

Grouting containers

Grouting containers

Type	IC C ...	IC
Grout pump	acc. to application	acc. to application
Data recording	LOG-System	LOG-System
Grouting point identification	possible	possible
Internet-communication	possible	possible
Max. number of pumps and -type	6 x DP 36/ DP 50	22 x SIP 14x15 22 x SIP 20x40 8 x DP 36/ DP 50 8 x DP 63 4 x DP 70 H/ DP 101
Integrated power-pack, with bulkhead	●	●
Integrated operator room, with bulkhead		possible
Integrated air-condition		possible
Integrated storage tank		possible
Integrated silicate mixing plant		possible
Thermal insulated housing	●	●
Container edges (8 pc.)		20' x 8' x 8'6"h
Container dimensions approx.	4000 x 2000 x 2450 h	6090 x 2440 x 2590 h 7600 x 2440 x 2950 h
Weight – depending on equipment	4-5 to	7-10 to
Application areas:		
General grouting works	●	●

Grout pumps for integration into the container					
SIP-pumps			Plunger pumps		
Pump type	Qmax	Pmax	Pump type	Qmax	Pmax
SIP 14x15	14 l/min	15 bar	DP 36	13/ 18 l/min	100/ 150 bar
SIP 20x40	20 l/min	40 bar	DP 50	34 l/min	100 bar
			DP 63	53/ 63/ 78 l/min	64/ 100/ 150 bar
			DP 70 H	85/ 110 l/min	200 bar
			DP 101	170/ 220 l/min	100 bar

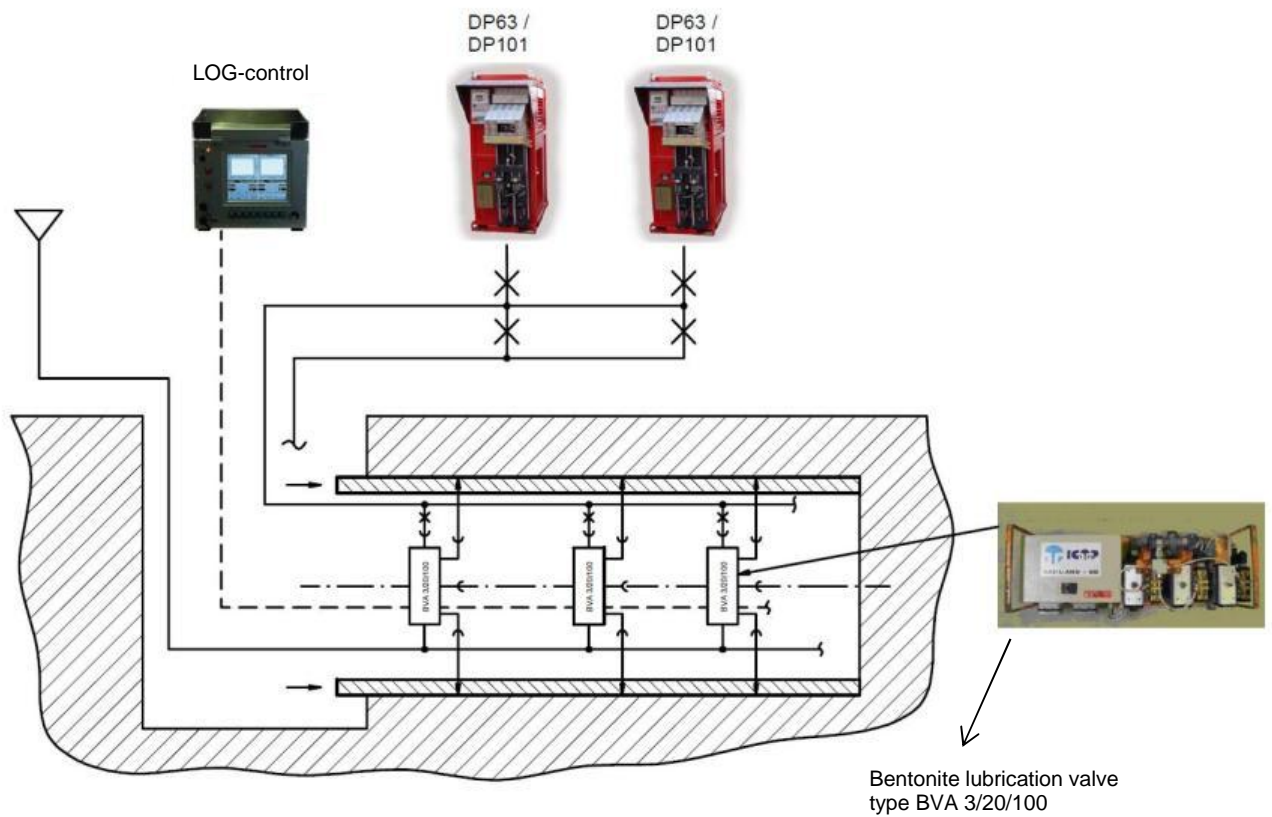


**Compact-grouting container
type IC C 6-50-G**

Mixing- and grouting containers



Mixing- and grouting container type MIC
Application: Bentonite lubrication for pipe jacking



System sketch bentonite lubrication for pipe jacking

Mixing and grouting containers

Type	MC ...	MIC ...
Mixing system	integrated	integrated
Grout pumps		acc. to application
Mixing plant control type Mix-Control 4	standard	standard
Data recording	LOG-System	LOG-System
Grouting points-identification	possible	possible
Internet-communication	possible	possible
Cement silo or big-bag is necessary	●	●
Charging auger is necessary	FS 160/ FS 220	FS 160/ FS 220
Integrated colloidal mixer	MP 200/ MP 500	MP 200/ MP 500
Integrated suspension storage tank	V = 400 – 1500 l	V = 400 – 1500 l
Integrated delivery pump, for pumping-off from the integrated storage tank to a separate storage tank	possible	
Integrated grout pump		●
Max. number and type		6 x DP 36/ DP 50 6 x DP 63 4 x DP 70 H/ DP 101
Integrated power-pack, with bulkhead		possible
Integrated operator room, with bulkhead	possible	possible
Integrated air-condition	possible	possible
Thermal insulated housing	●	●
Container edges (8 pc.)	20' x 8' x 8'6" h	20' x 8' x 8'6" h
Container dimensions	6090 x 2440 x 2590 h 7600 x 2440 x 2590 h	6090 x 2440 x 2590 h 7600 x 2440 x 2590 h
Weight – depending on equipment	5-8 to	5-10 to
Application areas:		
General grouting works	●	●
Bentonite lubrication for pipe jacking	●	●

Grout pumps for integration into the container		
Plunger pumps		
Pump type	Qmax	Pmax
DP 36	13/ 18 l/min	100/ 150 bar
DP 50	34 l/min	100 bar
DP 63	53/ 63/ 78 l/min	64/ 100/ 150 bar
DP 70 H	85/ 110 l/min	200 bar
DP 101	170/ 220 l/min	100 bar

Multi-grouting units



MGU-M as platform



MGU-M installed on truck

Multi-grouting units

Type

MGU-M...

MGU -...

Mixing system	integrated	separate
Grout pumps	acc. to application	acc. to application
Mixing plant control type Mix-Control 4	standard	standard
Data recording	LOG-System	LOG-System
Grouting points-identification	possible	possible
Internet-communication	possible	possible
Colloidal mixer, with charging auger and cement silo	integrated	separate
Cement silo	2 x 2,5 m ³	variable
Charging auger	2 x FS 160	FS 160/ FS 220/ FS 270
Colloidal mixer	MP 200/ MP 500	MP 200/ MP 500 MP 1000/ MPR 800
Suspension storage tank – positioned at the mixer	V = 400 – 1000 l – max. 2 Stck.	V = 400 – 2000 l
Pump for delivery of the cement suspension – up to max. 5000 m		DP 101/ DP 115/ HD 110/ HD 130
Additional suspension storage tank, positioned at the grout pumps		V = 400 – 1500 l
Max. number of pumps and -type	6 x KP 90 4 x KP 121 8 x DP 36/ DP 50 8 x DP 63 4 x DP 70 H/ DP 101	6 x KP 90 4 x KP 121 8 x DP 36/ DP 50 8 x DP 63 4 x DP 70 H/ DP 101
Dimensions/ weights	depending on equipment	depending on equipment

Application areas:

Grouting at tunnel driving work



Grout pumps as integration type					
Piston pumps			Plunger pumps		
Pump type	Qmax	Pmax	Pump type	Qmax	Pmax
KP 90	100 l/min	90 bar	DP 36	13/ 18 l/min	100/ 150 bar
KP 121	175 l/min	100 bar	DP 50	34 l/min	100 bar
			DP 63	53/ 63/ 78 l/min	64/ 100/ 150 bar
			DP 70 H	85/ 110 l/min	200 bar
			DP 101	170/ 220 l/min	100 bar

Liquid additive pumps as integration types

Plunger pumps		
Pump type	Qmax	Pmax
LP 25-PAZ	6 l/min	130 bar
DP 36	13 l/min	100 bar
LP 36	13 l/min	130 bar

Silo-Plants



**OBERMANN-plant for production of flushing suspension
for a 120 m deep slurry wall**

SILO-PLANTS
- as vertical or horizontal type-
design acc. to customer's request/ technical clarification