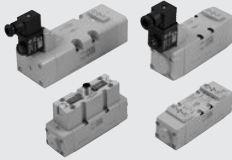


## VALVES ISO 5599/1, SERIES IPV-ISV



TECHNICAL DATA	ISO 1	ISO 2	ISO 3
Fluid	Filtered air without lubrication; lubrication, if used, must be continuous		
Operating pressure:	bar		
• monostable	Vacuum to 10 pneumatic / 2.5 to 10 solenoid/pneumatic		
• bistable	Vacuum to 10 pneumatic / 1 to 10 solenoid/pneumatic		
• pilot-assisted	Vacuum to 10		
Minimum pilot pressure	bar		
Operating temperature range	°C		
Nominal diameter	mm		
Conductance C	7.5	12	15
Critical ratio b	250	657.14	971.43
Flow rate at 6 bar ΔP 0.5 bar	0.36	0.25	0.43
Flow rate at 6 bar ΔP 1 bar	700	1800	3200
Installation	1100	2700	4600
Assembly	In any position (vertical assembly is not recommended for bistable valves subjected to vibration)		
Recommended lubricant	On single and manifold bases according to ISO 5599/1		
Solenoid pilot	ISO and UNI FD 22		
Manual	to CNOMO/in-line pilot / M12   to CNOMO		
	Bistable on solenoid pilot		
	Monostable on valve body		
Maximum coil nut torque	Nm		
	1		

### SYNOPTIC, SIZES AND VERSIONS

I P V FAMILY		5 DIMENSIONS		5 FUNCTION		P N OPERATORS 14		S RESETTING (12)		O O FURTHER DETAILS	
IPV	ISO pneumatic	5	ISO 1	5	5/2	PN	pneumatic	S	mechanical springs	OO	5/2
ISV	ISO solenoid/pneumatic	6	ISO 2	6	5/3	SO	solenoid/pneumatic	B	bistable	CC	closed centres
		7	ISO 3			SE	electric pilot-assisted	D	differential	OC	open centres
						* DO	solenoid/pneumatic in line			PC	pressure centres
						* DE	solenoid assisted in line M12				
						● CO	M12 solenoid/pneumatic				
						● CE	M12 solenoid assisted				

\* Only for ISO 1  
● Only for ISO 1 and ISO 2

## VALVES ISO 5599/1, PNEUMATIC SERIES IPV



TECHNICAL DATA	ISO 1	ISO 2	ISO 3
Operating pressure	bar		
Minimum operation pressure:	bar		
• monostable	Vacuum to 10		
• bistable	2.5		
Operating temperature range	°C		
Nominal diameter	mm		
Conductance C	7.5	12	15
Critical ratio b	250	657.14	971.43
Flow rate at 6 bar ΔP 0.5 bar	0.36	0.25	0.43
Flow rate at 6 bar ΔP 1 bar	700	1800	3200
Actuation response times at 6 Bar:	1100	2700	4600
• monostable	12	24	35
• bistable	20	30	45
Repositioning response times at 6 Bar:			
• monostable	30	43	55
• bistable	20	30	45
Manual	monostable on valve body		

### PNEUMATIC ACTUATION

Symbol	Code	Abbrev.	Weight [g]	Symbol	Code	Abbrev.	Weight [g]
	7051011100	IPV 55 PNs OO ISO 1	310		7051012100	IPV 56 PNs CC ISO 1	310
	7052011100	IPV 65 PNs OO ISO 2	705		7052012100	IPV 66 PNs CC ISO 2	705
	7056011100	IPV 75 PNs OO ISO 3	1175		7056012100	IPV 76 PNs CC ISO 3	1290
	7051011200	IPV 55 PNB OO ISO 1	310		7051012200	IPV 56 PNs OC ISO 1	310
	7052011200	IPV 65 PNB OO ISO 2	705		7052012200	IPV 66 PNs OC ISO 2	705
	7056011200	IPV 75 PNB OO ISO 3	1175		7056012200	IPV 76 PNs OC ISO 3	1290
	7051011300	IPV 55 PND OO ISO 1	310		7051012300	IPV 56 PNs PC ISO 1	310
	7052011300	IPV 65 PND OO ISO 2	705		7052012300	IPV 66 PNs PC ISO 2	705
	7056011300	IPV 75 PND OO ISO 3	1175		7056012300	IPV 76 PNs PC ISO 3	1290

## VALVES ISO 5599/1, SOLENOID/PNEUMATIC, SERIES ISV



TECHNICAL DATA		ISO 1	ISO 2	ISO 3
Operating pressure:	bar		2.5 to 10	
• monostable			1 to 10	
• bistable			Vacuum to 10	
• pilot-assisted			2.5	
Minimum pilot pressure	bar		-10 to +60	
Operating temperature range	°C			
Nominal diameter	mm	7.5	12	15
Conductance C	Nl/min · bar	250	657.14	971.43
Critical ratio b	bar/bar	0.36	0.25	0.43
Flow rate at 6 bar ΔP 0.5 bar	Nl/min	700	1800	3200
Flow rate at 6 bar ΔP 1 bar	Nl/min	1100	2700	4600
TRA / TRR monostable at 6 bar	ms	24 / 50	39 / 60	50 / 120
TRA / TRR bistable at 6 bar	ms	20 / 20	25 / 25	35 / 35
Solenoid pilot		Standards CNOMO		
Manual		Bistable on solenoid pilot		
		Monostable on valve body		
		30 mm side DIN 43650 Form A – ISO		
		22 mm side		
		1		
Coils				
Maximum coil nut torque	Nm			

### MONOSTABLE 5/2

Symbol	Code	Abbrev.	Weight [g]
	7051021100	ISV 55 SOS OO ISO 1	344
	7052021100	ISV 65 SOS OO ISO 2	715
	7056021100	ISV 75 SOS OO ISO 3	1207

Symbol	Code	Abbrev.	Weight [g]
	7051021400	ISV 55 SES OO ISO 1	344
	7052021400	ISV 65 SES OO ISO 2	715
	7056021400	ISV 75 SES OO ISO 3	1207

### BISTABLE 5/2 - MONOSTABLE 5/3

Symbol	Code	Abbrev.	Weight [g]
	7051021200	ISV 55 SOB OO ISO 1	388
	7052021200	ISV 65 SOB OO ISO 2	740
	7056021200	ISV 75 SOB OO ISO 3	1230
	7051021300	ISV 55 SOD OO ISO 1	375
	7052021300	ISV 65 SOD OO ISO 2	710
	7056021300	ISV 75 SOD OO ISO 3	1230
	7051022100	ISV 56 SOS CC ISO 1	372
	7052022100	ISV 66 SOS CC ISO 2	720
	7056022100	ISV 76 SOS CC ISO 3	1355
	7051022200	ISV 56 SOS OC ISO 1	372
	7052022200	ISV 66 SOS OC ISO 2	720
	7056022200	ISV 76 SOS OC ISO 3	1355
	7051022300	ISV 56 SOS PC ISO 1	372
	7052022300	ISV 66 SOS PC ISO 2	720
	7056022300	ISV 76 SOS PC ISO 3	1355

Symbol	Code	Abbrev.	Weight [g]
	7051021500	ISV 55 SEB OO ISO 1	388
	7052021500	ISV 65 SEB OO ISO 2	740
	7056021500	ISV 75 SEB OO ISO 3	1230
	7051021600	ISV 55 SED OO ISO 1	375
	7052021600	ISV 65 SED OO ISO 2	710
	7056021600	ISV 75 SED OO ISO 3	1230
	7051022400	ISV 56 SES CC ISO 1	372
	7052022400	ISV 66 SES CC ISO 2	720
	7056022400	ISV 76 SES CC ISO 3	1355
	7051022500	ISV 56 SES OC ISO 1	372
	7052022500	ISV 66 SES OC ISO 2	720
	7056022500	ISV 76 SES OC ISO 3	1355
	7051022600	ISV 56 SES PC ISO 1	372
	7052022600	ISV 66 SES PC ISO 2	720
	7056022600	ISV 76 SES PC ISO 3	1355

## VALVES ISO 5599/1, PNEUMATIC, SERIES ISV WITH IN-LINE SOLENOID PILOT



LOOK ABOVE TABLE FOR TECHNICAL DATA

### MONOSTABLE 5/2 ISO 1

Symbol	Code	Abbrev.	Weight [g]
	7053021100	ISV 55 DOS OO	396
	7053021400	ISV 55 DES OO	396

### BISTABLE 5/2 ISO 1

Symbol	Code	Abbrev.	Weight [g]
	7053021200	ISV 55 DOB OO	450
	7053021500	ISV 55 DEB OO	450

### MONOSTABLE 5/3 ISO 1

Symbol	Code	Abbrev.	Weight [g]
	7053022100	ISV 56 DOS CC	517
	7053022200	ISV 56 DOS OC	516
	7053022300	ISV 56 DOS PC	516

Symbol	Code	Abbrev.	Weight [g]
	7053022400	ISV 56 DES CC	517
	7053022500	ISV 56 DES OC	516
	7053022600	ISV 56 DES PC	515