



Stainless Steel Solenoid Valves – A brief introduction.

General Information

Our solenoid valves are suitable for controlling liquid and gas fluids with a max viscosity of 3⁰E or 37cSt (mm²/sec), compatible with the materials of construction as listed below.

Body: AISI 303 stainless steel

Internal parts: AISI 303 or AISI430 stainless steel

Seal materials: NBR (Buna – N/Nitrile),
EPDM (Ethylene Propylene),
FPM (Fluorinated Elastomer/Viton)
PTFE (Polytetrafluoride Ethylene).

For each solenoid valve the capacity coefficient Kv is given, it is the rate of water flow expressed in m³/h that is crossing the solenoid valve with a differential pressure of 1 bar at a room temperature between 5⁰C and 40⁰C.

ACL have several additional options which allows their valves to be used in an even wider range of applications.

These include:

1. Manual override
2. Stainless steel seat
3. Coil size 30 series 4 for better performance or low consumption
4. Coil size 36 series 5 for better performance
5. Latching version
6. Silver shading ring
7. Surface treatment of chemical nickel plating
8. Intermittency ratio: ED25%
9. Supply Sub Base or manifold
10. Universal version and NO version with inlet from the exhaust
11. Mix: G1/4" – hoesetail connection and accessories.

SERIES	PORT SIZE	ORIFICE		DIFFERENTIAL PRESSURE				NOMINAL POWER			SEALS	TEMPERATURE RANGE	COIL		OPTIONS
		mm	m ³ /h	Δp bar		AC ~ VA	DC	INRUSH	HOLD	DC			°C	SIZE	
	MIN			MAX	---										
	AC ~			DC	W										

2/2 Direct operated normally closed

110	1/4"-3/8"-1/2"	2	0,1	0	22	20	20	15	10	NBR	-10 +90	30	2	4-6
		3,5	0,32	0	10	8	20	15	10	EPDM	<+140			
		5,2	0,47	0	4	1,8	20	15	10	FPM	-10 +130			
		6,4	0,64	0	3,5	1	20	15	10	PTFE	-10 +160			

111	1/8"	1,2	0,04	0	25	25	12	8	6,5	NBR	-10 +90	22	3	3-5-6
		1,5	0,06	0	16	16	12	8	6,5	EPDM	<+140			
		2	0,09	0	12	10	12	8	6,5	FPM	-10 +130			
		2,5	0,14	0	8	5,5	12	8	6,5					
		3,1	0,19	0	5	2	12	8	6,5					

2/2 Direct operated normally open

210	1/4"-3/8"-1/2"	2	0,1	0	16	16	20	15	10	NBR EPDM FPM	-10 +90	30	2	4-6
		2,5	0,15	0	10	10	20	15	10		<+140			
		3,5	0,32	0	7	4	20	15	10		-10 +130			
		4,5	0,41	0	4,5	3	20	15	10					
		5,2	0,47	0	3	2,2	20	15	10					
6,4	0,64	0	3,5	3,5	40	30	27			36	5			

211	1/8"	1,2	0,04	0	19	19	12	8	6,5	NBR EPDM FPM	-10 +90	22	3	3-6
		1,5	0,06	0	14	14	12	8	6,5		<+140			
		2	0,09	0	8	8	12	8	6,5		-10 +130			
		2,5	0,14	0	4,5	4,5	12	8	6,5					
		3	0,19	0	2,5	2,5	12	8	6,5					

2/2 Diaphragm servo-assisted normally closed

177	3/8"	12	2,2	0,15	15	15	12	8	6,5	NBR EPDM FPM	-10 +90	22	3	6
	1/2"	12	2,5	0,15	15	15	12	8	6,5		<+140			
	3/4"	18	5,5	0,15	13	13	12	8	6,5		-10 +130			
	1"	24	10,2	0,15	10	10	12	8	6,5					

2/2 Diaphragm servo-assisted normally open

277	3/8"	12	2,2	0,15	15	15	12	8	6,5	NBR EPDM FPM	-10 +90	22	3	6
	1/2"	12	2,5	0,15	15	15	12	8	6,5		<+140			
	3/4"	18	5,5	0,15	13	13	12	8	6,5		-10 +130			
	1"	24	10,2	0,15	10	10	12	8	6,5					

3/2 Direct operated normally closed

310	G1/4"	2	2,4	0,11	0	13	13	20	15	10	NBR EPDM FPM	-10 +90	30	2	6-10
		2,5	2,4	0,16	0	10	10	20	15	10		<+140			
												-10 +130			

311	G1/8"	1,2	1,2	0,04	0	15	15	12	8	6,5	NBR EPDM FPM	-10 +90	22	3	6-10
		1,5	1,5	0,06	0	10	10	12	8	6,5		<+140			
		2	1,7	0,09	0	6	6	12	8	6,5		-10 +130			

2/2 Diaphragm servo-assisted normally closed - Hazardous area valve

A177	3/8"	12	2,2	0,15	15	15	-	12	8	FPM	-10 +130	-	A6
	1/2"	12	2,5	0,15	15	15	-	12	8				
	3/4"	18	5,5	0,15	13	13	-	12	8				
	1"	25	10,2	0,15	10	10	-	12	8				



110 Valve



311 Valve



210 Valve



177 Valve



211 Valve



277 Valve



310 valve



A177 Valve



111 Valve

These are just a few of the stainless steel solenoid valve available from ACL. For further information or to request a full ACL catalogue please contact us either using the details below or by requesting a call back through our Info Centre page.

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