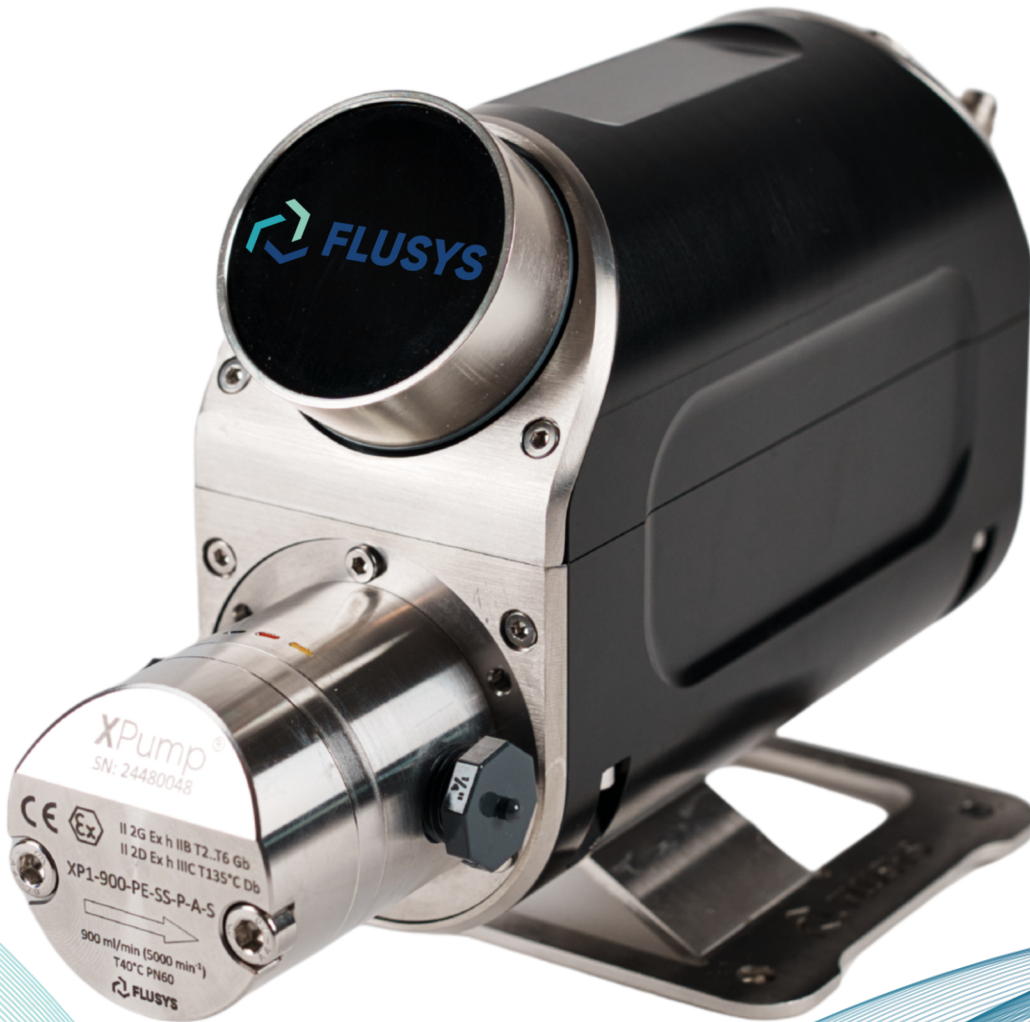


**XPump<sup>®</sup>**  
GEAR PUMP



**MEASURE & CONTROL**  
WITH SYSTEM

# XPump® GEAR PUMP

The **XPump®** is a precise, robust and hermetically sealed gear metering pump solution used in laboratories, pilot plants and production.



Special attention was paid to using high-quality materials combined with the tightest manufacturing tolerances during development. The result: pressure stability and longevity, even in high-pressure applications, that stands up to any competition. The revolutionary drive unit is a highly intelligent "Plug & Work" solution that leaves nothing to be desired.

With the smart control element, an intuitive input of speed or flow rate is possible via the integrated 13" TFT display with LED status indicator. The drive unit can be controlled via various interfaces such as 4-20 mA, IO-Link or RS485/232.

For rugged industrial applications, including high-temperature environments, three-phase motors with or without frequency converters and complete ATEX-compliant solutions for Zone I & II are available.


## Advantages

- › High pressure ranges and pulsation-free delivery even with the smallest flow rates.
- › Revolutionary 'Double Life' serviceability with renewed 100 % performance
- › Smart control element with integrated visualization.
- › Various external communication interfaces available.
- › "Plug & Work" with Bronkhorst High-Tech B.V. (BHT) flow meters.
- › Longevity due to the highest quality materials and precision "Made in Germany".
- › Conveying non-lubricating media.
- › Extra strong magnet system and shaft design as standard.
- › Cleanable with CIP (SIP on request).
- › ATEX-compliant design for Zone I & II according to EU Directive 2014/34/EU.



Ready to use XPump®

## Specifications Drives

	XPump® Drive Tronic		XPump® Drive Industrial (Three-Phase Motor)		
	Standard	Lite	Without ATEX	With ATEX Zone 1 & 2 	Integrated Frequency converter
Voltage	24 Vdc		3~ 230/400 Vac		1~ 230 Vac
Rated power	68 W		250 W or 550 W		-
Rated torque	0.17 Nm		0.84 Nm or 1.84 Nm		-
Speed	300 up to 5000 rpm		2840 rpm @50 Hz		300 up to 5000 rpm
Protection	IP 40		IP 55	IP 66	model-specific
Environment	+5 to +40 °C		-20 to +40 °C	-20 to +60 °C (T4)	-
Ex protection	-		-	II 2G Ex db IIC T6..T4 Gb II 2G Ex db eb IIC T6..T4 Gb II 2D Ex tb IIIC T85°C..T135°C Db	-
Analog IO	2 x 4-20 mA IN 4-20 mA OUT dig. Alarm, Reset, Status	4-20 mA IN	-		4-20 mA IN
Digital IO	RS232, RS485, Modbus, IO-Link, BHT-instrument	-	-		optional depending on model
Use Cases	Laboratory, pilot plant, research and development		Chemical industry, production, machinery and plant engineering		Motor, wall or control cabinet mounting – depending on model



Connections „Standard“ Version



Connections „Lite“ Version

Pump Head Specifications – Series: XP0\*, XP1

Conveying Media	Lubricating and non-lubricating liquids
Viscosities	0,5 up to 2500 mPa.s (different viscosities optional)
Flow Rate	Up to 240 ml/min (XP0*) Up to 6000 ml/min (XP1)
Temperatures	Fluid: 0 °C up to 50 °C (Up to 300 °C*)
Ex-Classes	ATEX-Zone I & II II 2G Ex h IIB T2..T6 Gb II 2D Ex h IIIC T135°C Db
Material (Gear/Shaft)	PEEK / Stainless steel 1.4571 (standard) Stainless steel (Special alloy) / Stainless steel 1.4571 Peek/Hastelloy C22* Peek/Titanium*
Seals	Standard: PTFE Alternative: FKM, FKM (PTFE encapsulated), FFKM (up to 300 °C)
Connections	XP0 = 1/8" G female thread XP1 = 1/4" NPT female thread

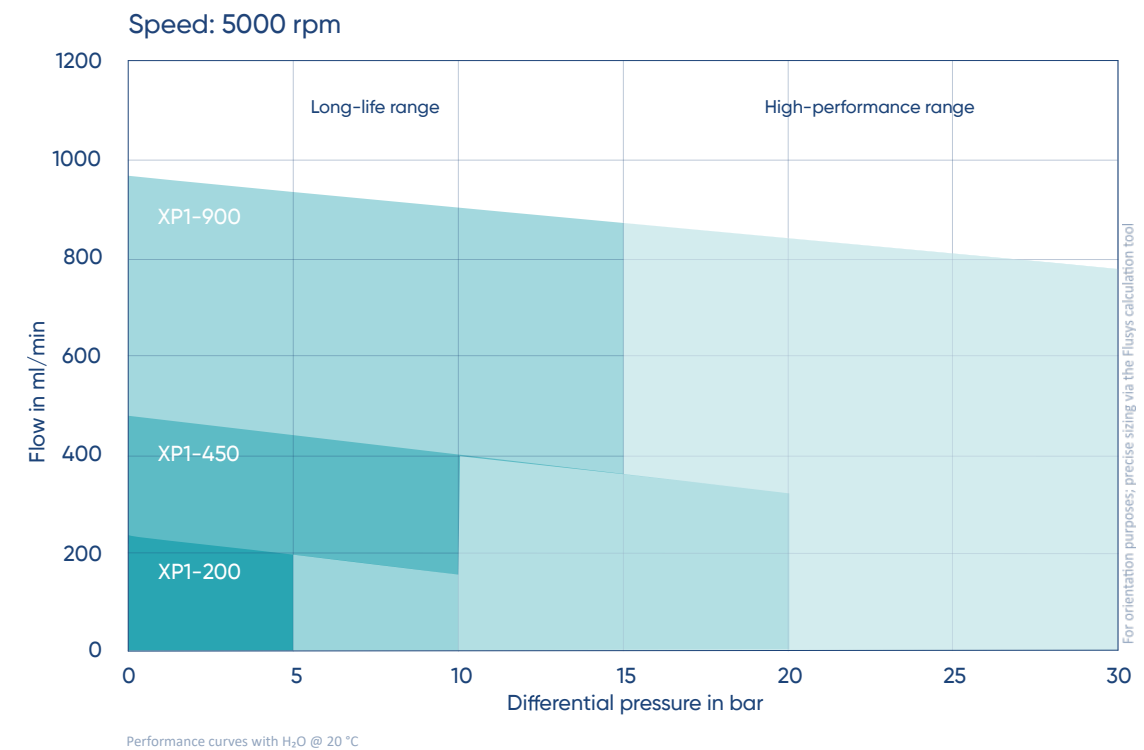
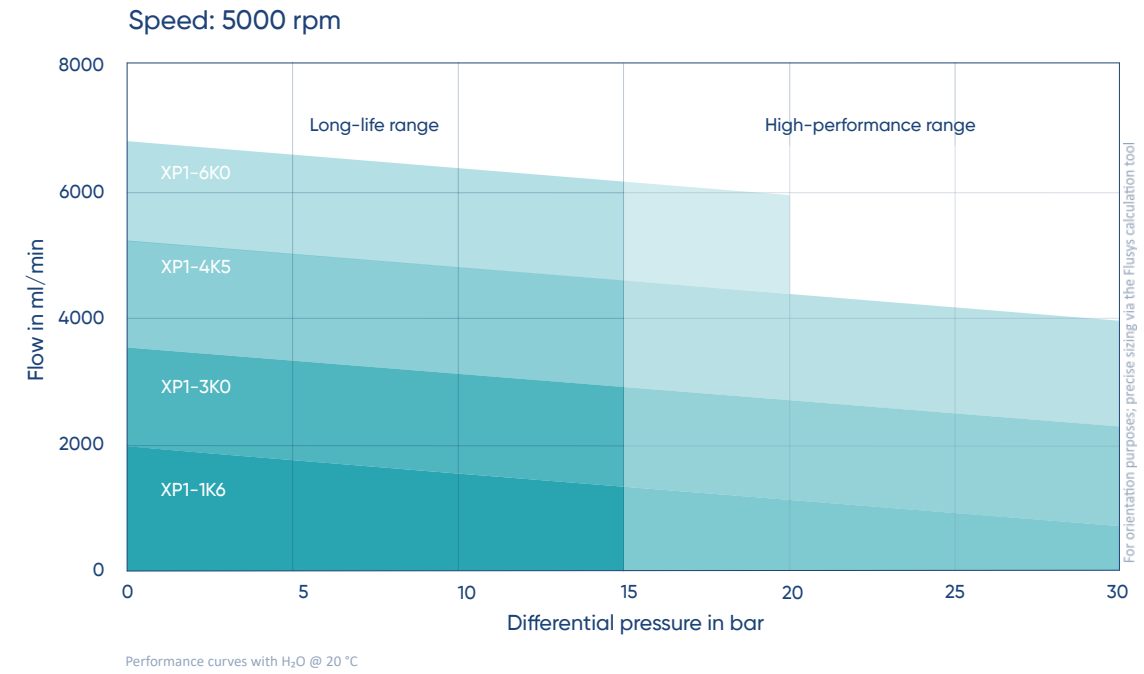
Technical Data Pump Heads

Type	max. Flow Rate **	Pressure at 5000 min <sup>-1</sup>
XP0*	60 ml/min	5 bar
	120 ml/min	5 bar
	240 ml/min	5 bar
XP1	200 ml/min	10 bar
	450 ml/min	20 bar
	900 ml/min	30 bar
	1600 ml/min	30 bar
	3000 ml/min	30 bar
	4500 ml/min	30 bar
	6000 ml/min	20 bar

\* on request

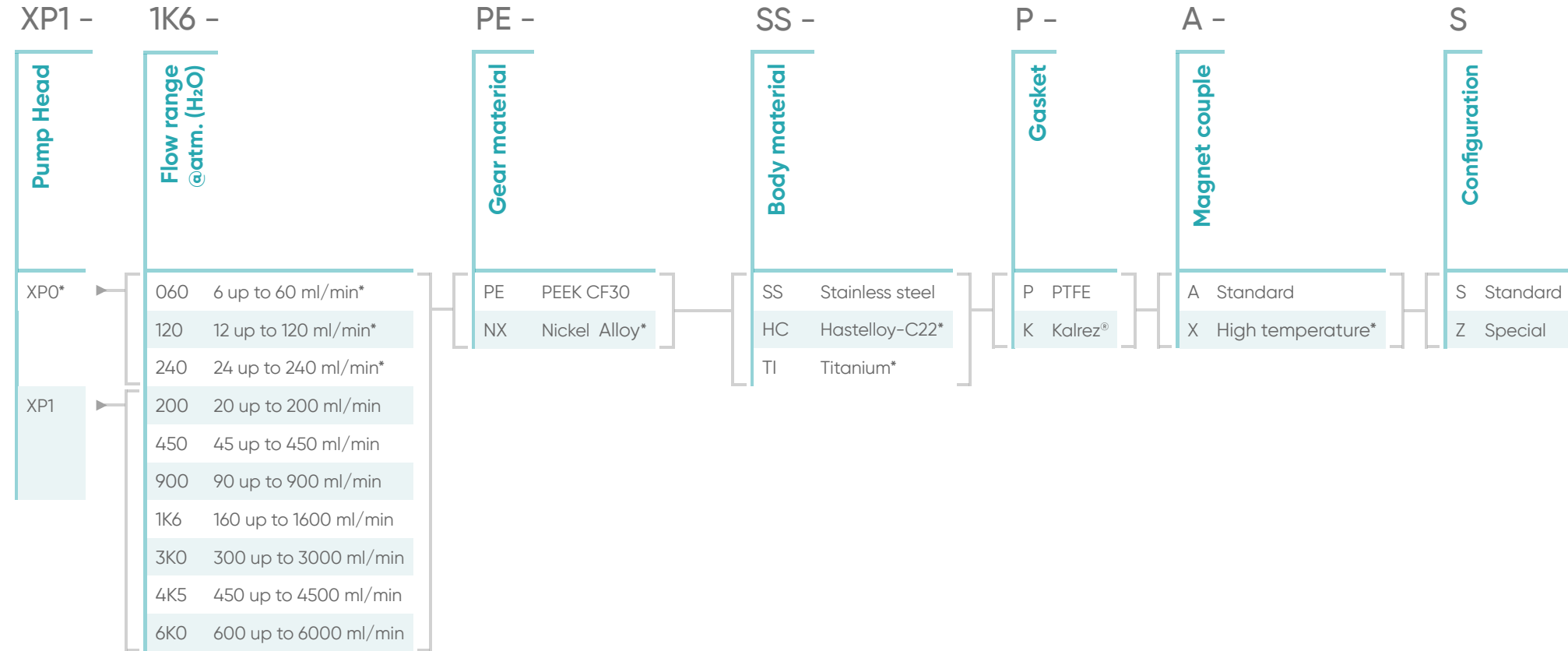
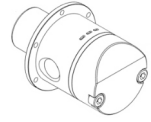
\*\* Reference to H2O and atm at 20 °C

Pressure-Flow Curve XP1



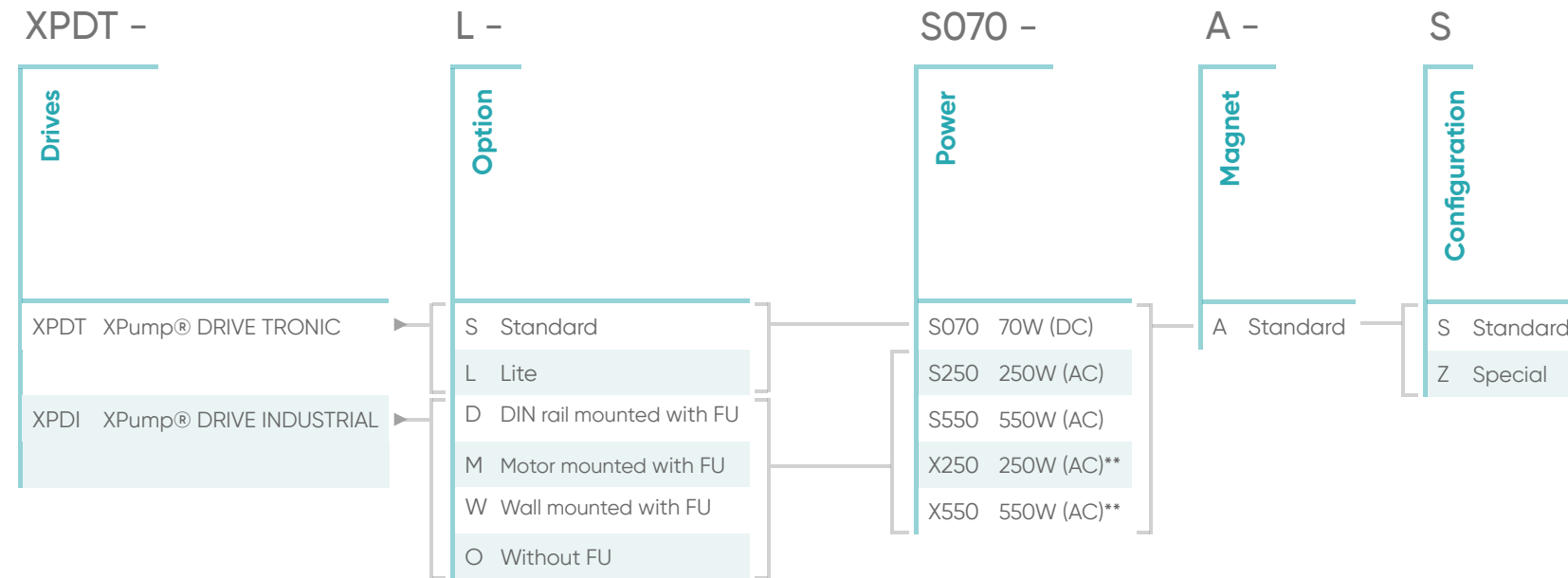
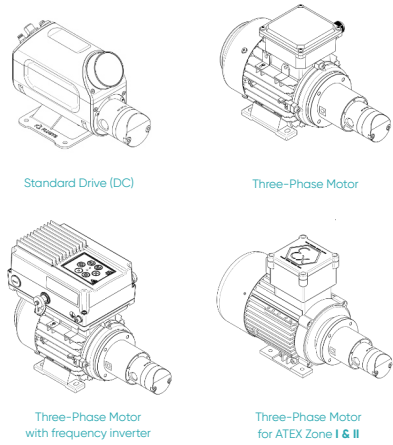
## Type Code Pump Heads

Example pump head:



## Type Code Drives

Example drive:



\* on request

\*\* with ATEX

