

Approval Overview - Solenoid Valves



	Type of approval	Direct acting plunger valves								Direct acting pivoted armature & toggle valves				Servo assisted plunger valves				Servo assisted diaphragm valves				Area of validity	
		7011	7012	7015	7016	7017	6013	6014	6027	6026	0330	0331	0121	0131	6240	5404	6407	6430	6213	6281	0290	5282	Countries
National approvals	UL,UR general purpose						✓	✓	✓		✓	✓ UR	✓ UR		✓	✓	✓		✓	✓	✓	✓	USA
	cURus (coil) general purpose	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	USA, Canada
	CSA general purpose						✓	✓	✓		✓	✓	✓		✓*				✓	✓	✓	✓	Canada
	CRN						✓	✓	✓		✓	✓			✓	✓			✓		✓	✓	Canada
	Safety Shutoff Valves								✓										✓				EU
Explosion-protection approvals	ATEX Cat. 2	✓	✓				✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	EU
	IECEX Cat. 2	✓	✓				✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	global
	UL HazLoc Div. 2 coil						✓	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓		✓	USA, Canada
	FM HazLoc Div. 1 coil						✓	✓			✓	✓	✓		✓	✓		✓	✓	✓		✓	USA, Canada
	KOSHA						✓	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓		✓	South Korea
	CCC (NEPSI)						✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓
Water approvals	Drinking water ordinance	✓	✓				✓		✓		✓	✓							✓	✓	✓	✓	Germany
	Watermark																		✓	✓			Australia
	VDE (EN 60730)																		✓	✓			Germany, Austria
	UL Fire Protection										✓	✓				✓				✓		✓	USA
Gas approvals	CSA GAS (ANSI Z21.21/CSA 6.5)						✓																Canada
	DVGW Gas EN 161	✓					✓		✓						✓						✓		Germany, EU
Food & Beverage approvals	EGV 1935/2004	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓									EU
	FDA	✓	✓		✓	✓	✓	✓	✓	✓	✓			✓						✓		✓	USA
	NSF169			✓	✓	✓																	USA
Pharma approval	USP Class IV	✓	✓	✓	✓	✓	✓	✓		✓	✓												USA
Ship and railway approvals	DNV GL						✓	✓	✓		✓	✓			✓					✓		✓	Germany
	Fire protection in rail vehicles	✓	✓				✓	✓	✓		✓	✓		✓	✓		✓	✓	✓				Germany

* CSA Safety Shutoff Valve for Hydrogen (USA/Canada)