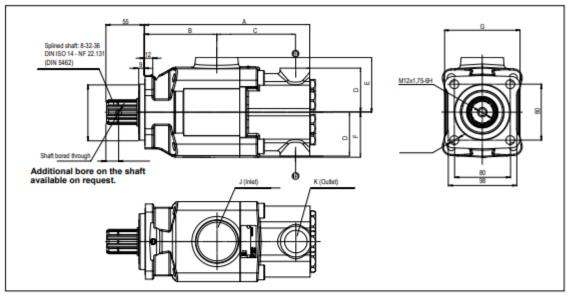
- single flow from 25 to 114 cc/rev
- twin-flow from 2x50 to 2x75 cc/rev
- two different flows: 75-40 cc/rev

# > PAC pumps

Series offering the most compact size envelope :

- single flow from 40 to 80 cc/rev
- twin-flow from 2x25 to 2x40 cc/rev





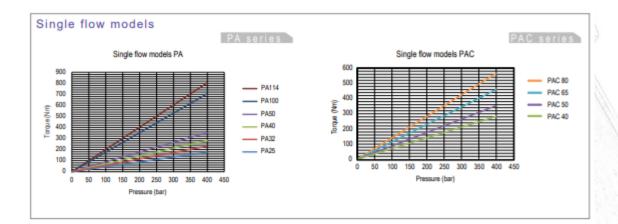
Pump reference		Displacement (cc/rev)		•	в	C	D	E	F	G	J	к	Weight (kg)	Overhang torque (N.m)	Max. speed (rpm)	Max. torque absorbed at 400 bar <sup>(1)</sup> (N.m)
Single	Single flow															
PA 25	0511510	25		261	102	126	47	78	64	107	G 1 1/2"	G 3/4"	15	17	2200	177
PA 32	0511515	34	-	261	102	126	47	78	64	107	G 1 1/2"	G 3/4"	15	17	2000	240
PA 40	0511520	43	-	261	102	126	47	78	64	107	G 1 1/2"	G 3/4"	15	17	1750	304
PA 50	0511525	50	-	261	102	126	47	78	64	107	G 1 1/2"	G 3/4"	15	17	1650	354
PA 100	0511565	104	-	290	123	138.8	69	90	69	124	G 2"	G 3/4"	23.5	31.5	1400	736
PA 114	0511570	114	-	290	123	138.8	69	90	69	124	G 2*	G 3/4"	23.5	31.5	1350	807
PAC 40	0511460	40	-	226	94.9	103.3	62	73.2	54	98	G 1 1/2"	G 3/4"	12.5	12.6	1800	283
PAC 50	0511465	50	-	226	94.9	103.3	62	73.2	54	98	G 1 1/2"	G 3/4"	12.5	12.6	1650	354
PAC 65	0511490	65	-	243	102.5	112.8	63	78	65	107	G 1 1/2"	G 3/4"	16	17.6	1500	460
PAC 80	0511705	78	-	247	102.5	116.3	63	78	65	107	G 1 1/2"	G 3/4"	17	21.3	1350	552
► Twin-f	Twin-flow - 2 x 3 pistons															
PA 2 x 50	0511555	52	52	290	123	138.8	69	90	69	124	G 2"	G 3/4"	23.5	31.5	1400	736 <sup>2)</sup>
PA 2 x 57	0511560	57	57	290	123	138.8	69	90	69	124	G 2"	G 3/4"	23.5	31.5	1350	807(2)
PA 2 x 75	0516100	75	75	302	126	147.8	72.5	90	72.5	135	G 2*	G 3/4"	26.8	38.7	1350	1062 <sup>(2)</sup>
PA 75-40	0516810	75	40	302	126	147.8	72.5	90	72.5	135	G 2"	G 3/4"	27.4	38.7	1350	807(2)
PAC 2 x 25	0511480	25	25	243	102.5	112.8	63	78	65	107	G 1 1/2"	G 3/4"	16	17.6	1750	354 <sup>(2)</sup>
PAC 2 x 32	0511485	32	32	243	102.5	112.8	63	78	65	107	G 1 1/2"	G 3/4"	16	17.6	1500	460 <sup>(2)</sup>
PAC 2 x 40	0511710	39	39	247	102.5	116.3	63	78	65	107	G 1 1/2"	G 3/4"	17	21.3	1350	552 <sup>(2)</sup>

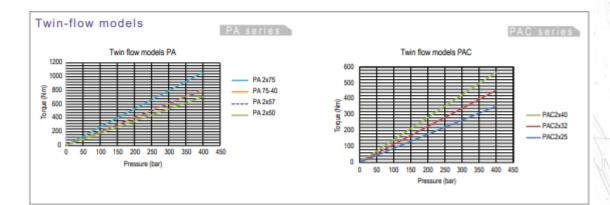
Maximum torque given with a mechanical efficiency at 90%.
Maximum torque for the two pressure ports at 400 bar.

Dimensions in mm.



#### Torque absorbed as a function of pump output pressure (with a mechanical efficiency considered at 90%)

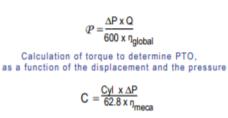




#### Calculation of power to be supplied to the shaft as a function of flow and pressure

P

С



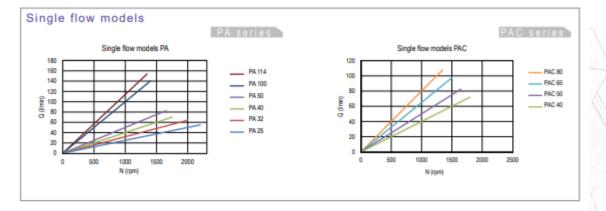
- = Hydraulic power in kW
- Q = Flow in I/min

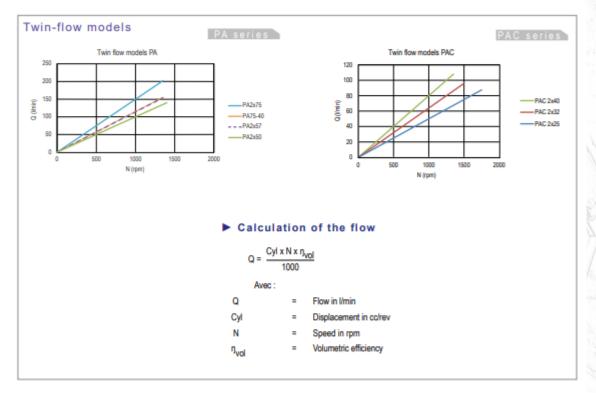
nglobal = Volumetric efficiency + mechanical efficiency

- = Torque in N.m
- Cyl = Displacement in cc/rev
- ΔP = Differential pressure at the pump terminals, in bar
- n<sub>meca</sub> = Mechanical efficiency



### Flow as a function of rotating speed





These graphs are the results of testwork done in HYDRO LEDUC R&D laboratory, on a specific test bench with a mineral hydraulic fluid ISO VG46 at 25°C (~100 cSt) - disregarding the volumetric efficiency. Volumetric efficiency

