

HAWK Pump Catalogue

Standard Pumps

2015



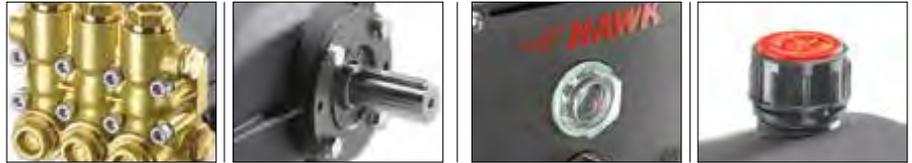
Guide to pump selection

BAR	NHD 120	NHD 150	NHD 200	NMT	NPM	NLTI	XLTI	XXT	PXI	MXT	MPX 350	MPX 500	HFR	HHP	NHD-HY	NHD 120-C	NHD 150-C	NHD 200-C	NHD-HY	NHD-G	NHD-G1	NMP-GR	FOG	NMT-ES	NMT-CW	NMT-HT 85°	XLTI-HT 85°	XXT-HT 85°	MXT-HT 85°	XLTI-Atex	BAR
500									1450 RPM		1450 RPM			1450 1000 RPM																	500
350											1450 RPM																				350
300							1450 RPM																							1450 RPM	300
280													1450 RPM																		280
250					1450 RPM	1450 RPM																3400 RPM									250
200			1450 RPM	1450 RPM				1450 RPM							1450 RPM			1450 RPM	1450 RPM	3400 RPM	3400 RPM			1450 RPM	1450 RPM		1450 RPM				200
170																															170
150		1450 RPM								1450 RPM							1450 RPM									1450 RPM		1450 RPM	1450 RPM		150
140																															140
120	1450 RPM															1450 RPM															120
100																							1450 RPM								100
L/ min.	Min. 4 Max. 12	Min. 8,5 Max. 15	Min. 8,5 Max. 15	Min. 12,5 Max. 21	Min. 15 Max. 18	Min. 25 Max. 30	Min. 15 Max. 54	Min. 42,6 Max. 70,0	Min. 11,3 Max. 21,7	Min. 70 Max. 100	Min. 38 Max. 45	Min. 25 Max. 36	Min. 40 Max. 120	Min. 25 Max. 50	Min. 15 Max. 15	Min. 8,5 Max. 12	Min. 8,5 Max. 15	Min. 18,5 Max. 15	Min. 15 Max. 15	Min. 9,5 Max. 11,4	Min. 11,4 Max. 14,4	Min. 11,5 Max. 17	Min. 1 Max. 8	Min. 12,5 Max. 21	Min. 12,5 Max. 21	Min. 12,5 Max. 21	Min. 15 Max. 42	Min. 55 Max. 70	Min. 15 Max. 30	Min. 15 Max. 30	L/ min.

Standard Pumps - Technical drawings

XLTI Series / Serie

XLTI pumps can operate at pressures from 150 to a maximum of 300 bar and a water temperature of 65°C (149 F). They are ideal for the routine cleaning of industrial machinery on building sites, for industrial and naval maintenance, to remove graffiti and writing on walls, for road cleaning, to eliminate rust and remove paint on building sites, and for hydro-sandblasting in order to eliminate all traces of old paint on masonry walls which is often carried out as a preliminary step before applying a coat of new paint. This pump is also used as a component of very large car washes, but it is not the best choice for self-service systems as it was designed to handle large volumes of water.



Part. No. Codice	Flow Rate / Portata				Max Pressure Pressione massima		RPM Giri /Minuto		Max Power / Potenza Massima				Power take-off Prova di forza
	l/min		US GPM		Bar	Psi	50 Hz	60 Hz	HP		Kw		
	50 Hz	60 Hz	50 Hz	60 Hz					50 Hz	60 Hz	50 Hz	60 Hz	
XLT3020ISL	30	36	7.9	9.5	200	2900	1000	1200	15.6	18.7	11.5	13.8	△24
XLT3020ISR	30	36	7.9	9.5	200	2900			15.6	18.7	11.5	13.8	24▷
XLT1530IL	15	18	4.0	4.7	300	4350	1450	1740	11.5	13.8	8.5	10.2	△24
XLT1530IR	15	18	4.0	4.7	300	4350			11.5	13.8	8.5	10.2	24▷
XLT1830IL*	18	22	4.8	5.8	300	4350			13.7	16.4	10.1	12.1	△24
XLT1830IR*	18	22	4.8	5.8	300	4350			13.7	16.4	10.1	12.1	24▷
XLT2230IL*	22	26	5.8	7.0	300	4350			16.6	19.9	12.2	14.6	△24
XLT2230IR*	22	26	5.8	7.0	300	4350			16.6	19.9	12.2	14.6	24▷
XLT2530IL*	25	30	6.6	7.9	300	4350			19.2	23.0	14.1	16.2	△24
XLT2530IR*	25	30	6.6	7.9	300	4350			19.2	23.0	14.1	16.2	24▷
XLT2730IL	27	32	7.1	8.5	300	3625			20.5	24.6	15.1	18.1	△24
XLT2730IR	27	32	7.1	8.5	300	3625			20.5	24.6	15.1	18.1	24▷
XLT3025IL*	30	36	7.9	9.5	250	3625			19.3	23.2	14.2	17.0	△24
XLT3025IR*	30	36	7.9	9.5	250	3625			19.3	23.2	14.2	17.0	24▷
XLT3325IL	33	40	8.7	10.4	250	3625			21.4	25.7	15.7	18.8	△24
XLT3325IR	33	40	8.7	10.4	250	3625			21.4	25.7	15.7	18.8	24▷
XLT3517IL*	35	42	9.2	11.0	170	2465			15.2	18.2	11.2	13.4	△24
XLT3517IR*	35	42	9.2	11.0	170	2465			15.2	18.2	11.2	13.4	24▷
XLT4017IL*	40	48	10.6	12.7	170	2465			17.0	20.4	12.5	15.0	△24
XLT4017IR*	40	48	10.6	12.7	170	2465			17.0	20.4	12.5	15.0	24▷
XLT4317IL	43	52	11.4	13.7	170	2465			19.1	22.9	14.1	16.9	△24
XLT4317IR	43	52	11.4	13.7	170	2465			19.1	22.9	14.1	16.9	24▷
XLT5015IL	50	60	13.2	15.8	150	2175			18.8	22.6	13.8	16.6	△24
XLT5015IR	50	60	13.2	15.8	150	2175			18.8	22.6	13.8	16.6	24▷
XLT5415IL	54	65	14.3	17.2	150	2175			21.2	25.4	15.6	18.7	△24
XLT5415IR	54	65	14.3	17.2	150	2175			21.2	25.4	15.6	18.7	24▷

P.T.O. Reference guide / Legenda prese di forza

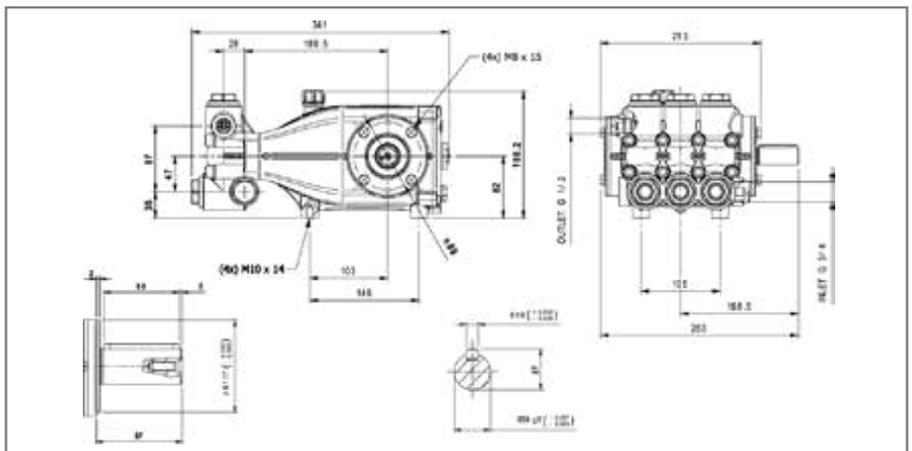
Single P.T.O. Ø 24 mm Left
Singola presa di forza Ø 24 mm Sinistra **△24**

Single P.T.O. Ø 24 mm Right
Singola presa di forza Ø 24 mm Destra **24▷**

*Available also with Ø 25 mm shaft
*Disponibile anche con albero di Ø 25 mm

The flow rate values may vary by ± 5% compared to the production label values.
I valori di portata possono discostarsi del ± 5% rispetto i valori di targa.

Weight / Peso	Kg	17.2
Oil capacity / Capacità olio	lit.	1.2
Inlet / Entrata	G	1/2"
Outlet / Uscita	G	3/8"



CHOOSING THE PUMP

Hawk, high-pressure piston pumps are positive displacement pumps.

The main parameters that determine your choice of Hawk pump are volume, pressure, rotation speed and power input. The flow-rate is given in litres per minute and is directly proportional to the rotation speed. The speed of rotation is given as revolutions per minute.

The pressure is given in bars and is the maximum pressure that the pump can reach.

The power input is shown in kW and is the input required for the maximum flow-rate and pressure indicated. When coupled with an electric motor, the power of the motor should be greater than that shown in the catalogue. When coupled with a combustion engine, the power of the engine should be at least 30% more than that shown in the catalogue. The power consumed by the pump in kW is the product of: $\text{Power} = \text{Volume (l/min)} \times \text{Pressure (bar)} / 520$

OPERATING AND INSTALLATION INSTRUCTIONS

Hawk pumps are designed and built for the pumping of clean fresh water or water with a low percentage of commonly used detergents, up to a temperature of 65°C. Hawk pumps designed with an AISI 316 stainless steel manifold housing should be used for applications with temperatures up to 85°C, for saltwater applications, for reverse osmosis, and for use in the food, chemical and pharmaceutical industries. Hawk pumps were not designed for pumping potentially hazardous liquids (explosive, toxic and flammable liquids). Contact our technical staff if the application involves the use of harsh chemicals and in case of doubt with regard to any of the points below. To safeguard proper pump operation, the pump should preferably be fed (maximum pressure 8 bar), otherwise it should be located under the water head or at the same level as the tank. Poor supply can cause serious damage to the pump, such as priming problems, vibration, noise and short seal life. Hawk pumps are delivered with their first oil fill and are fitted with a sealed cap to prevent oil spilling during transport. Before starting to use the pump for the first time, do not forget to replace the sealed cap with the cap with the dipstick and bleed.

Warning: Failure to install the pumping system correctly can result in injury or damage to property: it is important to follow all the points below.

- 1) The pump should not be used at higher pressures or speeds of rotation than those shown on the product's specifications plate.
- 2) The pump should be installed horizontally with respect to the base to facilitate optimum lubrication.
- 3) The pump's suction pipe must be proportional to the volume and its diameter must not be less than the suction mouth. It is important that there be as few bottlenecks on this pipe as possible (elbows, T couplings, reductions, etc ...). Each junction on the suction pipe must be sealed properly with Teflon tape or a similar product to avoid leaks or air intake (cavitation). Cavitation is the formation of bubbles of steam in the liquid: their implosion generates abnormal stress which is very damaging for all pump parts. To safeguard optimum pump life, avoid the circulation of liquid containing sand or other solid particles as this affects the efficiency of valves, the plungers and seals. This can be prevented by fitting an oversized filter on the suction pipe with respect to the pump volume. The filter should be cleaned regularly.
- 4) The delivery pipe must be able to support the operating pressure of the pump. Excessively narrow passages can result in lance pressure loss.

5) To prevent injury and damage to the pump, it is vital to fit a pressure control valve and a safety valve to prevent the pressure accidentally exceeding its operating level. Contact our technical staff before fitting these valves. To keep the system pressure under control, a pressure gauge should be fitted on the delivery line with an appropriate bottom scale.

6) Our pumps can be installed in various ways: with pulley drive, direct drive or with flange coupling. An adequate flexible coupling should be used for direct coupling with the electric motor. Make sure the pulleys are aligned if pulley driven; adjust the belt tension and provide adequate safety protection.

Excessive belt tension can cause the oil to overheat and reduce bearing life.

7) Before starting up the pump, make sure the oil is up to level. We recommend the first oil change within the first 50 hours of operation. Subsequent oil changes should take place every 500 hours or more often in case of heavy use. The type of oil used for our pumps is SAE 20/40W.

8) After starting up the pump, aid priming by keeping the delivery line open (lance). Do not let the pump run dry: this can result in rapid seal wear and invalidates the warranty.

9) When using chemicals, run the pump with clean water for several minutes after use. Do not use the pump at low temperatures. To prevent freezing, run the pump dry for about 20 seconds to drain the pipes.

Warning: failure to comply with these operating conditions invalidates the warranty.

LIMITED WARRANTY

LEUCO S.p.A. guarantees HAWK products have no defect in their construction and materials for a period of (1) year from the time they left the factory. This guarantee is at the discretion of LEUCO S.p.A. and is limited to the repair and replacement of parts or products that it deems defective at the time of delivery. All the products covered by this limited guarantee must be returned freight paid for inspection, repair or replacement by the manufacturer.

This limited warranty is the only form of guarantee and replaces any other form of explicit or implicit warranty, including guarantees of fitness for sale or any particular purpose. The manufacturer refuses any such liability with this statement. Faulty products will only be repaired or replaced according to these terms; LEUCO S.p.A. is not liable for any further loss, damage or expense including accidental or indirect damages caused directly or indirectly from the sale or use of these products. The unauthorised use of spare parts that were not manufactured by LEUCO S.p.A. automatically invalidates this guarantee, which is subject to the instructions for installation and operation here. There are no further guarantees other than the guarantee described above.