

Metering Technology



DOPAG Drum and Transfer Pumps



Hilger u. Kern / Dopag Group

Precise and clean feeding directly from original containers



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

DOPAG Transfer pump for wall mounting



Transfer pump FP300 for wall mountin

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 litre





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

Application examples single component metering



**Lifetime
lubrication
of gears**



**Greasing of
synthetic
components**

Technical data	Drum pump						
							
Description	P10/1	P10/2	P30-E	P30	P80-E	P80	P80-SV
Performance / Consumption							
Pressure ratio	11:1 / 37:1	11:1 / 37:1	33:1	33:1	56:1	56:1	56:1
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
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
Working pressure (bar)	20 - 160	20 - 160	20 - 160	20 - 160	20 - 250	20 - 250	20 - 250
Max. working pressure (bar)	160 / 250	160 / 250	250	250	315	315	315
Air consumption (l/min) at 20 double strokes / 6 bar	22	22	142	142	220	220	220
Dimensions / Weight							
Height on start-up in drum (mm)	870	670	1040	1040	1450	1450	1580
Height extended (mm)	1100	970	1540	1540	2150	2150	2380
Base plate L x W (mm)	250 x 310	370 x 300	610 x 500	610 x 500	610 x 500	610 x 500	750 x 550
Pump size (mm)	280	280	430	430	525	525	525
Weight without container (kg)	17,5	22	60	67	75	75	90
Max. container height (mm)	400	290	450	450	750	750	750
Container size (l)	10	10	30	30	80	80	80
Container Ø (mm)	86 / 265	86 / 265	275 - 400	275 - 400	275 - 400	275 - 400	275 - 400
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 control	-	-	-	-	-	-	-
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 

  				Bung-mounted pumps   				Transfer pump 
P200-E	P200	P200-SV	P200-H	TP 20	TP 60	TP 200	TP 200	FP 300
22/48/56:1 2.5/5.0 Million	22/48/56/75:1 2.5/5.0 Million	48:1 / 75:1 5.0 Million	6,4:1 5.0 Million	21:1 50,000	21:1 50,000	7,6:1 50,000	21:1 50,000	11:1/23:1/37:1 50,000
0.6 / 3 20 - 250 250 - 400	0.6 / 3 / 6 20 - 250 250 - 400	3 / 6 20 - 250 250 - 400	3 / 6 20 - 250 250 - 400	0.8 100 160	0.8 100 160	2.24 40 100	0,8 100 160	6 160 250
220 - 900	220 - 1.400	220 - 1.400	50	142	142	142	142	450/900/1400
1650 2600 900 x 600 525 / 865 205 - 240 880 200 275 - 575	1650 2600 900 x 600 525 / 865 205 - 250 880 200 275 - 575	1650 2700 1000 x 750 865 350 880 200 566 - 575	1850 2600 910 x 1000 865 380 880 200 566 - 575	917 - - 339 16 339 20 339	1150 - - 577 16 577 60 577	1438 - - 860 16 860 200 860	1438 - - 860 16 860 200 860	1040 - - 600 38 / 42 / 46 - - -
○ ● - ● ○ ○ ○ ○ - - - ● ○	○ ● ● ● ○ ○ ○ ○ - - - ● ○	○ ● ● ● ○ ○ ○ ○ - - - ● ○	○ ● ● ● ○ ○ ○ ○ - ○ - ● ○	- - - - - ○ - - - - - ○	- - - - - ○ - - - - - ○	- - - - - ○ - - - - - ○	- - - - - ○ - - - - - ○	- - - - - ○ - - - - - ○

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 

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.

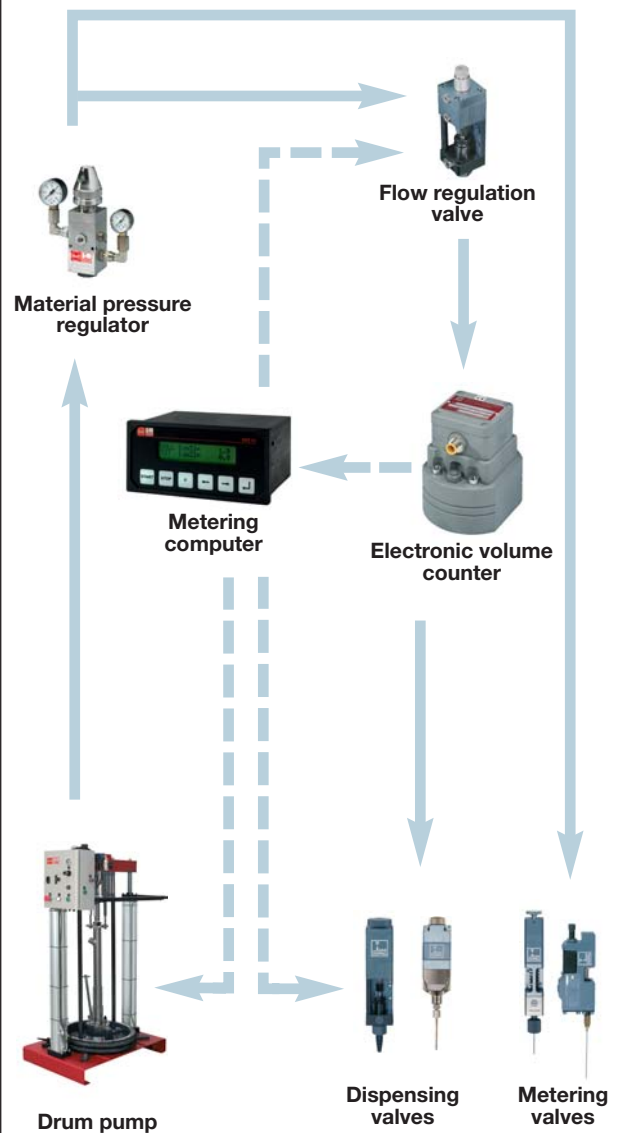
When the minimum level is reached the pump will shut down automatically.

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

Concept for single component metering system



Hilger u. Kern / Dopag Group



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

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

Vertriebsbüro Mitte 1
68167 Mannheim
+49 171 8087282
VBMitte@hilger-kern.de

Vertriebsbüro Mitte 2
68167 Mannheim
+49 171 8087299
VBMitte@hilger-kern.de

Vertriebsbüro Nord
30880 Laatzen
+49 171 8087290
VBNord@hilger-kern.de

Vertriebsbüro Ost
99831 Creuzburg
+49 171 8087303
VBOst@hilger-kern.de

Vertriebsbüro Süd
86391 Stadtbergen
+49 171 8087285
VBSued@hilger-kern.de

Vertriebsbüro West
46238 Bottrop
+49 171 8241397
VBWest@hilger-kern.de

DOPAG Dosiertechnik
und Pneumatik AG
Langackerstrasse 25
6330 Cham
Switzerland

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

DOPAG SCAN ApS
Roskilde
Denmark
☎ +45 45 828090
info@dopag.dk

DOPAG (UK) Ltd.
Hartlebury
United Kingdom
☎ +44 1299 250740
uksales@dopag.com

DOPAG Sarl
Valence
France
☎ +33 4 75419060
contact@dopag.fr

DOPAG ITALIA S.r.l.
Turin
Italy
☎ +39 011 9348888
info.it@dopag.com

DOPAG FAR EAST
SDN BHD
Selangor
Malaysia
☎ +60 3 78064564
info@dopag.com.my

DOPAG Sverige
Malmö
Sweden
☎ +46 40 108595
info@dopag.dk

DOPAG Inc.
Los Angeles
USA
☎ +1 949 955 1008
rbartosik@dopag.com

The Hilger u. Kern / Dopag Group, with more than 300 employees,

8 subsidiaries and 24 distributors, 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 30 years the group has developed systems and

components to suit your individual needs.