Pulp and Paper

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Area	Туре	Application	Valve Type	Considerations
	•	Pulp	Mill 1	
		Liquor fill valve	CV500 eplug™ valve	
		White liquor to digester valve	V300 Vee-Ball [®] valve	
	Directly steamed	Black liquor to digester valve	CV500 eplug valve	
	batch digester	Blow-back steam valve	V300 Vee-Ball valve	
		Gas-off valve	V500 eplug valve	
	· · · ·	Cooking valve	CV500 eplug valve	Alloy 6 trim is recommended to prolong valve life
		Liquor fill valve	CV500 eplug valve	
	1 30	White liquor to digester valve	V300 Vee-Ball valve	
	Y	Black liquor to digester valve	CV500 eplug valve	Optional sealed bearings can help ensure longer life and smooth stroking
Digester		Blow-back valve	V300 Vee-Ball valve	
		Gas-off valve	V500 eplug valve	Sealed bearings can prevent impurities from seizing up the valve.
	Indirectly steamed	Indirect steam valve	EZ easy-e [®] valve	WhisperFlo [™] trim is recommended to minimize noise
	batch digester	Digester top recirculation valve	CV500 eplug valve	Straight-through flow path allows high consistency stock flow
		Digester bottom recirculation valve	CV500 eplug valve	Alloy 6 trim is recommended to improve erosion resistance
		Condensate return valve	V500 ēplug valve	Reversible seat ring helps prevent downtime
		Direct steam valve	CV500 eplug valve	Free-floating seat allows self-centering of the of the ball for superior cycle life
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK [®] desuperheater	External spraywater control valve required.

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Area	Туре	Application	Valve Type	Considerations
		Warm liquor to Warm fill pump valve	PSP POSI-SEAL ® package, A41 POSI-SEAL valve	Soft seal recommended for tight shutoff in both directions
		Mill water temperature control valve through cooler	V150 Vee-Ball ® valve	A stainless steel body with alloy 6 inlay is recommended for this extremely erosive application
	Warm black liquor accumulator	Digester liquor return header valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions
		Warm liquor flow valve through liquor cooler	V300 Vee-Ball valve	A stainless steel body is recommended for corrosion resistance
		Warm fill control valve	V300 Vee-Ball valve	
	Cool black liquor and displacement tank	Digester liquor return header valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	
Batch digester—low-energy		Displacement tank bypass valve	PSP POSI-SEAL package, A41 POSI -SEAL valve	Soft seal recommended for tight shutoff in both directions
process		Cool liquor level control valve to liquor filter	V150 Vee-Ball valve	
		Warm liquor to cool-temperature control valve	ED easy-e [®] valve	
		Cool liquor pad to Warm fill pump valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	A horizontal shaft position is recommended to prevent excess wear of the bearings
		Brown stock filtrate level control valve	V150 Vee-Ball valve	
	Hot black liquor accumulator and white liquor accumulator	Digester liquor return header valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions
		Cool white liquor to heat exchanger valve	V300 Vee-Ball valve	
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK desuperheaters	External spraywater control valve required.
	,	Hot liquor to hot fill pump valve	V300 Vee-Ball valve	Alloy 6 trim recommended to help prevent erosion damage and prolong valve life

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Area	Туре	Application	Valve Type	Considerations		
		First-through sixth-effect liquor level valve	V150 Vee-Ball [®] valve	Alloy 6 seal and bearings are recommended for exceptional erosion resistance		
		First-through sixth-effect condensate level valve	V150 Vee-Ball valve	HD (heavy-duty) metal seal is recommended to help prevent erosion damage. Low pressure drops and flow rates are recommended		
		Clean condensate flash tank level valve	ET easy-e [®] valve			
		Intermediate product liquor flash-tank level valve	V150 Vee-Ball valve	Hardened trim recommended. There is a high probability of cavitation and vibration in this application.		
		Soap-skimming tank level valve	V150 Vee-Ball valve	HD (heavy-duty) metal seal is recommended for higher pressure drops		
		Foul-condensate hotwell level valve	ED easy-e valve	Anti-cavitation trim is available		
		Concentrator condensate level valve	ET easy-e valve			
		Concentrator liquid level valve	V150 Vee-Ball valve			
		Product liquor flash tank level valve	V150 Vee-Ball valve	Alloy 6 inlay is recommended for resistance to cavitation and erosion		
	Black liquor evaporators/ concentrators		Steam to first-effect valve	EWD easy-e [®] valve	Restricted-capacity trim is recommended if flow demands might require higher capacity and full-size trim later	
		Flash steam from Intermediate product flash tank valve	8560 edisc [®] valve			
Recovery cycle		Flash steam from clean condensate flash tank valve	8560 edisc valve			
		Steam to concentrator valve	EWD easy-e valve	Restricted-capacity trim is recommended if flow demands might require higher capacity and full-size trim later		
		Vapor from concentrator valve	8532 edisc valve	Soft seat recommended for better shutoff		
	- Willie	Flash steam from product liquor tank valve	V150 Vee-Ball [®] valve			
	- Winner	- A WHAN - C	- White Se	Contaminated condensate to sewer valve	PSP POSI-SEAL [®] package, A41 POSI-SEAL valve	
		Soap to processing valve	V150 Vee-Ball valve			
		Liquor feed to fifth- and sixth-effect valve	V150 Vee-Ball valve	An HD (heavy-duty) metal seal is recommended for higher pressures and greater resistance to cavitation damage		
		Cooling Water to condenser valve	8532 edisc valve			
		Steam to NCG (non-condensible gas) ejector valve	EZ easy-e valve	WhisperFlo™ trim recommended for noise reduction		
		NCG (non-condensible	V150 Vee-Ball valve			
		gas)-to-incinerator valve	V300 Vee-Ball valve	For higher pressures		
		Feed liquor to concentrator valve	V150 Vee-Ball valve			
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK [®] desuperheater	External spraywater control valve required.		

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Area	Туре	Application	Valve Type	Considerations
		Digester hot header return valve	PSP POSI-SEAL [®] package, A41 POSI-SEAL valve	
		Digester warm header return valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	Counterclockwise disk rotation is recommended
		Digester main pressure control valve	CV500 ēplug ™ valve	
		Air receiver to digester valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	A horizontal shaft position is recommended to prevent excess wear of the bearings
		Digester air-evacuation valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	Wafer or single–flanged construction available
		Relief to blow tank valve	CV500 eplug valve	
		Digester steam packer valve	CV500 eplug valve	An oversized actuator is recommended
Detab		Digester relief to hot accumulator valve	CV500 eplug valve	
Batch digester—low-energy process	Digester	Digester relief screen blow-back valve	CV500 eplug valve	
process		Digester top recirculation valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions
		Digester sparger steam valve	ED easy-e ® valve	
	- Thursday	Digester bottom recirculation valve	PSP POSI-SEAL [®] package, A41 POSI-SEAL valve	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions
		Digester cone flush dilution valve	CV500 ēplug [™] valve	
		Digester displacement fill valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	
		Digester warm-fill inlet valve	CV500 eplug valve	
		Digester hot-fill Inlet valve	PSP POSI-SEAL package, A41 POSI-SEAL valve	
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK [®] desuperheater	External spraywater control valve required.

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Area	Туре	Application	Valve Type	Considerations
		BLOX tank-level control valve	V150 or V200 Vee-Ball [®] valves	Anti-cavitation trim might be necessary if the process contains high pressure drops
		Sluice tank-level control valve	V150 or V200 Vee-Ball valves	
		DCE (direct-contact evaporator) level control valve	V150 or V200 Vee-Ball valves	
		Black liquor emergency divert valve	V150 or V200 Vee-Ball valves	For higher pressure drops, used a flanged Design V150 valve
		Black liquor recirculation flow or pressure control valve	V150 or V200 Vee-Ball valves	
		Auxiliary fuel/natural gas regulator	1098-EGR regulator	
		Auxiliary fuel/fuel oil valve	EZ easy-e® valve	
		Black liquor shutoff valve	V150 or V200 Vee-Ball valves	Sticking can occur; consider an oversized actuator
Recovery cycle	Kraft recovery boiler	Green liquor from dissolving tank valve	V500 ēplug ™ valve	For longer service life, use ceramic trim and reverse the flow
	black-liquor system	Weak wash to dissolving tank valve	V150 or V200 Vee-Ball valves	
		Weak wash to scrubber valve	V150 or V200 Vee-Ball valves	
		Sootblower steam valve	ES easy-e valve	A welded stem and plug assembly is recommended
		Smothering steam to precipitator valve	EZ easy-e valve	
		Smothering steam to DCE (direct-contact evaporator) valve	EZ easy-e valve	WhisperFlo [™] trim is recommended to minimize noise
		Steam to mix tank valve	EZ easy-e valve	WhisperFlo [™] trim is recommended to minimize noise
	- TANNIE -	Steam to black liquor header valve	EZ easy-e valve	Stainless steel body and trim are recommended to provide resistance to erosion damage
		Steam to air preheater valve	EZ easy-e valve	
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK [®] desuperheater	External spraywater control valve required.

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Area	Туре	Application	Valve Type	Considerations		
		Steam to green liquor heater valve	EZ easy-e ® valve	Stainless steel body and trim are recommended to provide resistance to erosion damage		
		Green liquor from dissolving tank valve	V500 ēplug ™ valve			
		Lime mud to dregs filter valve	V500 eplug valve	Ceramic trim is recommended for this highly erosive application		
		Dregs slurry Underflow from green liquor clarifier valve	V500 eplug valve	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage		
		Clarified green liquor to slaker valve	V150 Vee-Ball[®] valve	A stainless steel body might be needed to prevent corrosion		
		Lime mud slurry underflow from white liquor clarified valve	V500 eplug valve	Ceramic trim is recommended for this highly erosive application		
		Clarified white liquor to digester valve	V300 Vee-Ball valves			
		Lime mud washer Underflow	V500 eplug valve	Ceramic trim is recommended for this highly erosive application		
		Weak wash to dissolving tank	V150 Vee-Ball valve	A stainless steel body might be needed to prevent corrosion		
		Dilution water for lime mud transfer valve	EZ easy-e valve	Hardened trim is recommended to protect against erosion		
		Lime mud to filter valve	V500 eplug valve	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage		
	Decousticizing and	Natural gas to lime kiln burner valve	V150 Vee-Ball valve	A soft seal is recommended for tight shutoff		
Recovery cycle	Recausticizing and lime recovery systems	Fuel oil to lime kiln burner valve	EZ easy-e valve	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions		
		White liquor recirculation to causticizer valve	A31A POSI-SEAL [®] valve			
		White liquor feed to pressure filter valve	A31A POSI-SEAL valves	Purged bearings can help improve valve life		
	- A HINNE	Lime mud slurry underflow from white liquor pressure filter valve	V500 ēplug valve	A stainless steel body with alloy 6 inlay is recommended for this extremely erosive application. Using reverse flow can also reduce damage to the valve body.		
		Lime mud feed to pressure filter valve	A31A POSI-SEAL valves			
		Lime mud recirculation to lime mud mixer valve	A31A POSI-SEAL valve			
	$\mathcal{F}_{\mathcal{O}}$	Lime mud pressure filter underflow valve	V500 eplug valve	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage. Ceramic trim is also recommended.		
		Dregs precoat filter level valve	V500 ēplug valve			
		Causticizer level valve	V500 eplug valve			
				Lime mud filter level valve	V500 eplug valve	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage. Ceramic trim is also recommended.
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK [®] desuperheater	External spraywater control valve required.		

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Area	Туре	Application	Valve Type	Considerations		
		High-pressure feeder purge valve	V300 Vee-Ball ® valve	An alloy 6 inlay can provide resistance to erosion		
				White liquor to bottom circulation valve	V300 Vee-Ball valve	A stainless steel body with an alloy 6 V-notch is recommended
		White liquor flow to modified cooking circulation valve	V300 Vee-Ball valve	A stainless steel body with an alloy 6 V-notch is recommended		
		White liquor flow to make-up liquor line valve	V300 Vee-Ball valve			
		Steam temperature control (desuperheater)	DMA/AF or DVI CON-TEK [®] desuperheater	External spraywater control valve required.		
		Black liquor flow valve	V150 Vee-Ball valve	A stainless steel body with an alloy 6 V-notch is recommended		
		Blow line flow valve	V300 Vee-Ball valve			
		Inner counterwash flow valve	V300 Vee-Ball valve			
		Digester outlet device differential pressure valve	V300 Vee-Ball valve	A stainless steel body with an alloy 6 V-notch is recommended		
		Chip chute level valve	V150 Vee-Ball valve	An alloy 6 inlay can provide resistance to erosion		
		Level tank level valve	V500 Vee-Ball valve	A rotary attenuator is available to reduce noise in high pressure drop applications		
		Flash-tank level valve	8560, 8532 edisc [®] valves			
		Steam vessel pressure valve	V150 Vee-Ball valves			
Kamyr continuous digester	Dual- or single-vessel digester	Steam vessel safety Crelief valve	V150 Vee-Ball valves			
		Digester pressure relief valve	CV500 ēplug ™ valve	Optional sealed bearings can help ensure longer life and smooth stroking		
		Digester pressure valve	V300 Vee-Ball valves			
		Flash steam pressure valve	8560 or 8532 edisc valves			
	- Hilling	Chip bin temperature valve (steam from flash tank #2)	8532 edisc valve	A metal seal is recommended for resistance to erosion		
		Chip bin temperature valve (steam from low-pressure steam line)	V150 Vee-Ball valves	An alloy 6 inlay will provide resistance to erosion		
		Modified cooking circulation temperature valve	V300 Vee-Ball valves			
		Wash circulation temperature control valve	V300 Vee-Ball valves	A stainless steel body with an alloy 6 V-notch is recommended		
		Steaming vessel relief valve	V150 Vee-Ball valves	A rotary attenuator is available to reduce noise in high pressure drop applications		
		Steaming vessel relief screen blowback valve	V500 ēplug valve			
					Steaming vessel relief screen	V300 Vee-Ball valves
		blowback valve				

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Area	Туре	Application	Valve Type	Considerations
		Modified cooking circulation flow valve	8560 edisc [®] valve	
		Wash circulation flow valve	V300 Vee-Ball [®] valves	
		Top circulation Isolation valve	Large full-bore ball valve	Contact your Fisher sales office
		Top circulation pressurization valve	V300 Vee-Ball valves	For low pressure drop applications, consider the Design V150 or V200 Vee-Ball valve
		Blow-line Isolation valve (on-off)	Large full-bore ball valve	Contact your Fisher sales office
		Blow-line dilution valve (throttling)	V300 Vee-Ball valves	An alloy 6 Inlay is essential to protect valve body against erosion. Alloy 6 bearings will provide extended valve life.
		Digester sample valve	Large full-bore ball valve	Contact your Fisher sales office
		Blow-line sample valve	CV500 ēplug ™ valve	
		White liquor to sand-separator valve	V500 ēplug valve	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage
		Digester Extraction switching valve	DSV (contact your Fisher sales office)	
	Dual- or single-vessel	Modified cooking extraction switching valve	DSV (contact your Fisher sales office)	
	digester	Wash extraction switching valve	DSV (contact your Fisher sales office)	
		Sand separator dump valve	Large full-bore ball	Contact your Fisher sales office
Kamyr continuous digester		M.C. (modified-cooking) heater condensate level valve	V500 ēplug ™valve	
		Wash heater Condensate valve	V500 eplug valve	High probability or vibration or cavitation damage
		B.C. (bottom-circulation) heater condensate level valve	V500 ēplug valve	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage
		Condensate flash-tank level valve	V150 Vee-Ball [®] valves	
		Condensate conductivity to tank valve	V300 Vee-Ball valves	Reverse flow with a sacrificial spool piece of pipe to minimize valve damage
		Condensate conductivity to dump valve	V300 Vee-Ball valves	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions
		Water conductivity to dump valve	V150 Vee-Ball valves	A composition ball seal can provide Class VI shutoff
	Dual-vessel digester	Bottom circulation flow valve	V300 Vee-Ball valves	A stainless steel body and alloy 6 inlay are recommended for this erosive application
		Impregnation vessel bottom dilution (lower) valve	V300 Vee-Ball valves	
		Impregnation vessel bottom dilution (upper) valve	V300 Vee-Ball valves	
		Impregnation vessel relief valve	CV500 eplug valve	
		Bottom circulation temperature valve – continu	V300 Vee-Ball valves	A stainless steel body with an alloy 6 V-notch is recommended

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amyr continuous digester Trim liquor downflow valve V300 Vee-Ball® valve Dual-vessel digester Bottom circulation Isolation valve Large full-bore ball valve (Contact your Fisher sales office) Dual-vessel digester Impregnation vessel cooling liquor flow valve V300 Vee-Ball valve Bottom circulation return switching DSV (contact your Fisher Sales office) Bottom circulation screen backflush valve DSV (contact your Fisher sales office) First-stage backflush valve 8560 ēdisc ® valve First-stage filtrate tank (bypas) valve 8560 ēdisc valve First-stage filtrate tank (bypas) valve 8560 ēdisc valve Second-stage Second-stage filtrate tank (level xalve 8560 ēdisc valve A horizontal shaft position is recommended to prevent excess wear of the bearings Diffusion washer Diffusion washer First-stage backflush tank level makeup valve 8560 ēdisc valve ENVIRO-SEAL® packing is recommended to control caustic liquid emissions	Area	Туре	Application	Valve Type	Considerations
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Area	Туре	Application	Valve Type	Considerations
		Contaminated condensate dump valve	V500 ēplug ™ valve	
		Condenser hotwell recirculation valve	V500 ēplug valve	
		Condenser/cooling tower water valve	PSP POSI-SEAL [®] package, A41 POSI-SEAL valves	
		Sootblower steam valve	ED easy-e ® valve	A welded stem and plug assembly is recommended
		High-pressure steam vent valve	HP valve, CVX-P CON-TEK [®] valve	Low-noise trim is available
	M	Superheater attemperation Water valve	HP valve	High-pressure application
Recovery or power boilers	Water/steam power cycle	Continuous blowdown valve	HP valve	
		Intermittent blowdown valve	HP valve	A welded plug and stem assembly is recommended
		High/medium steam pressure-reducing	EHA valve	Angle valve changes the angle of impingement and can greatly improve valve life
		valve	CVX-P CON-TEK valve	Larger sizes, higher pressures and temperatures
		Medium/low steam pressure-reducing	EHA valve	Angle valve changes the angle of impingement and can greatly improve valve life
		valve	CVX-P CON-TEK valve	Larger sizes, higher pressures and temperatures
		High/medium or medium/low steam-conditioning valve	CVX-A or CVX-C CON-TEK valves	
		Main steam to process valve	CVX-P CON-TEK valve	
Steam		Main process to low-pressure let-down	CVX-C CON-TEK valve	Steam conditioning valve
	The start	Second-stage Wash flow valve	8560 edisc [®] valve	A horizontal shaft position is recommended to prevent excess wear of the bearings
Kamyr continuous digester	* - 3°C	Blow-line Isolation from diffusion Washer valve	Large full-bore ball valve	Contact your Fisher sales office
		Blow-line Isolation from high-density storage valve	Large full-bore ball valve	Contact your Fisher sales office
	Diffusion washer	First-stage extraction flow valve	V150 Vee-Ball [®] valves	
		Second-stage Wash Isolation valve	V150 Vee-Ball valve	
		Second-stage extraction flow valve	V150 Vee-Ball valve	ENVIRO-SEAL [®] packing is recommended to control caustic liquid emissions
		Filtrate to digester temperature valve – continu	V150 Vee-Ball valve	

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Area	Туре	Application	Valve Type	Considerations
	L	Basis Weight	Control	
Basis weight control			Basis weight control assembly	System includes Vee-Ball valve, electric actuator, and control system. Contact your Fisher sales office.
		Paper Ma	chine	•
	Wet end	Steam temperature	DMA/AF or DVI	
	Dryer section	control (desuperheater)	CON-TEK [®] desuperheaters	External spraywater control valve required.
			51000 valve	For very low flows
	Dye addition	Dye addition into the mix box	24000C Steel Little Scotty valves, 24000S Series valves	Steel and stainless steel globe valves, DN 15 to DN 80 or 1/2 to 3 inches
		Heater drain	42000 valve	Eccentric-plug rotary valve, DN 25 to DN 150 c 1 to 6 inches
		Alum	24000C Steel Little Scotty valves, 24000S Series valves	Steel and stainless steel globe valves, DN 15 to DN 80 or 1/2 to 3 inches
		Percol	24000C Steel Little Scotty valves, 24000S Series valves	Steel and stainless steel globe valves, DN 15 to DN 80 or 1/2 to 3 inches
Paper machine		Roller pressure control	24000F valve	Stainless steel wafer valve, 1/2 or 1 inch
			24000SB valve	Globe-type valve made from bar stock, 1/2, 3/4, or 1 inch
			24000C Steel Little Scotty valves, 24000S Series valves	Steel and stainless steel globe valves, DN 15 to DN 80 or 1/2 to 3 inches
		Talc	24000C Steel Little Scotty valves, 24000S Series valves	Steel and stainless steel globe valves, DN 15 to DN 80 or 1/2 to 3 inches
		XX PE C	24000 Bronze Little Scotty valve	Bronze utility valve, 1/2 to 2 inches
		Cooling water, utility	21000 Lo-T valve	Lined butterfly valve, 2 to 6 inches
		× 3'0'	25000 Lo-T valve	Butterfly valve, 2 to 8 inches
		pH control (acid and caustic)	42000 valve	Eccentric-plug rotary valve, DN 25 to DN 150 or 1 to 6 inches
		WWT (Waste-Wate	er Treatment)	
	in the	N TO VY	51000	Low-flow valve, 1/4 or 1/2 inches
	ANX		26000	Lined wafer valve, DN 25 or 1 inch
WWT	- XX- A.	0.V.	86000	Lined sleeve valve, 1 inch
	t when ge		24000C Steel Little Scotty valves, 24000S Series valves	Steel or stainless steel globe valves, DN 15 to DN 80 or 1/2 to 3 inches

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