dioxide PACIFIC



Chemical Dosing Systems



Chemical Dosing Systems

SYSTEM IDENT CODE SELECTION

Use the data sheets on pages 3-9 to select ident codes for:

- DS (Dosing Skid)
- DP (Dosing Pumps)
- DI (Dosing Components)
- DT (Dosing Tank)
- DC (Dosing Control)
- TS (Transfer Station)
- BM (Building Mount)

Once the codes are selected, we can quickly provide a quotation. If you need assistance with selection of the codes, please contact us.

INTEGRATION AND INSTALLATION

All systems are provided with documentation for integration of the dosing system into your process: GA (General Arrangement) drawings; 3D Model; Electrical Wiring Diagram, and Operation Manual.

All systems are tested and pre-commissioned prior to delivery to ensure quick start-up without faults. Installation and commissioning can be done by your staff using the documentation provided. If you would like Dioxide Pacific to install and commission, we are happy to help.

HIGHEST QUALITY COMPONENTS

Dioxide Pacific use high quality, industrial grade components for lowest life cycle cost.

MAINTENANCE AND SPARE PARTS

All systems are provided with a comprehensive spare parts list and Dioxide Pacific maintains a large spare parts inventory.

Dosing Skid

DS	Dos	sing S	kid								
			Pumps								
	1	Duty									
	2	Duty	y/Standby								
	3		/Duty		ndby						
				wrate							
		15			r (0 – 5						
		20			/hr (5 -						
		25					25 GPH)				
		40	500				– 250 GPH)				
					ework		erial				
			U		/C Sch						
			С		/C Sch	80					
			P	PVI							
			E		TFE						
			F				PFA lined				
			S				th Swagelok style fittings				
			A B		s/s we		tube and fittings				
			D I		4 tube						
				FF	Elast						
				Е	EPDI						
				F	FPM/						
				P	PTFE						
				-			unting				
					НВ		PE backboard				
					НС		PE cabinet				
					FF		erstrut frame				
					SF		frame				
					SC	SS	cabinet				
							Splash protection				
						0	No splash protection – mounted directly on backboard				
						1	Localised splash protection for pumps only				
						2	Removable splash protection				
				3 Hinged splash protection (doors)							
				Leak detection							
					No leak detection						
							1 Leak detection switch in sump – HC model only				
							2 Leak detection switch in additional trip tray				
							Rating				
							0 Standard				
			I		I		1 Hazardous – Zone 1				
DS	2	15	U	F	НС	2	0 0				
D3		IJ	- 0	1	ПС						

Dosing Pumps

DP	Dos	ing pເ	amps								
			ufactur	er							
	Р		Prominent								
	G		Grundfos								
	M		n Roy								
	L		Pumps	}							
	F		Issue								
	0	Othe									
			Туре								
			Diaphr	agm							
			Perista								
			Other								
			F	lowrate)						
			9	Specify r	nax flov	vrate	in L/	_/hr or GPH			
					essure						
			_	Sp				ure in bar or psi			
					Elast		r				
				Е	EPDI						
				F	FPM						
				Р	PTFE						
								end material			
					PV	PV					
					PC	PV	<u> </u>				
					PP	PP PTI					
					TT SS			ss Steel			
					33	Sia		puts			
						0		anual run			
						1		s 0 + Pulse input			
						2		s 1 + 4-20mA input			
						_	710	Outputs			
							0				
							1	Fault relay			
							2				
							3	As 1 + 2			
								Diaphragm rupture output			
								No output or not applicable			
								1 Diaphragm rupture output			
								Degassing solenoid			
								0 No solenoid			
								1 Solenoid 24VDC			
								Rating			
								0 Standard			
								1 Hazardous – Zone 1			
DB	10				_ DV-						
DP	Р	D		F	PV	2	1	1 0 0			

Dosing Components

DI Dos	sing co	ompor	nents								
	Calik	oration	ration cylinder								
0	No c	alibrati	ibration cylinder								
1	Calib		ation cylinder sized for 1.5 min of drop test								
			Pressure Measurement with gauge guard No gauge								
	G0										
	G1		ommon pressure gauge								
	G2				per p						
	G3				ure Inc						
	G4	Pres			ting Tr	ansn	nitter	per p	ump		
					sure load						
					ure loa						
					pressu						
		L2	Pres	sure	load va	aive j	per pu	ımp			
			P0					alı (a			
			PU P1		pressu				valve		
			P2		mmon ssure						
			T Z	716	Puls						
				0	Nop						
				1					damper	er	
				2					r per pu		
					. 3100				on pres		relief
					0		flows				
					1					pressi	ure relief
									nitorin		
						0	No	flow r	monitori	ng	
						1			n flow m		
						2	Flov		nitoring		
									w Moni	toring	Туре
							0	Nor			
							1		gnetic fl		eter
							2		w switch		
							3		w meter		output 20mA and pulse output
							4	VΑ	Flush		
								0	No flus		
								1			nts on pumps
								2			ng points on skid
											r/Dilution Water
											rier/dilution water
											water line on skid
											rotameter and diaphragm valve
											solenoid with bypass
											low flow switch
											low flow switch
											Option 5 mounted in external cabinet
											Carrier water pump
									8 /		Duty/standby carrier water pump
											trainer
	A. Ill										o strainer
	1										x strainer
										2 2	x strainer
		1 1									Rating
			A								O Standard Hazardous – Zone 1
	l		W	I	I	I	I	l	ı İ		i iazaiuous – zoile i
DI 1	G1	L1	P1	1	10	0	1	2	5	1	0
DI I			W.		10	U			J		

Dosing Tank

Specify nominal volume in L or GAL Material Montarial M	DT	Dosir	ng tank										
Specify normal volume in L or GAL Material M0 HDPE M1 HDPE double skinned M2 Rotomoulded MDPE M3 Fiberglass M4 Steel M5 IsC/Tote with spill pallet M8 IsC/Tote with spill pallet M8 IsC/Tote with therplass bund M9 IsC/Tote with Horplass bund M1 IsC/Tote with Horplass bund M2 IsC/Tote with Horplass bund M3 IsC/Tote with Horplass bund M4 IsC/Tote with Horplass bund M5 IsC/Tote with Horplass bund M6 IsC/Tote with Horplass bund M6 IsC/Tote with Horplass bund M7 IsC/Tote with Horplass bund M8 IsC/Tote with Horplass bund M8 IsC/Tote with Horplass bund M9 IsC/T	DI	DOSII											
Material M0 HDPE M1 HDPE double skinned M2 Rotomoulded MDPE M3 Fiberglass M4 Steel M5 Steel M6 IBC/Tote M7 IBC/Tote with split patient M8 IBC/Tote with programs bund M9 IBC/Tote with fiberglass bund M9 IBC/Tote M9 IBC/T													
M1 HDPE double skinned M2 Rotomoulded MDPE M3 Fiberglass M4 Steel M5 Stanless Steel M6 IBC/Tote with spill pallet M8 IBC/Tote with liberglass bund M9 IBC/Tote with liberglass bund M1 IV			Speci										
M1 HDPE double skinned M2 Rotomoulded MDPE M3 Fiberglass M4 Steel M5 Stainless Steel M6 IBC/Tote M7 IBC/Tote with spill pallet M8 IBC/Tote with spill pallet M8 IBC/Tote with spill pallet M9 IBC/Tote with spill pallet			140										
M2 Rotomoulded MDPE M3 Fiberglass M4 Street M5 Stimless Steel M6 IBC/Tore with spill pallet M6 IBC/Tore with piberglass bund M8 IBC/Tore with hDPE bund Colour B Black N Natural (opaque) W White P Painted Visual level indication NVI No level indication (opaque tanks visual possible) Sight gauge SiTi Sight gauge with isolation MLI Magnetic level indicator Discrete level measurement (capacitive measurement) L0 No discrete level measurement L1 1, switch: low level L2 2, switch: low and high level L3 3, switch: low low, low and high level L4 3, switch: low, low, low, high and high high level L5 4 x switch: low, low, low, high and high high level L6 4 x switch: low low, low and high level L7 4 x switch: low low, low and high level L8 4 x switch: low low, low and high level L9 4 x switch: low low, low, high and high high level L9 4 x switch: low low, low, high and high high level L9 4 x switch: low low, low, high and high high level L9 4 x switch: low low, low and high level L9 4 x switch: low low, low, high and high high level L9 4 x switch: low from low, low and high level L9 4 x switch: low from low, low and high level L9 4 x switch: low from low, low and high level L9 4 x switch: low from low, low and high level L9 4 x switch: low from low, low and high level L9 4 x switch: low from low, low and high level L9 4 x switch: low for measurement C0 No continuous level measurement C1 1 x switch: low from level measurement C2 4 x low from teasurement C3 10 x low low, low, high and high high level C4 1 x low from teasurement C5 1 x switch: low for from teasurement C6 1 x low from teasurement C7 1 x low from teasurement C8 1 x low from teasurement C9 1 x low from t													
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Sight gauge with isolation MLI Magnetic level indicator Discrete level measurement (capacitive measurement) L0 No discrete level measurement L1 1 x switch: low level L2 2 x switch: low low, low and high level L3 3 x switch: low, low, low and high level L4 3 x switch: low, low, low and high high level L5 4 x switch: low low, low, high and high high level Continuous level measurement C1 4-20mA from tank mounted ultrasonic C2 4-20mA from standpipe mounted ultrasonic C3 4-20mA from magnetic level indicator C4 4-20mA from magnetic level indicator C4 4-20mA from pressure transducer (gauge guard mounted) C5 4-20mA from tank mounted radar Inlet and overflow vising 00 Not applicable 15 0.5" inlet, 1" overflow 25 1" inlet, 1.5" overflow 20 2" inlet, 3" overflow Outlet valve sizing 15 0.5" outlet 27 untlet 10 No load cells 1 Load Cells Load Cells Load Cells Actuated valve 0 No actuated valve 1 Actuated valve 1 Actuated valve 0 No actuated valves 1 Actuated valve in Inlet and in Hazardous – Zone 1									(Spage				
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Continuous level measurement No continuous level measurement 1 4-20mA from tank mounted ultrasonic 2 4-20mA from standpipe mounted ultrasonic 3 4-20mA from magnetic level indicator 4 4-20mA from magnetic level indicator 4 4-20mA from pressure transducer (gauge guard mounted) 1 4-20mA from tank mounted radar Inlet and overflow sizing No Not applicable 15 0.5" inlet, 1" overflow 25 1" inlet, 1.5" overflow 25 1" inlet, 2" overflow Outlet valve sizing 15 0.5" outlet 2" inlet, 3" overflow Outlet valve sizing 15 0.5" outlet 2 1" outlet 40 1.5" outlet 50 2" outlet Load Cells (weight measurement) No load cells Actuated valve No No actuated valves Actuated valve on tank outlet Rating Standard Hazardous – Zone 1						L4	3 x sv	vitch: I	ow, hig	h and l	high high level		
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15							C5	4-201					
15											<u> </u>		
1.5" inlet, 1.5" overflow													
1.5" inlet, 2" overflow								15					
Dutlet valve sizing								25					
Dutlet valve sizing								40					
Outlet valve sizing								50	2" inl	et, 3" o	overflow		
15 0.5" outlet 25 1" outlet 40 1.5" outlet 50 2" outlet Load Cells (weight measurement) No load cells Load cells Load cells Actuated valve No actuated valves Actuated valve on tank outlet Rating O Standard Hazardous – Zone 1													
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40 1.5" outlet 50 2" outlet Load Cells (weight measurement) No load cells Load cells Actuated valve No actuated valves Actuated valve on tank outlet Rating Standard Hazardous – Zone 1													
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1 Hazardous – Zone 1				/ 10									
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DT M0 B STI L4 C2 25 25 0 1 0	1		l	1		I	I	l	I	i İ	I IdZaIdous - Zolie I		
D1 W0 D S11 L4 C2 23 23 0 1 0	DT		MO	В	STL	LA	C2	25	25	0	1 0		
	וע		IVIU	В	311	L4	-GZ	23	- 23	0	· ·		

Dosing Control

DC	Dos	ing Cont	rol								
		Enclosure									
	Т	Thermo	plas	plastic IP66							
	S			s steel 316, IP65							
	F	FRP IP									
	S	Powder	coa	ted ste	el, IP5	6					
			PLO	_							
		MIC				croLogix 1400					
						ontrolLogix 1756					
						ompactLogix 1769					
		PAN		nasoni							
		SCH			r M340						
		SIE			S7-300						
		KO6		o DL0							
		K45	Koy	<u>/o 450</u>							
				НМІ							
			0			ghts and switches only					
			1			308 7.5 inch TFT colour					
			2			306 5.7 inch TFT colour 304K2 4.3 inch colour					
			4			ey Panelview Plus 700 - 6.5 inch TFT colour					
			5			ey Panelview Plus 1250 - 12 inch TFT colour					
			6			ey Panelview Plus 1500 – 15 inch TFT colour					
			7			KBTGT 12 inch TFT colour					
			8			10TC 10 inch TFT colour					
					Form						
				1F	Form	1					
				2A	Form	2a					
				2B	Form						
					Form						
				3B	Form						
						LV/ELV Separation					
					00	Not applicable					
					SV	All voltages in one panel (24VDC, 220-240VAC, 415-480VAC)					
					SV	LV and ELV separate panels (24VDC separate to 220-480VAC) Mounting					
						<u> </u>					
				Wall mountFloor mount							
						Entry					
						Bottom cable entry					
						1 Side cable entry					
						2 Top cable entry					
						Rating					
						0 Standard					
	7					1 Hazardous – Zone 1					
DC	F	CON	1	1F	AV	0 0 0					

Transfer Station

TS	Tra	ansfer Station										
		Tank	Tank feeds									
	1	1 tank	k fed									
	2	2 tank	ks fed	b								
	3	3 tank	ks fed	b								
			Isol	ation	valves on feeds							
		M	Mar	nual								
		Α	Acti	uated								
				Tank	a level indication							
			1		ay of level switches							
			2		ay of tank volumes							
			3	1 + 2								
					Transfer power supply							
				SF	1 phase, 240VAC plug with isolator							
				TF	3 phase, 415VAC plug with isolator							
				DF	SF + TF							
				AD	Solenoid for air driven transfer							
					Rating							
					0 Standard							
					1 Hazardous – Zone 1							
TS	1	MO	1	TF	0							

Building Mount

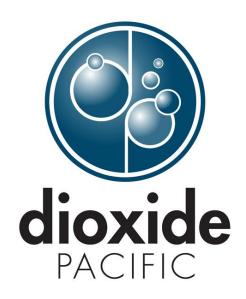
BM	Porta	able Building Mount							
	1 0100	Building Type							
	В0	Not Included							
	B1	Galvanised steel chassis with foam sandwich walls							
	B2	Concrete base with foam sandwich walls							
	В3	Full concrete building							
	B4	20ft standard shipping container – used and refurbished							
	B5	20ft standard shipping container - new							
	В6	40ft standard shipping container – used and refurbished							
	B7	40ft standard shipping container - new							
	B8	20ft high cube shipping container – used and refurbished							
	В9	20ft high cube shipping container – new							
	B10	40ft high cube shipping container – used and refurbished							
	B11	40ft high cube shipping container – new							
	B12								
		Lightning Protection							
		0 Not included							
		1 Included							
		Cyclone Rating							
		0 Not included							
		1 Included							
		Epoxy Painting							
		Not included (standard building paint finish)							
		1 Inside only (chemical resistance for chemical stored in building)							
		Outside only (weather protection) 1 + 2							
		3 1 + 2 Air Conditioning							
		0 Not Included							
		1 Included							
		Ventilation							
		0 Not Included							
		1 Roof fan only (not powered)							
		2 1 + vents in building wall							
		3 Powered fan + vents in building wall							
		Emergency Exit Light							
		0 Not Included							
		1 Included							
		Building Lights							
		0 Not Included							
		1 Fluorescent lamps to suit building size							
		Single Phase Power Outlet							
		0 Not Included							
		1 One included							
		2 Two Included							
		Three Phase Power Outlet							
		0 Not Included							
		1 One included Safety Shower and Evoyash							
		Safety Shower and Eyewash Not Included							
	10	1 One inside the building							
		2 1+ one outside the building							
		The outside the building							
ВМ	B1	0 0 0 0 0 1 1 1 0 0							
-51VI									

Features and Benefits

FEATURE	BENEFIT	WHAT THIS MEANS FOR YOU
All systems manufactured by Dioxide Pacific personnel with more than 20 years' experience in chemical dosing systems	High quality manufacture produces long term reliability and low probability of failure	Lowest lifetime cost of ownership and minimum downtime over equipment life
3D CAD used to model all systems	Systems are consistent so you can confidently use the data we provide to integrate into your plant	When you receive the plant, it will be exactly the same as the 3D model we provide at time of order. No surprises
High quality, commonly used components	Probability of component failure is low, spare parts and replacement are available worldwide	You won't be stuck waiting for replacement parts with the system offline
Duty/standby operation based on time and fault	If the duty dosing pump goes into fault, swap over occurs automatically to the standby dosing pump. Duty and standby dosing pumps will swap on an adjustable time basis if no faults present.	You will always have continuity of dosing. If dosing of the chemical is critical then this duty/standby option should be selected.
Duty/duty/standby operation based on time and fault. In this case, you have two separate dosing points with one common standby pump.	If either duty dosing pump goes into fault, swap over occurs automatically to the standby dosing pump. Duty and standby dosing pumps will swap on an adjustable time basis if no faults present.	You will always have continuity of dosing. If dosing of the chemical is critical then this duty/standby option should be selected.
Choice of pipe materials to suit the chemical. UPVC, CPVC, PVDF or Carbon Steel – PFA Lined.	These common materials will suit most chemicals and the correct materials will be selected to suit your chemical	You can have full confidence in the chemical resistance of the pipe materials
Choice of seal materials to suit the chemical. EPDM, FKM (Viton), PTFE	These common materials will suit most chemicals and the correct materials will be selected to suit your chemical	You can have full confidence in the chemical resistance of the seal materials
Safety is a high priority in design. You can choose to have the dosing equipment mounted in a HDPE or SS cabinet with splash protection	All the equipment in contact with chemical is fully enclosed. If a leak occurs, it will be contained and will not come into contact with the operator	You can safely work around and maintain the equipment without fear of chemical splashes

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Last Modified: 30 September 2015

FEATURE	BENEFIT	WHAT THIS MEANS FOR YOU
Major reputable brands of dosing pump can be used on our systems	If you have a preference for a particular brand we can accommodate it	You can minimize spare parts kept at your site and you will be familiar with the dosing pump you have selected
Dosing skids can be customized with only the components you need for your application e.g. for long dosing lines and smooth flow a pulsation dampener can be selected	No need to pay for unnecessary features that never get used.	Your capital (purchase) cost is kept as low as possible while still maintaining highest quality and system integrity
Bulk chemical storage can be perfectly integrated with the chemical dosing system by your choice of the tank and tank options	Single source supply for chemical tank, instrumentation and dosing system keeps the responsibility for performance with Dioxide Pacific.	Your plant will fit together like a glove and work seamlessly as all components including tank, instrumentation and dosing equipment are designed to work together
The TS Transfer Station is a HDPE cabinet with inlet manifold suited to the chemical. Controls for start/stop and run/fault for transfer pump and level switch display optional	Bulk chemical transfer using the Dioxide Pacific TS transfer station makes power supply and chemical transfer from tanker to tank easy	Your safety is maintained during transfer of chemical from tanker to bulk tank
The dosing system can be supplied with an electrical control panel which operates all of the electrical devices, monitors instrumentation inputs and is remotely accessible via the internet	The dosing plant comes to you fully assembled, wired and tested including all of the plant logic operated by PLC and HMI. You don't need to do any customization or fault finding on site	Having the ability to control the system easily from one HMI location, including manual operation of individual items for testing or calibration is provided to make your life easier. Remote internet access with email alarms, allows for simple and quick troubleshooting without the need for a site visit – reducing your service costs.



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