DESCRIPTION

Complementary valves are very important components of the pneumatic circuits. This group includes the:

- SHUTTLE VALVES: these valves are used when there is the necessity to convey, in one pipeline, two pneumatic flows coming from two different pipelines without any interference; in fact the compressed air flows from one of the two inlet ports to the working port while the second inlet port is excluded.
- QUICK EXHAUST VALVES: air flows from the inlet port to the working port while the exhaust port is closed. By shutting off the inlet port, the compressed air from the working port is exhausted through the exhaust port.
- CHECK VALVES: these valves are used to prevent loss of pressure in a pipeline when the inlet is connected to the exhaust; the compressed air can flow freely from the inlet to the working port while the opposite direction is blocked.



SHUTTLE VALVES SERIES DS

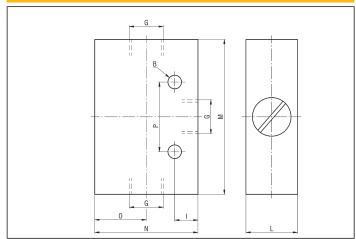
TECHNICAL DATA

Operating pressure	0 ÷ 12 bar
Working temperature	0 ÷ +80° C (-20° C with dry air)
Fluid	Compressed air, filtered, continuous lubricated, unlubricated or dry lubricated
Port size	G 1/8 - G 1/4 - G 3/8 - G 1/2

MATERIALS

Body	Aluminium alloy
Seals	NBR rubber

DIMENSIONS AND WEIGHTS DS



Symbol	В	I	L	M	N	0	Р	Flow rate at 6 bar ∆P=1 bar (NI/min)	Pmin (bar)	Weight (g)	G	TYPE
12	4,2	6	16	46	31	13	22	700	0,2	60	G 1/8	DS8
1A - A - IR	5,2	8	20	60	40	17,5	27	1700	0,4	125	G 1/4	DS4
IN TOTAL IN	6,4	10	25	80	50	21	38	3400	0,3	235	G 3/8	DS3
	6,4	12	30	100	60	26	48	5000	0,6	435	G 1/2	DS2

QUICK EXHAUST VALVES SERIES D3/

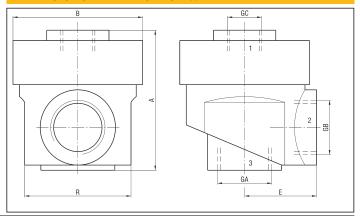
TECHNICAL DATA

Operating pressure	0 ÷ 12 bar
Working temperature	0 ÷ +80° C (-20° C with dry air)
Fluid	Compressed air, filtered, continuous lubricated, unlubricated or dry lubricated
Port size	G 1/4 - G 1/2 - G 3/4

MATERIAL S

Body	Aluminium alloy	
Seals	NBR rubber	
Bottom	Aluminium alloy	

DIMENSIONS AND WEIGHTS D3/



Symbol	Α	В	E	R	Flow rate from 1 to 2 at 6 bar ∆P=1 bar (NI/min)	Flow rate from 2 to 3 at 6 bar free exhaust (NI/min)	Pmin <i>(bar)</i>	Weight (g)	GA	GB	GC	TYPE
	38	35	19,5	27	520	2300	0,2	70	G 1/4	G 1/4	G 1/8	D3/4
- ○+→>	43	35	19,5	27	610	2300	0,2	75	G 1/4	G 1/4	G 1/4	D3/4B
1 3	54	50	27,5	41	1520	4300	0,2	135	G 1/2	G 1/2	G 1/4	D3/2
	58	50	27,5	41	2220	4300	0,2	140	G 1/2	G 1/2	G 1/2	D3/2B
2	82	82	44	70	4400	6000	0,2	510	G 3/4	G 3/4	G 1/2	D3/15

Complementary valves: check and slide valves, distribution frames

CHECK VALVES SERIES U

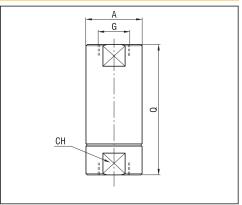
TECHNICAL DATA

Operating pressure 0 ÷ 12 bar Working temperature 0 ÷ +80° C (-20° C with dry air) Fluid Compressed air, filtered, continuous lubricated, unlubricated or dry lubricated Port size G 1/8 - G 1/4 - G 1/2 - G 1

MATERIALS

Body	Anodized aluminium
Piston	Brass
Seals	NBR rubber
Spring	Stainless steel

DIMENSIONS AND WEIGHTS U



Symbol	СН	Α	Q	Flow rate at 6 bar ∆ P=1 bar (NI/min)	Pmin (bar)	Weight (g)	G	TYPE
	13	15	34	70	0,2	25	G 1/8	U8
AL AL	19	21	48	700	0,7	75	G 1/4	U4
-4	19	21	48	725	0,2	75	G 1/4	U4/SM
VII 1	27	30	66	2750	0,2	170	G 1/2	U2
	50	50	110	5100	0,2	1000	G 1	U1
	19	21	48	800	0,2	75	G 1/4	U4/SM2

SLIDE VALVES SERIES VC

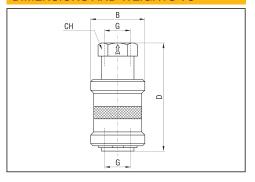
TECHNICAL DATA

	Operating pressure		0 ÷ 16 bar
			$0 \div +80^{\circ}$ C (-10° C with dry air)
Fluid Compressed air, filtered unlubricated or dry lub			filtered, continuous lubricated, ry lubricated
	Port size		G 1/8 - G 1/4 - G 3/8 - G 1/2

MATERIALS

Body	Nickel-plated brass
Slide	Anodized aluminium
Seals	NBR rubber

DIMENSIONS AND WEIGHTS VC



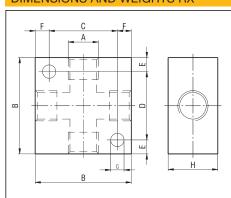
СН	В	Flow rate at 6 bar ∆P=1 bar (NI/min)	D	Weight (g)	G	TYPE
14	25	700	48	54	G 1/8	VC-01
17	30	1500	58	102	G 1/4	VC-02
22	35	2200	68	153	G 3/8	VC-03
27	40	3400	80	204	G 1/2	VC-04

DISTRIBUTION FRAMES SERIES RX

TECHNICAL DATA

Fluid	Air, oil, water
Port size	G 1/8 - G 1/4 - G 3/8 - G 1/2

DIMENSIONS AND WEIGHTS RX



MATERIALS

Body Anodized aluminium alloy

В	С	D	E	F	G	Н	Α	Weight (g)	TYPE
31	23	22	4,5	4	4,3	16	G 1/8	35	RX8
40	30	27	6,5	5	5,3	20	G 1/4	70	RX4
50	38	39	5,5	6	6,3	25	G 3/8	130	RX3
50	38	39	5,5	6	6,3	25	G 1/2	115	RX2

DIMENSIONS AND WEIGHT RX8/6

