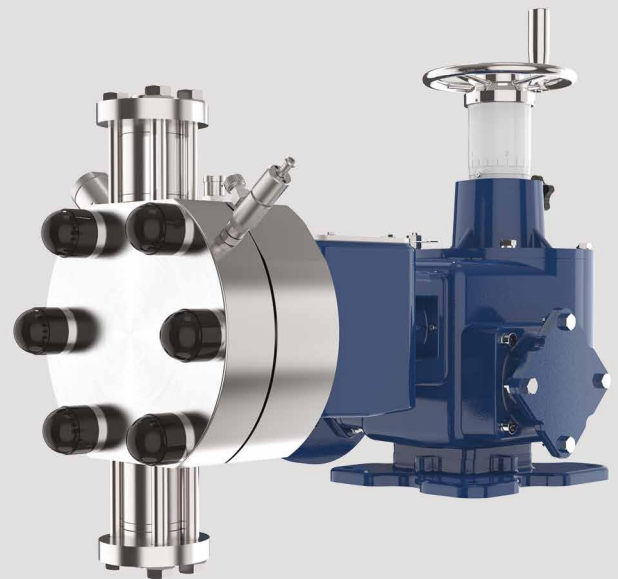


seko

Tork

Hydraulic diaphragm dosing pumps with full motion mechanisms



Tork

A very high level of precision

SEKO's long standing experience of designing and producing pumps for heavy duty applications has been utilised for the design of the Tork series. When reliability, efficiency, and performance are key, the SEKO Tork pump clearly stands out by delivering **superior flow rate performance (up to 3,740 l/h) at higher operating pressures (up to 40 bar)**, making it the ideal choice for demanding dosing applications.

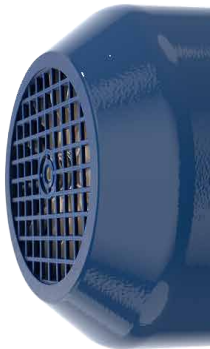
Mechanical return mechanism available in several sizes

Designed to produce low noise emissions and minimise power consumption, Tork pumps feature manual flow-rate adjustment. Each mechanism comes complete with an internal gearbox, meaning that pumps with different speeds can be connected for greater flexibility in equipment selection. Tork's high-precision stroke adjustment, to an accuracy of $\pm 1\%$, can be both manually or electrically adjusted using SEKO-designed electrical actuators.

PTFE double hydraulic diaphragm heads (TY) the ideal solution for applications demanding operational safety and reliability

Tork's safety features include a zero-leakage profile that offers watertight construction for dosing toxic, corrosive and other hazardous liquids. Meanwhile, its double diaphragm protection system immediately signals anomalies without ceasing operation, preventing unplanned downtime. This heavy-duty pump's diaphragm does not require perforated shields on the process side, allowing liquids containing solid suspensions to be pumped.

A mechanical refilling system maintains a constant hydraulic fluid level, thereby guaranteeing maximum precision and repeatability. It also helps manage the eventual deformation of the diaphragm, thereby increasing its lifespan and reducing operational costs.



Applications



Municipal Water Treatment



Chemical Industry



Drinking Water



Industrial Water Treatment



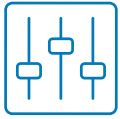
Pulp & Paper



Pharmaceutical



Features & benefits



Flow rate adjustment

- Ergonomic knob with clear gauge for manually operated air purge
- Automatic variation via Aktua electrical actuator (optional).



Cartridge valves

In order to ensure maximum dosing precision, even for small flow rates, double and triple ball configurations are available with high-precision seats. The metal gaskets for the SS316L stainless-steel heads, and the FPM gaskets for those in plastic, guarantee maximum compatibility.



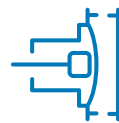
Built-in relief valve

Protects the pump against unexpected overpressure.



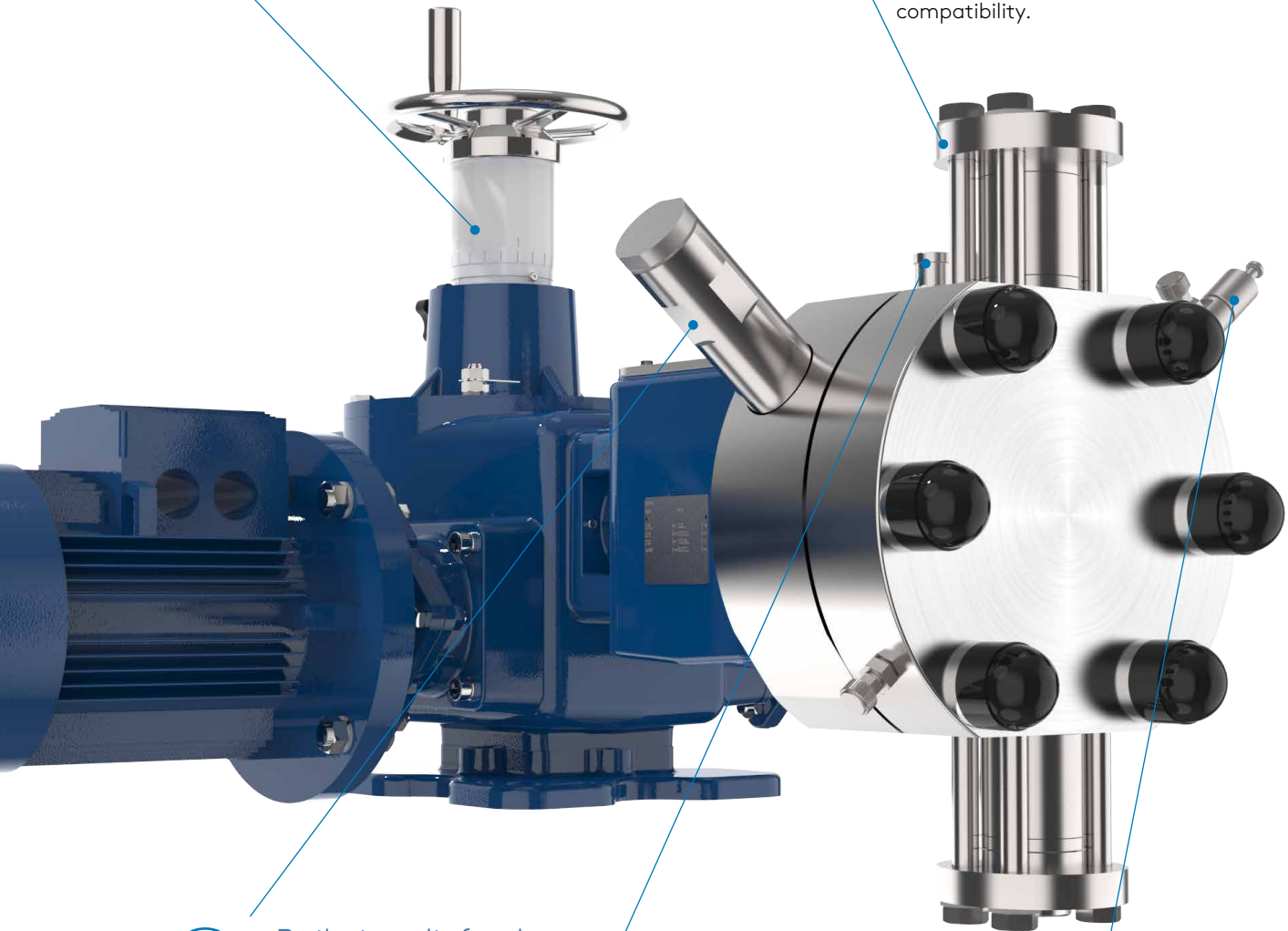
Venting system

Aside from guaranteeing automatic venting during operation, the venting system also facilitates pump priming by allowing manually operated air purge.



Double diaphragm with rupture detector

Should one of the two diaphragms rupture, the detector activates a local visual indicator or signal. In this emergency situation, the pump continues running and allows for the necessary maintenance intervention to be scheduled.

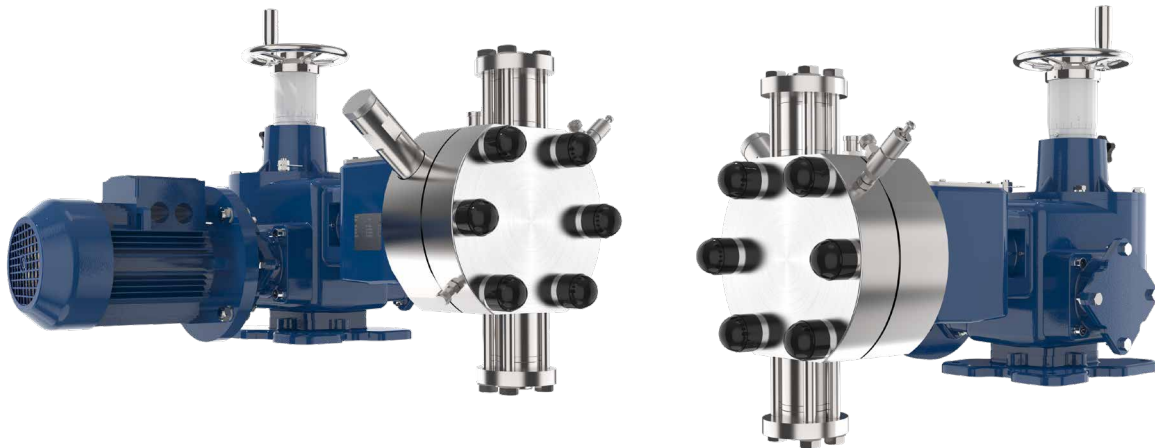


Tork TY

Hydraulic double diaphragm dosing pump

Tork series hydraulic diaphragm dosing pumps are designed with a heavy-duty design, high safety and exceptional control. The broad variety of heads execution offers a wide selection of dosing pumps to cover practically any application need.

- Flow rate range: 2.8 - 3,740 l/h, up to 40 bar
- Wetted parts: PVDF, PTFE, SS316, FPM and ceramic



- Low-noise integral gearbox, worm type, oil bath lubricated
- Reduced energy consumption based on low friction rolling bearings design
- Precise stroke length adjustment both manually and/or automatically actuated.
- Linearity and repeatability uniquely appointed to provide stable performance..
- Easy in situ installation of electrical servomotor on manual stroke adjustment mechanism.

Diaphragm pump head

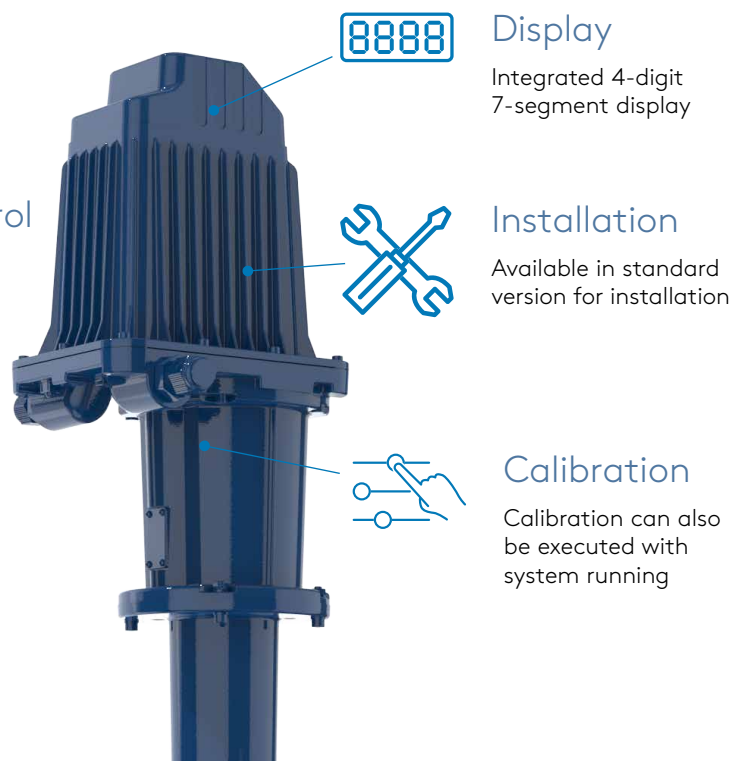
- High capacity flexibility
- Easy-to-change spare parts (all single cartridge solutions)
- Maximum compatibility PTFE diaphragm
- Visual or remote diaphragm failure detection

Aktua (optional)

Electromechanical actuator for precise dosing pump stroke control

The Aktua series is designed for SEKO dosing pumps, replacing manual flow rate control with an automatic, remote system that adjusts stroke length. SEKO's advanced electrical actuator delivers precise digital control for highly accurate and flexible pump regulation.

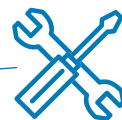
- 4-20 mA signal and feedback
- 24 VDC or 230 VAC applicable power supply
- 50 Hz or 60 Hz optional frequency
- Absolute encoder
- IP66 ingress protection



8888

Display

Integrated 4-digit 7-segment display



Installation

Available in standard version for installation



Calibration

Calibration can also be executed with system running

Tork TY key code

Model					
T	Tork				
Pump head type					
Y	Hydraulic double diaphragm				
Plunger diameter [Ø mm] for mechanism					
12	12	N0			
15	15	N0			
20	20	N0			
25	25	N0			
30	30	N1			
35	35	N0			
40	40	N1			
50	50	N0/N1			
70	70	N1/N2			
90	90	N1/N2			
A0	100	N3			
C0	120	N2			
Mechanism model Stroke length [mm]					
N0	10				
N1	25				
N2	35				
N3	50				
Pump head					
4J	PVDF	PTFE	Ceramic	FPM	PVDF
2F	SS316	PTFE	SS316	SS316	SS316
Valve type					
A	Single ball				
B	Double balls				
General options					
7	Standard threaded connection BSPP				
Flow rate adjustment					
M	Manual with adjustment knob - standard				
E	Electric actuator				
Gear ratio					
A	1:7				
D	1:12				
F	1:15				
I	1:20				
V	1:8.5				
Motor poles/phases					
4	4/3				
6	6/3				
Motor power kW					
O	without motor				
B	0.18				
D	0.37				
E	0.55				
F	0.75				
G	1.1				
H	1.5				
I	2.2				
J	3.0				
K	4.0				
L	5.5				
Pump head options					
V	Visual diaphragm failure detection				
Other options					
0	Standard				
Other options					
N	Standard				

T Y 50 N1 4J A 7 M F 4 G V 0 N

Tork TY N0 PVDF specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TY12N04JBBMI6BV0N	47	2.9	20	24	0.18	71	6
TY15N04JBBMI4BV0N	70	6.9					
TY20N04JBBMI4BV0N		12.3					
TY25N04JBBMF4BV0N	93	25.3	19	23	0.18	63	4
TY35N04JBBMF4BV0N		49.7					
TY50N04JBBMF4BV0N		104					
TY50N04JBBMA4DV0N	165	185	9	11	0.37	71	

Tork TY N0 SS316 specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TY12N02FBBMI6BV0N	47	2.8	40	48	0.18	71	6
TY15N02FBBMI4BV0N	70	6.7					
TY20N02FBBMI4BV0N		11.9					
TY25N02FBBMF4BV0N	93	18.8	39	45	0.18	63	4
TY35N02FBBMF4BV0N		49.7					
TY50N02FBBMF4BV0N		104					
TY50N02FBBMA4DV0N	165	185	9	11	0.37	71	

Tork TY N1 PVDF specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TY30N14JABMD4EV0N	117	117	20	24	0.55	80	4
TY40N14JABMF4FV0N	93	165					
TY50N14JABMF4FV0N		258					
TY70N14JABMF4GV0N	200	518	12	14	1.1	90	4
TY90N14JABMF4GV0N		861					
TY90N14JABMA4HV0N		1830			7		

Tork TY N1 SS316 specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TY30N12FABMD4FV0N	117	113	40	48	0.75	80	4
TY40N12FABMF4GV0N	93	161					
TY50N12FABMF4GV0N		257					
TY70N12FABMF4GV0N	200	516	12	14	1.1	90	4
TY90N12FABMF4GV0N		863					
TY90N12FABMA4HV0N		1771			7		

Tork TY N2 PVDF specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TY70N24JABMD4IV0N	117	910	11	14	2.2	100	4
TY90N24JABMF4IV0N	93	1200					
TYC0N24JABMF4IV0N		2065					
TYC0N24JABMV6IV0N	111	2570	6	8		112	6

Tork TY N2 SS316 specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TY70N22FABMD4IV0N	117	922	11	14	2.2	100	4
TY90N22FABMF4IV0N	93	1210					
TYC0N22FABMF4IV0N		2150					
TYC0N22FABMV6IV0N	111	2570	6	8		112	6

Tork TY N3 PVDF Specification

Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TYA0N34JABMD4LV0N	117	2650	10	15	5.5	132	4
TYA0N34JABMA6LV0N	134	3030					
TYA0N34JABMV4LV0N	165	3740					

Tork TY N3 SS316 specification

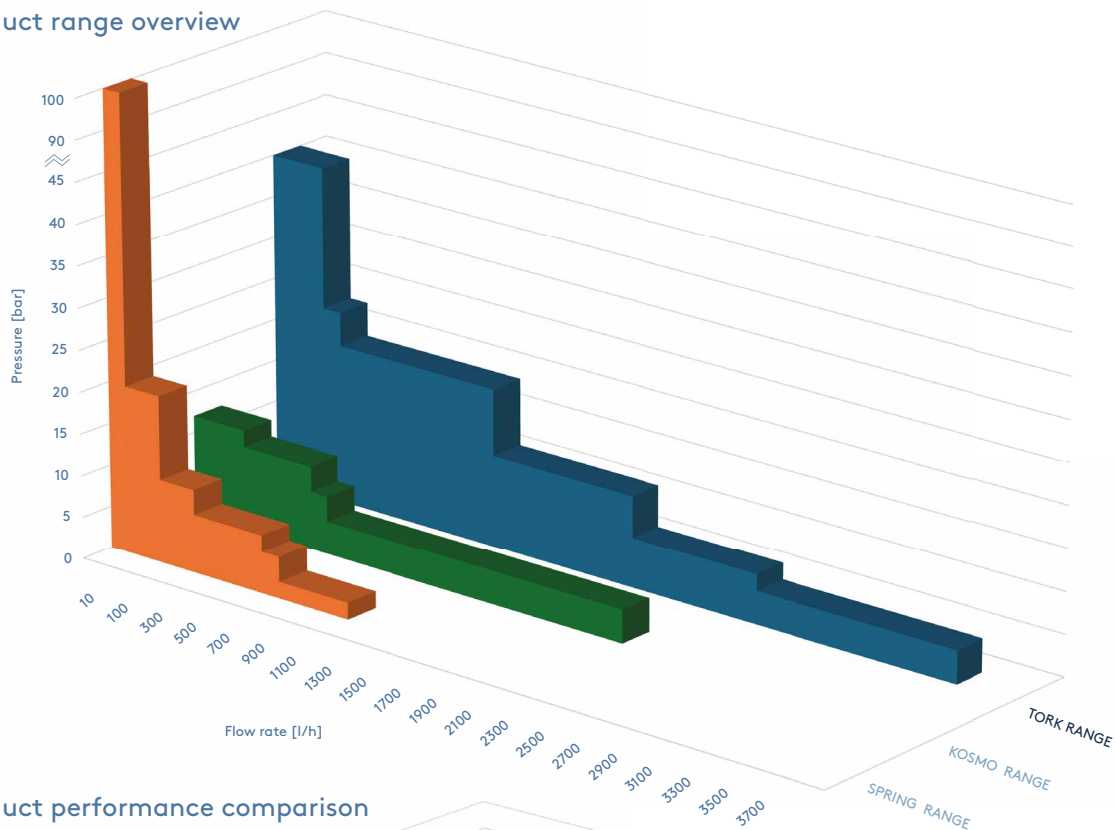
Model	Frequency [stroke/m]	Max flow rate [l/h]	Max pressure [bar]	IRV max set pressure [bar]	Motor [kW]	Motor frame	Number of motor poles
TYA0N32FABMD4LV0N	117	2650	10	15	5.5	132	4
TYA0N32FABMA6LV0N	134	3030					
TYA0N32FABMV4LV0N	165	3740					

Key advantages of the Tork pump:

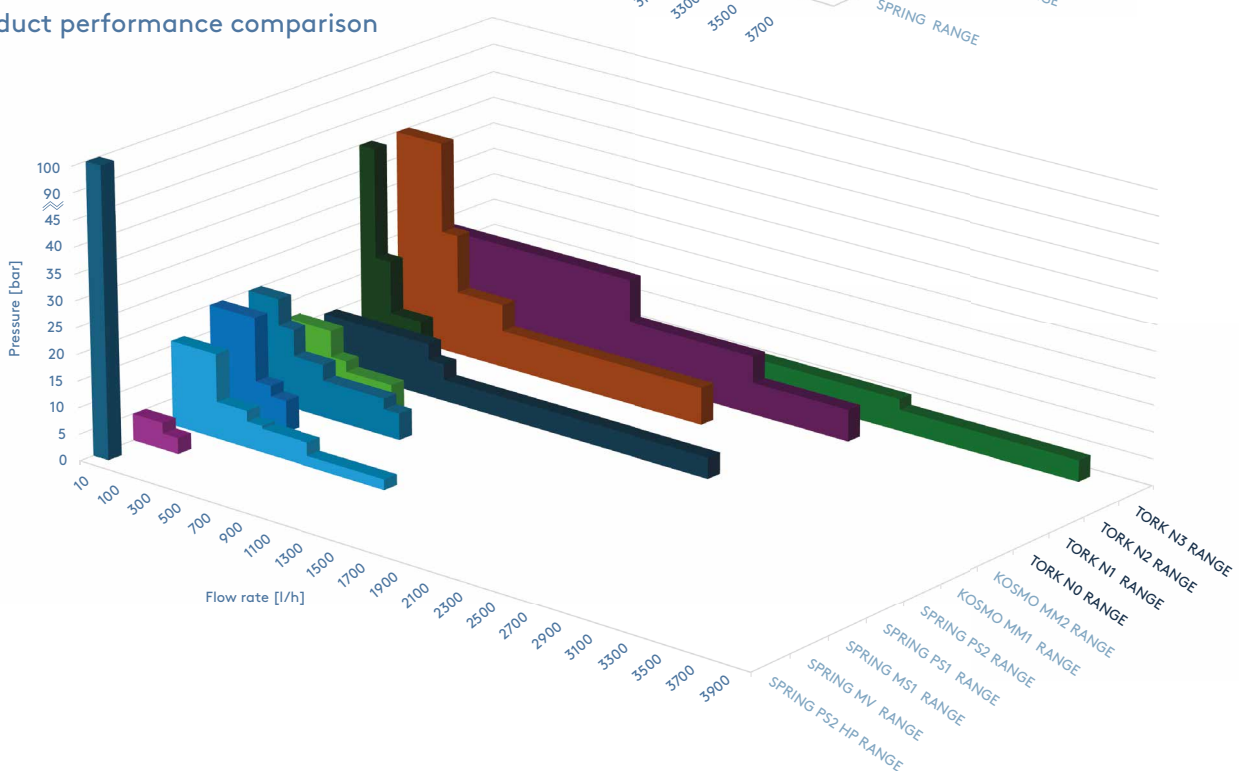
- **Enhanced flow range:** Tork offers a broader and more stable flow rate range, as illustrated in the performance graphs below.
- **Stronger chemical resistance:** Built with premium materials for aggressive fluid handling, Tork withstands harsher environments with ease.
- **Improved accuracy:** With fine-tuned stroke control and precise metering capabilities, Tork reduces waste and optimises chemical use.
- **Higher pressure handling:** Tork manages higher operating pressures, making it ideal for more demanding industrial applications.

See the difference – the performance curve displayed demonstrates how Tork outperforms across multiple operating conditions.

Product range overview



Product performance comparison



Globally Present, Locally Active



Twenty-three national SEKO companies across six continents means that, wherever you are, you enjoy the same exceptional level of service as every SEKO customer around the world.

And an accredited partner distributor network allows us to provide local customer support in over 120 countries, so you benefit from region-specific knowledge and rapid delivery of goods as well as world-class after-sales service and technical assistance.

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