

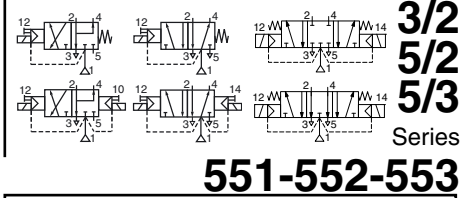


SOLENOID VALVES

pilot operated, spool type

single/dual solenoid

aluminium body, "NAMUR" style, 1/4 to 1/2



FEATURES

- The monostable spool valves have TÜV-EXIDA certified IEC 61508 Functional Safety data and can be used up to SIL 4 (551/TÜV)-SIL 3 (552-553/EXIDA)
- The spool valves have threaded port connections and "NAMUR" style interface
- The same spool valve can be adapted for 3/2 NC or 5/2 function for controlling double-acting and single-acting actuators
- All the exhaust ports of this spool valve are connectable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms, and applications in the pharmaceutical and food processing sectors
- The valve offers environmental protection against the ingress of liquids, dusts or any other foreign matter (environmentally-protected construction)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- The solenoid valves satisfy all relevant EC Directives

GENERAL

Differential pressure 2 - 10 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 1/4 = 700 l/min (ANR)
 3/8 - 1/2 = 3000 l/min

fluids (*)	temperature range (TS)	seal materials (*)
air, inert gas, filtered	- 40°C to + 60°C	NBR (nitrile) + PUR (polyurethane)

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body	Aluminium, black anodized with PBT spring return
End cover (spring return)	Glass-filled PA
Interface plates	Glass-filled PA
Spool valve internal parts	Zamak, stainless steel, (POM), aluminium
Pilot internal parts	Refer to specific solenoid catalogue pages
Pilot end covers	Aluminium
Core tube	Stainless steel
Core and plugnut	Stainless steel
Core spring	Stainless steel
Seals	NBR + PUR
Top disc	PA
Disc holder	POM
Cartridge (low power)	Welded, packless AISI 430
Seat	Brass
Seat insert	POM
Shading coil	Copper
Rider rings (low power)	PTFE

CONSTRUCTION

Fasteners Stainless steel

SPECIFICATIONS

pipe size	orifice size	flow coefficient kv		operating pressure differential (bar)			power level	prefix optional solenoids										basic catalogue number				
				min. ⁽³⁾	max. (PS)			NEMA 7 & 9	ATEX / IECEx				IP65									
					air (*)	~			=	~/=	EF	LPKF		NF	EM	PV	LI		IS	ZN	SC	
(*)	(mm)	(m³/h)	(l/min)																			
3/2 NC - 5/2 - Solenoid air pilot operated - spring return (monostable)																						
1/4	6	0,6	10	0/2	10	10	BP	-	-	●	-	●	●	-	-	●	●	❖551B482 ⁽²⁾				
1/4	6	0,6	10	0/2	10	10	BP	●	-	-	-	-	-	-	-	-	-	❖551H482 ⁽²⁾				
1/4	6	0,6	10	0/2	10	10	LP	-	○	●	-	●	○	○	○	○	○	❖551B382 ⁽²⁾				
1/4	6	0,6	10	0/2	10	10	LP	○	-	-	-	-	-	-	-	-	-	❖551H382 ⁽²⁾				
3/8	12	2,49	41,5	0/2	10	10	BP	-	-	●	-	●	●	-	-	●	●	❖552A482 ⁽²⁾				
3/8	12	2,49	41,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	-	-	❖552G482 ⁽²⁾				
3/8	12	2,49	41,5	0/2	10	10	LP	-	○	●	-	●	○	○	○	○	○	❖552A382 ⁽²⁾				
3/8	12	2,49	41,5	0/2	10	10	LP	○	-	-	-	-	-	-	-	-	-	❖552G382 ⁽²⁾				
1/2	13	2,49	41,5	0/2	10	10	BP	-	-	●	-	●	●	-	-	●	●	❖553A482 ⁽²⁾				
1/2	13	2,49	41,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	-	-	❖553G482 ⁽²⁾				
1/2	13	2,49	41,5	0/2	10	10	LP	-	○	●	-	●	○	○	○	○	○	❖553A382 ⁽²⁾				
1/2	13	2,49	41,5	0/2	10	10	LP	○	-	-	-	-	-	-	-	-	-	❖553G382 ⁽²⁾				

❖ Select **B** for NPT ANSI 1.20.3 or select **G** for ISO G (228/1) ● Available feature ○ Available feature in DC only - Not available
 (2) Certified IEC 61508 Functional Safety data, use suffix "SL".
 (3) Zero minimum is only achieved if external pressure is applied.

