

KOV piston pumps with ball valves

For high-pressure slurry pumping

Putzmeister



File under: A 1.00, A 4.00, IP 4.05

The KOV series – reliable technology for inexpensive system solutions

Powerful attractively priced double-piston pumps for free-flowing material containing up to 70 % solids

KOV and KOV DUO

Inexpensive double-piston pumps with ball valves for the economically efficient conveying of fine-grained mortars and low-consistency slurries containing aggregate up to 20 mm in size.

High performance ranging up to 60 m³/h and 13 MPa (1886 psi) means large safety reserves for the pumping process and allows economic, clean and safe conveying by pipeline over several kilometres.

In the case of the KOV unit the two delivery pistons alternately pump the material into the delivery line. The flow remains virtually constant.

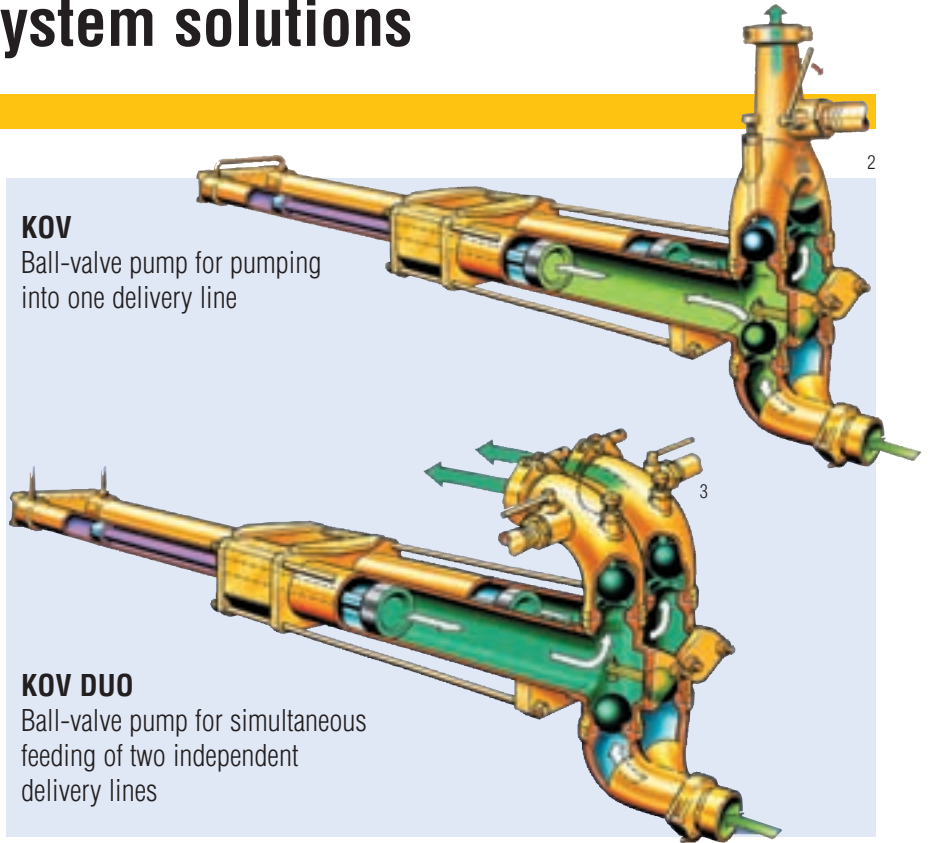
With the KOV DUO the delivery pistons each independently feed one delivery line. In this way one KOV DUO unit can supply two injection stations simultaneously.

KOV

Ball-valve pump for pumping into one delivery line

KOV DUO

Ball-valve pump for simultaneous feeding of two independent delivery lines



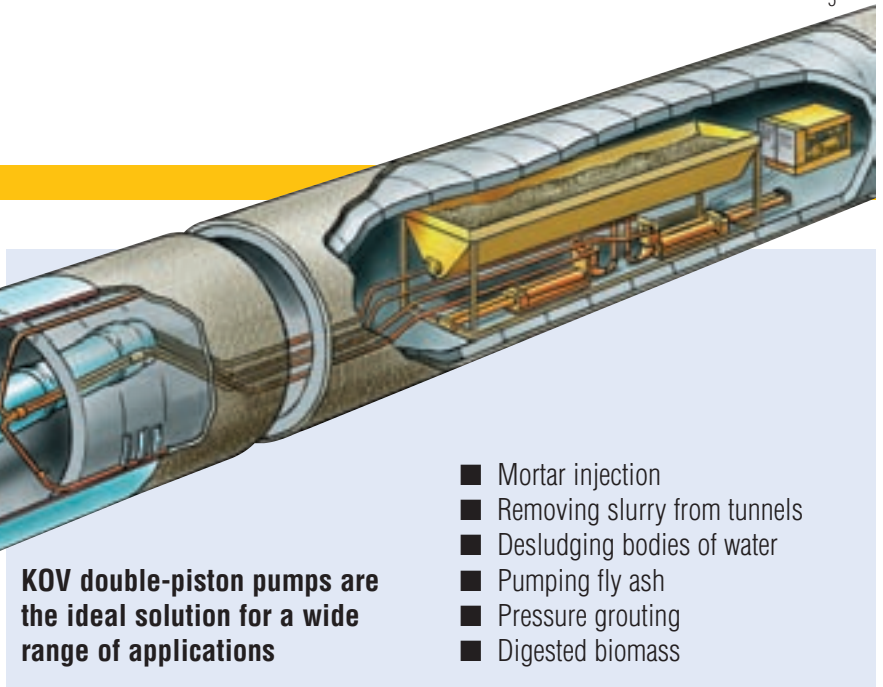
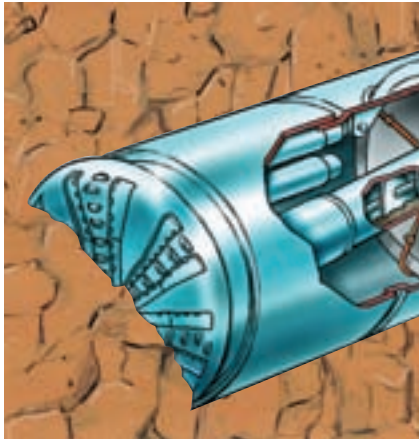
Robust technology brings performance and reliability

Chromium-plated delivery cylinders mean a long service life. In the case of stiff material heavy-duty solid steel valve balls are used; with free-flowing material rubber-coated balls are used in order to ensure dependable sealing and prevent abrasive wear.

The hydraulic and material circuits are kept separate from each other by means of a water box. The water cools and cleans the delivery pistons. In the vicinity of the material being pumped there are no hydraulically operated parts thus ensuring that the hydraulic oil cannot be contaminated by the pumped material.

A version with a sound-absorption cover is available as an option.





KOV double-piston pumps are the ideal solution for a wide range of applications

- Mortar injection
- Removing slurry from tunnels
- Desludging bodies of water
- Pumping fly ash
- Pressure grouting
- Digested biomass

TRIA - continuous filling of annular space as ring segments are removed behind the tunnelling machine

Sure control of the pumped output even over large distances

When hydraulic units are used in conjunction with programmable controllers it is possible to control the pumping system over large distances. The pump output can be adjusted as desired via a 4 – 20 mA signal and the pressure limited either hydraulically or electrically. A manual output adjustment is a standard feature.

Save your time and money in maintenance and service

Maintenance work on the inexpensive but robust main wearing parts is quick and straightforward to carry out. This reduces costs and downtimes.

Delivery lines

The KOV can be supplemented with a wide range of different pipe systems – especially tailored to your special application.

Space-saving installation of two KOV 550 DUO underneath a 6 m² agitating trough



A KOV 1050 pumps the injection mortar behind the ring segment



Removing slurry from a tunnel



Pumping lime slurry



Technical Data KOV

Type	Max. output m ³ /h	Output pressure MPa / psi	Delivery cyl. length mm	Delivery cyl. Ø mm	Length (L) mm	Width (W) mm	Height (H) mm
KOV 550	25	13.0 / 1886	500	180	2250	730	920
KOV 1020	11	5.5 / 798	1000	100	3000	600	980
KOV 1050	36	13.0 / 1886	1000	180	3300	730	1050
KOV 1450	50	13.0 / 1886	1400	180	4100	730	1050
KOV 2160	60	13.0 / 1886	2100	200	4600	1100	1300
KOV 550 DUO	2 x 15	13.0 / 1886	500	180	2250	1100	920
KOV 1020 DUO	2 x 5,5	5.5 / 798	1000	100	3000	600	980
KOV 1050 DUO	2 x 18	13.0 / 1886	1000	180	3300	1100	920

The figures quoted above should be regarded as guidelines and actual values will depend on the individual application. Please contact us for a detailed offer.



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