

JOUCOMATIC

MONOFUNCTION SPOOL VALVES

solenoid air operated

ISO 5599/1 subbase-mounted body

with M12 electrical connection



5/2-5/3

Series

541-542-543

Type

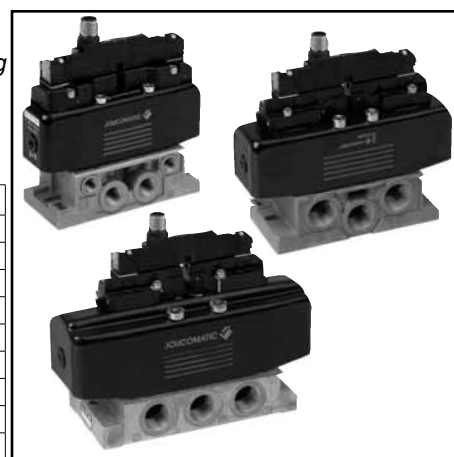
ISO sizes 1-2-3

FEATURES

- M12 connection: Prevents wiring errors, reduces installation time and reduces wiring costs
- Modular assembly with joinable subbases

GENERAL

	ISO 1	ISO 2	ISO 3
Fluid	Air or neutral gas, filtered, lubricated or not		
Operating pressure	+3 to +10 bar (with internal supply to pilot)		
	- 0,950 to +12 bar (with external supply to pilot)		
	Can be used with vacuum - 0,950 bar max.		
Pilot pressure	See tables choice of equipment		
Ambient temperature	- 10°C to +60°C		
Flow (Qv at 6 bar)	1400 l/min (ANR)	2800 l/min (ANR)	4200 l/min (ANR)
Flow coefficients	C = 5,8 x 10 ⁻⁸ m ³ /s.Pa (sonic conductance)		
	b = 0,28 (absolute static pressure)		
Response time	See specifications tables		
Life	30 millions of cycles		15 millions of cycles
Base	ISO 5599/1 sizes 1-2-3 - AFNOR NF E49080		
Subbase	Single subbase ISO/AFNOR NF E49085		
	Joinable subbase ISO/VDMA 24345		
	Joinable subbase with integrated functions		



CONSTRUCTION

Cover	Painted steel
Pilot and return assembly	POM (polyacetal)
Seals	NBR (nitrile) and PUR (polyurethane)
Internal parts	POM (polyacetal), light alloy

SPECIFICATIONS (SPOOL VALVE WITH INTERNAL PILOT SUPPLY)

function symbol	operators pilot (14) solenoid air operated return (12)	size	response time (ms)		pilot pressure (bar)		catalogue number spool valve with pilot series 302 (with internal supply) (M)		
			energized	de-energized	min.	max.	×	●	▼
5/2	spring return	ISO 1	32	81	3	10	54102214	54102230	54102246
		ISO 2	32	65	2,5		54202151	54202172	54202193
		ISO 3	62	104	3		54302151	54302172	54302193
	differential return	ISO 1	48	53	3	10	54102215	54102231	54102247
		ISO 2	51	62	2		54202152	54202173	54202194
		ISO 3	97	71	3		54302152	54302173	54302194
	air return	ISO 1	19	-	1,5	10	54102216	54102232	54102248
		ISO 2	21	-	1,5		54202153	54202174	54202195
		ISO 3	34	-	1,5		54302153	54302174	54302195
	solenoid differential return	ISO 1	17	22	3	10	54102217	54102233	54102249
		ISO 2	17	21	2		54202154	54202175	54202196
		ISO 3	29	39	3		54302154	54302175	54302196
solenoid air operated	ISO 1	18	18	1,5	10	54102218	54102234	54102250	
	ISO 2	18	20	2		54202155	54202176	54202197	
	ISO 3	33	38	2		54302155	54302176	54302197	
5/3	pressure held W1	ISO 1	18	18	3	10	54102219	54102235	54102251
		ISO 2	25	26	2,5		54202156	54202177	54202198
		ISO 3	37	46	3		54302156	54302177	54302198
	pressure applied W2	ISO 1	48	20	3	10	54102220	54102236	54102252
		ISO 2	54	26	2,5		54202157	54202178	54202199
		ISO 3	77	50	3		54302157	54302178	54302199
	pressure release W3	ISO 1	21	50	3	10	54102221	54102237	54102253
		ISO 2	28	59	2,5		54202158	54202179	54202200
		ISO 3	40	52	3		54302158	54302179	54302200

(M) Type of manual operator on pilot(s): × : without ● : maintained ▼ : impulse

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