

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 cm³
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 cm³
per double stroke

Max. viscosity: 5,000,000 mPa s

Pressure ratio: 22 / 48 / 56 / 75:1

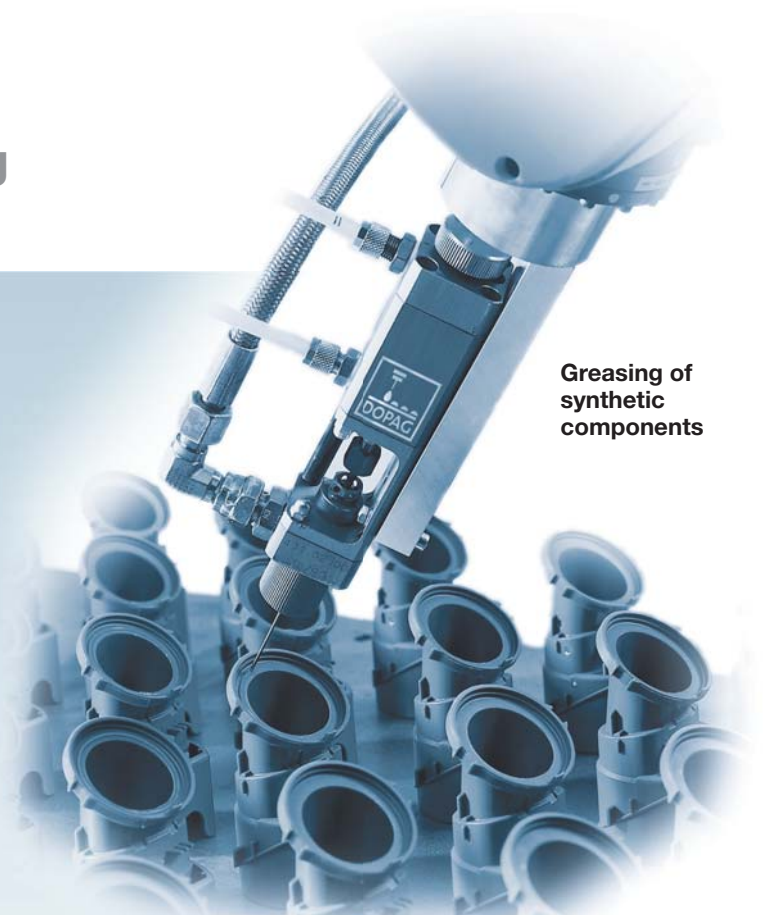
Max. working pressure: 250 - 400 bar

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	0.6 / 3 / 6	3 / 6	3 / 6	0.8	0.8	2.24	0,8	6
20 - 250	20 - 250	20 - 250	20 - 250	100	100	40	100	160
250 - 400	250 - 400	250 - 400	250 - 400	160	160	100	160	250
220 - 900	220 - 1.400	220 - 1.400	50	142	142	142	142	450/900/1400
1650	1650	1650	1850	917	1150	1438	1438	1040
2600	2600	2700	2600	-	-	-	-	-
900 x 600	900 x 600	1000 x 750	910 x 1000	-	-	-	-	-
525 / 865	525 / 865	865	865	339	577	860	860	600
205 - 240	205 - 250	350	380	16	16	16	16	38 / 42 / 46
880	880	880	880	339	577	860	860	-
200	200	200	200	20	60	200	200	-
275 - 575	275 - 575	566 - 575	566 - 575	339	577	860	860	-
○	○	○	○	-	-	-	-	-
●	●	●	●	-	-	-	-	-
-	●	●	●	-	-	-	-	-
●	●	●	●	-	-	-	-	-
○	○	○	○	-	-	-	-	-
○	○	○	○	-	-	-	-	-
○	○	○	○	○	○	○	○	○
○	○	○	○	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	○	-	-	-	-	-
-	-	-	-	-	-	-	-	-
●	●	●	●	-	-	-	-	-
○	○	○	○	○	○	○	○	○

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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.

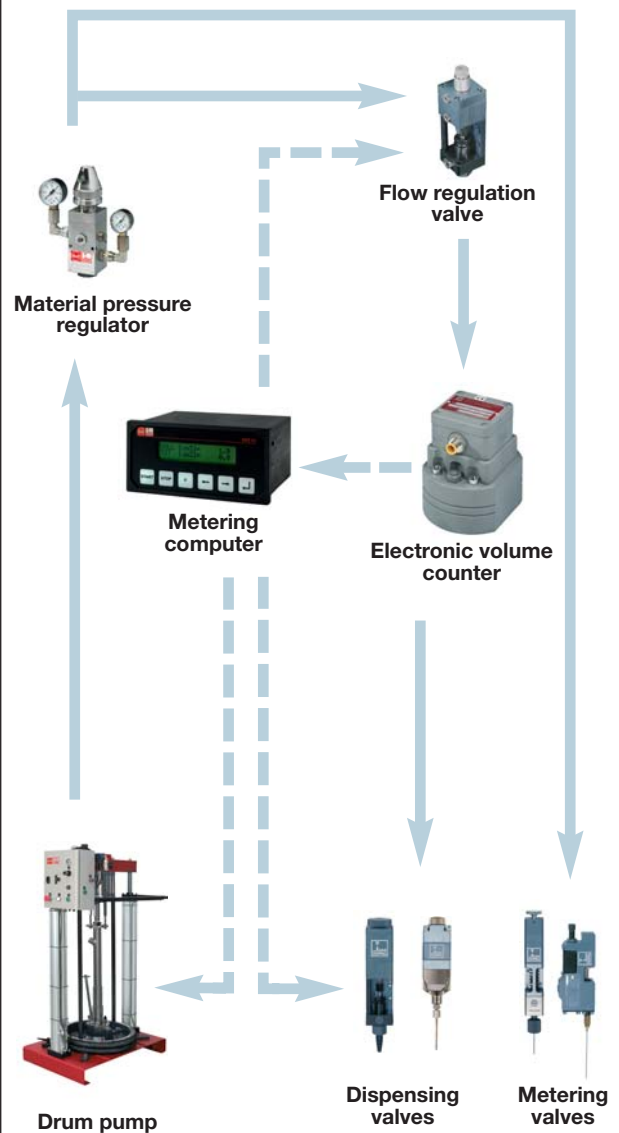
When the minimum level is reached the pump will shut down automatically.

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



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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.