

Grundfos DOSING SKID SYSTEM



BENEFITS:

- Pre-engineered
- Easy installation
- Broad scope of applications
- Improved process control
- Economical
- Quick delivery



APPLICATIONS:

Sodium hypochlorite, Sodium bisulfite, Alum, Potassium Permanganate, Sodium Hydroxide, Acids, Anti-scalants



Fast and Easy Solution to Chemical Feed Systems

Grundfos Dosing Skid Systems (DSS) are designed to feed liquid chemicals from a supply source (usually tank or drum) to an injection point.

Grundfos DSS range from pre-engineered, standard one, two and three pump systems, to custom systems with multiple pumps and tanks all piped on a common skid complete with controls.

At the heart of each DSS is the Grundfos metering pump: hydraulically actuated and mechanically actuated pumps including SMART Digital Dosing pumps with stepper motor technology offering up to 3000:1 flow turndown.

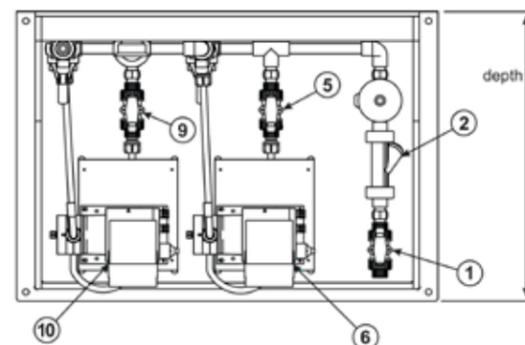
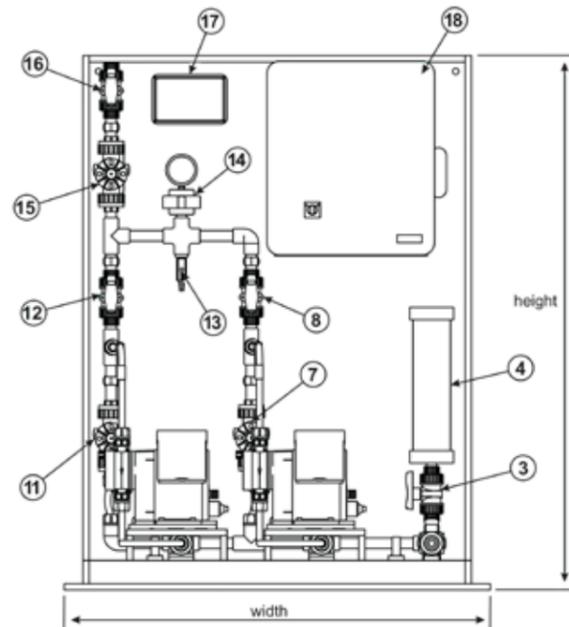
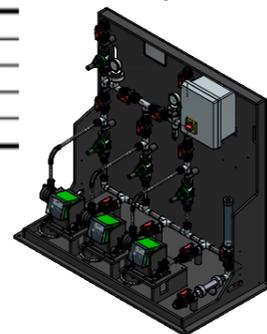
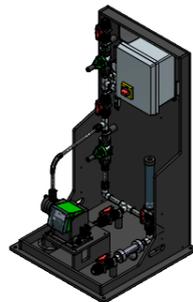
Standard Dosing Skid System

OPTIONS:

- Grundfos SMART Digital Dosing pumps
- One, two and three pump system
- Panel: junction, HOA, plug only, none
- Control cables: analog/pulse/stop input, relay output, analog output
- Pipe: PVC/CPVC
- Gasket materials: EPDM/Viton
- Pulsation dampener (with or without)
- Floor and wall mount

COMPONENTS

Pos.	Description
1	Inlet isolation valve
2	Y-strainer
3	Calibration column isolation valve
4	Calibration column
5	Dosing pump inlet isolation valve
6	Dosing pump
7	Pressure relief valve
8	Dosing pump outlet isolation valve
9	Dosing pump inlet isolation valve
10	Dosing pump
11	Pressure relief valve
12	Dosing pump outlet isolation valve
13	Sample valve/bleed valve
14	Pressure gauge with diaphragm gauge guard
15	Back pressure valve
16	Discharge isolation valve
17	Nameplate
18	Junction box/control panel (optional)



DIMENSIONS

Smart Digital Dosing Skid System Dimensions			
	Height	Width	Depth
Simplex	43"	24"	23.5"
Duplex	43"	34"	23.5"
Triplex	43"	46"	23.5"

SPECIFICATIONS:

- Power: 115VAC / 60Hz / 1 phase
- Pump capacity (gph): 0.0007 to 8
- 1/2" high density PE base
- Skid pressure up to 150 psi
- Connection: 1/2" socket

DSS Design Partnership

Grundfos realizes the need for unique designs for applications and business needs. The DSS Design Partnership program is a design and build partnership between the customer and Grundfos. This program is intended for customers who have a need for high volume production designs. For these systems, a unique specification is written specifically for the customer.



Custom ETO Dosing Skid Systems

Grundfos understands that there are applications and installations that require a completely unique Engineered to Order (ETO) solution for project based work. The custom DSS may be constructed in nearly any configuration and include any dosing pump offered by Grundfos. The Custom ETO systems are reliable solutions built with Grundfos quality and sure to meet your project needs.

SPECIFICATIONS:

- Power: 115 or 230 VAC / 50 or 60Hz / 1 or 3 phase
- Pump capacity (gph): 0.0007 to 556
- Skid pressure up to 2900 psi
- Control: Manual, Pulse, Analog, VFD

Type Key Example

DSS-S2-DDA-1/h-bar-PEF-J-BNNN-P5050W

Dosing Skid System

S = Standard
C = Custom

Pumps per skid

1 = One pump
2 = Two pumps
3 = Three pumps
(N) = Any other number of pumps

Pump Model

DDA
DDC
DDE
DME
DDI
DMH
DIMX

Pump Capacity: flow(l/h) - pressure (bar)

Base Material

P = High Density Polyethylene
S = Stainless Steel
C = Carbon Steel

Gasket Material

E = EPDM
V = Viton (FKM)
T = Teflon (PTFE)

Mounting

F = Floor/Base mounted skid
W = Wall Mounted Panel
E = Wall mount with Enclosure

Control Panel

J = Junction Box (Terminal Strip/On Off)
C = Full Control Panel (HOA)
P = Power plugs only
N = No Control of any kind
S = Special custom panel

Piping Connection

N = NPT
W = Weld (solvent, socket, but, fusion)
C = Compression
F = Flange

Discharge Pipe Size

50 = 1/2"
75 = 3/4"
10 = 1"
15 = 1 1/2"

Suction Pipe Size

50 = 1/2"
75 = 3/4"
10 = 1"
15 = 1 1/2"

Piping Material

P = PVC
C = CPVC
F = PVDF
S = Stainless Steel

Extra Control Cables

B = Both relay output and analog output (DDA and DMH AR)
R = Relay Output
A = Analog output (DDA and DMH AR)
S = Remote Stop (DME)
T = Both relay output and Remote stop (DME)
N = No extra, or none for B variant pumps

Instrumentation

P = Pressure transducer
N = No instrumentation

Accessories

D = Pulsation Dampener
N = No Accessories
E = Ebox
B = Both an Ebox and Pulsation dampener

Back Pressure/Pressure Relief Valves

M = Multifunction Valve
B = Back pressure and Pressure relief valves

NOTES:

1. Substitute actual flow for l/h and actual pressure for bar place holders in the type key.
2. All systems come with input control cable.
3. Use "X" if not included as predefined option.
4. CPVC systems use vented ball valves.