

# MOTORIZED BALL VALVES

## WITH CHARACTERIZED FLOW CONTROL

*“New performing range of brass valves with chrome plated brass balls and electric rotary actuators with high IP level”*



### Ball valves range



- **2-way** and **3-way** valves (mixing/diverting) with high Kvs values
- Tight close-off ( **0% leakage** )
- Fluids temperature from **-20°C to +130°C**
- **10 bar close-off pressure** and 3.5 bar max differential pressure during modulation
- Valve bodies with high pressure rates **PN32** and **PN40**
- **Equal percentage flow curve** for modulating models

	MODEL	TYPE	DN	KVS	PN	ACTUATOR	DELTA P	FLUID TEMPERATURE	
								MIN.	MAX.
ON-OFF	VSS2	2-way	1/2"	20	32	10 Nm	10 bar	-20 °C	+130 °C
	VSS3		3/4"	45					
	VSS4		1"	60					
	VSS5		1 ¼"	100					
	VSS6		1 ½"	120					
	VSS8	2"	220	40	16 Nm	-15 °C	+110 °C		
	VSD3	3-way diverting	3/4"	9,6	32	10 Nm	-20 °C	+130 °C	
	VSD4		1"	11,3					
	VSD5		1 ¼"	19,2					
	VSD6		1 ½"	27,7					40
VSD8	2"	57							
0 ÷ 10 Vdc	VSC2	2-way	1/2"	4	40	16 Nm	3,5 bar	-10 °C	+130 °C
	VSC3		3/4"	6,3					
	VSC4		1"	10					
	VSC5		1 ¼"	16					
	VSC6		1 ½"	25					
	VSC8		2"	40					
	VDC2	3-way mixing	1/2"	4					
	VDC3		3/4"	6,3					
	VDC4		1"	10					
	VDC5		1 ¼"	16					
	VDC6		1 ½"	25					
	VDC8		2"	40					

## Actuators range



- **10 bar close-off pressure** and 3.5 bar max differential pressure during modulation
- No need of stem heater with fluids below 0 °C: the actuator has its own system to prevent ice
- High protection degree **IP65** on most actuators
- Auxiliary micro-switches on all actuators
- Opening or closing time: 40 seconds (10 Nm models) or 60 seconds (16 Nm models)
- Manual override

	MODEL	POWER SUPPLY [Vac ]	TORQUE [Nm]	OPENING AND CLOSING TIME [seconds ]	AUX. END SWITCH	IP RATING	MANUAL OVERRIDE
ON-OFF	MVS210	230	10	40	YES	IP 42	NO
	MVS410	24					
	MVS216	230	16	60		IP 65	YES
	MVS416	24					
0 ÷ 10 Vdc	MVS516	24	16	60	YES	IP 65	YES
	MVSHT	Insulation spacing for MVSx16 actuator					

## Valves / Actuators cross reference

VALVES SERIES	CONTROL	TYPE	DN	KVS	ACTUATORS		
					MVSx10 10 Nm	MVSx16 16 Nm	MVS516 16 Nm
					ON - OFF		0 ÷ 10 Vdc
VSS..	On - Off	2-way	1/2" ÷ 1 1/4"	20 ÷ 100	✓		
			1 1/2" ÷ 2"	120 ÷ 220		✓	
VSD..		3-way diverting	3/4" ÷ 1"	9.6 ÷ 11.3	✓		
			1 1/4" ÷ 2"	19.2 ÷ 57		✓	
VSC..	0 ÷ 10 Vdc	2-way	1/2" ÷ 2"	4 ÷ 40			✓
VDC..		3-way mixing	1/2" ÷ 2"	4 ÷ 40			✓



**LIQUID DYNAMICS**  
[www.liquiddynamics.co.nz](http://www.liquiddynamics.co.nz)  
[info@liquiddynamics.co.nz](mailto:info@liquiddynamics.co.nz)  
 Free Phone New Zealand 0800 893 070  
 North Island +64 9 909 0511 South Island +64 3 281 7826