Metering Technology

DOPAG

Drum and Transfer Pumps

Hilger u. Kern / Dopag Group

Precise and clean

DOPAG drum pumps are chop check pumps. They feed single component media such as greases, oils, adhesives, sealing compounds, polyurethane, silicone etc. with viscosity levels up to 5.0 million mPa s directly and cleanly from original containers.

DOPAG drum pumps have proved themselves particularly useful as central material supply systems as well as being able to supply single stations.

DOPAG drum pumps are manufactured as modular, robust and fail-safe, as well as remarkably service and maintenance friendly.

Product features

- Double acting, fast change-over air motor
- Single or twin ram pump elevator
- 2-hand safety operation
- Self venting
- Chemical resistant seals
- Hard chrome plated pistons
- Adjustable sleeve seals
- Hard teflon seal kit
- Flow rate up to 6 litres/minute
- Pressure ratio up to 75:1

DOPAG Drum pumps

Drum pump P10

Flow rate:	4,75 and 14,5 cm^3 per double stroke
Max. viscosity:	200 - 800.000 mPa s
Pressure ratio:	11:1 - 37:1
Max. working pressure:	160 - 250 bar
Container size:	Ø 86 - 265 mm
Cartridge:	Ø 40 / 46 / 48 mm

Drum pump P30

Flow rate:	32 cm^3 per double stroke
Max. viscosity:	2.500.000 mPa s
Pressure ratio:	33:1
Max. working pressure:	250 bar
Container size:	Ø 275 - 400 mm

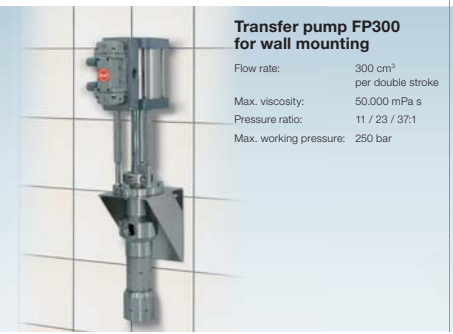
Drum pump P80

Flow rate:	30,7 cm^3 per double stroke
Max. viscosity:	5.000.000 mPa s
Pressure ratio:	56:1
Max. working pressure:	315 bar
Container size:	Ø 275 - 400 mm

Drum pump P200

Flow rate:	30 - 300 cm^3 per double stroke
Max. viscosity:	5.000.000 mPa s
Pressure ratio:	22 / 48 / 56 / 75:1
Max. working pressure:	250 - 400 bar
Container size:	Ø 275 - 575 mm

DOPAG Transfer pump for wall mounting



Transfer pump FP300 for wall mounting

Flow rate:	300 cm^3 per double stroke
Max. viscosity:	50.000 mPa s
Pressure ratio:	11 / 23 / 37:1
Max. working pressure:	250 bar

DOPAG Bung-mounted pumps

Bung-mounted pumps TP

Flow rate:	40 - 112 cm^3 per double stroke
Max. viscosity:	50.000 mPa s
Pressure ratio:	7,6 / 21:1
Max. working pressure:	160 bar
Container size:	20 / 60 / 200 liter

Application examples single component metering

Life time lubrication of gears

Greasing of synthetic components

Technical data

	Drum pumps											Bung-mounted pumps				Transfer pump
																
Description	P10/1	P10/2	P30-E	P30	P80-E	P80	P80-SV	P200-E	P200	P200-SV	P200-H	TP20	TP60	TP200	TP200	FP300
Performance / Consumption																
Pressure ratio	11:1 / 37:1	11:1 / 37:1	33:1	33:1	56:1	56:1	56:1	22/48/56:1	22/48/56/75:1	48:1 / 75:1	6,4:1	21:1	21:1	7,6:1	21:1	11:1/23:1/37:1
Maximum viscosity (mPa s)	0,2 - 0,5 Million	0,2 - 0,8 Million	2,5 Million	2,5 Million	2,5 Million	2,5 Million	5,0 Million	2,5/5,0 Million	2,5/5,0 Million	5,0 Million	5,0 Million	50.000	50.000	50.000	50.000	50.000
Flow rate (l/min) at 20 double strokes*	0,25 / 0,095	0,25 / 0,095	0,64	0,64	0,614	0,614	0,614	0,6 / 3	0,6 / 3 / 6	3 / 6	3 / 6	0,8	0,8	2,24	0,8	6
Working pressure (bar)	20 - 160	20 - 160	20 - 160	20 - 160	20 - 250	20 - 250	20 - 250	20 - 250	20 - 250	20 - 250	20 - 250	100	100	40	100	160
Maximum working pressure (bar)	160 / 250	160 / 250	250	250	315	315	315	250 - 400	250 - 400	250 - 400	250 - 400	160	160	100	160	250
Air consumption (l/min) at 20 double strokes / 6 bar	22	22	142	142	220	220	220	220 - 900	220 - 1.400	220 - 1.400	50	142	142	142	142	450/900/1400
Dimensions / Weight																
Height on start-up in drum (mm)	870	777	1056	1056	1400	1400	1580	1650	1650	1650	1850	917	1150	1438	1438	1040
Height extended (mm)	1100	1127	1540	1540	2200	2200	2380	2600	2600	2700	2600	-	-	-	-	-
Base plate L x W (mm)	250 x 310	410 x 300	610 x 500	610 x 500	610 x 500	610 x 500	750 x 550	900 x 600	900 x 600	1000 x 750	910 x 1000	-	-	-	-	-
Pump size (mm)	280	280	430	430	525	525	525	525 / 865	525 / 865	865	865	339	577	860	860	600
Weight without container (kg)	17,5	22	60	67	75	75	90	205 - 240	205 - 250	350	380	16	16	16	16	38 / 42 / 46
Maximum container height (mm)	400	340	450	450	750	750	750	880	880	880	880	339	577	860	860	-
Container size (l)	10	10	30	30	80	80	80	200	200	200	200	20	60	200	200	-
Container-Ø (mm)	86 / 260	86 / 260	275 - 400	275 - 400	275 - 400	275 - 400	275 - 400	275 - 575	275 - 575	566 - 575	566 - 575	339	577	860	860	-
Cartridges-Ø (mm)	40 / 46 / 48	40 / 46 / 48	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Equipment																
Drum roll-in mechanism or drum roller conveyor	-	-	-	-	-	-	-	❍	❍	❍	❍	-	-	-	-	-
Drum centring on the base plate	-	-	●	●	●	●	●	●	●	●	●	-	-	-	-	-
Level monitoring	-	-	-	❍	-	❍	❍	-	●	●	●	-	-	-	-	-
Level monitoring with automatic shut-off device and audible / alarm for drum changing	-	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-
Material supply without interruption	-	-	❍	❍	❍	❍	❍	❍	❍	❍	❍	-	-	-	-	-
Follower plate	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	-	-	-	-	-
Wetted parts made of stainless steel	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍
Wetted parts highly wear resistant	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	-	-	-	-	-
Oil brake cylinder	-	-	-	-	-	❍	-	-	-	-	-	-	-	-	-	-
PLC contro	-	-	-	-	-	-	-	-	-	-	❍	-	-	-	-	-
1-hand operation	●	●	●	-	●	-	-	-	-	-	-	-	-	-	-	-
2-hand security operation	-	-	-	●	-	●	●	●	●	●	●	-	-	-	-	-
ATEX / UL	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍

Key to symbols:

- ● = Standard
- ❍ = Optional
- – = Not available
- E = Economy version
- SV = Version with larger rams
- H = Hydraulic
- * = The number of double strokes is dependent upon the viscosity
- 1 bar = 14,5 psi / 0,1 MPa

All pumps confirm to CE CE

Drum pump with follower plate

A drum pump with a follower plate is used for processing medium to high-viscosity media. The follower plate is made of aluminium, steel or cast iron.

The follower plate is manufactured with elastomer wipers for efficiently wiping the inside walls of the drum clean during use. The wipers adjust to the diameter of the container.

Bung-mounted pump with cover plate

When processing low viscosity media, a follower plate is not necessary for priming purposes.

The cover plate is used only as a protection

against contamination of the medium to be fed.

Level monitoring

This control unit ensures that the pump does

not draw in air when the drum is empty.

When the minimum level is reached the pump

will shut down automatically.

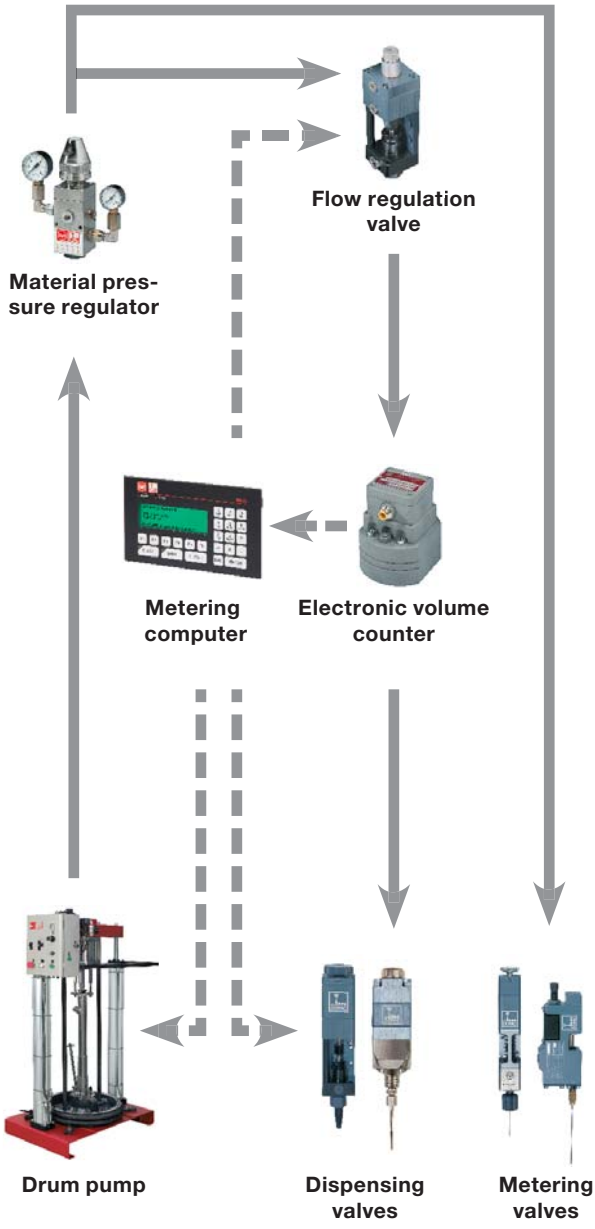
An audible alarm is emitted when the drum

becomes empty.

Options

- External valves
  The drum pump P200 can be supplied with external valves as an option.
- This new design offers the advantage of being able to carry out service and maintenance work on the pump without having to drain the system.
- Wetted parts made of stainless steel or with specific surface treatment

1K system concept



Hilger u. Kern / Dopag Group

The Hilger u. Kern / Dopag Group, with more than 250 employees, is one of the leading manufacturers of metering and mixing systems in the world for plural component polymers and single component media such as greases, oils and pastes.

For more than 35 years the group, with subsidiaries and distributors in over 30 countries, has developed systems and components to suit your individual needs.

Germany
Hilger u. Kern GmbH
Industrietechnik
Käfertaler Straße 253
68167 Mannheim

☎ +49 621 3705-0
🖷 +49 621 3705-200
info@hilger-kern.de
www.hilger-kern.com

Switzerland
DOPAG Dosiertechnik
und Pneumatik AG
Langackerstrasse 25
6330 Cham

☎ +41 41 7855-757
🖷 +41 41 7855-700
info@dopag.ch
www.dopag.com

Subsidiaries

France
DOPAG Sarl
contact@dopag.fr

Italy
DOPAG ITALIA S.r.l.
info.it@dopag.com

United Kingdom
DOPAG (UK) Ltd.
uksales@dopag.co.uk

China
Hilger u. Kern Trading Co., Ltd.
office@hilger-kern.cn

Malaysia
DOPAG FAR EAST SDN BHD
info@dopag.com.my

USA
DOPAG (US) Ltd.
ussales@dopag.com

Please visit our internet page to find the contact data of your local partner (Sales and Service Organisation).