Blocking valves



Unidirectional blocking valves are safety devices which can block the cylinder rod when, accidentally, the pressure fails. Bidirectional blocking valves are used to block the cylinder rod when the bistable 5/2 valve that controls it has deenergized pilots. In this case the 5/3 function is obtained.

Max. working pressure: 10 bar Ambient and fluid temperature: -20 ÷ +180 °C Fluid temperature: 50°C max.

Undirectional blocking valve





Functioning: the valve in rest position allows the air flow from 2 to 1; air flows from 1 to 2 only when it receives the control 2 signal. Use: when mounted on the cylinder (opening 1 connected to the cylinder) the valve blocks the cylinder when pressure

accidentally fails.

Oil proof seals Fluid: filtered air with or without lubrication

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Bidirectional blocking valve

Body: die-cast zamak





Functioning: the valve allows the air flow from 2 to 1 (or from 1 to 2) only when it receives the control signal. Use: when mounted on the cylinder openings it allows the 3 position operation (closed centres) although a 5/2valve controls the cylinder. This is reached by connecting the opening 2 to the cylinder, the opening 1 to the 5/2 valve and controlling the two valves at the same time through an OR. The OR inputs must be connected to the control impulses of the 5/2 valve.

Туре	Symbol	Function	Ports	Capacity NI/min	Ømm	Pressure bar	Mass kg	Part number
	-• • • • • • • • • • • • • • • • • • •	unidirectional	G 1/8	620	6,5	1,5 ÷ 10	0,110	AM-5500
			G 1/4	620	6,5		0,110	AM-5501
			G 1/4	2100	9,5		0,110	AM-5502
			G 3/8	2100	9,5		0,150	AM-5503
			G 1/2	3500	15		0,360	AM-5504
	-Þ-	bidirectional	G 1/8	620	6,5	1,5 ÷ 10	0,110	AM-5510
			G 1/4	620	6,5		0,110	AM-5511
			G 1/4	2100	9,5		0,110	AM-5512
			G 3/8	2100	9,5		0,150	AM-5513
			G 1/2	3500	15		0,360	AM-5514

Overall dimensions





Α	В	С	D	Е	F	G	н	I	L
46	58	24	31	29	20	18,5	G 1/8 G 1/4	31	4,25
50	65	28	35	38	21	24,5	G 1/4 G 3/8	37	5,25
67	81	40	46	48	27	28,5	G 1/2	42	6,25

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Accessories