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**Recommended Hydraulic Flows and Pressures**

Product:	All	Document No.	TB-011-F
Revision Date:	4/04/2025	Revision No.	F
Relevant Models / Variants / Serial Numbers:	All models as listed		

The following tables indicate the recommended flow and pressure figures for PTO and pump operated cranes. **All figures at 1000 RPM at the engine**

PTO and Pump must be selected on an individual basis according to the crane requirements and the truck specifications.

Cautions:

- Hino Alzon Automatic gearbox may require 1100 ERPM in order for the torque converter to engage. Always check the exact specification with the vehicle manufacturer.
- If gearbox has high and low split – ensure PTO and Pump is specified accordingly. Suggest fitting an isolator switch to automatically disengage PTO if gearbox is in wrong split.

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Model	Max Pressure (bar)	Recommended Flow (l/min)
ML 110	200	4-6
ML 150	210	6-8
ML 180	210	6-8
ML 230	200	8-10
ML 270	220	10-12
ML 280	220	10-12
ML 330	220	10-12
ML 380	220	12-15
ML 420	220	12-15
ML 400	230	15-18
ML 500	230	15-18
ML 510	230	15-18

Cobra

Model	Pressure (bar)	Flow (l/min)
3800	160	10
4400	195	10
5500	175	12
6600	195	16
8800	205	15-17
9700	210	15-20
11000	195	20-25
12000	210	22-25
14000	210	22-25

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**Hiab**

Model	Control System	Valve Bank	Flow (L/min)	Maximum Pressure (Bar)
X-044 Duo	Space X4	V30	10-15	240
X-046 HiDuo	SPACEevo	V80	15-20	240
X-058 Duo	SPACEevo	V80	25-30	240
X-062 HiDuo	SPACEevo	V80	30-40	260
X-072 HiDuo	SPACEevo	V80	30-40	310
X-082 HiDuo	SPACEevo	V80	45-55	303
X-108 HiDuo	SPACEevo	V80	45-55	310
X-108 HiDuo PLUS	SPACEevo	V80	45-55	310
X-118 HiDuo	SPACEevo	V80	45-55	330
iX 138 HiDuo	SPACEevo	V80	45-55	321
iX 158 HiDuo	SPACEevo	V80	45-55	321
iX 188 HiDuo	SPACEevo	V200	55-65	329
iX 228 HiDuo	SPACEevo	V200	65-75	329
iX 258 HiDuo	SPACEevo	V200	70-90	326
iX 298 HiDuo	SPACEevo	V200	70-90	326
eX 302 HiPro	SPACEevo	V200	90-120	335
X 352 HiPro	SPACEevo	V200 (load sense)	100-140	350
X 362 HiPro	SPACEevo	V200 (load sense)	100-140	350
X 358 HiPro	SPACEevo	V200 (load sense)	100-120	350
X 408 HiPro	SPACEevo	V200 (load sense)	100-120	370
X 418 HiPro	SPACEevo	V200 (load sense)	100-120	380

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**Effer H**

Model	Control System	Valve Bank	Suggested Flow (l/min)	Maximum Flow (l/min)	Maximum Pressure (Bar)
35	Hydraulic	Walvoil	12	12	205

Effer Space

Model	Control System	Valve Bank	Suggested Flow (l/min)	Maximum Flow (l/min)	Maximum Pressure (Bar)
65D	Space X4	V80	30	40	310
80D	Space X4	V80	45	55	303
80D PLUS	Space X4	V80	55	55	303
105D	Space X4	V80	45	55	310
105D PLUS	Space X4	V80	55	55	310
125HP	Space X4	V200	60	70	360
145HP	Space X4	V200	80	90	309
195 HP	SpaceEvo	V200	90	120	345
355HP	SpaceX4	V200	110	140	350

Effer Progress 2.0

Model	Control System	Valve Bank	Suggested Flow (l/min)	Maximum Flow (l/min)	Maximum Pressure (Bar)
175	Progress 2.0	Hawe	50	60	375
215	Progress 2.0	Hawe	80	100	360
265	Progress 2.0	Danfoss	65	80	350
315	Progress 2.0	Danfoss	80	100	340
395	Progress 2.0	Danfoss (LS)	90	100	355
525**	Progress 2.0	Danfoss	80	100	380
685**	Progress 2.0	Danfoss	80	100	350

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**Effer Progress 3.0**

Model	Control System	Valve Bank	Suggested Flow (l/min)	Maximum Flow (l/min)	Maximum Pressure (Bar)
175	Progress 3.0	Hawe	50	60	375
215	Progress 3.0	Hawe	80	100	360
265	Progress 3.0	Danfoss	65	80	350
315	Progress 3.0	Danfoss	80	100	350
395	Progress 3.0	Danfoss (LS)	90	100	355
525**	Progress 3.0	Danfoss	80	100	380
685**	Progress 3.0	Danfoss	80	100	340

**Cranes are factory order only. They may be specified for a variable displacement pump. Suggested flow rate for a variable displacement configuration could be as high as 90L/min.

Notes:**Flow Rate:**

The flow rates above are suggested based on hydraulic diagrams of the crane. Special cases may apply e.g. additional functions added to crane or operating in extreme climates.

Oil Cooler

If an oil cooler is NOT fitted to the crane, a lower flow rate may be considered if the idle time of the crane is less than one third of the cranes total running time.

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**Unic**

Series	Pump Type	Rated Pressure (Bar)	Rated Flow (l/min)	Rated Revolution	Adjusted Flow (@1000 RPM)	Oil Tank Size
URW 230	Gear	206	53	1700	31	22
URW 260	Gear	206	53	1700	31	22
URW 290	Gear	206	53	1700	31	22
URW 340	Gear	206	60	1700	35	32
URW 370	Gear	206	60	1700	35	32
URW 500	Gear	206	60	1400	42	59
URW 500WT	Gear	206	60	1400	42	59
URW 540	Gear	206	60	1400	42	60
URW 540WT	Gear	206	60	1400	42	60
URU 640	Gear	196	80	1600	50	120
UR 800	Gear	206	60	1400	42	90

Notes:

- It is always recommended to install an idle up kit to the truck. This will improve the performance of the crane and will help to significantly improve the operating oil temperature.
- The Rated Flow is the factory specified flow at the given rated pump revolution. It is suggested to specify the pump at 1000RPM at the adjusted flow rate.
- For cranes which will be situated in hot, tropical climates an oil cooler and/or larger oil tank should be considered.