- 2 types of plug-and-play dosing solutions:
- Frame-mounted pump(s)
- Chemical injection package with storage tank

Compact, modular and selfcontained metering solutions. DosaSkid are ideal for preparing, storing and injecting chemical solutions

Tubing

- 316L stainless steel or C-PVC Storage tank
- 316L stainless steel or HDPE



DosaSkid®

Turnkey and ready-to-use device

- A turnkey and ready-to-use device manufactured by an expert in metering technology
- Modularity and Adaptability to process developments
- Reliability and Safety

TYPICAL APPLICATIONS

- **Boiler water treatment:** treatment of make up, boiler feed and waste waters (injection of limewash, corrosion inhibitor, biocide, antifoam, scale inhibitor, etc.)
- Industrial water treatment: coagulation / flocculation (injection of ferric chloride, aluminium sulphate, WAC, etc.), pH regulation (injection of acids and alkalis)
- Refinerie: injection of additives into fuels from refineries, conditioning
 of drinking water in utilities (injection of sodium hypochlorite)
- Desalination: cleaning and maintenance of reverse osmosis membranes (injection of hydrochloric acid, sodium hydroxyde, anti-scaling agents and anti-fouling agents)
- Surface treatment: pickling (injection of hydrochloric, sulphuric, nitric, phosphoric or hydrofluoric acid), neutralisation (injection of acids or alkalis), waste treatment (injection of sodium bisulphate, bleach, sodium hydroxide, etc.)
- Cleaning in place (injection of nitric acid in food industry for example)

FEATURES AND BENEFITS

- Easy and fast installation: only the hydraulic and electrical connections need to be made
- Modularity: 1, 2 or 3 dosing modules with or without tank; accumulation of DosaSkid® units possible; 2 piping and tank materials available
- **Process adaptability:** interchangeable pumps for easy adaptation to process changes
- Reliability and Safety: trade practices and NPSH respected; risks associated with piping connection errors avoided; metering equipment and piping protected
- Simple, rapid maintenance: easy access to components; modules 95 % identical
- A single supplier ensures proper installation operation: time savings (design, diagrams, negotiation, administrative operations), costs controlled
- Recognised know-how: pumps and accessories included in lists of approved suppliers to the largest companies
- Compact
- ATEX zone 2 upon request



Technical features

Dosing module

- Tubing: 316L stainless steel or C-PVC
- Connections and tubing: OD 1/2"
- Suction line comprising for each pump:
 - > 1 isolating valve
 - > 1 Y-filter: protection and improvement of dosing pump lifespans
 - > 1 battery limit inlet connection
- Suction connection: connection of the suction line of the modules
- Discharge line comprising for each pump:
 - > 1 safety valve: protection of piping and dosing pumps
 - > 1 isolating valve: simplified maintenance without production stoppage
 - > 1 pulsation dampener: smoothing of the injection flow and cavitation prevention
 - > 1 manometer with manifold: operating pressure measurement and display of pulsation damper efficiency
 - > 1 back-pressure valve if required by the service pressure: cavitation prevention
- Accessories: characteristics determined based on the application

Recommended dosing pumps

- Flow rate: up to 400 l/h (standard)
- Maximum permissible pressure: up to 64 barg (standard)
- Electric motor-driven pumps: GTMM (mechanically actuated diaphragm), mROY® XA and XB (hydraulically actuated diaphragm) and MILROYAL®
 D (plunger or hydraulically actuated diaphragm). For further details, refer to the technical data sheets of each pump
- Liquid ends (according to models): 316L S. S., C-PVC, PVDF, PP, slurries. Other materials upon request
- Installation of frequency inverters and actuators possible

Storage tank module with inspection hatch

316L S.S.

- 4 sizes: 200, 500, 1,000 and 1,500 litres
- Tubing: 316L stainless steel
- Filling: Ø 1" NPT
- Drain: Ø 1/2" NPT female with isolating valve
- Tank with sight flow indicator

HDPE

- 5 sizes: 60, 120, 250, 500 and 1,000 litres
- Tubing: 316L stainless steel or C-PVC
- Excellent resistance to corrosive chemicals, treated for UV protection
- Moulded graduation scale up to 500 litres
- \bullet Filling: Ø 140 mm for 60 to 500-litre tanks / 185 mm for 1,000-litre tank
- Drain: Ø 1/2" Gas female
- Max. temperature: +60°C (precautions for corrosive products)

Installation and test

- Connections (inlet/outlet): 1/2" NPT female
- Leak tested assembly and connection of pump(s) and accessories
- Indoor or outdoor installation, not exposed to direct sunlight, for the plastic version

Options

- Suitable for use in an explosive atmosphere area: ATEX zone 2 (gas)
- Other configurations upon request

Options for dosing module:

- Drip pan (304L S.S.): for the safety of the environment and users
- Back pressure valve (standard if pressure < 5 bar): siphonage prevention
- Calibration pot: precise pump calibration according to real operating conditions
- ON/OFF control box with emergency stop per pump module: simplified control
- Flange connections: perfect adaptation within the installation

Options for storage tank module:

- High speed electric mixer: homogenisation, dissolving, preparation of reagents, neutralisation
- ON/OFF control box with emergency stop for mixer: simplified control
- Level detector (low and high): optimum flow management, securing of the process
- Connection to dosing module: turnkey solution

Codification | Standard & options

Frame-mounted pump version Frame-mounted pump (including accessories, dosing pump(s) to be coded separately) Number of dosing modules 1 module 1 pump C-PVC tubing 316L stainless steel tubing / OPTIONS Frame option: Drip pan Without drip pan With 1 drip pan per pump module Dosing module option: Back pressure valve Without back pressure valve on discharge line With back pressure valve on discharge line - Mandatory if P < 5 bar **Dosing module option: Control** Without control box ON/OFF control box with emergency stop per pump module Dosing module option: Calibration pot Without calibration pot 1 calibration pot per pump module. Stainless steel if stainless steel tubing/PVC if C-PVC tubing. Volume determined automatically depending on associated dosing pump flow rate Connection option: Inlet and outlet flanges Standard inlet and outlet connections: 1/2" NPT female Inlet and outlet flange connection - Rating to be defined Dosing module option: Explosive atmosphere area (ATEX) Non-explosive atmosphere area AT Suitable for use in an explosive atmosphere area: ATEX zone 2 (gas)

• For more than one dosing module, add up the modules

Chemical injection package with storage tank version

STORA	STORAGE TANK MODULE											
MT	Modu	ile with 1 clo	osed storage tank with inspection hatch									
	Stora	ge tank mat	teria	rial								
	P	HDPE tank										
	S	316L stainle	ss st	eel tank	with sig	ght flow						
	Storage tank volume											
						HDPE	tank	316L S.S. tank				
		60	60 litres x				NA					
		120		120 litr		Х		NA				
		200		200 litres NA			4	Х				
		250		250 litr		X		NA				
		500		500 litr				Х				
		1,000		1,000 lit		Х		Х				
		1,500		1,500 lit		N/	4	Х				
				OPTION								
				lank n	nodule	option: Level detector Without level detector						
				NID								
				NB NH	_			detector				
				NB	NH		0	detector				
				IVD	INITI			nigh level detector	5			
						Idliki	Tank module option: Mixer					
						Without mixer						
						VDA With 1 tank-mounted high-speed mixer (1,500 rpm) Tank module option: Mixer control						
							Without control box					
							BC ON/OFF control box with emergency stop for Mixer option only					
							Tank module option: Hose for connection to pump module(s)					
								Without connecting hose				
									Hose for connection to C-PVC tubing/to 1 module			
								FP2	Hose for connection to C-PVC tubing/to 2 or more modules			
								FS1	Hose for connection to 316L S.S. tubing/to 1 module			
								FS2	Hose for connection to 316L S.S. tubing/to 2 or more modules			
MT	Р	120	/	NB	_	VDA	BC	FS2				

DOSING	G MODULE (TANK TO BE CODED SEPARATELY - SEE CODING ABOVE)													
MPC		Dosing unit for mounting with tank (including accessories, dosing pump(s) to be coded separately)												
	Number of dosing modules 1 1 module 1 pump 2 2 modules 1 pump 3 3 modules 1 pump Tubing material HDPE tank 316L S.S. tank													
	P C-PVC tubing x NA S 316L stainless steel tubing x x													
									X					
		/ OPTIONS Frame option: Drip pan — Without drip pan RE With 1 drip pan per pump module Dosing module option: Back pressure valve — Without back pressure valve on discharge line												
										· · · ·				
					n		With back pressure valve on discharge line - Mandatory if P < 5 bar Dosing module option: Control							
							— Without control box							
						БО								
					— Without calibration pot									
										t per pump module. Stainless steel if stainless steel tubing/PVC if C-PVC tubing.				
		Volume determined automatically depending on associated dosing pump flow rate												
							Connection option: Outlet flange — Standard outlet connection: 1/2" NPT female							
							R3 Outlet flange connection - Rating to be defined Dosing module option: Explosive atmosphere area (ATEX)							
								AT Suitable for use in an explosive atmosphere area: ATEX zone 2 (gas)						
MPC	2	S	/			BC	P1	R3						

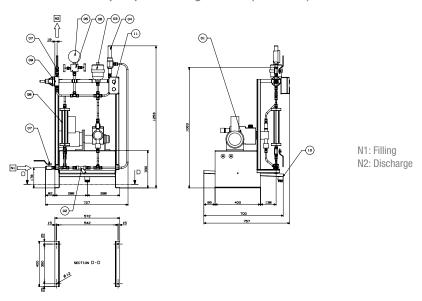




Dimensions

Dimensions (in mm)

• Frame-mounted pump - 1 dosing module (316L S.S.)

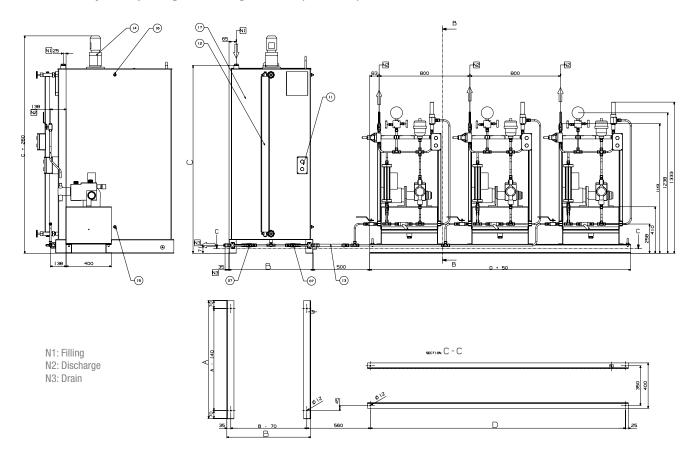


ITEM	DESCRIPTION			
Standard arrangeme	ent			
1	Dosing pump			
2	Y-filter			
3	Pulsation dampener			
4	Safety valve			
5	Manometer			
6	2-way manifold			
7	Isolating valve			
12	Sight flow indicator (316L S.S. tank only)			
17	Storage tank (chemical injection package only)			
Options				
8	Calibration pot			
9	Back pressure valve (standard if P < 5 bar)			
10	Drip pan			
11	ON/OFF control box			
13	Connecting hose			
14	Electric mixer			
15	Low level detector			
16	High level detector			

STORAGE TANK Module	A (mm)	B (mm)	C (mm)	NET WEIGHT (excluding options) (kg) (*)
316L S.S. version				
200 litres	490	490	1,156	66
500 litres	790	790	1,156	116
1,000 litres	1,040	740	1,656	173
1,500 litres	1,040	1,040	1,656	209
HDPE version				
60 litres	252	252	520	11
120 litres	252	252	865	12.5
250 litres	315	315	1,100	19
500 litres	431	431	1,220	33
1,000 litres	578	578	1,300	53

(*) Approximately

• Chemical injection package - 3 dosing modules (316L S.S.)



DOSING MODULE	D (mm)	NET WEIGHT (excluding pumps and options) (kg) (*)
1 dosing module	_	45
2 dosing modules	1 450	108
3 dosing modules	2250	160

^(*) Approximately

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